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ATS-1

Automated Truck Scale System



Shown with optional features

APPROVALS

STANDARD FEATURES

- Operator prompting
- Formattable tickets that print at the end of a transaction
- Traffic light control
- Transmits weight to remote display (only when activated)

Optional Features

- RFID reader
- Credit card reader
- Qwerty keyboard
- Internal heater
- Currency accepter (U.S. currency only)
- Gate control
- Loop detector input
- Internal printer

SPECIFICATIONS

LINE VOLTAGES:
115 or 230 VAC

FREQUENCY:
50 or 60 Hz

POWER CONSUMPTION:
340 mA, maximum @ 115 VAC (26 W)
240 mA @ 230 VAC (26 W)

FUSING:
115 VAC: 2 x 400 mA TR5 subminiature fuses Wickman Time-Lag 19374 Series. UL Listed, CSA certified and approved
230 VAC/North American: 2 x 315 mA TR5 subminiature fuses Wickman Time-Lag 19372 Series. UL Listed, Semco and VD Approved

EXCITATION VOLTAGE:
10 ± 0.5 VDC, 16 x 350 Ω or 32 x 700 Ω load cells per A/D card

SENSE AMPLIFIER:
Differential amplifier with 4 and 6 wire sensing

ANALOG SIGNAL INPUT RANGE:
-10 mV to +70 mV

ANALOG SIGNAL SENSITIVITY:
0.3 µV/graduation minimum @ 7.5 Hz
1.0 µV/graduation typical @ 120 Hz
4.0 µV/graduation typical @ 960 Hz

A/D SAMPLE RATE:
7.5 to 960 Hz, software selectable

INPUT IMPEDANCE:
>35 MΩ typical

INTERNAL RESOLUTION:
8 million counts/8 million 23 bit

WEIGHT DISPLAY RESOLUTION:
9,999,999

INPUT SENSITIVITY:
10 nV per internal count

SYSTEM LINEARITY:
±0.01% full scale

ZERO STABILITY:
±150 nV/°C, maximum

SPAN STABILITY:
±3.5 ppm/°C, maximum

CALIBRATION METHOD:
Software, contents stored in flash memory

INPUT VOLTAGE DIFFERENTIAL:
±800 mV referenced to earth ground

INPUT OVERLOAD:
Load cell signal lines ±10 V continuous, ESD protected

RFI/EMI PROTECTION:
Signal, excitation and sense lines protected

MICROCOMPUTER:
Motorola ColdFire® MCF5307 main processor @ 90 MHz

DIGITAL I/O:
Four I/O channels on CPU board; optional 24-channel I/O expansion boards available

DIGITAL FILTER:
Software selectable: 1–256, enhanced RATTLE-TRAP® hybrid digital filtering

SERIAL PORTS:
Four ports on CPU board support up to 115,200 bps; optional dual-channel serial expansion boards available
Port 1: Full duplex RS-232
Port 2: RS-232 with CTS/RTS; PS/2 keyboard interface via DB-9 connector
Port 3: Full duplex RS-232, 20 mA output
Port 4: Full duplex RS-232, 2-wire RS-485, 20 mA output

DISPLAY:
4.6 in W x 3.4 in H (116 mm W x 86 mm H), 320 x 240 pixel VGA Liquid Crystal Display (LCD) module with adjustable contrast, 75 Hz scan rate 26,000 cd/m2 brightness

KEYBOARD:
27-key membrane panel, PS/2 port for external keyboard connection

OPERATING TEMPERATURE:
Legal: 14°F to 104°F (-10°C to +40°C)
Industrial: 14°F to 122°F (-10°C to +50°C)

STORAGE TEMPERATURE:
14°F to 158°F (-10°C to +70°C)

HUMIDITY:
0-95% relative humidity

DIMENSIONS:
Indicator: 10.5 in W x 10.9 in H x 4.5 in D (226 mm W x 215 mm H x 114 mm D)
Enclosure w/Bill Accepter: 30.0 in H x 24.0 in W x 8.0 in D (762 W x 609.6 H x 203 mm D)
Printer Box: 20.0 in H x 20.0 in W x 12.0 in D (508 mm W x 508 mm H x 305 mm D)
Note: Enclosure sizes may vary based on options requested.

RATING/MATERIAL:
NEMA 4 painted enclosure

APPROVALS:
CE marked
TUV;
UL & C-UL listed
NTEP Class III,10000 dd 98-158

WARRANTY:
Two-year limited warranty

ColdFire is a registered trademark of Motorola, Inc.

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ATS-1

Automated Truck Scale System

PART#	DESCRIPTION	EST. SHIP WEIGHT	PRICE
ATS-1	Automated Truck Scale System	40 lb	prices starting at $2,995.00

OPTIONS/ACCESSORIES

75850	SURVIVOR® LaserLight® Series remote display, 4 in	1,450.00
75852	SURVIVOR® LaserLight® Series remote display, 6 in	1,900.00
36966	Internal heater	450.00
21159	Internal transient protection	245.00
23146	Traffic light	495.00
Consult	Kiosk tape printer with weather shield	3,495.00

REPLACEMENT PARTS

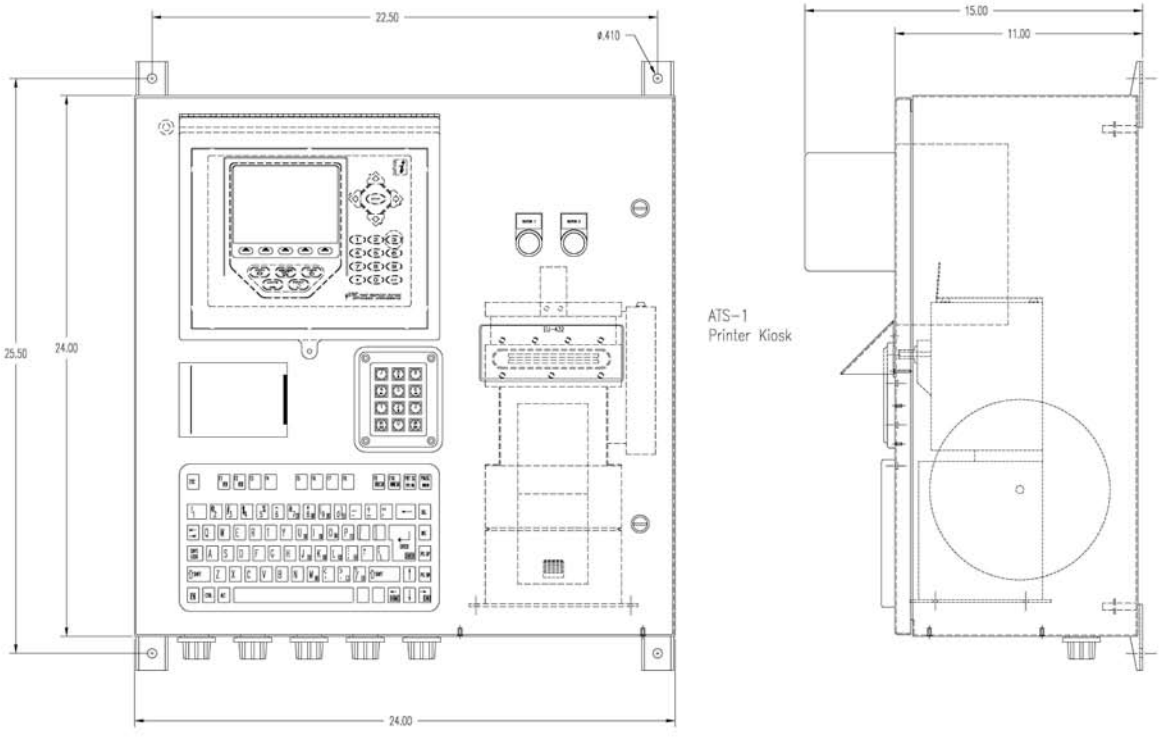
105443	EU-T400 (requires power supply)	1,095.00
23112	Power supply	106.00
105445	Paper 6 in OD	25.00
105446	Paper 8 in OD	27.00

PRINTER OPTIONS

- 90975- STAR TUP 992 Thermal

CONSULT FACTORY FOR THESE ADDITIONAL OPTIONS

- Stainless steel enclosure
- RF tags/antenna for truck IDs
- Bar code badge scanner
- 230 VAC
- Foreign currency acceptor
- Full keyboard
- Numeric keypad



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ATK

Automated Ticketing Printer Kiosk



Basic Printer Kiosk



Basic Printer Kiosk with optional RFID card reader



Basic Printer Kiosk with optional RFID card reader and optional number keypad

STANDARD FEATURES

- Accommodates most models of thermal transfer printers
- Circuit breaker protected AC power management (instead of fuse)
- Custom-engineered riser plates ensure proper positioning of printer
- Weather-resistant ticket access door with drain holes
- Media storage and tool hangers inside the enclosure
- Locked door secures printer
- Access panel for printer front panel buttons/display
- Optional fanfold paper storage chamber

SPECIFICATIONS

LINE VOLTAGES:
115 or 230 VAC

FREQUENCY:
50 or 60 Hz

POWER CONSUMPTION:
0.5 amps (depending on options)

FUSING:
0.8 amps circuit breaker

DIGITAL I/O:
4 TTL level
Optional relay

HUMIDITY:
0-95% relative humidity

RATING/MATERIAL:
NEMA 3
IP63

SERIAL PORTS:
2 RS-232
Ethernet

DISPLAY:
Optional 2 line x 20 character vacuum fluorescent display

KEYBOARD:
Optional 12-key stainless steel weatherproof keyboard

STORAGE TEMPERATURE:
14°F to 158°F (-10°C to +70°C)

CURRENT SUPPORTED RISER PLATES:
Zebra® 140XiIIIPlus
Zebra 105SL
Zebra R110Xi
Zebra Z4Mplus
Zebra 2746e
Datamax® I-4208
Datamax 4206
Datamax I-4308
Datamax I-4210
Datamax I-4212
Intermec 3400e
Intermec 4440

APPROVALS:
UL and C-UL listed

WARRANTY:
Two-year limited warranty

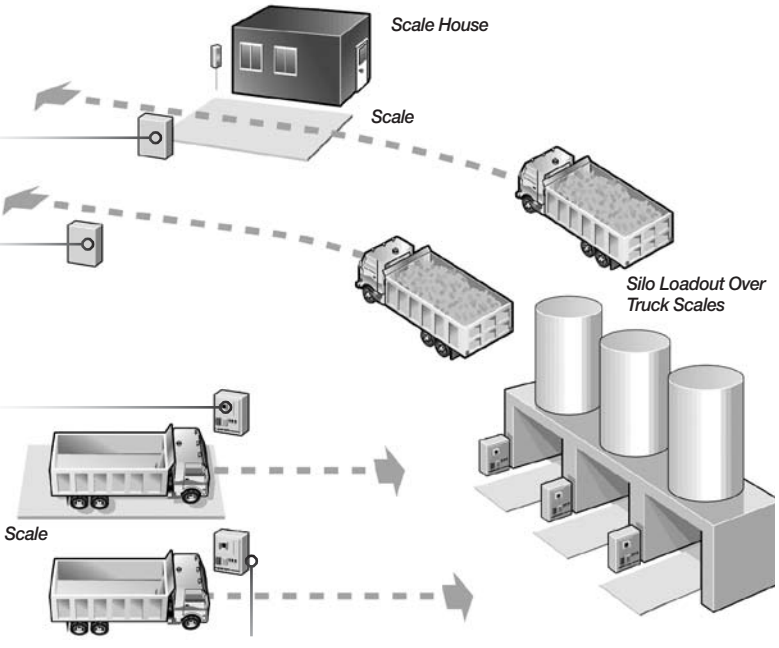
FUNCTIONS OF THE KIOSK SUITE

Multi Kiosk Configuration illustrated

Check-out
A check-out kiosk is used to identify the truck and check it out of the yard

Ticket Printing
A ticket printing kiosk identifies the truck and prints a ticket for a truck that was loaded and weighed at a silo loadout system. This can also be used as a multi-function kiosk

Weigh-in
A weigh-in kiosk performs all of the functions of a check-in kiosk, but is also associated with a scale to capture and update the truck's tare weight



Three ways to access the kiosk system



RFID Card Reader



Number Keypad



Number Keypad/Card Reader

Check-in
A check-in kiosk is used to identify the truck and check it into the yard. Optionally, the driver can interact using the kiosk keypad to verify or change load information such as Customer, Job, Destination, Product and Load Quantity.

Lane Verification
The lane verification kiosk is used with silo loadout systems to verify that the truck is in the proper location for automated loading of the right material

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ATK

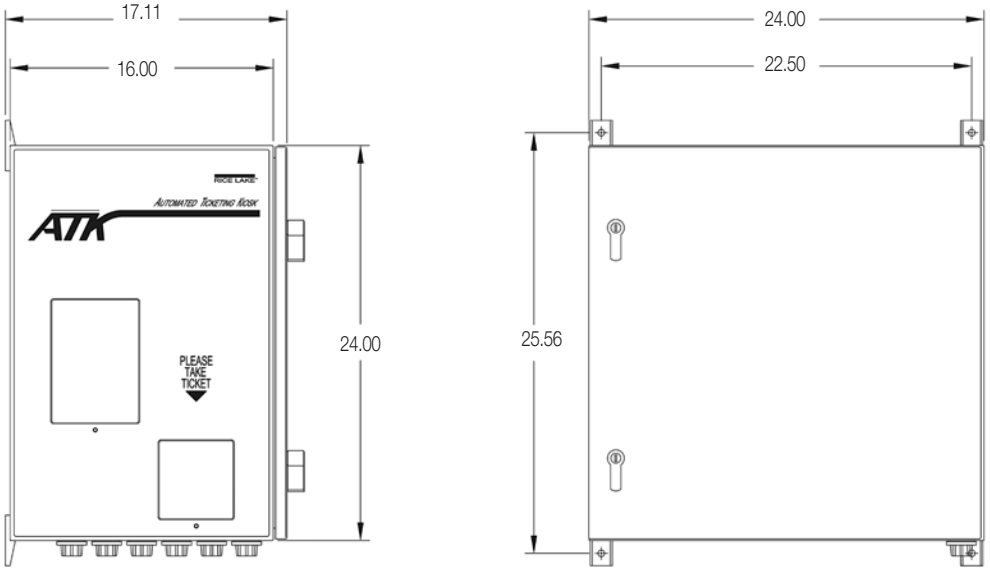
Automated Ticketing Printer Kiosk

PART#	DESCRIPTION	PRICE
92971	Printer Kiosk, Inbound Base Unit 115 VAC	$1,995.00
93478	Printer Kiosk Installation Manual (included with each kiosk)	55.00

A test plan is included with each kiosk
Consult factory for private label versions

OPTIONS/ACCESSORIES

93458	Printer Riser Plate for Zebra® 140XiIIIPlus	245.00
93459	Printer Riser Plate for Zebra 105SL	245.00
93460	Printer Riser Plate for Zebra R110Xi	245.00
93461	Printer Riser Plate for Zebra Z4Mplus	245.00
93462	Printer Riser Plate for Zebra 2746e	245.00
93463	Printer Riser Plate for Datamax® I-4208;I-4308	245.00
93466	Printer Riser Plate for Datamax I-4210;I-4212	245.00
93468	Printer Riser Plate for Intermec 3400e	245.00
93469	Printer Riser Plate for Intermec 4440	245.00
86394	SmartPass® Antenna AI1620 Low Power 1/2 Frame	5,625.00
86396	SmartPass Antenna AI1620 High Power 1/2 Frame	6,995.00
86395	SmartPass Antenna AI1620 Low Power Full & 1/2 Frame	7,395.00
102382	SmartPass Antenna AL1620 High Power 1/2 frame, RS-422 output	7,395.00
86400	Amtech AT5114 Transportation Tag 1/2 Frame W/ Battery	75.00
86399	Amtech AT5112 Transportation Tag 1/2 Frame	60.00
86397	Amtech AT5102 Transportation Window Tag (must order in quantity of 50)	45.00
86398	Amtech AT5105 Transportation Window Tag W/ Battery	59.00
92987	HID iClass RW400 Reader Antenna	395.00
36966	Heater	450.00
89190	Tag stock 400 ft x 4.00 ft wide	38.50
34056	Transfer ribbon	25.25
67960	Datamax I-4208	1,495.00
64884	Thermal transfer option	100.00
84416	Ethernet option	300.00
53918	Cutter option	795.00



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OnTrak™

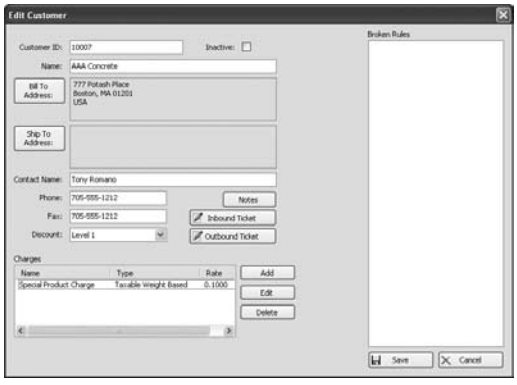
Truck Data Management Software



APPROVALS



Weigh Scale



Customer Account Information

STANDARD FEATURES

- Supports Windows 2000, XP & Vista Systems
- SQL Server 2005 Database
- Comprehensive Report Filters
- User and Administrator Security Levels
- Back up and Restore via SQL Server Management Studio
- Unlimited Charge / Discount per Product
- Ship Mode or Receive Mode for Each Transaction
- Exclusive Data Base for:
  - Customer
  - Hauler
  - Truck
  - Product
  - Job
  - Price/Discount
  - Tax
  - Transaction
- Ethernet TCP/IP or RS-232 Connectivity
- Supports VIRTUi or Rice Lake Indicators
- 32 Bit Application utilizing Client Server Database
- Download OnTrak trial at www.ricelake.com/ontrak

OPTIONAL FEATURES

- Interface to non-Rice Lake Weight Indicators
- Custom Reports
- Database Configuration
- Field Installation & Training
- Factory Phone Support

DATABASE FEATURES:

TRANSACTION:
- Truck
- Customer
- Job
- Product
- Weigh In T&D
- Weigh Out T&D
- Gross Weight
- Tare Weight
- Net Weight
- Tare Type
- Units
- Void
- Ship Mode

TRANSACTION CHARGE:
- Transaction #
- Charge Name
- Charge Rate
- Charge Type

PRODUCT:
- Product Name
- Product ID
- Price
- Description
- Minimum Charge

PRODUCT CHARGE:
- Product
- Charge
- Job
- Job ID
- Job Name
- Job Closed
- Customer #

JOB PRICING:
- Job #
- Product #
- Amount Ordered
- Amount Delivered
- Discount

TRUCK:
- Truck ID
- Tare
- Are Acquired
- Tare Expiration
- Tare Type
- Name
- Minimum Weight
- Maximum Weight
- Radio Tag ID
- Customer #
- Job #
- Product #
- Hauler #

HAULER:
- Name
- Address
- Phone
- Fax
- Contact Name

WEIGH IN:
- Truck #
- Customer #
- Job #
- Product #
- Weigh In T&D
- Weight Value

CHARGE:
- Charge Name
- Charge Rate
- Charge Type

DISCOUNT SCHEDULE:
- Name
- Rate

ADDRESS:
- Line 1
- Line 2
- Line 3
- City
- State
- Postal Code
- Country

CUSTOMER:
- Customer ID
- Name
- Bill to Address
- Ship to Address
- Phone
- Fax
- Contact Name

HAULER:
- Name
- Address
- Phone
- Fax
- Contact Name
- Inactive
- Discount Level

CUSTOMER CHARGE:
- Customer #
- Charge #

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OnTrak™

Truck Data Management Software

SPECIFICATIONS

SYSTEM REQUIREMENTS:
- Windows® 2000/XP / VISTA
- 1.5 GHz processor or higher
- 512 (minimum) of RAM
- 100 mb hard drive (minimum)

DATABASES:
- Virtually unlimited size
- Backup and restore via SQL Server Management Studio

COMMUNICATIONS:
- Support for multiple printers
- File Transfer via comma delimited file
- Supports all Rice Lake Indicator Interfaces
- Supports VIRTUi Interface
- Optional Drivers available for non-Rice Lake Weight Indicators

TRANSACTION TICKET:
- Standard Ticket
- Optional Custom Ticket Format

REPORTS:
- Comprehensive Report Filter using any data field
- Optional Custom Reports

EXPORT DATA:
- File Transfer via comma delimited file
- Reports can be transferred electronically

TRANSACTION CALCULATIONS:
- Unlimited Product Prices & Discounts
- Tax Calculations

SOFTWARE SUPPORT:
- Database Configuration, Field Installation, & Training Available
- Phone Support Packages Available
- Contact Rice Lake for further options

PART #	DESCRIPTION	PRICE
104787	OnTrak Activation Code	$1,220.00
101062	OnTrak CD/ROM*	n/c

OnTrak trial at www.ricelake.com/ontrak

OPTIONS/ACCESSORIES

	Non-Rice Lake Indicator Interface	195.00
	Custom Reports	95.00/hour
	Database Configuration	95.00/hour
	Field Installation	1,080.00/day plus expenses
104789	Phone support 1 Hour	95.00
104790	Phone support 10 Hours	895.00
104791	Phone support 25 Hours	2,000.00
104792	Phone support 50 Hours	3,500.00
101003	OnTrak Manual	55.00

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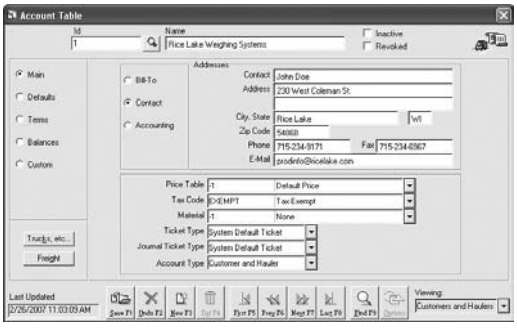
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pcANYWHERE is a registered trademark of Symantec Corporation

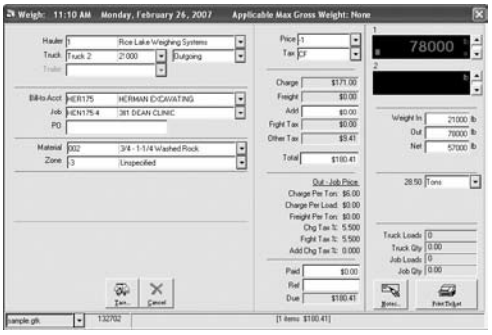
TransAct® LE/TransAct®/TransAct® Plus Truck Data Management Software



APPROVALS



Customer Account Table



Truck/Container Cash Transaction

TransAct 5.0 additional features cont.

Expanded Tax Structure

- Generate an unlimited list of Tax Authorities (examples: Federal (5%), State (.5%), City (.2%), County (.1%))
- Generate unlimited Tax Codes from the list of Tax Authorities (up to five Tax Authorities can be selected for each Tax Code (examples: Federal + State = 5.5%, Federal + State = 5.7%)
- Detailed Tax reports by each Tax Authority

Updated Accounting Features (TransAct Plus only)

- Invoice processing is separate from Statement processing
- Two invoice options available (open item, balance forward)
- Retained the Rev. 3 combined invoices/statement option (balance forward list ticket)
- Invoice and statement printing options (print summary report, print detailed report)
- Invoice and statement reprinting options (by range of invoice numbers or date) (reprint invoice, reprint summary report, reprint detailed report)

STANDARD FEATURES

TransAct LE/TransAct/TransAct Plus

- Intuitive menu-driven programs
- Ticket editing, voiding, reprinting with the Quickscan utility
- Report to screen, printer or export
- Password protection
- Easy-to-use graphic interface
- Full mouse and keyboard support
- Interfaces to ticket, tape, dot-matrix and laser printers (TransAct LE only)
- Unlimited configurable ticket formats (TransAct LE only)
- Fault-tolerant data recovery to protect from system crashes
- Bar code, magstripe and RFID interface
- Full database backup and purge functions
- Truck "Overweight" warning
- Predetermined, keyboard and automatic tare entry
- Transaction importing/exporting, for long distance transfers in non-networking applications

TransAct/TransAct Plus additional features

- Three configurable tares
- Four configurable categories
- Configurable product rates
- Multiple scale operation
- Multiple transactions per ticket
- Networkable
- Job table for contract purchases
- Full reporting by account, revenue, tonnage, material and transaction (TransAct Plus only)
- Accounts payable and receivable (TransAct Plus only)
- Prints customer invoices and statements with detailed transaction information (TransAct Plus)
- Expandable reporting features (TransAct Plus only)
- Credit weight limits (TransAct Plus only)
- Aging report showing current and extended balance 30, 60, and 90 days (TransAct Plus only)

TransAct 5.0 new features

32-Bit Application

- Faster more reliable Access 2003 database
- Fewer compatibility issues running under Windows XP and future operating systems
- Preemptive multitasking enables greater application performance
- More organized and flexible Weigh Form Stand-Alone Reporting Tool (using Crystal 9.0)
- More report types and more flexible reports
- Reports can be saved in PDF and plain text formats
- Reports can be saved as Excel spreadsheets
- Reports can be saved as comma or tab delimited separated ASCII formats
- Group Tree - Quickly navigate to a specific major sort order section
- Printer Setup button can be used to select a printer other than the default windows printer
- Check box to allow for page breaks between major groupings

Freight

- Individual or Global Hauler Account freight table
- Available Freight charge field for each Job Item - overrides the Hauler Account freight table
- Implementation of Zones and Hauler Payables

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TransAct® LE/TransAct®/TransAct® Plus Truck Data Management Software

SPECIFICATIONS

SYSTEM REQUIREMENTS:
Windows® 2000/XP
500 MHz processor
256 MB (minimum) of RAM
100 mb hard drive (minimum)

DATABASES:
Virtually unlimited with user-definable categories. Automatic journaling with automatic rebuild after crash or power interrupt.

COMMUNICATIONS:
Support for two printers with selectable drivers for most popular printers.

TRANSACTION TICKET:
Configurable weigh-in and weigh-out ticket formats, complete selection of variables and data types.

REPORTS:
Full reporting capabilities by account, vehicle, material, hauler, area, ticket, truck, container, trailer or date.
Ages report 30, 60, 90 days.

EXPORT DATA:
Reports can be exported via tab-delimited file format.
Export/Import function for transferring transaction data in non-networking applications.

TRANSACTION CALCULATIONS:
Definable product rates, charges, taxes, and customer discounts.
Configurable percentage weight reductions for moisture and dockage.

ACCOUNTING:
Full accounting capabilities
- Accounts Payable
- Accounts Receivable
- Balance/Reconciliation

SOFTWARE SUPPORT:
Rice Lake Weighing Systems offers field software support for TransAct LE/TransAct/TransAct Plus. Contact our Service Department for software support. Software support is a chargeable service.

APPROVALS:
NTEP Certified CC# 97-034A1

PART #	DESCRIPTION	PRICE
79079	TransAct LE Version 5.0	$1,350.00
43898	TransAct Version 5.0	3,100.00
98089	Addition seat TransAct 5.0 (must be purchased with original 5.0)	1,250.00
43899	TransAct Plus Version 5.0	6,600.00
98090	Addition seat TransAct Plus 5.0 (must be purchased with original 5.0)	2,500.00
44436	TransAct/TransAct Plus demo*	10.00
79078	TransAct LE demo*	25.00

* TransAct demos can be downloaded from our Web site at www.ricelake.com

OPTIONS/ACCESSORIES

15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable	55.00

Interfaces to: UMC444, UMC555, UMC600, IQ 700, IQ plus® 310A, 355, 390-DC, 510, 590-DC, 710, 800, 810, 520 and 920i

42745	pcANYWHERE® for Windows®, host and remote version	295.00
50270	Additional operating manual	25.00
98091	Upgrade from TransAct LE to TransAct 5.0	2,495.00
98092	Upgrade from TransAct LE to TransAct Plus 5.0	5,495.00
98093	Upgrade from TransAct to TransAct Plus 5.0	3,000.00
98098	Quickbooks® interface for TransAct 5.0	2,500.00
98099	Quickbooks® interface for TransAct Plus 5.0	1,750.00
98101	Peachtree® interface for TransAct 5.0	2,500.00
98102	Peachtree® interface for TransAct Plus 5.0	1,750.00
98103	Two hours configuration installation and training service	280.00
98104	Four hours configuration installation and training service	560.00
98105	Eight hours configuration installation and training service	1,120.00

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Kiosk Safety Swing-Away Arm

Self Centering Kiosk Mount

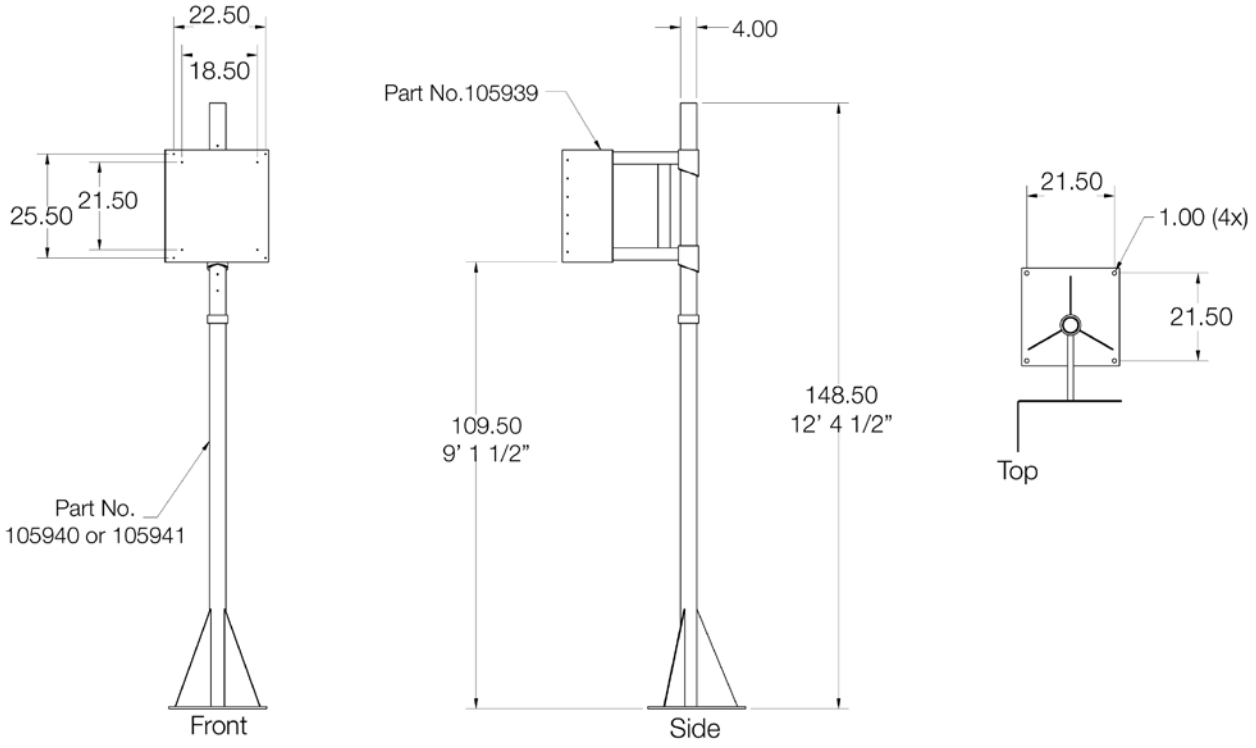


STANDARD FEATURES

- Protects all kiosks from truck mirrors, fenders and cabs
- Swings away freely and returns to center position
- Universal mount accommodates a wide variety of kiosks
- Includes mounting pole and base stand

Finally, a solution to mounting kiosk enclosures next to truck scales. The universal Swing-Away Kiosk mounting assembly from Rice Lake takes the worry out of correctly positioning kiosks in vehicle scale applications. The swing-away arm provides protection from trucks that pull up too close to the kiosk, then returns to center after impact automatically

PART #	DESCRIPTION	PRICE
105939	Weldment, Swing Arm, Kiosk	$795.00
105940	Pole Weldment, 12 ft supported/free standing 4.5 in o.d.	695.00
105941	Pole Weldment, 10 ft supported/free standing, 4.5 in o.d.	695.00
109163	Complete kit for above ground scale	1,395.00
109164	Complete kit for pit type scale	1,395.00



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Loop Detectors



Vehicle Loop Detector



EMX Lite Preformed Loops™

STANDARD FEATURES

Vehicle Loop Detector

- Loop diagnostics
- Loop isolation transformer
- Loop conditioner
- Aluminum RF shield housing
- Surge protection
- Loop frequency counter
- 10 gold plated sensitivity controls
- Eight gold plated function controls
- Six gold plated controls for frequency, reset & frequency counter
- Two high intensity LED indicators
- Two relays - relay 2 is pulse or presence

EMX Lite Preformed Loops

- Rugged and flexible TPE tubing
- Electronic lightning protection of vehicle detectors
- Comes standard with 50ft of twisted and jacketed lead-in wire
- Vehicle detection loop is constructed of stranded wire conductors with thermoplastic elastomer insulation jacketing
- Outer shell is flexible nonmetallic 0.26in tubing

SPECIFICATIONS

VEHICLE LOOP DETECTOR

POWER:
The detector is available in the following voltages: 12VAC/DC, 24VAC, 24VDC, 110VAC, 220VAC. Maximum current draw 100mA

LOW POWER:
Detector is available with maximum current draw of 60mA

TEMPERATURE:
-40F to 180F

ENCLOSURE:
Extruded anodized aluminum, 3.25in H x 2.56in W x 3.65in D (83mm H x 40mm W x 90mm D)

OUTPUT RELAYS:
5A/125VAC standard version, 1A/125VAC low current version

CONNECTOR:
86CP11 compatible with 11pin Octal DIN rail mountable socket or wire harness

EMX LITE PREFORMED LOOPS

OPERATING TEMPERATURE:
-60ºF to 260ºF

OVERALL DIAMETER OF LOOP WIRE:
0.26in

LOOP DIMENSIONS:
4ft x 6ft thru 4ft x 12ft standard, custom sizes available ft

LEAD-IN-WIRE:
50ft long, twisted wire in PVC jacket

LOOP WIRE APPROVALS:
UL subject 13, Type PLTC 300V, 90C passes IEEE-328,210,000, BTU Flame Test Pennsylvania, Bureau of Deep Mine Safety, Approval P-MWMS-1-85

PART #	DESCRIPTION	PRICE
86601	4ft x 8ft - 3ft range	$595.00
86759	4ft x 10ft - 4ft range	595.00

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RFID

LR-6 Reader



STANDARD FEATURES

- Frequency hopping (FHSS)
- User-programmable with TagMaster SDK including TCP/IP communication and SQL database support
- Accurate real-time clock (RTC)
- Ethernet, RS-232, RS-485 and Weigand/Mag-stripe interfaces
- General purpose inputs and outputs I/O ports
- Weather proof IP65 enclosure
- User-selectable radio channels ensuring smooth operation in multiple reader installations
- Extremely low RF power output, CE & FCC approved – no site licence required
- Flexible supply voltage (10 to 30 VDC)

SPECIFICATIONS

OPERATING FREQUENCY:
CW: 2.435 to 2.465 GHz, FHSS: 2.400 to 2.483.5 GHz

READING RANGE:
up to 20 ft (6 m)

WRITING RANGE:
up to 1.6 ft (0.5 m)

DIMENSIONS:
11 in x 7 in x 2 in (290 x 165 x 56 mm)

POWER SUPPLY:
10 to 30 VDC

POWER CONSUMPTION:
5 W (max 15 W)

MEMORY: FLASH/RAM:
16 MB/ 32 MB

OPERATING TEMPERATURE:
-4ºF (-20ºC) to +140ºF (+60ºC)

ENCAPSULATION:
IP65

MOUNTING:
Standard M4, Recommended mounting using the Universal Mounting Kit

CERTIFICATIONS:
-CE Certificate according to R&TTE-Directive 1999/5/EC, FCC M39LRXX

SOFTWARE:
WiseMan, WatchMan, PassMan (ordered separately)

PART #	DESCRIPTION	PRICE
100021	LR-6 mounting bracket	$285.00
100018	LR-6 Tagmaster Reader	4,295.00

RFID

S1251 ScripTag



STANDARD FEATURES

- Read / write
- Predictable lifetime of 6+10 years - depending on configuration
- Small size
- Fast reading - no wake-up time
- Easy to mount with WinFix
- Unique identity, cannot be changed or copied
- Stores 606 bits, 82 7-bit ASC11 characters
- ID checksum is 32 bit for elimination of substitution errors
- License-free worldwide

SPECIFICATIONS

OPERATING FREQUENCY:
2.45 GHz

READING RANGE:
Example: up to 20 ft with LR-6 reader

DIMENSIONS:
3 in x 2 in x 0.12 in (86 x 54 x 3 mm)

WEIGHT:
0.03 lb (15 g)

COVER CASE:
Polymer

COLOR:
Light grey

BATTERY LIFETIME:
6-10 years

OPERATING TEMPERATURE:
-4ºF (-20ºC) to +185ºF (+85ºC)

ENCAPSULATION:
IP67

CERTIFICATIONS:
CE Certificate according to R&TTE-Directive 1999/5/EC, Annex IV, Health: 1999/519/EC, El. Safety: EN 60950, EMC: EN 301489-3:2000, Radio: EN 300 440:2001

MEMORY SIZE:
574 bits and 32 bit checksum

PART #	DESCRIPTION	PRICE
100024	ScripTag R/W	$40.00
100025	ScripTag HD R/W	65.00

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RFID

S1255 MarkTag



STANDARD FEATURES

- Read only
- Predictable lifetime of six years
- Small size
- Fast reading - no wake-up time
- Easy to mount with WinFix
- Unique identity, cannot be changed or copied
- ID checksum is 32 bit for elimination of substitution errors
- License-free worldwide

SPECIFICATIONS

OPERATING FREQUENCY:
2.45 GHz

READING RANGE:
Example: up to 20 ft with LR-6 reader

DIMENSIONS:
3 in x 2 in x 0.12 in (86 x 54 x 3 mm)

WEIGHT:
0.03 lb (15 g)

COVER CASE:
Polymer

COLOR:
Light grey

BATTERY LIFETIME:
6 years

OPERATING TEMPERATURE:
-4ºF (-20ºC) to +185ºF (+85ºC)

ENCAPSULATION:
IP67

CERTIFICATIONS:
CE Certificate according to R&TTE-Directive 1999/5/EC, Annex IV, Health: 1999/519/EC, El. Safety: EN 60950, EMC: EN 301489-3:2000, Radio: EN 300 440:2001

PART #	DESCRIPTION	PRICE
100022	MarkTAG	$30.00
100023	MarkTAG HD	45.00

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RFID

Amtech AI1620 SmartPass® Reader



STANDARD FEATURES

- Fully self-contained, integrated reader
- Ideal for parking and access control applications, truck scales
- 915MHz RF band operation
- Compatibility with a wide range of industry-standard formats
- Weatherproof enclosure
- Quick, simple installation by trained, authorized personnel
- Programmable RF power
- Half frame and full frame capability

SPECIFICATIONS

FREQUENCY RANGE:
902 to 928 MHz

RF CONTROL:
By sense output or host command

POLARIZATION:
Linear, horizontal

READ RANGE:
Read performance varies depending on tag and reader configuration and environment. Read range for all the AI1620 SmartPass Reader is 12 ft (3.7 m) typical to 17 ft (3.7 m) maximum

I/O CONTROL:
Input: Two independent dry contact closures for sense circuits
Output: Two independent Form-C contacts

DIMENSIONS:
15.5 in x 15.5 in x 3.25
(39.4 x 39.4 x 8.25 cm)

WEIGHT:
9.5 lb (4.3 kg)

MOUNTING SURFACE:
Mount to pole or wall, indoor or outdoor

ENCLOSURE:
Tamper-proof, poly carbonate housing

OPERATING TEMPERATURE:
-40°F to 131°F (-40°C to 55°C)

HUMIDITY:
100% condensing

VIBRATION:
0.5 Grms, 10 to 500 Hz

INPUT POWER:
16 - 20 VAC, 47 - 63 Hz, or
16 - 28 VDC

PART #	DESCRIPTION	PRICE
108201	SmartPass 4 reader	$6,395.00

TRANSCORE is a registered trademark of TC IP, Ltd, and is used under license

RFID

Amtech AT5114 Transportation Tag Half Frame with Battery



STANDARD FEATURES

- Dual-frequency
- Harsh-environment durability
- Factory-programmed, 60-bit storage
- Wiegand programming available
- Powered by lithium battery
- 10-year average service life
- Reliable, long-range performance

SPECIFICATIONS

FREQUENCY RANGE:
902 to 928 MHz
2400 to 2450 MHz

TYPICAL WORKING RANGE:
Reader: with AR2200 RF Module/AI1620
5 ft to 35 ft (1.5 to 11 m)
Reader: with AR2602 RF Module/AI1611
5 ft to 10 ft (1.5 to 3 m)

POLARIZATION:
Parallel with longer side

DATA CAPACITY:
10 alphanumeric characters (60 available bits)

POWER SOURCE:
Lithium battery

DIMENSIONS:
9.3 in x 2.38 in x 0.69 in
(23.6 x 6.0 x 1.75 cm)

WEIGHT:
6 oz (170 g)

CASE MATERIAL:
Weatherproof, poly carbonate, UV-stabilized case that is sealed after programming

MOUNTING SURFACE:
Metallic

MOUNTING METHOD:
Mount to any flat smooth metal surface suing bolts, screws, or blind rivets

OPERATING TEMPERATURE:
-40°F to 185°F (-40°C to 85°C)

PART #	DESCRIPTION	PRICE
86400	AT5114 transportation tag 1/2 frame w/ battery	$75.00

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RFID

Amtech AT5112 Transportation Half Frame Body Tag



STANDARD FEATURES

- Harsh-environment durability
- Factory-programmed, 60-bit storage
- Wiegand programming available
- Beam-powered for unlimited service life
- Long range

SPECIFICATIONS

FREQUENCY RANGE:
902 to 928 MHz

TYPICAL WORKING RANGE:
5 ft to 10 ft (1.5 to 3 m)

POLARIZATION:
Parallel with longer side

DATA CAPACITY:
Up to 10 alphanumeric characters (60 available bits) or Wiegand 26- to 54-bit formats

POWER SOURCE:
Beam-powered

DIMENSIONS:
9.3 in x 2.38 in x 0.69 in (23.6 x 6.0 x 1.75 cm)

WEIGHT:
5.7 oz (160 g)

SERVICE LIFE:
Unlimited

CASE MATERIAL:
Weatherproof, poly carbonate alloy, UV stabilized

MOUNTING SURFACE:
Any smooth surface. If the mounting surface is nonmetallic or irregular, the AT5112 Transportation Tag may be mounted to a metal backplate attached to the surface of the vehicle or object to be tagged.

MOUNTING METHOD:
Fastener Mounting: The AT5112 Transportation Tag may be mounted directly to any smooth metal surface using bolts, screws, or blind rivets.

Tape Mounting: For certain applications where the integrity of the mounting surface cannot be compromised, the AT5112 Transportation Tag may be mounted using double-sided tape.

OPERATING TEMPERATURE:
-40°F to 185°F (-40°C to 85°C)

PART #	DESCRIPTION	PRICE
86399	AT5112 transportation 1/2 frame body tag	$60.00

RFID

Amtech AT5102 Transportation Window Tag with Battery



STANDARD FEATURES

- Factory-programmed, 60-bit storage
- Wiegand programming available
- Beam-powered for unlimited service life

SPECIFICATIONS

FREQUENCY RANGE:
902 to 928 MHz

TYPICAL WORKING RANGE:
5 ft to 10 ft (1.5 to 3 m)
Range depends upon system parameters

POLARIZATION:
Parallel with longer side

DATA CAPACITY:
Up to 10 alphanumeric characters (60 available bits) or Wiegand 26- to 54-bit formats

POWER SOURCE:
Beam-powered

SERVICE LIFE:
Unlimited

DIMENSIONS:
3.6 in x 2.3 in x .27 in (9.2 x 5.9 x .69 cm)

WEIGHT:
1.4 oz (40 g)

CASE MATERIAL:
Dust proof, poly carbonate alloy

MOUNTING SURFACE:
Nonmetallic

MOUNTING METHOD:
Adhesive-backed hook-and-loop material or double-sided tape attached to the tag and to the inside surface of the vehicle windshield.

MOUNTING LOCATION:
Vehicle interior

OPERATING TEMPERATURE:
-40°F to 185°F (-40°C to 85°C)

PART #	DESCRIPTION	PRICE
86397	AT5102 transportation window tag (must order in quantities of 50)	$45.00
86398	AT5105 transportation window tag w/ battery	59.00

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RFID

HID RFID Cards, Keys, and Tags



STANDARD FEATURES

- Offer sufficient read/write memory to store multiple biometric templates
- Available in a two or 16 application area configuration
- Offer multiple, securely separated areas to enable numerous applications, including the HID standard access control application
- Future growth for new read/write applications
- ISO 15693 and 14443B2 standards for read/write contactless communication
- Cost-effective way to enhance the security of your access control installation
- Close range

RFID

HID RFID Readers



STANDARD FEATURES

- More powerful and versatile access control
- User-friendly proximity technology
- Uses the 13.56 MHz technology platform
- High-intensity, three color light bar provides clear, visual feedback even in direct sunlight
- Selectable, distinct tone sequences indicate status conditions
- All RF data transmission between the card and reader is encrypted using a secure algorithm
- Close range

SPECIFICATIONS

TYPICAL MAXIMUM READ RANGE*:
2.5-4.5 in (6.3-11.4 cm) with HID iCLASS Card
1.0 in (2.5 cm) with HID iCLASS Key
1.0 in (2.5 cm) with HID iCLASS Tag
1.5-2.0 in (3.8-5.0 cm) with HID iCLASS Prox
1-2 in (2.5-5.0 cm) with MIFARE® Card (serial number only)
*Using ISO 15693 mode (except MIFARE®). Dependent upon installation conditions. Please note that all iCLASS credentials are available in either a 2Kbits (256Bytes) or 16Kbits (2KBytes) configuration.

DIMENSIONS:
3.30 in x 4.80 in x .85 in
(8.38 cm x 12.19 cm x 2.16 cm)

MATERIAL:
UL94 Poly carbonate

POWER SUPPLY:
10 - 16 VDC reverse voltage protected
Linear supply recommended

CURRENT REQUIREMENTS (AVG/PEAK):
80/260 mA at 12 VDC

OPERATING TEMPERATURE:
-31ºF to 150ºF (-35ºC to 65ºC)

OPERATING HUMIDITY:
5-95% relative humidity non-condensing

WEIGHT:
8.8 oz (249.5 g)

TRANSMIT FREQUENCY:
13.56 MHz

CABLE DISTANCE:
Wiegand Interface - 500 feet (150 m)
Recommended cable is ALPHA 1295 (22AWG) 5-conductor stranded with overall shield or equivalent. Additional conductors may be required to connect all outputs.

PENDING CERTIFICATIONS:
Taiwan, Singapore, Germany VdS

APPROVALS:
UL 294/cUL, FCC Certification, Canada Certification, CE Mark (Europe), New Zealand, Australia c-Tick

PART #	DESCRIPTION	PRICE
85901	Class RW400 Reader	$495.00
88792	Power supply, IDEC 12VDC output, 85 VAC input, required for 85901 above	125.00
85902	iClass Smart Card Pack 1-25 13.56 MHz	145.00
85903	iClass Smart Card Pack 26-50 13.56 MHz	145.00
85904	iClass Smart Card Pack 51-75 13.56 MHz	145.00
85905	iClass Smart Card Pack 76-100 13.56 MHz	145.00

Keyfob and disc tags optional — consult factory.

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Model G-89 Barrier Gate



STANDARD FEATURES

- Uses 1 in x 4 in soft pine wood
- Heavy duty aluminum construction with weather-proof gasketed door
- Built-in diagnostics
- Event history with differential counters
- True directional arming
- Up to three loop detector inputs
- Programmable time zone control of basic gate functions like override, raise/lower, enable/disable
- 1/3 HP, 115 VAC motor
- Sensitive reversing logic
- Internal heater

PART #	PRICE
82506	$6,995.00

Traffic Light Kits



STANDARD FEATURES

- Tested to more than 80 mph wind loading on a single-point attachment
- Corrosion-resistant aluminum alloy coatings
- Stainless steel hardware

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
23146	Traffic light kit, 8 in, 60 W, mounting hardware that mounts to a 4 in pipe, 115 VAC	25 lb	$495.00
85789	Aluminum pole with base, 8 ft	70 lb	695.00
87111	Side mount brackets	10 lb	165.00
84504	Anchor bolt with nut washer		6.00
23145	Replacement light bulb		10.00

Photo Eyes



STANDARD FEATURES

- Many varieties available for both truck scale and dynamic weighing applications
- Arrange photo eyes to keep wheels on scale
- Rugged outdoor applications
- Reflective types work up to 17 ft (2.13 m) in clean conditions
- Transmitter / receiver types work up to 100 ft (30.48 m) in clean conditions
- Quick disconnects for easy replacement
- Broken beams can signal a wheel off the scale or prevent a weighment in unattended systems

PART #	DESCRIPTION	PRICE
78975	Allen-Bradley® photo eye retro-reflective sensor	$245.00
78976	Photo eye reflector, 3 in diameter	20.00
78977	Quick disconnect photo eye cable, 12 ft, 5 pin mini connector	95.00

Allen-Bradley is a registered trademark of Rockwell Automation, Inc.



STANDARD FEATURES

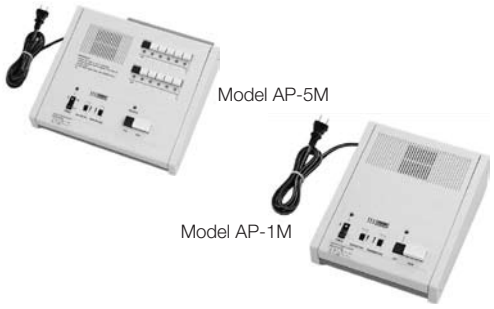
- *Rugged outdoor applications*
- *Quick disconnects for easy replacement*

PART #	DESCRIPTION	PRICE
103013	Photo switch receiver	$225.00
103014	Photo switch transmitter	175.00
103015	Photo switch quick connector receiver	100.00
103016	Photo switch quick connector transmitter	75.00

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INTERCOM AI PHONE

AP-1M/AP-5M BASE STATION



STANDARD FEATURES

- Expanded master with high-powered 10W output for high noise areas
- One or two masters can be included
- Hands free reply from remote area
- AP-1M or AP-5M master stations available, desk or wall mount
- Use 8 ohm horn speaker for maximum output, or wall or ceiling speaker sub stations
- Subs call master with LED and electronic tone
- Built-in power supply
- Special master units available for expanded capacity - up to 5 stations

SPECIFICATIONS

POWER SOURCE:
110 - 125 VAC, 50.60 Hz
communication sub calls in with tone and LED, Talk/Listen switch

COMMUNICATION:
10 W, output

WIRING:
Doors/subs/horns to master: 2-cond., overall shield

DISTANCE:
Doors/subs/horns to master: 490 ft (22 AWG)
1,200 ft (18 AWG)

WIRE TYPE:
Aiphone #822202 or Aiphone #821802

LE-SSR SUB STATION



Requires capacitor kit #107607

STANDARD FEATURES

- Moisture and puncture resistant speaker
- Three layer steel baffle protects speaker from tampering
- Hands free communication
- Unit fits standard 2-gang electrical box
- Pigtail wires for connection to master station
- Weather and vandal resistant

SPECIFICATIONS

SPEAKER:
20 Ω, 2 1/2 in diameter

WIRING:
Shielded cable is recommended

WIRING DISTANCE:
650' with 22 awg
1600' with 18 awg

COMMUNICATION:
Hands free at substation, master is push-to-talk, release-to-listen

DIMENSIONS:
4-11/16 in H x 4-11/16 in W x 2 in D

MOUNTING:
Flush mount into 2-gang box or flush mount in kiosk

AH-16TN SPEAKER/HORN



Requires capacitor kit #107607

STANDARD FEATURES

- Built-in 70V transformer, providing 1, 2, 4, 8 and 16 Watt taps, + 8 ohms direct
- High intelligibility, used for paging into large or high noise areas
- All metal weather proof construction designed for outdoor use
- Screwdriver selectable wattage taps
- Universal locking swivel mount

SPECIFICATIONS

POWER HANDLING CAPACITY:
16 Watts (continuous)

IMPEDANCE:
8 ohms direct, 25 V or 70.7 V transformer

WATTAGE TAPS:
70.7 V: 1, 2, 4, 8 and 16 W
25 V: 0.5, 1, 2, 4 or 8 W

FREQUENCY RESPONSE:
325 - 15,000 Hz

DISPERSION ANGLE:
130°

SOUND PRESSURE LEVEL:
119 dB at rated output measured 4 ft on axis

SENSITIVITY AS MICROPHONE:
-28 dBM (Re: 10 dynes/cm^2)

DIMENSIONS:
8 1/8 in bell x 9 in depth

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INTERCOM AI PHONE

PART#	DESCRIPTION	PRICE
107601	Base station, 1 channel	$995.00
107603	Base station, 5 channel	1,595.00
107604	Speaker/horn 8 ohm 119 dB, AH-16TN, requires capacitor kit 107607	125.00
107606	Sub station, LE-SS, requires capacitor kit 107607	395.00
107607	Kit, capacitor 25 uF, 25 V	12.00

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Notes

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AVIATION

Tracer® AV

Baggage Weighing Instrumentation **A-2**

Tracer® AV

Baggage Weighing Instrumentation



Ideal for Aviation Weighing. A complete system can be sold with the Benchmark LP or Benchmark HD.

STANDARD FEATURES

- Customer display (panel mount), supports two RD-1 displays
- Ticket agent keypad
- Flashes display for overweight bags

Tracer AV combines a sleek two-button keypad, to select pounds or kilograms and re-zero, with the most durable stainless steel bagwell display. The simple-to-install bagwell display has large, bright LED characters and the rugged piezo keypad will endure years of busy check-in counter use.

Tracer AV components consist of an Analog to Digital converter box, bagwell display(s) and 2-button keypad(s).

APPROVALS

SPECIFICATIONS

OPERATOR KEY PAD:
Stainless steel, panel mounted, 2-keys - zero and units

CUSTOMER INTERFACE:
Stainless steel, panel mounted, 6-digit LED display, 0.8 in digits

ENCLOSURE:
Bagwell display 7.5 x 4.0 x 0.9 in
A/D converter box 10 x 5 x 2 in

VOLTAGE INPUT:
115/230 VAC to power supply
50-60 Hz

SERIAL COMMUNICATIONS:
RS-232 full duplex to host, up to 38.4 kbps, data 7 odd, 7 even, 8 none

REMOTE DISPLAY PORTS:
19.2 kbps, data 8 none

LOAD CELL EXCITATION:
5 VDC

ANALOG RANGE:
-0.5 mV/V to +4.5 mV/V

A/D SAMPLE RATE:
Up to 60 per second

TEMPERATURE RANGE:
14°F to104°F (-10°C to 40°C)

APPROVALS:
NTEP Certified 04-07645, Class III
CUL Marked

WARRANTY:
Two-year limited warranty

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
98526	Tracer AV with single display, single keypad		$1,225.00
98527	Tracer AV with dual display, single keypad		1,575.00
98528	Tracer AV with dual display, dual keypad		1,675.00

OPTIONS/ACCESSORIES

93558	Customer display	425.00
98316	Installation manual	25.00

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NEW TC Series

Tuning Fork Compact Balance

Capacity: 620g-6200g Readability: 0.01g-0.1g



STANDARD FEATURES

- Large 16.5mm high Liquid Crystal Display (LCD)
- Selectable modes: weight, unit count and percentage
- 12 units of measurement
- Mono-Metal Tuning Fork Sensor (MMTS) provides quick response and stability
- 20-step bar graph display
- 115VAC adaptor included (230VAC optional)
- Semi-automatic calibration, external weight

Optional Features

- RS-232
- Rechargeable battery

SPECIFICATIONS

	TC-620	TC-1200	TC-4200	TC-6200
Part Number	**107232**	**107233**	**107234**	**107235**
List Price	**$695.00**	**$635.00**	**$695.00**	**$750.00**
Capacity (g)	620	1200	4200	6200
Resolution (g)	0.01	0.1	0.1	0.1
UNIT OF MEASURE: Decimal ounce (oz)	21 X 0.0005	42 X 0.005	140 X 0.005	210 X 0.005
Decimal pound (lb)	1.3 X 0.00005	2.6 X 0.0005	9.2 X 0.0005	13 X 0.0005
Troy ounce (ozt)	19 X 0.0005	38 X 0.005	130 X 0.005	190 X 0.005
Pennyweight (dwt)	390 X 0.01	770 X 0.1	2700 X 0.1	3900 X 0.1
Carat (ct)	3100 X 0.05	6000 X 0.5	21000 X 0.5	31000 X 0.5
Momme (mm)	160 X 0.005	320 X 0.05	1100 X 0.05	1600 X 0.05
Grain Unit (GN)	9500 X 0.2	18000 X 2	64000 X 2	95000 X 2
ti (Hong Kong)	16 x 0.0005	32 x 0.005	110 x 0.005	160 x 0.005
ti (Singapore, Malaysia, Taiwan)	16 x 0.0005	31 x 0.005	110 x 0.005	160 x 0.005
to	53 x 0.001	100 x 0.01	360 x 0.01	530 x 0.01
Operating Modes	Count, Percentage, Limit Function (checkweighing)			
Repeatability	1 division			
Linearity	1 division			
Operating Temperature	5 to 35 deg C (41 to 95 deg F)			
Pan size	5.5 in	6.7 x 5.6in	7 x 6.2in	
Dimensions	9.2 x 7.1 x 2.9in (234 x 180 x 74mm)	10.4 x 7.5 x 3.4in (264 x 191 x 86mm)		
Weight (Approx.)	2.9lb (1.3kg)		5.9 lb (2.7kg)	
Calibration Weight (g)	600	1200	4000	6200
Power	120VAC adapter			
Warranty	Five-year limited warranty			

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TC Series

Tuning Fork Compact Balance

Options/Accessories

PART #	DESCRIPTION	PRICE
107236	Rechargeable battery - TC-620, TC-1200, 32 hr	$100.00
107237	Rechargeable battery - TC-4200, TC-6200, 32 hr	100.00
107238	RS-232 option with DIN - 5 Pin connector (not compatible with battery option) (TC-620, TC-1200)	125.00
107239	RS-232 option with DIN - 5 Pin connection (not compatible with battery option, (TC-4200,TC-6200)	125.00
107240	In-use dust cover, 220g to 1200g	25.00
107250	In-use dust cover, 2200g to 12kg	25.00
109236	Underweigh hook TC-620, TC-1200	25.00
109292	Underweigh hook TC-4200, TC-6200	25.00
42566	115VAC adapter	47.00
42168	230VAC adapter	70.00
107243	Additional operating manual	15.00
75351	WinWedge software	325.00
N/A	5 Pin to 9 Pin RS-232 cable	Consult

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NEW TP Series

Tuning Fork Precision Balance

Capacity: 220g-12,000g Readability: 0.001g-0.1g



STANDARD FEATURES

- Semi-automatic calibration
- Large 16.5mm high Liquid Crystal Display (LCD)
- Selectable modes-weight: unit count and percentage
- 12 units of measurement
- Mono-Metal Tuning Fork Sensor (MMTS) provides quick response and stability
- 20-step bar graph display
- 115VAC adaptor included (230VAC optional)
- One part in 620,000 resolution
- RS-232 bidirectional

Optional Features

- Rechargeable battery
- NTEP models

SPECIFICATIONS

		TP-220^	TP-420N^	TP-820	TP-3200	TP-4200N	TP-8200	TP-12K
	Part Number	**107244**		**107245**	**107246**		**107247**	**107248**
	List Price	**$995.00**		**$990.00**	**$1,120.00**		**$995.00**	**$1,145.00**
NTEP		-	**108155**	-	-	**108154**	-	-
NTEP		-	**$1,095.00**	-	-	**$1,095.00**	-	-
	Capacity (g)	220	420	820	3200	4200	8200	12000
	Resolution (g)	0.001	0.01	0.01	0.01	0.1	0.1	0.1
UNIT OF MEASURE	Decimal ounce (oz)	7.7 X 0.00005	14 X 0.001	28 X 0.0005	110. X 0.0005	140 x 0.01	280 X 0.005	420 X 0.005
UNIT OF MEASURE	Decimal pound (lb)	0.48 x 0.00001	0.92 x 0.00001	1.8 x 0.00005	7.0 x 0.00005	9.2 x 0.0001	18 x 0.0005	26 x 0.0005
UNIT OF MEASURE	Troy ounce (ozt)	7 x 0.00005	16 x 0.0001	26 x 0.0005	100 x 0.0005	130 x 0.001	260 x 0.005	380 x 0.005
UNIT OF MEASURE	Pennyweight (dwt)	140 x 0.001	270 x 0.001	520 x 0.01	2000 x 0.01	2700 x 0.01	5200 x 0.1	7700 x 0.1
UNIT OF MEASURE	Carat (ct)	1100 x 0.01	2100 x 0.01	4100 x 0.05	160000 x 0.05	21000 x 0.1	41000 x 0.5	60000 x 0.5
UNIT OF MEASURE	Momme (mm)	58 x 0.0005	110 x 0.001	210 x 0.005	850 x 0.01	1100 x 0.01	2100 x .05	3200 x 0.05
UNIT OF MEASURE	Grain Unit (GN)	3300 x 0.02	6400 x 0.02	12000 x 0.2	48000 x 0.2	64000 x 0.2	120000 x 2	180000 x 2
UNIT OF MEASURE	ti	5.8 x 0.00005	11 x 0.0001	21 x 0.0005	85 x 0.001	110 x 0.001	210 x 0.005	320 x 0.005
UNIT OF MEASURE	to	18 x 0.0001	36 x 0.0001	70 x 0.001	270 x 0.001	360 x 0.001	700 x 0.01	1000 x 0.01
	Operating Modes	Counting, Percentage, Limit Function (checkweighing)						
	Repeatability	1 division						
	Linearity	1 division						
	Operating Temperature	5 to 35 deg C (41 to 95 deg F)						
	Pan size	4.6in		6.6 x 5.5in	7 x 6.2in			
	Dimensions	235 x 182 x 170mm (including windshield) (9.2 x 7.1 x 6.6in)		235 x 182 x 75mm (9.2 x 7.1 x 2.9in)	265 x 192 x 87mm (10.1 x 7.5 x 3.4 in)			
	RS232 Specifications	Baud rate - 1200/2400/2800/9600; Data bits - 8, Connector - DIN 5pin						
	Est. Ship Weight	1.3kg (2.9lb)			2.8kg (6.2lb)			
	Calibration Weight (g)	200	400	800	3000	4000	8000	12000
	Power	120VAC adapter						
	Battery Option	Nickel Cadmium battery, 32-hour run time, 12 hour charge time						
	Approvals		NTEP C-09-002, Class II			CC No 09-002, Class II		
	Warranty	Five years limited warranty						

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TP Series

Tuning Fork Precision Balance

Options/Accessories

PART #	DESCRIPTION	PRICE
107249	Rechargeable battery - TP-220, TP-820	$100.00
107237	Rechargeable battery - TP-3200, TP-8200, TP-12 k	100.00
107250	In-use dust cover, 2200 g to 12 kg	25.00
107240	In-use dust cover, 220 g to 1200g	25.00
42566	115 VAC adapter	47.00
42168	230 VAC adapter	70.00
107251	Additional operating manual	15.00
75351	WinWedge Tal Software	325.00
N/A	5 Pin - 9 Pin RS232 cable	Consult
109236	Underweigh hook, TP-220, TP-820	25.00
109292	Underweigh hook, TP-3200 - TP-12k	25.00

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NEW TS Series

Tuning Fork Stainless Steel Balance

Capacity: 620g-8200g Readability: 0.01g-0.1g



STANDARD FEATURES

- Stainless Steel, IP65
- Large 18 mm Liquid Crystal Display (LCD) with backlight
- Selectable modes
- 13 units of measurement
- MMTS (Mono-Metal Tuning Fork Sensor) provides quick response and stability
- IP65
- 115 VAC adaptor included (230 VAC optional)
- Semi-automatic calibration, external weight
- RS-232 bidirectional

Optional Features

- Battery

SPECIFICATIONS

	TS-620	TS-6200	TS-8200
Part Number	**108156**	**108157**	**112182**
List Price	**$1295.00**	**$1395.00**	**$1465.00**
Capacity (g)	620	6200	8200
Resolution (g)	0.01	0.1	0.1
UNIT OF MEASURE: Decimal ounce (oz)	21 X 0.0005	210 X 0.005	280 X 0.005
Decimal pound (lb)	1.3 X 0.00005	13 x 0.0005	18 x 0.0005
Troy ounce (ozt)	19 x 0.0005	190 x 0.005	260 x 0.005
Pennyweight (dwt)	390 x 0.01	3900 x 0.1	5200 x 0.1
Carat (ct)	3100 x 0.05	31000 x 0.5	41000 x 0.5
Momme (mm)	160 x 0.005	1600 x 0.05	2100 x 0.05
Grain Unit (GN)	9500 x 0.2	95000 x 2	120000 x 2
Operating Modes	Counting, Percentage, Limit Function (Checkweighing), Weighing multiplied by coefficient, specific gravity, animal weighing, adding multiple measurements		
Repeatability	1 division		
Linearity	1 division		
Operating Temperature	0 to 40 deg C. 80% RH or less		
Pan size	140mm	190 x 190 mm	
RS-232 Specifications	Baud rate - 1200/2400/4800/9600/19200, Data bits 8/7; Connector - 9 pin D-Sub M (not IP65 unless using PN 109238 cable)		
Dimensions	310 x 208 x 87mm (12.2 x 8.2 x 3.4 in)		
Weight (Approx.)	4.5kg (10lb)		
Calibration Weight (g)	600	6000	8000
Power	120VAC adapter		
Battery Option	Field installable, uses 4AA dry cell batteries		
Warranty	Five-year limited warranty		

Options/Accessories

PART #	DESCRIPTION	PRICE
108498	AC adapter, 6 VDC/120 VAC	$47.00
108499	AC adapter, 6 VDC/230 VAC	70.00
72440	9 Pin D-Sub F - 25 Pin D-Sub connector	55.00
109236	Under weigh hook	25.00
109238	Waterproof RS-232 cable	350.00
109050	Operating manual	15.00
112611	Battery operator manual	5.00
112516	Battery option	100.00

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NEW TA Series

Tuning Fork Analytical Balance

Capacity: 120g-220g Readability: 0.0001g



STANDARD FEATURES

- Anti-electrostatic 360° transparent windshield
- Large back-lit 16.5 mm high Liquid Crystal Display (LCD) displays 8 digits
- Single-touch response setting for environment
- 40-step bar graph display
- RS-232C interface
- ISO/GLP/BMP compliant printing
- Tuning Fork design
- Internal Calibration
- ISO/GLP/GMP compliant printing record
- Underweigh hook included

SPECIFICATIONS

	TA-120^	TA-220^
Part Number	**107396**	**107397**
List Price	**$1,905.00**	**$1,945.00**
Capacity (g)	120	220
Resolution (g)	0.0001	0.0001
UNIT OF MEASURE: Decimal ounce (oz)	4.2 X 0.000005	7.7 X 0.000005
Decimal pound (lb)	0.26 X 0.000001	.48 X 0.000001
Troy ounce (ozt)	3.8 X 0.000005	7 X 0.000005
Pennyweight (dwt)	77 X 0.0001	140 X 0.0001
Carat (ct)	600 X 0.0005	1100 X 0.001
Momme (mm)	32 X 0.00005	58 X 0.00005
Grain Unit (GN)	1800 X 0.002	3300 X 0.002
TI	3.2 X 0.000005	5.8 X 0.00005
Momme (mm)	32 x 0.00005	58 x 0.00005
Tola (to)	10 x 0.00001	18 x 0.00001
Operating Modes	Counting, Percentage, Limit Function (checkweighing), Specific gravity,	
Repeatability	1 division	
Linearity	1 division	
Operating Temperature	10 to 30 deg C, 50 to 86 deg F, 80% RH or lower	
RS232 Specifications	Baud rate - 1200/2400/4800/9600/19200 bps, 8/7 data bits, Parity bit-None/Odd/Even	
Pan size	80 mm	
Dimensions	290 x 200 x 306mm (11 x 7.9 x 12 in)	
Weight (Approx.)	2.9kg (6.4lb)	
Calibration Weight (g)	100	200
Power	120VAC adapter	
Warranty	Five-year limited warranty	

^ Weighing Chamber

Options/Accessories

PART #	DESCRIPTION	PRICE
108255	115VAC adapter	$45.00
108256	230VAC adapter	75.00
108257	In-use cover	45.00
107398	Additional operating manual	15.00
75351	WinWedge Tal Software	325.00
N/A	RS-232 cable	Consult

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Phoenix GH Series

Analytical/Semi-Micro Balances

Capacity: 120g-250g Readability: 0.00001g



STANDARD FEATURES

- Simple and easy to operate, adapts to your environment
- GLP/GMP/GCP/ISO compliance which outputs the calibration data and ID number of the balance for calibration confirmation to the AD-8121B printer
- Internal calibration mass; full digital calibration
- System diagnostic to alert operator of abnormal weighing conditions
- Under hook capability for density determination and weighing magnetic substances
- RS-232C bidirectional interface
- Data memory function
- Time and date function
- WinCT® communication tools software
- Liquid Crystal Display (LCD)

SPECIFICATIONS

		GH-120^	GH-200^	GH-300^	GH-202^	GH-252^
	Part number	**97597**	**97599**	**97600**	**97601**	**97602**
	List Price	**$2,935.00**	**$3,355.00**	**$3,985.00**	**$4,510.00**	**$4,930.00**
	Capacity (g)	120	220	320	220/51	250/101
	Resolution (g)	0.0001	0.0001	0.0001	0.0001/ 0.00001	0.001/ 0.00001
UNIT OF MEASURE	Decimal Ounce (oz)	4.23x0.00001	7.76x0.00001	11.29x0.00001	7.76x0.00001/1.80x0.000001	8.82x0.00001/3.56x0.000001
UNIT OF MEASURE	Troy Ounce (ozt)	3.86x0.00001	7.07x0.00001	10.29x0.00001	7.07x0.00001/1.64x0.000001	8.04x0.00001/3.25x0.000001
UNIT OF MEASURE	Pennyweight (dwt)	77.2x0.0001	141.5x0.0001	205.8x0.0001	141.5x0.0001/32.8x0.00001	160.8x0.0001/64.9x0.00001
UNIT OF MEASURE	Carat (ct)	600x0.001	1100x0.001	1600x0.001	1100x0.001/255x0.0001	1250x0.001/505x0.0001
UNIT OF MEASURE	Momme (mom)	32.0x0.0001	58.7x0.0001	85.3x0.0001	58.7x0.0001/13.6x0.00001	66.7x0.0001/26.9x0.00001
UNIT OF MEASURE	Grain Unit (GN)	1852x0.002	3395x0.002	4938x0.002	3395x0.002/787x0.0002	3858x0.002/1559x0.0002
UNIT OF MEASURE	Tola (t)	10.29x0.00001	18.86x0.00001	27.44x0.00001	18.86x0.00001/4.37x0.000001	21.43x0.00001/8.66x0.000001
UNIT OF MEASURE	Tael (TL)	3.20x0.00001	5.87x0.00001	8.53x0.00001	5.87x0.00001/1.36x0.000001	6.67x0.00001/2.69x0.000001
	Operating Modes	Percentage, Counting				
	Repeatability	±0.2 mg	±0.2 mg	±0.3 mg	±0.2 mg/±0.03 mg	±0.2 mg/±0.10 mg
	Linearity	0.1 mg	0.1 mg	0.2 mg	0.1 mg/0.02 mg	0.1 mg/0.03 mg
	Stabilization Time	Approx. 3.5 sec (0.1 mg)/8 sec (0.01 mg)				
	Sensitivity Drift (10°C-30°C)	±2ppm/°C (when automatic self calibration is not used)				
	Operating Temperature	5C to 40C (41 F to 104 F), 85% RH or less (no condensation)				
	Pan Size	Ø 90 mm/3.6 inches				
	Physical Dimensions	217(W) x 442(D) x 316(H) mm (8.54 (W) X 17.4(D) X 12.24(H) in				
	Weighing Chamber	164(W) x 148.5(D) x 251(H) (6.45 x 4.87 x 9.88 in)				
	Weight	Approx. 8.2 kg/18 lb				
	Ext. Cal. Mass (optional)	50 g/100 g	100 g/200 g	100 g/200 g /300 g	20 g/50 g/100 g/200	
	Power	120 VAC (AC Adapter) 50 Hz/60 Hz, 11 VA (110, 220, 240 available by special order)				
	Warranty	Five-year limited warranty				

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Phoenix GH Series

Analytical/Semi-Micro Balances

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
97603	GH-29	Bluetooth®, factory installed, 30 ft maximum	$349.00
97604	GH-08	Ethernet option for GH	498.00
97605	AD-100-2	Anti theft device	54.00
97606	AD-1653	Density determination kit	425.00
97607	AD-1682	Rechargeable battery pack	465.00
97608	AD-8920	Universal remote display	250.00
97609	AD-8922	Remote controller	550.00
97610	AD-1683	Static eliminator	1,095.00
97611	CC:103E	Carrying case for GH series	339.00
97612	SW:128	Foot switch	69.00
97613	TB:136	AC adapter (120V)	39.00
97614	TB:137	AC adapter (220V)	49.00
97649	TB:110C	AC adapter (120V)	39.00
97631	TB:123	AC adapter (220V)	49.00

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Gemini GR Series

Analytical/Semi-Micro Balances

Capacity: 120g-210g Readability: 0.00001g-0.0001g



STANDARD FEATURES

- GLP/GMP/GCP/ISO compliant software outputs the calibration data and ID number of the balance for calibration confirmation to the AD-8121B printer
- Easy access door system
- Automatic self-calibration
- Data memory function
- Under hook capability for density measurement and weighing magnetic material
- Internal calibration standard
- Liquid Crystal Display (LCD)
- RS-232 bidirectional interface
- WinCT® communication tools software

SPECIFICATIONS

	GR-120^	GR-200^	GR-300^	GR-202^
Part number	**97625**	**97626**	**97627**	**97628**
List Price	**$2,575.00**	**$2,975.00**	**$3,685.00**	**$4,200.00**
Capacity (g)	120	210	310	210/42
Resolution (g)	0.0001	0.0001	0.0001	0.0001/ 0.00001
UNIT OF MEASURE: Decimal Ounce (oz)	4.2x0.00001	7.4x0.00001	10x0.00001	7.4x0.00001/1.4x0.000001
Troy Ounce (ozt)	3.8x0.00001	6.7x0.00001	9.9x0.00001	6.7x0.00001/1.3x0.000001
Pennyweight (dwt)	77x0.0001	135x0.0001	199x0.0001	135x0.0001/27x0.00001
Carat (ct)	600x0.001	1050x0.001	1550x0.001	1050x0.001/210x0.0001
Momme (mom)	32x0.0001	56x0.0001	82x0.0001	56x0.0001/11x0.00001
Grain Unit (GN)	1851x0.002	3240x0.002	4784x0.002	3240x0.002/648x0.0002
Tola (t)	10x0.00001	18x0.00001	26x0.00001	18x0.00001/3.6x0.000001
Tael (TL)	3.1x0.00001	5.5x0.00001	8.2x0.00001	5.5x0.00001/1.1x0.000001
Operating Modes	Percentage, Counting			
Repeatability	0.0001 g	0.0001 g	0.0001 g	0.0001/0.00002 g
Linearity	±0.0002 g	±0.0002 g	±0.0002 g	±0.0002/±0.00003 g
Stabilization Time	Approx. 3.5 sec (0.1mg)/8 sec (0.01mg)			
Sensitivity Drift (10°C-30°C)	±2ppm/°C (10°C ~ 30°C/50°F ~ 86°F)			
Operating Temperature	5°C ~ 40°C(41°F ~ 104°F), 85% RH or less (no condensation)			
Pan Size	Ø 85 mm/3.3 inches			
Physical Dimensions	249(W) x 330(D) x 327(H) (9.8 x 12.99 x 12.87 in)			
Weighing Chamber	178(W) x 160(D) x 233(H) (7.01 x 6.5 x 9.17 in)			
Weight	Approximately 6.0 kg/13.2 lb			
Ext. Cal. Mass (optional)	50 g/100 g	100 g/200 g	200 g/300 g	100 g/200 g
Power	120 VAC (AC Adapter) 50 Hz/60 Hz, 11VA (110, 220, 240VAC adapter by special order)			
Warranty	Five-year limited warranty			

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Gemini GR Series

Analytical/Semi-Micro Balances

Options/Accessories

PART #	A&D MODEL #	DESCRIPTION	PRICE
97603	GH-29	Bluetooth®, factory installed, 30 ft maximum	$349.00
97604	GH-08	Ethernet option for GH	498.00
97605	AD-100-2	Anti-theft device	54.00
97606	AD-1653	Density determination kit	425.00
97607	AD-1682	Rechargeable battery pack	465.00
97608	AD-8920	Universal remote display	250.00
97609	AD-8922	Remote controller	550.00
97610	AD-1683	Static eliminator	1,095.00
97611	CC:103E	Carrying case for GH series	339.00
97612	SW:128	Foot switch	69.00
97613	TB:136	AC adapter (120V)	39.00
97614	TB:137	AC adapter (220V)	49.00
97649	TB:110C	AC adapter (120V)	39.00
97631	TB:123	AC adapter (220V)	49.00

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Orion HR Series

Analytical/Semi-Micro Balances

Capacity: 60g-320g Readability: 0.00001g-0.0001g



STANDARD FEATURES

- GLP/GMP/GCP/ISO compliant software outputs the calibration data and ID number of the balance for calibration confirmation to the AD-8121B printer
- Optional battery pack (HR-60, HR-120 and HR-200)
- System diagnostics to alert operator of abnormal weighing conditions
- RS-232C bidirectional interface (option for HR-60, HR-120 and HR-200. Standard for HR-300i and HR-202i)
- Under hook capability for density measurement and weighing magnetic materials
- Liquid Crystal Display (LCD)
- WinCT® communication tools software
- Note: Orion HR series does have internal calibration

**Optional 10 hours of continuous operation with rechargeable battery pack (HR-09) for HR-60, HR-120 and HR-200 only.*

SPECIFICATIONS

	HR-60^	HR-60C^	HR-120^	HR-120C^	HR-200^	HR-200/C^	HR-300i^	HR-202i^
Part Number	**97635**	**97636**	**97637**	**97638**	**97639**	**97640**	**97642**	**97641**
List Price	**$1,600.00**	**$1,700.00**	**$2,020.00**	**$2,125.00**	**$2,125.00**	**$2,230.00**	**$3,475.00**	**$3,875.00**
UNIT OF MEASURE: Capacity (g)	60		120		210		320	220/51
Resolution (g)	0.0001 (NTEP - .001g)		0.0001		0.0001		0.0001	0.0001/ 0.00001
Decimal Ounce (oz)	2.1x0.000005		4.2x0.000005		7.4x0.000005		11.29x0.00001	7.76x0.00001/1.8x0.000001
Troy Ounce (ozt)	1.9x0.000005		3.8x0.000005		6.7x0.000005		10.3x0.00001	7.07x0.00001/1.64x0.000001
Pennyweight (dwt)	38x0.0001		77x0.0001		135x0.0001		199x0.0001	141.5x0.0001/32.8x0.00001
Carat (ct)	300x0.001		600x0.001		1050x0.001		1550x0.001	1100x0.001/255x0.0001
Momme (mom)	16x0.00005		32x0.00005		56x0.00005		82x0.0001	58.7x0.0001/13.6x0.00001
Grain Unit (GN)	925x0.002		1851x0.002		3240x0.002		4784x0.002	3395x0.002/787x0.0002
Tola (t)	5x0.00001		10x0.00001		18x0.00001		26x0.00001	18.8x0.00001/4.37x0.000001
Tael (TL)	1.5x0.000005		3.1x0.000005		5.5x0.000005		8.2x0.00001	5.87x0.00001/1.36x0.000001
Operating Modes	Percentage, Counting							
Repeatability	0.0001 g						±0.0003 mg	±0.0002/±0.00003 g
Linearity	±0.0002 g						0.0002 mg	0.0001/0.00002 g
Stabilization Time	3 seconds (typically)						Approx. 3.5 seconds	Approx. 3.5/8 seconds
Sensitivity Drift (10°C-30°C)	±2ppm/°C (when automatic self calibration is not used)							
Operating Temperature	5C to 40C (41 F to 104 F), 85% RH or less (no condensation)							
Pan Size	Ø 85 mm/3.3 inches						Ø 90 mm/3.6 inches	
Dimensions	213 (W) x 319 (D) x 301 (H) mm (8.4 x 12.8 x 11.9 in)						217(W) x 442(D) x 316(H) mm (8.54 x 17.4 x 12.24 in)	
Weighing Chamber	180 (W) x 192 (D) x 200 (H) mm (7.1 x 7.5 x 7.9 in)						164(W) x 148.5(D) x 251(H) mm (6.45 x 5.84 x 9.88 in)	
Weight	Approximately 5.7 kg/12.5 lb						Approximately 8.0 kg/17.6 lb	
Ext. Cal. Mass (optional)	50 g		100 g		200 g		300g/200g/100g	200g/100 g/50g/20g
Power	120VAC (AC Adaptor) 50 Hz/60 Hz (110, 220, 240VAC adapter available by special order							
Warranty	Five-year limited warranty							

^ Weighing Chamber

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Orion HR Series

Analytical/Semi-Micro Balances

Options/Accessories

PART #	A&D MODEL #	DESCRIPTION	PRICE
97645	HR-29	Bluetooth®, factory installed, 30 ft maximum	$349.00
97646	HR-03	Serial interface (RS-232C) for HR-60/120/200	135.00
97647	HR-05	20mA current loop interface for HR-60/120/200	99.00
97648	HR-09	NiCd battery pack for HR-60, HR-60-C, HR-120, HR-120-C, HR-200, HR-200-C only	295.00
97605	AD-100-2	Anti-theft device	54.00
97606	AD-1653	Density determination kit	425.00
97607	AD-1682	Rechargeable battery pack	465.00
97608	AD-8920	Universal remote display	250.00
97610	AD-1683	Static eliminator	1,095.00
97609	AD-8922	Remote controller	550.00
97611	CC:103E	Storage/carrying case for HR-60, HR-120, HR-200-C versions only	339.00
97649	TB:110C	HR AC adapter (120V)	39.00
97650	TB:136	HR-i adapter (120V)	39.00

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AD-4212A Series

Analytical Balances

Capacity: 110g-1100g Readability: 0.00001g-0.001g



STANDARD FEATURES

- Comparator output (Hi/OK/Lo) feature for manual or automatic operation as well as buzzer function
- GLP/GMP compliant software output
- Breeze break for maximum accuracy and fastest response
- Standard calibration weight
- Simple operator reference card provided
- Multi-weighing units
- Time & date clock function
- Data memory function for weighing, calibration, counting and Hi/OK/Lo values
- Counting & percent mode
- Super Hybrid Sensor Technology (SHS)
- WinCT®communication tools software
- RS-232C bidirectional interface

SPECIFICATIONS

		AD-4212A-100	AD-4212B-102	AD-4212A-200	AD-4212B-201
	Part Number	**97654**	**102925**	**97655**	**102926**
	List Price	**$4,825.00**	**$7,345.00**	**$4,195.00**	**$5,770.00**
	Capacity (g)	110	110	210	210
	Resolution (g)	0.0001	0.00001	0.001	
UNIT OF MEASURE	Milligram (mg)	110000.0 x 0.1	110000.0 x 0.1	2100000 x 1	210000 x 1
UNIT OF MEASURE	Ounce (oz)	3.880135 x 0.000005	3.880135 x 0.000005	7.40755 x 0.00005	7.40755 x 0.00005
UNIT OF MEASURE	Troy Ounce (ozt)	3.536580 x 0.000005	3.536580 x 0.000005	6.75165 x 0.00005	6.75165 x 0.00005
UNIT OF MEASURE	Carat (ct)	550.0 x 0.0005	550.0 x 0.0005	1050.0 x 0.005	1050.0 x 0.005
UNIT OF MEASURE	Momme (mm)	29.33335 x 0.00005	29.33335 x 0.00005	56.0 x 0.0005	56.0 x 0.0005
UNIT OF MEASURE	Pennyweight (dwt)	70.7316 x 0.0001	70.7316 x 0.0001	135.033 x 0.001	135.033 x 0.001
UNIT OF MEASURE	Grain (GN)	1697.56. x 0.002	1697.56. x 0.002	3240.80 x 0.02	3240.80 x 0.02
UNIT OF MEASURE	Tael (HK Gen, Singapore)	2.910100 x 0.000005	2.910100 x 0.000005	5.55565 x 0.00005	5.55565 x 0.00005
UNIT OF MEASURE	Tael (HK jewelry)	2.938900 x 0.000005	2.938900 x 0.000005	5.61060 x 0.00005	5.61060 x 0.00005
UNIT OF MEASURE	Tael (Taiwan)	2.933335 x 0.000005	2.933335 x 0.000005	5.600 x 0.00005	5.600 x 0.00005
UNIT OF MEASURE	Tael (China)	3.520 x 0.00005	3.520 x 0.00005	6.7200 x 0.00005	6.7200 x 0.00005
UNIT OF MEASURE	Tola (India)	9.43089 x 0.00001	9.43089 x 0.00001	18.0044 x 0.0001	18.0044 x 0.0001
UNIT OF MEASURE	Messaghal	23.46665 x 0.00005	23.46665 x 0.00005	44.80 x 0.0005	44.80 x 0.0005
	Operating Modes	counting, percentage			
	Repeatability (Std. Dev.)	0.00015g	0.00015g	0.001g	
	Linearity	±0.0003g	±0.0003g	±0.002g	±0.002g
	Stabilization Time (typical)	0-30g Approx. 1.1sec	0-30g Approx. 1.1sec	0–30g Approx. 0.8sec	0–30g Approx. 0.8sec
		30-110g Approx. 1.3sec	30-110g Approx. 1.3sec	30- 210g Approx. 1.0sec	30- 210g Approx. 1.0sec
	Sensitivity Drift	±2 ppm / ºC (10ºC to 30ºC / 50ºF to 86ºF)			
	Operating Temperature	5ºC to 40ºC (41ºF to 104ºF), 85% RH or less (no condensation)			
I/O Interface	RS-232C	Bidirectional 600-19,200			
I/O Interface	Comparator Output	3 level output with buzzer			
I/O Interface	External Contact Input	Re-zero & print			
Weighing Unit	Dimensions	80 (W) x 230 (D) x 90 (H) mm (3.2 x 9.1 x 3.5 in)			
Weighing Unit	Weighing Pan	50 x 50 mm			
Weighing Unit	Weight	Approx. 2 kg			
Display Unit	Dimensions	237 (W) x 150 (D) x 155 (H) mm			
Display Unit	Weight	Approx. 2 kg			
	Connection Cable	Approx. 2 m (between weighing unit and display unit)			
	Shipping Weight	8.5 lb (4 kg)			
	Calibration Weight (OIML F1) (OPT)	50g	50g	100g	100g
	Power Supply	120 VAC Adaptor, 11VA			
	Warranty	Five-year limited warranty			

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AD-4212A Series

Analytical Balances

Options/Accessories

PART #	A&D MODEL #	DESCRIPTION	PRICE
97672	AD-4212A-01	BCD output (factory installed, 4 month lead time)	$525.00
97674	AD-4212A-07	Extension cable, 1 meter	139.00
97675	AD-4212A-08	Extension cable, 3 meter	499.00
97676	AD-4212A-19	Stainless steel breeze break (200 g only)	89.00

SPECIFICATIONS

		AD-4212B-301		AD-4212A-600		AD-4212A-1000	
Part Number		**102927**		**97656**		**97657**	
List Price		**$6,295.00**		**$4,615.00**		**$4,825.00**	
Capacity (g)		210		610		1100	
Resolution (g)		0.001					
UNIT OF MEASURE: Milligram (mg)		2100000 x 1		660000 x 0.00005		1210000 x 0.00005	
Ounce (oz)		7.40755 x 0.00005		23.28081 x 0.00005		42.681485 x 0.00005	
Troy Ounce (ozt)		6.75165 x 0.00005		21.21948 X 0.0005		38.90238 X 0.0005	
Carat (ct)		1050.0 x 0.005		3300 X 0.005		6050 X 0.005	
Momme (mm)		56.0 x 0.0005		176.0001 X 0.0005		322.66685 X 0.0005	
Pennyweight (dwt)		135.033 x 0.001		424.3896 X 0.001		778.0476 X 0.001	
Grain (GN)		3240.80 x 0.02		10185.36 X 0.02		18673.16 X 0.02	
Tael (HK Gen, Singapore)		5.55565 x 0.00005		17.4606 X 0.00005		32.0111 X 0.00005	
Tael (HK jewelry)		5.61060 x 0.00005		17.6334 X 0.00005		32.3279 X 0.00005	
Tael (Taiwan)		5.600 x 0.00005		17.60001 X 0.00005		32.266685 X 0.00005	
Tael (China)		6.7200 x 0.00005		21.12 X 0.00005		38.72 X 0.00005	
Tola (India)		18.0044 x 0.0001		56.58534 X 0.0001		103.73979 X 0.0001	
Messaghal		44.80 x 0.0005		140.7999 X 0.0005		258.13315 X 0.0005	
Operating Modes		counting, percentage					
Repeatability (Std. Dev.)		0.001g					
Linearity		±0.002g		±0.0003g			
Stabilization Time (typical)		0–30g	Approx. 0.8sec	0–30g	Approx. 0.9sec	0-30g	Approx. 0.9sec
		30- 210g	Approx. 1.0sec	30-610g	Approx. 1.1sec	30-1100g	Approx. 1.1sec
Sensitivity Drift		±2 ppm / ºC (10ºC to 30ºC / 50ºF to 86ºF)					
Operating Temperature		5ºC to 40ºC (41ºF to 104ºF), 85% RH or less (no condensation)					
I/O Interface	RS-232C	Bidirectional 600-19,200					
	Comparator Output	3 level output with buzzer					
	External Contact Input	Re-zero & print					
Weighing Unit	Dimensions	80 (W) x 230 (D) x 90 (H) mm (3.2 x 9.1 x 3.5 in)					
	Weighing Pan	50 x 50 mm		70 x 70 mm			
	Weight	Approx. 2 kg					
Display Unit	Dimensions	237 (W) x 150 (D) x 155 (H) mm					
	Weight	Approx. 2 kg					
Connection Cable		Approx. 2 m (between weighing unit and display unit)					
Shipping Weight		8.5 lb (4 kg)					
Calibration Weight (OIML F1) (OPT)		100g		200 g			
Power Supply		120 VAC Adaptor, 11VA					
Warranty		Five-year limited warranty					

A & D Weighing

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GX Series

Toploader Balances

Capacity: 210g-8100g Readability: 0.001g-0.1g



STANDARD FEATURES

- Internal calibration weight
- Auto environmental compensation
- IP54 splash-proof operator keyboard
- RS-232C bidirectional interface
- WinCT® communication tools software
- GLP/GMP/ISO compliant to either AD-8121 printer or computer. Transmits date, time, ID number, serial number and calibration data
- Auto re-zero function
- Interval time setting; built-in time and date
- Rechargeable battery option for portable needs
- Data memory function
- Multiple weighing modes: Counting, Percentage and Comparator Modes
- Super Hybrid Sensor Technology (SHS)
- Vacuum Florescent Display (VFD)
- Optional glass breeze break
- Under hook weighing

SPECIFICATIONS

	GX-200^	GX-400^	GX-600^	GX-800^	GX-1000^
Part Number	**97685**	**97686**	**97687**	**97688**	**97689**
List Price	**$1,655.00**	**$2,075.00**	**$2,465.00**	**$2,570.00**	**$2,705.00**
Capacity (g)	210	410	610	810	1100
Resolution (g)	0.001	0.001	0.001	0.001	0.001
Decimal ounce (oz)	7.40755 x 0.00005	14.46230 x 0.00005	21.51710 x 0.00005	28.57190 x 0.00005	38.80135 x 0.00005
Decimal pound (lb)	0.462970 x 0.000005	0.903895 x 0.000005	1.344820 x 0.000005	1.785744 x 0.000005	2.425084 x 0.000005
Troy ounce (ozt)	6.75165 x 0.00005	13.18180 x 0.00005	19.61195 x 0.00005	26.04210 x 0.00005	35.36582 x 0.00005
Pennyweight (dwt)	135.033 x 0.001	263.636 x 0.001	392.239 x 0.001	520.842 x 0.001	707.316 x 0.001
Carat (ct)	1050.000 x 0.005	2050.000x 0.005	3050.000 x 0.005	4050.000 x 0.005	5500.000 x 0.005
Momme (mm)	56.0000 x 0.0005	109.3335 x 0.0005	162.6665 x 0.0005	215 x 0.0005	270 x 0.0005
Grain Unit (GN)	3240.80 x 0.02	6327.26 x 0.02	9413.74 x 0.02	12500.21 x 0.02	16975.6 x 0.02
Pound x Ounce (x 0.01oz)	7.41 oz	14.46 oz	1lb 5.52 oz	1 lb 12.80 oz	2 lb 4 oz
Modes	Animal weighing, comparator function, ACAI counting function, percentage function, density determination				
Repeatability	0.001g				
Linearity	±0.002g		±0.003g		
Stabilization Time	Approx 1 second (typical in FAST mode)			Approx. 1.5 seconds	
Display Refresh	5 times per second (stable) / 10 times per second (unstable)				
Operating temperature	5°C 40°C / 41°F 104°F RH less than 85% (No condensation)				
Pan size	128 x 128 mm (5.04 x 5.04 inch)				
Physical Dimension	8.26 W x 12.48 D x 3.38 H inches, 210(W) x 317(D) x 86(H) mm				
Weighing Chamber	3.6 in H				
Weight (Approx.)	4.6 kg / 2.15 lb				
Power	120V by AC adaptor Approx 11VA (240VAC adapter by special order)				
Warranty	Five year limited warranty				

^ Weighing Chamber

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GX Series

Toploader Balances

Options/Accessories

PART #	A&D MODEL #	DESCRIPTION	PRICE
97695	GX-04	Comparator output; factory installed only	$170.00
97696	GX-06	Analog output; factory installed only	549.00
97697	GX-10	Glass breeze break for GX-200/400/600	254.00
97698	GX-11	Glass breeze break for GX-2000/4000/6100/6000/8000	254.00
97699	GX-12	Animal weighing pan for GX-400/600/2000/4000/6100/6000/8000	156.00
97700	GX-13	Density determination kit for GX-200/400/600	450.00
97701	GX-29	Bluetooth®, factory installed, 30 ft maximum	349.00
97702	CC:102E	Storage/Carrying case	145.00
97607	AD-1682	Rechargeable battery pack (external)	465.00
97608	AD-8920	Universal remote display	250.00
97605	AD-100-2	Anti-theft device	54.00
97612	SW:128	Foot switch	69.00
97703	AX:073003691-S	Protective in-use cover for GX-200/400/600	17.00
97704	AX:073003692-S	Protective in-use cover for GX-2000/4000/6100/6000/8000	17.00
97649	TB:110C	AC adapter (120V)	39.00
97631	TB:123	AC adapter (220V)	49.00
102891	GX-02	USB option	135.00

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SPECIFICATIONS

	GX-2000	GX-4000	GX-6100	GX-6000	GX-8000
Part Number	**97690**	**97691**	**97692**	**97693**	**97694**
List Price	**$1,655.00**	**$2,235.00**	**$2,465.00**	**$1,920.00**	**$2,095.00**
Capacity (g)	2100	4100	6100	6100	8100
Resolution (g)	0.01	0.01	0.01	0.1	0.1
Decimal ounce (oz)	74.0755 x 0.0005	144.6230 x 0.0005	215.1710 x 0.0005	215.170x0.005	285.720x0.005
Decimal pound (lb)	4.62970 x 0.00005	9.03895 x 0.00005	13.44820x 0.00005	13.4480x0.0005	17.8575x0.0005
Troy ounce (ozt)	67.5165 x 0.0005	131.8180 x 0.0005	196.1195 x 0.0005	196.120x0.005	260.420x0.0005
Pennyweight (dwt)	1350.33 x 0.01	2636.36 x 0.01	3922.39 x 0.01	3922.4x0.1	5208.4x0.1
Carat (ct)	10500.00 x 0.05	20500.00 x 0.05	30500.00 x 0.05	30500.0x0.5	40500.0x0.5
Momme (mm)	560.000 x 0.005	1093.335 x 0.005	1626.665 x 0.005	1626.65x0.05	2160.00x0.05
Grain Unit (GN)	32408.0 x 0.2	63272.6 x 0.2	94137.4 x 0.2	94136 x 2	125002x2
Pound x Ounce	4 lb 10.08 oz	9 lb0.62 oz	13 lb 7.17 oz	13lb 7.17 oz	17lb 13.72 oz
(x 0.01oz)					
Modes	Animal weighing, comparator function, ACAI counting function, percentage function, density determination				
Repeatability	0.01g			0.1g	
Linearity	±0.02g		±0.03g	±0.1g	
Stabilization Time	Approx. 1 sec (typical in FAST mode)		Approx. 1.5 seconds	Approx. 1 second	
Display Refresh	5 times per second (stable) / 10 times per second (unstable)				
Operating temperature	5°C 40°C / 41°F 104°F RH less than 85% (No condensation)				
Pan size	165 x 165 mm (6.50 x 6.50 inch)				
Physical Dimension	8.26 W x 12.48 D x 3.38 H inches, 210(W) x 317(D) x 86(H) mm				
Weighing Chamber	3.6 in H				
Weight (Approx.)	Approx 5.1 kg/2.05 lb				
Power	120V by AC adaptor Approx 11VA (240VAC adapter by special order)				
Warranty	Five year limited warranty				

^ Weighing Chamber

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GF Series

Toploader Balances

Capacity: 210g-8100g Readability: 0.001g-0.1g



STANDARD FEATURES

- IP54 splash proof operator keyboard
- RS-232C bidirectional communication
- GLP/ISO/LIMS compliant to either AD-8121 printer or computer. Transmits date, time, ID number, serial number and calibration data
- Auto re-zero function
- Data collection software compatible
- WinCT® communication tools software
- Interval time setting
- Data memory function
- Multiple weighing units
- Rechargeable battery option for portable needs
- Vacuum florescent display (VFD)
- Optional glass breeze break
- Under hook weighing
- Super Hybrid Sensor Technology (SHS)

SPECIFICATIONS

		GF-200^	GF-300^	GF-400^	GF-600^	GF-800^	GF-1000^	GF-1200
	Part Number	**97707**	**97709**	**97711**	**97712**	**97713**	**97714**	**97715**
	List Price	**$1,210.00**	**$1,350.00**	**$1,595.00**	**$2,145.00**	**$2,365.00**	**$2,390.00**	**$1,155.00**
NTEP	**Part Number Class II**	**97708**	**97710**	—	—	—	—	**97716**
NTEP	**List Price**	**$1,255.00**	**$1,395.00**	—	—	—	—	**$1,300.00**
	Gram (g)	210	310	410	610	810	1100	1210
	Resolution (g)	0.001 (NTEP 0.01)	0.001 (NTEP 0.01g)	0.001	0.001	0.001	0.001	0.01 (NTEP 0.1)
UNIT OF MEASURE	Decimal ounce (oz)	7.40755 x 0.00005	10.93493 x 0.00005	14.46230 x 0.00005	21.51710 x 0.00005	28.57190 x 0.00005	38.80135 x 0.00005	42.68149 x 0.0005
UNIT OF MEASURE	Decimal pound (lb)	0.462970 x 0.000005	0.68343 x 0.000005	0.903895 x 0.000005	1.344820 x 0.000005	1.785744 x 0.000005	2.425084 x 0.000005	2.66759 x 0.00005
UNIT OF MEASURE	Troy ounce (ozt)	6.75165 x 0.00005	9.96673 x 0.00005	13.18180 x 0.00005	19.61195 x 0.00005	26.04210 x 0.00005	35.36582 x 0.00005	38.90240 x 0.0005
UNIT OF MEASURE	Pennyweight (dwt)	135.033 x 0.001	199.33463 x 0.001	263.636 x 0.001	392.239 x 0.001	520.842 x 0.001	707.316 x 0.001	778.04807 x 0.01
UNIT OF MEASURE	Carat (ct)	1050.000 x 0.005	1550.000 x 0.005	2050.000x 0.005	3050.000 x 0.005	4050.000 x 0.005	5500.000 x 0.005	6050 x 0.05
UNIT OF MEASURE	Momme (mm)	56.0000 x 0.0005	81.3332 x 0.0005	109.3335 x 0.0005	162.6665 x 0.0005	215 x 0.0005	270 x 0.0005	270.000 x 0.005
UNIT OF MEASURE	Grain Unit (GN)	3240.80 x 0.02	4784.03 x 0.02	6327.26 x 0.02	9413.74 x 0.02	12500.21 x 0.02	16975.6 x 0.02	18673.15 x 0.2
UNIT OF MEASURE	Pound x Ounce (x 0.01oz)	7.41 oz	10.93 oz	14.46 oz	1lb 5.52 oz	1 lb 12.8 oz	2 lb 4 oz	2lb, 11oz
	Operating Modes	Animal weighing, comparator function, ACAI counting function, percentage function, density determination						
	Repeatability	0.001g						0.01g
	Linearity	±0.002g		±0.003g				±0.02g
	Stabilization Time	Approx 1 second (typical in FAST mode)				Approx. 1.5 seconds		Approx. 1 sec (typical in FAST mode)
	Operating Temperature	41 degrees F to 104 degrees F (5 degrees C to 40 degrees C)						
	Weighing Chamber	3.6 in H						
	Pan size	128 x 128mm (5.04 x 5.04 in)						165 x 165 mm (6.5 x 6.5 in)
	Dimensions	2100 x 317 x 86 mm (8.27 x 12.48 x 3.39 in)						
	Weight (Approx.)	4.6 kg / 2.15 lb						Approx 5.1 kg/2.05 lb
	Est. Ship Weight	11.2 lb (5.2 kg)						
	Power	120VAC adapter, Approx. 11VA (240VAC adapter special order)						
	Warranty	Five-year limited warranty						

^ Weighing Chamber

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GF Series

Toploader Balances

Options/Accessories

PART #	A&D MODEL #	DESCRIPTION	PRICE
97695	GX-04	Comparator output	$170.00
97696	GX-06	Analog output; factory installed only	549.00
97697	GX-10	Glass breeze break for GF-200/300/400/600	254.00
97698	GX-11	Glass breeze break for GF-1200/2000/3000/6000	254.00
97699	GX-12	Animal weighing pan for GF-1200/2000/3000/6000	156.00
97700	GX-13	Density determination kit for GF-200/300	450.00
97701	GX-29	Bluetooth®, factory installed, 30 ft maximum	349.00
97702	CC:102E	Storage/Carrying case	145.00
97607	AD-1682	Rechargeable battery pack	465.00
97608	AD-8920	Universal remote display	250.00
97605	AD-100-2	Anti-theft device	54.00
97612	SW:128	Foot switch	69.00
97703	AX:073003691-S	Protective in-use cover for GF-200/300/400/600	17.00
97704	AX:073003692-S	Protective in-use cover for GF-1200/2000/3000/4000/6100/6000/8000	17.00
97649	TB:110C	AC adapter (120V)	39.00
97631	TB:123	AC adapter (220V)	49.00
102891	GX-02	USB option	135.00

Bluetooth is a registered trademark of Bluetooth SIG

SPECIFICATIONS

		GF-2000	GF-3000	GF-4000	GF-6100	GF-6000	GF-8000
	Part Number	**97717**	**97719**	**97721**	**97722**	**97723**	**97725**
	List Price	**$1,210.00**	**$1,350.00**	**$1,705.00**	**$2,175.00**	**$1,595.00**	**$1,865.00**
NTEP	**Part Number Class II**	**97718**	**97720**	—	**97724**	—	—
NTEP	**List Price**	**$1,255.00**	**$1,395.00**	—	**$1,675.00**	—	—
	Gram (g)	2100	3100	4100	6100	6100	8100
	Resolution (g)	0.01 (NTEP 0.1)	0.01 (NTEP 0.1)	0.01	0.01 (NTEP 0.1)	0.1	0.1
UNIT OF MEASURE	Decimal ounce (oz)	74.0755 x 0.0005	109.34928 x 0.0005	144.6230 x 0.0005	215.1710 x 0.0005	215.170x0.005	285.720x0.005
UNIT OF MEASURE	Decimal pound (lb)	4.62970 x 0.00005	6.83433 x 0.00005	9.03895 x 0.00005	13.44820 x 0.00005	13.4480 x 0.0005	17.8575 x 0.0005
UNIT OF MEASURE	Troy ounce (ozt)	67.5165 x 0.0005	99.66731 x 0.0005	131.8180 x 0.0005	196.1195 x 0.0005	196.120 x 0.005	260.420 x 0.0005
UNIT OF MEASURE	Pennyweight (dwt)	1350.33 x 0.01	1993.35 x 0.01	2636.36 x 0.01	3922.39 x 0.01	3922.4x0.1	5208.4 x0.1
UNIT OF MEASURE	Carat (ct)	10500.00 x 0.05	15500.00 x 0.05	20500.00 x 0.05	30500.00 x 0.05	30500.0 x 0.5	40500.0 x 0.5
UNIT OF MEASURE	Momme (mm)	560.000 x 0.005	813.325 x 0.005	1093.335 x 0.005	1626.665 x 0.005	1626.65x0.05	2160.00x0.05
UNIT OF MEASURE	Grain Unit (GN)	32408.0 x 0.2	47840.31	63272.6 x 0.2	94137.4 x 0.2	94136 x 2	125002x2
UNIT OF MEASURE	Pound x Ounce (x 0.01oz)	4 lb 10.08 oz	7lb, 1oz	9 lb0.62 oz	13 lb 7.17 oz	13lb 7.17 oz	17lb 13.72 oz
	Operating Modes	Animal weighing, comparator function, ACAI counting function, percentage function, density determination					
	Repeatability	0.01g				0.1g	
	Linearity	±0.02g			±0.03g	±0.1g	
	Stabilization Time	Approx. 1 sec (typical in FAST mode)		Approx. 1.5 seconds		Approx. 1 second	
	Operating Temperature	41 degrees F to 104 degrees F (5 degrees C to 40 degrees C)					
	Weighing Chamber						
	Pan size	165 x 165 mm (6.5 x 6.5 in)					
	Dimensions	2100 x 317 x 86 mm (8.27 x 12.48 x 3.39 in)					
	Weight (Approx.)	Approx 5.1 kg/2.05 lb					
	Est. Ship Weight	11.2 lb (5.2 kg)					
	Power	120VAC adapter, Approx. 11VA (240VAC adapter special order)					
	Warranty	Five-year limited warranty					

^ Weighing Chamber

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GF-G Series

Toploader Balances

Capacity: 210g-6100g Readability: 0.001g-0.1g



STANDARD FEATURES

- Super Hybrid Sensor Technology (SHS)
- One second response time
- Data memory function
- RS-232C bidirectional communication
- Vacuum florescent display (VFD)
- GLP/LIMS/ISO compliance
- WinCT® communication tools software
- Under hook weighing
- External calibration only (Canadian approval number AM-5587) Grams only (no multiple units of measure)

SPECIFICATIONS

	GF-200G^	GF-300G^	1200G	GF-2000G	GF-3000G	GF-6000G
Part Number	**102892**	**102893**	**102894**	**102895**	**102896**	**102897**
List Price	**$1,210.00**	**$1,350.00**	**$1,300.00**	**$1,255.00**	**$1,395.00**	**$1,675.00**
Capacity (g)	210	310	1210	2100	3100	6100
Resolution (g)	0.001	0.001	0.01	0.01	0.01	0.1
UNIT OF MEASURE: Decimal ounce (oz)	7.40755 x 0.00005	10.93493 x 0.00005	42.68149 x 0.0005	74.0755 x 0.0005	109.34928 x 0.0005	215.1710 x 0.0005
Decimal pound (lb)	0.462970 x 0.000005	0.68343 x 0.000005	2.66759 x 0.00005	4.62970 x 0.00005	6.83433 x 0.00005	13.44820x 0.00005
Troy ounce (ozt)	6.75165 x 0.00005	9.96673 x 0.00005	38.90240 x 0.0005	67.5165 x 0.0005	99.66731 x 0.0005	196.1195 x 0.0005
Pennyweight (dwt)	135.033 x 0.001	199.33463 x 0.001	778.04807 x 0.01	1350.33 x 0.01	1993.35 x 0.01	3922.39 x 0.01
Carat (ct)	1050.000 x 0.005	1550.000 x 0.005	6050 x 0.05	10500.00 x 0.05	15500.00 x 0.05	30500.00 x 0.05
Momme (mm)	56.0000 x 0.0005	81.3332 x 0.0005	270.000 x 0.005	560.000 x 0.005	813.325 x 0.005	1626.665 x 0.005
Grain Unit (GN)	3240.80 x 0.02	4784.03 x 0.02	18673.15 x 0.2	32408.0 x 0.2	47840.31	94137.4 x 0.2
Pound x Ounce (x 0.01oz)	7.41 oz	10.93 oz	2lb, 11oz	4 lb 10.08 oz	7lb, 1oz	13 lb 7.17 oz
Operating Modes	Animal weighing, comparator function, ACAI counting function, percentage function, density determination					
Repeatability	0.001g			±0.01g		±0.01g
Linearity	±0.002g		±0.02g			±0.1g
Stabilization Time	Approx 1 second					
Operating Temperature	41 degrees F to 104 degrees F (5 degrees C to 40 degrees C)					
Weighing Chamber	3.6 in H					
Pan size	128 x 128 mm (5.04 x 5.04 inch)		165 x 165 mm (6.5 x 6.5 in)			
Dimensions	210 x 317 x 86 mm (8.27 x 12.48 x 3.39 in)					
Weight (Approx.)	4.6 kg / 2.15 lb		Approx 5.1 kg/2.05 lb			
Est. Ship Weight	11.2 lb (5.1 kg)					
Power	120VAC by adapter, 11VA (230VAC adapter by special order)					
Warranty	Five-year limited warranty					

^ Weighing Chamber

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GF-G Series

Toploader Balances

Options/Accessories

PART #	A&D MODEL #	DESCRIPTION	PRICE
97695	GX-04	Comparator output	$170.00
97696	GX-06	Analog output; factory installed only	549.00
97697	GX-10	Glass breeze break for GF-200G/300G	254.00
97698	GX-11	Glass breeze break for GF-1200G/2000G/3000G/600G	254.00
97699	GX-12	Animal weighing pan for GF-1200G/2000G/3000G/6000G	156.00
97700	GX-13	Density determination kit for GF-200G/300G	450.00
97701	GX-29	Bluetooth®, factory installed, 30 ft maximum	349.00
97702	CC:102E	Storage/Carrying case	145.00
97607	AD-1682	Rechargeable battery pack	465.00
97608	AD-8920	Universal remote display	250.00
97605	AD-100-2	Anti-theft device	54.00
97612	SW:128	Foot switch	69.00
97703	AX:073003691-S	Protective in-use cover for GF-200G/300G	17.00
97704	AX:073003692-S	Protective in-use cover for GF-1200G/2000G/3000G/6000G	17.00
97649	TB:110C	AC adapter (120V)	39.00
97631	TB:123	AC adapter (220V)	49.00
102891	GX-02	USB option	135.00

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GF-P Series

Toploader Balances

Capacity: 210g-310g Readability: 0.001g



STANDARD FEATURES

- Pill-counting feature also complies with Handbook 44 requirements
- Fast, Super Hybrid Sensor (SHS) gives you the ultimate in response speed, just one second
- Nine weighing modes
- GLP/GMP/ISO compliance
- WinCT® communication tools software included free
- Tough die-cast aluminum housing
- Removable stainless steel pan 5 in x 5 in (127 mm x 127 mm)
- NTEP & Pharmacopia approved
- IP54 splash proof operator keyboard protects against dust and spills, stainless steel weigh pan
- Data memory function
- Vacuum Fluorescent Display (VFD)

SPECIFICATIONS

		GF-200P^	GF-300P^
	Part Number	**97799**	**97800**
	List Price	**$1,255.00**	**$1,465.00**
	Capacity (g)	210	310
	Resolution (g)	0.001	0.001
UNIT OF MEASURE	Decimal ounce (oz)	7.40755 x 0.00005	10.93493 x 0.00005
UNIT OF MEASURE	Decimal pound (lb)	—	—
UNIT OF MEASURE	Troy ounce (ozt)	—	—
UNIT OF MEASURE	Pennyweight (dwt)	—	—
UNIT OF MEASURE	Carat (ct)	—	—
UNIT OF MEASURE	Momme (mm)	—	—
UNIT OF MEASURE	Grain Unit (GN)	—	—
UNIT OF MEASURE	Pound x Ounce (x 0.01oz)	—	—
	Operating Modes		
	Repeatability	0.001g	
	Linearity	±0.002g	
	Stabilization Time	Approx 1 second (typical in FAST mode)	
	Operating Temperature	41 degrees F to 104 degrees F (5 degrees C to 40 degrees C)	
	Weighing Chamber	3.6 in H	
	Pan size	5 in x 5in	
	Dimensions	210 x 317 x 86 mm (8.27 x 12.48 x 3.39 in)	
	Weight (Approx.)	4.6 kg / 2.15 lb	
	Est. Ship Weight	11 lb (5.2 kg)	
	Power	—	
	Warranty	Five-year limited warranty	

^ Weighing Chamber

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GF-P Series

Toploader Balances

Options/Accessories

PART #	A&D MODEL #	DESCRIPTION	PRICE
97697	GX-10	Glass breeze break for GF-200 & 300	$254.00
97703	AX:073003691-S	Protective in-use cover for GF-200/300 (each)	17.00
97649	TB:110C	AC adapter (120V)-standard with unit	39.00
97801	TB:110CL	90º angle AC adapter (120V)	39.00
97631	TB:123	AC adapter (220V)	49.00
102891	GX-02	USB option	135.00

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FXi & FXi-WP Series

Toploader Balances

Capacity: 120g-3200g Readability: 0.001g-0.01g



STANDARD FEATURES

- Compact Super Hybrid Sensor Technology (SHS)
- Vacuum Fluorescent Display (VFD)
- GLP/GMP/ISO compliant to either AD-8121 printer or computer. Transmits date, time, ID number, serial number and calibration data
- Statistical calculation function
- Quick USB interface (FXi-02) Option
- RS-232C bidirectional communication
- Data memory function
- Comparator function
- Buzzer function
- Digital calibration function
- Optional built-in rechargeable battery
- Multiple units of measurement
- Response indicator function
- LAN-Ethernet interface
- WinCT® communication tools software
- Under hook weighing
- WP models are IP65

SPECIFICATIONS

		FX-120i^	FX-200i^	FX-300i^	FX-1200i	FX-2000i	FX-3000i
	Part Number	**98021**	**98022**	**98023**	**98024**	**98025**	**98026**
	List Price	**$925.00**	**$965.00**	**$995.00**	**$925.00**	**$965.00**	**$995.00**
	Capacity (g)	122	220	320	1220	2200	3200
	Resolution (g)	0.001	0.001	0.001	0.01	0.01	0.01
UNIT OF MEASURE	Decimal ounce (oz)	4.30 x 0.00005	7.76 x 0.00005	11.28 x 0.00005	43.0 x 0.0005	77.6 x 0.0005	112.8 x 0.0005
	Pound (lb)	0.268 x 0.000005	0.485 x 0.000005	0.705 x 0.000005	2.68 x 0.00005	4.85 x 0.00005	7.05 x 0.00005
	Pound x Ounce (lb oz)	0lb, 4.30oz x 0.01oz	0lb, 7.76oz x 0.01oz	0lb, 11.29oz x 0.01oz	2lb, 11.03oz x 0.01oz	4lb, 13.60oz x 0.01oz	7lb, 0.88oz x 0.01oz
	Troy ounce (ozt)	3.92 x 0.00005	7.07 x 0.00005	10.28 x 0.00005	39.2 x 0.0005	70.7 x 0.0005	102.8 x 0.0005
	Carat (ct)	610 x 0.005	1100 x 0.005	1600 x 0.005	6100 x 0.05	11000 x 0.05	16000 x 0.05
	Pennyweight (dwt)	78.6 x 0.001	141.7 x 0.001	206.2 x 0.001	786 x 0.01	1417 x 0.01	2062 x 0.01
	Grain Unit (GN)	1882 x 0.02	3395 x 0.02	4938 x 0.02	18827 x 0.2	33951 x 0.2	49383 x 0.2
	Repeatability	0.001g			0.01g		
	Linearity	±0.002g			±0.02g		
	Stabilization Time	Approx. 1 second					
	Sensitivity Drift	±2ppm / °C					
	Display Refresh Rate	5 times / second, 10 times / second or 20 times / second					
	Operating Temperature	5°C to 40°C (41°F to 104°F), 85% RH or less (No condensation)					
	Pan Size	130mm			150mm		
	Dimensions	193 (W) x 262.5 (D) x 84.5 (H) mm (7.6 x 10.3 x 3.3 in)					
	Weight	Approx. 2.5kg					
	Est Ship Weight	8 lb (3.5kg)					
	External Calibration (weight optional)	100g	200g	300g	1000g	2000g	3000g
	Power Consumption	120VAC adapter, approx. 11VA (240VAC Adaptor special order)					
	Warranty	Five-year limited warranty					

^ Weighing Chamber

A & D Weighing

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FXi & FXi-WP Series

Toploader Balances

Options/Accessories

PART #	A&D MODEL #	DESCRIPTION	PRICE
98027	FXi-02	Quick USB interface	$79.00
98028	FXi-08	Ethernet interface with WinCT® Plus software	449.00
98029	FXi-09	Built-in rechargeable battery	299.00
98030	FXi-10	Small breeze break	69.00
98031	FXi-11	Large breeze break	119.00
97608	AD-8920	Remote display	250.00
97609	AD-8922	Remote controller	550.00
98032	AD-8526	RS/Ethernet convertor	525.00

Options FXi-02/FXi-08 and FXi-09 can not be combined and are factory installed only.

SPECIFICATIONS

	FX-120iWP^	FX-200iWP^	FX-300iWP^	FX-1200iWP	FX-2000iWP	FX-3000iWP
Part Number	**102905**	**102906**	**102907**	**102908**	**102909**	**102910**
List Price	**$1,310.00**	**$1,360.00**	**$1,465.00**	**$1,310.00**	**$1,360.00**	**$1,465.00**
Capacity (g)	122	220	320	1220	2200	3200
Resolution (g)	0.001	0.001	0.001	0.01	0.01	0.01
UNIT OF MEASURE: Decimal ounce (oz)	4.30 x 0.00005	7.76 x 0.00005	11.28 x 0.00005	43.0 x 0.0005	77.6 x 0.0005	112.8 x 0.0005
Pound (lb)	0.268 x 0.000005	0.485 x 0.000005	0.705 x 0.000005	2.68 x 0.00005	4.85 x 0.00005	7.05 x 0.00005
Pound x Ounce (lb oz)	0lb, 4.30oz x 0.01oz	0lb, 7.76oz x 0.01oz	0lb, 11.29oz x 0.01oz	2lb, 11.03oz x 0.01oz	4lb, 13.60oz x 0.01oz	7lb, 0.88oz x 0.01oz
Troy ounce (ozt)	3.92 x 0.00005	7.07 x 0.00005	10.28 x 0.00005	39.2 x 0.0005	70.7 x 0.0005	102.8 x 0.0005
Carat (ct)	610 x 0.005	1100 x 0.005	1600 x 0.005	6100 x 0.05	11000 x 0.05	16000 x 0.05
Pennyweight (dwt)	78.6 x 0.001	141.7 x 0.001	206.2 x 0.001	786 x 0.01	1417 x 0.01	2062 x 0.01
Grain Unit (GN)	1882 x 0.02	3395 x 0.02	4938 x 0.02	18827 x 0.2	33951 x 0.2	49383 x 0.2
Repeatability	0.001g			0.01g		
Linearity	±0.002g			±0.02g		
Stabilization Time	Approx. 1 second					
Sensitivity Drift	±2ppm / °C					
Display Refresh Rate	5 times / second, 10 times / second or 20 times / second					
Operating Temperature	5°C to 40°C (41°F to 104°F), 85% RH or less (No condensation)					
Pan Size	130mm			150mm		
Dimensions	193 (W) x 262.5 (D) x 84.5 (H) mm (7.6 x 10.3 x 3.3 in)					
Weight	Approx. 2.5kg					
Est Ship Weight	8 lb (3.5kg)					
External Calibration (weight optional)	100g	200g	300g	1000g	2000g	3000g
Power Consumption	120VAC adapter, approx. 11VA (240VAC Adaptor special order)					
Warranty	Five-year limited warranty					

^ Weighing Chamber

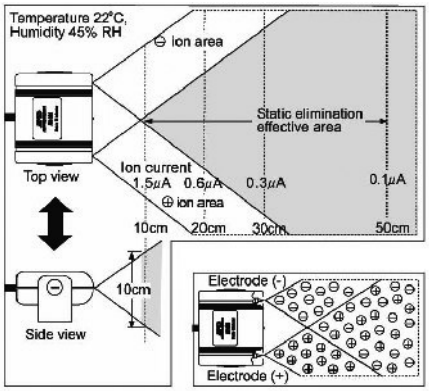
A & D Weighing

AD-1683

Static Eliminator



(Below) Example of AD-1683 installation showing static elimination area and an example of ion generation



STANDARD FEATURES

- Can be easily and safely installed because they require no high-voltage wiring
- Being of a DC type, this static eliminator has a remarkable ability for generating ions and can be used for elimination of static charges from quickly running or highly electrified work pieces
- Little or no reverse charge is induced by irradiated ions because of its excellent ion polarity or the potential of the charged object
- Achieves static elimination with a huge degree or efficiency regardless of the polarity or the potential of the charged object
- Suited for static elimination in narrow and remote places because of its lengthy ion irradiation distance
- Produces only a little amount of ozone thanks to its high ion generation efficiency
- A current limiting circuit is incorporated in the ion generating electrode to reduce the possibility of electric shock
- Being of a DC type, this static eliminator, unlike PULSE-DC, involves no swing in surface potential of the charged object

SPECIFICATIONS

AD-1683	
Part Number	**97610**
List Price	**$1,095.00**
Elimination Range	Distance: 10cm to 30cm from the electrode AREA: 30x30cm
Static elimination method	DC corona discharge DUAL-DC
Static eliminating electrode	Tungsten emitter
Environmental conditions	-5 to +40°C, 35% to 85%RH (non-condensing)
Weight	300g
Power	100-240 VAC, 50/60 Hz, 1.5VA
Warranty	One-year limited

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Notes

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RICE LAKE WEIGHING SYSTEMS

EJ

Newton Series

Capacity: 120g-6100g Readability: 0.01g-0.1g



EJ 200

STANDARD FEATURES

- Easy to read 7 segment LCD display with backlight
- 10 units of measurement
- Battery operated (4 x AA not included)
- Selectable modes: weight, count, percentage and specific gravity
- 115 VAC adapter included (230 VAC optional)



EJ 2000

Optional Features

- USB interface with cable
- RS-232 interface with cable
- Under hook for capacities larger than EJ-1500
- Breeze break
- Carrying case
- Density determination kit

SPECIFICATIONS

	EJ-120	EJ-200	EJ-300	EN-410	EJ-610
Part Number	**112410**	**112411**	**112412**	**112413**	**112414**
List Price	**$255.00**	**$285.00**	**$350.00**	**$390.00**	**$490.00**
Capacity g	120	210	310	410	610
Resolution g	0.01	0.01	0.01	0.01	0.01
Decimal Ounce (lb oz)	4.233x0.001	7.408x0.001	10.935x0.001	14.462x0.001	21.517x0.001
Decimal Pound (lb)	N/A	N/A	N/A	0.9039x0.0001	1.3448x0.0001
Troy Ounce (ozt)	3.858x0.001	6.752x0.001	9.967x0.001	13.182x0.001	19.612x0.001
Pennyweight (dwt)	77.16x0.01	135.03x0.01	199.33x0.01	263.64x0.01	392.24x0.01
Carat (ct)	600.00x0.05	1050.00x0.05	1550.00x0.05	2050.0x0.05	3050.0x0.05
Momme (mom)	32.000x0.005	56.000x0.005	82.665x0.005	109.335x0.005	162.665x0.05
Grain Unit (GN)	1851.8x0.2	3240.8x0.2	4784.0x0.2	6327.2x0.2	9413.8x0.2
Tael (H.K General) (tl)	3.1745x0.0005	5.5555x0.0005	8.2010x0.0005	10.8465x0.0005	16.1380x0.0005
tola	10.288x0.001	18.004x0.001	26.578x0.001	35.151x0.001	52.299x0.001
Operating Modes	Specific Gravity function, Counting. Percentage, Checkweighing				
Repeatability	0.01 g				
Linearity	±0.01 g		±0.02 g		
Sensitivity Drift	20ppm/C(10C~30C/50F~86F)				
Display Type	7 segment LCD with backlight (character height 16mm)				
Operating Temperature	-10C~40C/14F~104F, less than 85% R.H. (non-condensing)				
Pan size (W) x (D)	Ø110mm/4.3inches				
Physical Dimensions	190(W) x 218(D) x 55(H) mm (7.5(W) x 8.6(D) x 2.2(H) in)				
Weight (approx.)	850 g				
Calibration Mass (default setting)	100g	200 g	300 g	400 g	600 g
Power	120VAC adapter (4 “”AA” size dry-cell batteries - 70 hours operation)				
Warranty	Five-year limited warranty				

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EJ

Newton Series

Options/Accessories

PART #	A&D MODEL #	DESCRIPTION	PRICE
112426	EJ-02	USB interface with cable	$79.00
112427	EJ-03	RS-232 interface with cable	69.00
112428	EJ-07	Under hook for EJ-3000, EJ-4100 and EJ-6100	59.00
112429	EJ-08	Under hook for EJ-1500 and EJ-2000	59.00
112430	EJ-11	Breeze break	59.00
112431	EJ-12	Carrying case	59.00
112432	EJ-13	Density determination kit	69.00

SPECIFICATIONS

	EJ-1500	EJ-2000	EJ-3000	EJ-4100	EJ-6100
Part Number	**112415**	**112416**	**112417**	**112418**	**112419**
List Price	**$260.00**	**$300.00**	**$360.00**	**$415.00**	**$445.00**
Capacity g	1500	2100	3100	4100	6100
Resolution g	0.1	0.1	0.1	0.1	0.1
Decimal Ounce (lb oz)	52.91x0.01	74.08x0.01	109.35x0.01	144.62x0.01	215.17x0.01
Decimal Pound (lb)	3.307x0.001	4.630x0.001	6.834x0.001	9.039x0.001	13.4488x0.001
Troy Ounce (ozt)	48.23x0.01	67.52x0.01	99.67x0.01	131.82x0.01	196.12x0.01
Pennyweight (dwt)	964.5x0.1	1350.3x0.1	1993.3x0.1	2636.4x0.1	3922.4x0.1
Carat (ct)	—	—	—	—	—
Momme (mom)	4000.00x0.05	560.00x0.05	826.65x0.05	1093.35x0.05	1626.65x0.05
Grain Unit (GN)	23148x2	32408x2	47840x2	63272X2	94138x2
Tael (H.K General) (tl)	39.685x0.005	55.555x0.005	82.01x0.005	108.465x0.005	161.380x0.005
tola	128.6x0.01	180.040.01	265.78x0.01	351.51x0.01	522.99x0.01
Operating Modes	Specific Gravity function, Counting. Percentage, Checkweighing				
Repeatability	0.1 g				
Linearity	±0.1 g		±0.2 g		
Sensitivity Drift	20ppm/C (10C~30C/50F~86F)				
Display Type	7 segment LCD with backlight (character height 16mm)				
Operating Temperature	-10C~40C/14F~104F, less than 85% R.H. (non-condensing)				
Pan size (W) x (D)	127 x 140 mm				
Physical Dimensions	190(W) x 218(D) x 55(H) mm (7.5(W) x 8.6(D) x 2.2(H) in)				
Weight (approx.)	1100 g				
Calibration Mass (default setting)	1500 g	2000 g	3000 g	4000 g	6000 g
Power	120VAC adapter (4 “”AA” size dry-cell batteries - 70 hours operation)				
Warranty	Five-year limited warranty				

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EK-i Series

Compact Balances

Capacity: 120g-12,000g Readability: 0.01g-1g



STANDARD FEATURES

- Backlit weight display
- Remote zeroing
- Easy to install NiCd battery option
- Nine weighing modes
- RS-232C bidirectional interface

SPECIFICATIONS

		EK-120i	EK-200i	EK-300i	EK-410i	EK-610i	EK-600i	EK-1200i
	Part Number	97747	97748	97749	97750	97751	—	—
	List Price	$495	$510	$540	$615	$715	—	—
NTEP	Part Number	—	—	—	—	—	97752	97753
NTEP	List Price	—	—	—	—	—	$490	$500
	Capacity g	120	200	300	400	600	600	1200
	Resolution g	0.01	0.01	0.01	0.01	0.01	0.1	0.1
UNIT OF MEASURE	Decimal Ounce (lb oz)	4.2330x0.0005	7.0550x0.0005	10.5820x0.0005	14.110x0.001	21.164x0.001	21.165x0.005	42.330x0.005
UNIT OF MEASURE	Decimal Pound (lb)	-	-	-	0.8818x0.0001	1.3228x0.0001	1.3230x0.0005	2.6455x0.0005
UNIT OF MEASURE	Troy Ounce (ozt)	3.8580x0.0005	6.4300x0.0005	9.6450x0.0005	12.860x0.001	19.290x0.001	19.290x0.005	38.580x0.005
UNIT OF MEASURE	Pennyweight (dwt)	77.16x0.01	128.60x0.01	192.90x0.01	257.21x0.01	385.81x0.01	385.8x0.1	771.6x0.1
UNIT OF MEASURE	Carat (ct)	600.00x0.05	1000.00x0.05	1500.00x0.05	2000.0x0.1	3000.0x0.1	3000.0x0.5	6000.0x0.5
UNIT OF MEASURE	Momme (mom)	32.000x0.005	53.335x0.005	80.000x0.005	106.665x0.005	160.000x0.005	160.00x0.05	320.00x0.05
UNIT OF MEASURE	Grain Unit (GN)	1851.8x0.2	3086.4x0.2	4629.8x0.2	6173.0x0.2	9259.4x0.2	92594x2	18518x2
UNIT OF MEASURE	Tael (H.K General) (tl)	3.1745x0.0005	5.2910x0.0005	7.9365x0.0005	10.5820x0.0005	15.8735x0.0005	15.875x0.005	31.745x0.005
	Operating Modes	counting, percentage						
	Repeatability	0.01 g					0.1 g	
	Linearity	±0.01 g		±0.02 g			±0.1 g	
	Sensitivity Drift	20ppm/C(10C~30C/50F~86F)						
	Display Type	7 segment LCD with backlight (character height 16mm)						
	Operating Temperature	-10C~40C/14F~104F, less than 85% R.H. (non-condensing)						
	Pan size (W) x (D)	Ø110mm/4.3inches					133 x 170mm/5.2 x 6.7in	
	Physical Dimensions	190(W) x 218(D) x 55(H) mm (7.5(W) x 8.6(D) x 2.2(H) in)						
	Weight (approx.)	2.4lb (1.1 kg)					3.5 lb (1.5 kg)	
	Calibration Mass (default setting)	120g	200 g	300 g	400 g	600 g	600 g	1200 g
	Power	120VAC adapter (Optional Ni-MH battery pack)						
	Warranty	Five-year limited warranty						

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EK-i Series

Compact Balances

Options/Accessories

PART #	A&D MODEL #	DESCRIPTION	PRICE
97760	EKW-041	Comparator/relay outputs/buzzer	$129.00
97761	EKW-07i	Under hook for EK-4100i/6100i/6000i/12Ki/EW-12Ki	39.00
97762	EKW-09i	NiCd battery pack	140.00
97763	EKW-29	Bluetooth®, factory installed, 30 ft maximum	299.00
97764	AX:3005824-5S	Protective cover	11.00
97765	CC:106	Carrying case	59.00
97605	AD-100-2	Anti-theft device	54.00
97766	TB:163	AC adapter (120V)	39.00
97767	TB:164	AC adapter (240V)	49.00

Bluetooth is a registered trademark of Bluetooth SIG

SPECIFICATIONS

		EK-2000i	EK-3000i	EK-4100i	EK-6100i	EK-6000i*	EK-12Ki*
	Part Number	**97754**	**97755**	**97756**	**97757**	—	—
	List Price	**$540**	**$565**	**$690**	**$845**	—	—
NTEP	**Part Number**	—	—	—	—	**97758**	**97759**
NTEP	**List Price**	—	—	—	—	**$540**	**$685**
	Capacity g	2000	3000	4000	6000	6000	12000
	Resolution g	0.1	0.1	0.1	0.1	1	1
UNIT OF MEASURE	Decimal Ounce (lb oz)	70.550x0.005	105.820x0.005	141.10x0.01	211.64x0.01	211.65x0.05	423.30x0.05
UNIT OF MEASURE	Decimal Pound (lb)	4.4090x0.0005	6.6140x0.0005	8.818x0.001	13.228x0.001	13.230x0.005	26.455x0.005
UNIT OF MEASURE	Troy Ounce (ozt)	64.300x0.005	96.450x0.005	128.60x0.01	192.90x0.01	192.90x0.05	385.80x0.05
UNIT OF MEASURE	Pennyweight (dwt)	1286.0x0.1	1929.0x0.1	2572.1x0.1	3858.1x0.1	3858x1	7716x1
UNIT OF MEASURE	Carat (ct)	10000.0x0.5	15000.0x0.5	20000x1	30000x1	-	-
UNIT OF MEASURE	Momme (mom)	533.35x0.05	800.00x0.05	1066.65x0.05	1600.00x0.05	1600.0x0.5	3200.0x0.5
UNIT OF MEASURE	Grain Unit (GN)	30864x2	46298x2	61730x2	92594x2	-	-
UNIT OF MEASURE	Tael (H.K General) (tl)	52.910x0.005	79.365x0.005	105.820x0.005	158.735x0.005	158.75x0.05	317.45x0.05
	Operating Modes	counting, percentage					
	Repeatability	0.1 g				1 g	
	Linearity	±0.1 g	±0.2 g			±1 g	
	Sensitivity Drift	20ppm/C(10C~30C/50F~86F)					
	Display Type	7 segment LCD with backlight (character height 16mm)					
	Operating Temperature	-10C~40C/14F~104F, less than 85% R.H. (non-condensing)					
	Pan size (W) x (D)	133 x 170mm/5.2 x 6.7in					
	Physical Dimensions	190(W) x 218(D) x 55(H) mm (7.5(W) x 8.6(D) x 2.2(H) in)					
	Weight (approx.)	3.5 lb (1.5 kg)					
	Calibration Mass (default setting)	2000 g	3000 g	4000 g	6000 g		12 kg
	Power	120VAC adapter (Optional Ni-MH battery pack)					
	Warranty	Five-year limited warranty					

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EW-i Series

Compact Balances

Capacity: 30g-12,000g Readability: 0.01g-5g



STANDARD FEATURES

- Backlit weight display
- Remote zeroing
- Easy to install NiCd battery option
- RS-232C bidirectional interface
- Counting/Percentage/Comparator Modes
- Triple Range

SPECIFICATIONS

		EW-150i			EW-1500i			EW-12Ki		
	Part Number	**97768**			—	—	—	—	—	—
	List Price	**$395**			—	—	—	—	—	—
NTEP	**Part Number**	—	—	—	**97769**			—	**97771**	
NTEP	**List Price**	—	—	—	**$395**			—	**$395**	
	Capacity (g)	30	60	150	300	600	1500	3000	6000	12000
	Resolution (g)	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5
UNIT OF MEASURE	Decimal Ounce (lb oz)	1.0580x0.0005	2.116x0.001	5.292x0.002	10.580x0.005	21.16x0.01	52.92x0.02	105.80x0.05	211.6x0.1	423.2x0.2
UNIT OF MEASURE	Decimal Pound (lb)	—	—	—	0.6615x0.0005	1.323x0.001	3.306x0.002	6.615x0.005	13.23x0.01	26.46x0.02
UNIT OF MEASURE	Troy Ounce (ozt)	0.9645x0.0005	1.929x0.001	4.822x0.002	9.645x0.005	19.29x0.01	48.22x0.02	96.45x0.05	192.9x0.1	385.8x0.2
UNIT OF MEASURE	Pennyweight (dwt)	19.29x0.01	38.58x0.02	96.45x0.05	192.9x0.1	385.8x0.2	964.5x0.5	1929x1	3858x2	7715x5
UNIT OF MEASURE	Carat (ct)	150.00x0.05	300.0x0.1	750.0x0.2	1500.0x0.5	3000x1	7500x2	—	—	—
UNIT OF MEASURE	Momme (mom)	8.000x0.005	16.00x0.01	40.00x0.02	80.00x0.05	160.0x0.1	400x0.2	800x0.5	1600x1	3200x2
UNIT OF MEASURE	Grain Unit (GN)	463.0x0.2	926.0x0.5	2315x1	4630x2	9260x5	23150x10	—	—	—
UNIT OF MEASURE	Tael (H.K General) (tl)	0.7935x0.0005	1.587x0.001	3.968x0.002	7.935x0.005	15.87x0.01	39.68x0.02	79.35x0.05	158.7x0.1	317.4x0.2
	Operating Mode	counting, percentage								
	Repeatability	0.01 g	0.02 g	0.05 g	0.1 g	0.2 g	0.5 g	1 g	2 g	5 g
	Linearity	±0.01 g	±0.02 g	±0.05 g	±0.1 g	±0.2 g	±0.5 g	±1 g	±2 g	±5 g
	Sensitivity Drift	20ppm/C(10C~30C/50F~86F)								
	Operating temperature	14 deg F - 104 deg F (10 deg C - 40 deg C), –10C~40C/14F~104F, less than 85% R.H. (non-condensing)								
	Pan size	Ø110mm/4.3inches			133x170 mm/5.2x6.7 in					
	Dimensions	190(W) x 218(D) x 55(H) mm (7.5(W) x 8.6(D) x 2.2(H) in)								
	Weight	2.4 lb (1.1 kg)			3.5lb (1.5 kg)					
	Calibration Mass (default setting)	150 g			1500 g			12 kg		
	Power	AC adapter or Ni-MH battery pack (option)								
	Warranty	Five-year limited warranty								

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EW-i Series

Compact Balances

Options/Accessories

PART #	A&D MODEL #	DESCRIPTION	PRICE
97760	EKW-04i	Comparator/relay outputs/buzzer	$129.00
97761	EKW-07i	Under hook for EK-4100i/6100i/6000i/12Ki/EW-12Ki	39.00
97762	EKW-09i	NiCd battery pack	140.00
97763	EKW-29	Bluetooth®, factory installed, 30 ft maximum	299.00
97764	AX:3005824-5S	Protective in-use cover	11.00
97765	CC:106	Carrying case	59.00
97605	AD-100-2	Anti-theft device	54.00
97766	TB:163	AC adapter (120V)	39.00
97767	TB:164	AC adapter (240V)	49.00

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GX-K Series

Precision Balances

Capacity: 8100g-31,000g Readability: 0.01g-1g



STANDARD FEATURES

- Internal calibration
- Auto environmental compensation
- IP65/NEMA4
- RS-232C bidirectional interface
- Data memory function
- Multiple weighing modes
- Quick reference operation card
- Time and date
- Vacuum Fluorescent Display (VFD)
- Under hook weighing

SPECIFICATIONS

	GX-8K	GX-8K2	GX-10K	GX-12K
Part Number	**97775**	**97776**	**97777**	**97778**
List Price	**$2,725.00**	**$3,145.00**	**$3,355.00**	**$2,830.00**
Capacity (kg)	8.1 kg	8.1 kg/2.1kg	10.1 kg	12 kg
Resolution (g)	0.01	0.1g / 0.01g	0.01	0.1
UNIT OF MEASURE: Decimal ounces (oz)	285.7190 x 0.0005	285.720 x 0.005/74.0755 x 0.0005	370.4 x 0.0005	423.290 x 0.005
Troy ounce (ozt)	260.4210 x 0.0005	260.420 x 0.005 / 67.5165 x 0.0005	337.6 x 0.0005	385.810 x 0.005
Pennyweight dwt)	5208.42 x 0.01	5208.4 x 0.1 / 1350.33 x 0.01	6751 x 0.01	7716.2 x 0.1
Carat (ct)	40500.00 x 0.05	40500.0 x 0.5/ 10500.00 x 0.05	50500 x 0.05	60000 x 0.5
Momme (mom)	2160.000 x 0.005	2160.00 x 0.05/ 560.000 x 0.005	2800.000 x 0.005	3200.00 x 0.05
Grain (GN)	125002.2 x 0.2	125002 x 2/ 32408.0 x 0.2	162040 x 0.2	185188x2
Pound (lb)	17.85745 x 0.00005	17.8575 X 0.0005/ 4.62970 X 0.00005	23.15 x 0.00005	26.4555 X 0.0005
Pound/ounce (lb/oz)	17 13.719 x 0.001	17 13.72 x 0.01/ 4 10.075 x 0.001	23 2.4 x 0.001	26 7.29 x 0.01
Operating Modes	counting, percentage			
Repeatability	0.01 g	0.05 g/0.01 g	0.01g	0.1 g
Linearity	±0.02 g	±0.1 g / ±0.02 g	±0.03 g	±0.2 g
Sensitivity drift (-10 to +30 degrees C)	±2 ppm / degree C	±3 ppm / degree C	±2 ppm / degree C	±3 ppm / degree C
Stabilization time	Approx 1.5 seconds			
Operating temperature	41 deg F - 104 deg F (-5 deg C - 40 deg C)			
Pan size	10.62 in x 8.26 in (270 mm x 210 mm)			
Dimensions	11.81 in x 13.98 in x 4.37 in (300 mm x 355 mm x 111 mm)			
Weight	18.3 lb (8.3 kg)			
External cal mass	2, 3, 4, 5, 6, 7, 8 kg		10 kg	5, 10 kg
Power	120VAC adapter (240VAC by special order)			
Warranty	Five-year limited warranty			

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GX-K Series

Precision Balances

Options/Accessories

PART #	A&D MODEL #	DESCRIPTION	PRICE
97782	GX-04K*	Comparator/output & RS-232C/20mA interface	$299.00
97783	GX-06K*	Analog output/20mA interface	695.00
97784	GX-07K**	Waterproof cable for standard RS-232C	275.00
97605	AD-100-2	Anti-theft device	54.00
97785	AX-073007197A	Protective in-use cover	17.00
97649	TB:110C	AC adapter (120V)	39.00
97631	TB:123	AC adapter (240V)	49.00
102898	GXK-31	Draft shield	99.00
102899	GXK-12	Animal weighing pan	595.00

**GX-04K, GX-06K, replace standard RS-232C and cannot be used at the same time. IP-65 rating does not apply when the GX-04K or the GX-06K is installed.*
***Use the GX-07K optional waterproof RS-232C cable, in order to use the standard RS-232 interface for water and dust proof (IP65)*
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SPECIFICATIONS

	GX-20K	GX-30K	GX-32K
Part Number	**97779**	**97780**	**97781**
List Price	**$3,040.00**	**$3,565.00**	**$2,725.00**
Capacity (kg)	21 kg	31 kg	31 kg / 6.1kg
Resolution (g)	0.1	0.1	1/0.1
UNIT OF MEASURE: Decimal ounces (oz)	740.755 x 0.005	1093.495 x 0.005	1093.50 x 0.05/ 215.170 x 0.005
Troy ounce (ozt)	675.165 x 0.005	996.675 x 0.005	996.65 x 0.05/ 196.120 x 0.005
Pennyweight dwt)	13503.3 x 0.1	19933.5 x 0.1	19933 x 1/ 3922.4 x 0.1
Carat (ct)	105000.0 x 0.5	155000.0 x 0.5	155000 x 5/ 30500.0 x 0.5
Momme (mom)	5600.00 x 0.05	8266.65 x 0.05	8266.5 x 0.5/ 1626.65 x 0.05
Grain (GN)	324080 x 2	478404 x 2	—
Pound (lb)	46.2970 X 0.0005	68.3435 X 0.0005	68.345 X 0.005/ 13.4480 X 0.0005
Pound/ounce (lb/oz)	46 4.75 x 0.010	68 5.49 x 0.01	68 5.5 x 0.1/ 13 7.17 x 0.01
Operating Modes	counting, percentage		
Repeatability	0.1g	0.1g	0.5g / 0.1g
Linearity	±0.2g	±0.2g	±1g / ±0.2g
Sensitivity drift	±3 ppm / degree C		±5ppm / degree C
(-10 to +30 degrees C)			
Stabilization time	Approx 1.5 seconds		
Operating temperature	41 deg F - 104 deg F (-5 deg C - 40 deg C)		
Pan size	10.62 in x 8.26 in (270 mm x 210 mm)		
Dimensions	11.81 in x 13.98 in x 4.37 in (300 mm x 355 mm x 111 mm)		
Weight	18.3 lb (8.3 kg)		
External cal mass	10, 20kg	20, 30kg	20, 30kg
Power	120VAC adapter (240VAC by special order)		
Warranty	Five-year limited warranty		

A & D Weighing

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GF-K Series

Precision Balances

Capacity: 8100g-31,000g Readability: 0.01g-1g



STANDARD FEATURES

- IP65/NEMA4
- RS-232C bidirectional interface
- Multiple weighing modes
- Quick reference operation card
- Time and date
- Vacuum fluorescent display (VFD)
- Interval time setting
- Under hook weighing

SPECIFICATIONS

	GF-8K	GF-8K2	GF-10K	GF-12K
Part number	**97792**	**97793**	**97794**	**97795**
List Price	**$2,515.00**	**$2,935.00**	**$3,145.00**	**$2,620.00**
Capacity (kg)	8.1	2.1 / 8.1	10.1	12
Resolution (g)	0.01g	0.1 / 0.01g	0.01g	0.1g
UNIT OF MEASURE: Decimal ounces (oz)	285.7190 x 0.0005	285.720 x 0.005/74.0755 x 0.0005	370.4 x 0.0005	423.290 x 0.005
Troy ounce (ozt)	260.4210 x 0.0005	260.420 x 0.005 / 67.5165 x 0.0005	337.6 x 0.0005	385.810 x 0.005
Pennyweight dwt)	5208.42 x 0.01	5208.4 x 0.1 / 1350.33 x 0.01	6751 x 0.01	7716.2 x 0.1
Carat (ct)	40500.00 x 0.05	40500.0 x 0.5/ 10500.00 x 0.05	50500 x 0.05	60000 x 0.5
Momme (mom)	2160.000 x 0.005	2160.00 x 0.05/ 560.000 x 0.005	2800.000 x 0.005	3200.00 x 0.05
Grain (GN)	125002.2 x 0.2	125002 x 2/ 32408.0 x 0.2	162040 x 0.2	185188x2
Pound (lb)	17.85745 x 0.00005	17.8575 x 0.0005/ 4.62970 x 0.00005	23.15 x 0.00005	26.4555 x 0.0005
Pound/ounce (lb/oz)	17 13.719 x 0.001	17 13.72 x 0.01/ 4 10.075 x 0.001	23 2.4 x 0.001	26 7.29 x 0.01
Operating Modes	counting, percentage			
Linearity	±0.02g	±0.1g / ±0.02g	±0.03g	±0.2g
Stabilization time	Approx. 1.5 seconds (typical in FAST mode)			
Repeatability	0.01g	0.05g / 0.01g	0.01g	0.1g
Sensitivity Drift (10 to 30°C)	±2ppm / degree C	±3ppm / degree C	±2ppm / degree C	±3ppm / degree C
Display refresh	5 times per second / 10 times per second			
Operating Temperature	5°C 40°C / 41°F 104°F RH less than 85% (No condensation)			
Pan size	Stainless steel 270(W)mm x 210(D)mm (10.62 x 8.26 in)			
Dimensions	300(W)mm x 355(D)mm x 111(H)mm (11.81 x 13.98 x 4.37 in)			
Weight	18.3lb /8.3kg			
External Cal. Mass	2, 3, 4, 5, 6, 7, 8kg		10kg	5, 10kg
Power	120VAC adapter (240VAC adapter by special order)			
Warranty	Five- year limited warranty			

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GF-K Series

Precision Balances

Options/Accessories

PART #	A&D MODEL #	DESCRIPTION	PRICE
97782	GX-04K*	Comparator/output & RS-232C/20mA interface	$299.00
97783	GX-06K*	Analog output/20mA interface	695.00
97784	GX-07K**	Waterproof cable for standard RS-232C	275.00
97701	GX-29	Bluetooth®, factory installed, 30 ft maximum	349.00
97605	AD-100-2	Anti-theft device	54.00
97785	AX:073007197A	Protective in-use cover	17.00
97649	TB:110C	AC adapter (120V)	39.00
97631	TB:123	AC adapter (240V)	49.00
102898	GXK-31	Draft shield	99.00
102899	GXK-12	Animal weighing pan	595.00

**GX-04K, GX-06K, replace standard RS-232C and cannot be used at the same time. IP-65 rating does not apply when the GX-04K or the GX-06K is installed.*
***Use the GX-07K optional waterproof RS-232C cable, in order to use the standard RS-232 interface for water and dust proof (IP65)*
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SPECIFICATIONS

	GF-20K	GF-30K	GF-32K
Part number	**97796**	**97797**	**97798**
List Price	**$2,830.00**	**$3,355.00**	**$2,515.00**
Capacity (kg)	21	31	6.1 / 31
Resolution (g)	0.1g	0.1g	0.1 / 1g
UNIT OF MEASURE: Decimal ounces (oz)	740.755 x 0.005	1093.495 x 0.005	1093.50 x 0.05/ 215.170 x 0.005
Troy ounce (ozt)	675.165 x 0.005	996.675 x 0.005	996.65 x 0.05/ 196.120 x 0.005
Pennyweight dwt)	13503.3 x 0.1	19933.5 x 0.1	19933 x 1/ 3922.4 x 0.1
Carat (ct)	105000.0 x 0.5	155000.0 x 0.5	155000 x 5/ 30500.0 x 0.5
Momme (mom)	5600.00 x 0.05	8266.65 x 0.05	8266.5 x 0.5/ 1626.65 x 0.05
Grain (GN)	324080 x 2	478404 x 2	N/A
Pound (lb)	46.2970 x 0.0005	68.3435 x 0.0005	68.345 x 0.005/ 13.4480 x 0.0005
Pound/ounce (lb/oz)	46 4.75 x 0.010	68 5.49 x 0.01	68 5.5 x 0.1/ 13 7.17 x 0.01
Operating Modes	counting, percentage		
Linearity	±0.2g		±1g / 0.2g
Stabilization time	Approx. 1.5 seconds (typical in FAST mode)		
Repeatability	0.1g		0.5g / 0.1g
Sensitivity Drift (10 to 30°C)	±3ppm / degree C		±5ppm / degree C
Display refresh	5 times per second / 10 times per second		
Operating Temperature	5°C 40°C / 41°F 104°F RH less than 85% (No condensation)		
Pan size	Stainless steel 270(W)mm x 210(D)mm (10.62 x 8.26 in)		
Dimensions	300(W)mm x 355(D)mm x 111(H)mm (11.81 x 13.98 x 4.37 in)		
Weight	18.3lb /8.3kg		
External Cal. Mass	10, 20kg	20, 30kg	
Power	120VAC adapter (240VAC adapter by special order)		
Warranty	Five- year limited warranty		

A & D Weighing

GP Series

Industrial Balances

Capacity: 12,000g-101,000g Readability: 0.1g-10g



STANDARD FEATURES

- IP65/NEMA4
- Internal calibration weight with manual, interval or auto-environmental compensation
- RS-232C bidirectional interface
- Data-collection software
- Auto re-zero function
- Multiple weighing modes
- Time and date
- Bright blue fluorescent display
- Adjustable swing arm display
- Die cast aluminum body with stainless weighing pan
- Detached digital weight indicator (KS models only)

SPECIFICATIONS

	GP-12K	GP-20K	GP-30K	GP-30KS	GP-32K	GP-32KS	GP-40K
Part Number	**97802**	**97803**	**97805**	**97810**	**97804**	**102901**	**97806**
List Price	**$3,075.00**	**$3,285.00**	**$3,935.00**	**$4,145.00**	**$2,675.00**	**$2,935.00**	**$3,565.00**
Capacity (kg)	12	21	31		31kg/6kg		41
Resolution (g)	0.1	0.1	0.1		1/ 0.1		0.5
UNIT OF MEASURE: Decimal ounces (oz)	423.290 x 0.005	740.755 x 0.005	1093.495 x 0.005		1093.50 x 0.05/ 215.170 x 0.005		1446.24 x 0.02
Troy ounce (ozt)	385.810 x 0.005	675.165 x 0.005	996.675 x 0.005		996.65 x 0.05/ 196.120 x 0.005		1318.18 x 0.02
Pennyweight dwt)	7716.2 x 0.1	13503.3 x 0.1	19933.5 x 0.1		19933 x 1/ 3922.4 x 0.1		26363.5 x 0.5
Carat (ct)	60000 x 0.5	105000.0 x 0.5	155000.0 x 0.5		155000 x 5/ 30500.0 x 0.5		205000 x 5
Momme (mom)	3200.00 x 0.05	5600.00 x 0.05	8266.65 x 0.05		8266.5 x 0.5/ 1626.65 x 0.05		10933.4 x 0.2
Grain (GN)	185188x2	324080 x 2	478404 x 2		—		—
Pound (lb)	26.4555 X 0.0005	46.2970 X 0.0005	68.3435 X 0.0005		68.345 X 0.005/ 13.4480 X 0.0005		90.390 x 0.002
Pound/ounce (lb/oz)	26 7.29 x 0.01	46 4.75 x 0.010	68 5.49 x 0.01		68 5.5 x 0.1/ 13 7.17 x 0.01		90 6.24 X 0.02
Operating Modes	counting, percentage						
Repeatability (g)	0.1	0.1	0.1	—	0.5/ 0.1	—	0.5
Linearity (g)	±0.2	±0.2	±0.2	—	±1 / ±2	—	±1
Sensitivity Drift (-10 to +30 °C)	±3ppm/ °C				±5ppm/ °C		
Stabilization Time	Approx. 1.5 seconds (typical in FAST mode)						
Operating temperature	5°C-40°C / 41°F-104°F, RH less than 85% (No condensation)						
Pan Size	Stainless steel 384mm x 344mm						
Dimensions	372(W) x 615(D) x 130(H) mm (14.6 x 24.2 x 5.1 in)		344 x 442 x 139 mm (13.5 x 17.4 x 5.5 in)		372 (W) x 615 (D) x 130 (H) mm (14.6 x 24.2 x 5.1 in)		
Height with column	652mm						
Weight	Approx 37.4 lb (17kg)						
External Cal Mass	5kg / 10kg	10kg/20kg	20kg/30kg				20/30/40kg
Warranty	Five-year limited warranty						

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GP Series

Industrial Balances

Options/Accessories

PART #	A&D MODEL #	DESCRIPTION	PRICE
97607	AD-1682	Rechargeable battery pack	$465.00
97608	AD-8920	Universal remote display	250.00
97813	GP-04	Comparator output with buzzer	219.00
97814	GP-06	Analog output (replaces standard RS-232C)	695.00
97815	GP-07	GP extension cable (factory installed 120 day lead time)	275.00
97816	GP-20	Under hook GP-12 kg thru 40 kg	149.00
97817	GP-21	Under hook GP-60 kg thru 102 kg	149.00
97818	GP-22	AD-8121B printer support	149.00
97605	AD-100-2	Anti-theft device	54.00
97820	07:3004753	Protective in-use cover	17.00
97613	TB:136	AC adapter (120V) standard with unit	39.00
97614	TB:137	AC adapter (220V)	49.00
97609	AD-8922	Remote controller	550.00
102904	GP-12	Animal weighing pan	1,295.00

SPECIFICATIONS

	GP-60K	GP-60KS	GP-61K	GP-61KS	GP-100K	GP-100KS	GP-102K
Part Number	**97807**	**102902**	**102900**	**102903**	**97808**	**97811**	**97809**
List Price	**$4,405.00**	**$4,615.00**	**$4,775.00**	**$4,930.00**	**$4,775.00**	**$5,035.00**	**$4,250.00**
Capacity (kg)	61		61		101		101kg/61kg
Resolution (g)	1		0.1		1 (kg)		10/1
UNIT OF MEASURE: Decimal ounces (oz)	2151.7 X 0.05		2151.7 X 0.005		3562.65 X 0.05		3562.5/2151.7 X 0.5/0.05
Troy ounce (ozt)	1961.2 X 0.05		1961.2 X 0.005		3247.25 X 0.05		3247/1961.2 X 0.5/0.05
Pennyweight dwt)	39224 X 1		39224 X 0.1		—		—
Carat (ct)	305000 X 5		305000 X 0.5		—		—
Momme (mom)	16266.5 X 0.5		16266.5 X 0.05		26933.5 X 0.5		26935/16266.5 X 5/0.5
Grain (GN)	—		—		—		—
Pound (lb)	134.480 X 0.005		134.480 X 0.0005		222.665 X 0.005		222.65/134.48 X 0.05/0.005
Pound/ounce (lb/oz)	134 7.7 X .01		134 7.7 X .001		222 10.7 X 0.1		222 11/134 7.7 X 0/0.1
Operating Modes	counting, percentage						
Repeatability (g)	0.7	—	0.2	—	1	—	5/1
Linearity (g)	±1	—	±0.5	—	±2	—	±10 / ±2
Sensitivity Drift	±6ppm/ °C						±10ppm/ °C
(-10 to +30 °C)							
Stabilization Time	Approx. 1.5 seconds (typical in FAST mode)						
Operating temperature	5°C-40°C / 41°F-104°F, RH less than 85% (No condensation)						
Pan Size	Stainless steel 384mm x 344mm			—	Stainless steel 386 x 346 mm		
Dimensions	372 (W) x 615 (D) x 130 (H) mm (14.6 x 24.2 x 5.1 in)						
Height with column	652mm						
Weight	Approx 37.4 lb (17kg)			—	18 kg		
External Cal Mass	30/40/50/60kg		20/30/40/50/60kg		60/80/100kg		
Warranty	Five-year limited warranty						

A & D Weighing

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MS-70/MX-50/MF-50 Series

Capacity: 51g-71g Readability: 0.001g-0.0001g



STANDARD FEATURES

- Fast and uniform heating with halogen lamp and uniquely designed (secondary radiation assist) SRA filter
- WinCT® communication tools software
- Sodium tartrate dehydrate is provided as a stable moisture content for accuracy checks of the analyzer
- Five measurement programs: standard, automatic, timer, manual, quick
- Vacuum florescent display (VFD)
- Glass window for heating check and easy cleaning
- Self-check function
- Quick reference card
- Standard bidirectional RS-232C
- GLP/ GMP/GCP/ISO compliant with time/date, ID, calibration data and check record outputs

SPECIFICATIONS

	MS-70	MX-50	MF-50	ML-50
Part Number	**97821**	**97822**	**97823**	**112408**
List Price	**$5,245.00**	**$3,145.00**	**$2,515.00**	**$2,095.00**
Capacity (g)	71	51		
Resolution (g)	0.0001	0.001	0.002	0.005
Moisture Content Display	0.001% / 0.01% / 0.1%	0.01% / 0.1%	0.05% / 0.1% / 1%	0.1%/1%
Moisture Content Accuracy over 1g	0.05%	0.10%	0.20%	0.50%
over 5g	0.01%	0.02%	0.05%	0.10%
Heating Technology	Halogen lamp (straight type, 400 Watt max, 5000 hours			
Drying Temperature	30 ~ 200°C	50 ~ 200°C (1° increment)		
Measurement Program Memories	20 sets		10 sets	5 sets
Data Memory	100		50	30
Measurement Programs	Standard / Automatic / Timer / Manual			
Measurement Modes	Wet base / Dry base / Solid content / Ratio			
Operating Temperature	5 ~ 40°C / 40 ~ 104°F			
Sample Pan Size	Æ85 mm / 2.16”			
Dimensions	215mm(W) x 320mm(D) x 173mm(H)			
	8.46”(W) x 12.6”(D) x 6.8”(H)			
Weight	13 lb (5.9 kg)			
Power	120VAC			
Warranty	Five-year limited warranty			

Options/Accessories

PART #	A&D MODEL #	DESCRIPTION	PRICE
97824	AX-31	Sample pans (washable, 100 each)	$79.00
97825	AX-32-2	Glass fiber sheets (100 each)	49.00
97826	AX-33	Sodium tartrate dehydrate test samples (30 g x 12)68.00	68.00
97827	AX-34	Halogen lamp (replacement)	49.00
97828	AX-35	Pan handles (2 each)	19.00
97829	AX-36	Tweezers (2 each)	12.00
97830	AX-37	Spoons (2 each)	15.00
97831	AX-38	Protective in-use covers (5 each)	34.00
97832	AX-39	Dust cover	12.00
97833	AX-42	WinCT® Moisture (standard for MS-70 & MX-50, option for MF-50)195.00	195.00
97834	AD-1700-20G	Calibration mass (20 g)	48.00
97837	AX-43	Temperature calibrator (MS-70 & MX-50 only)	375.00

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Notes

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RICE LAKE WEIGHING SYSTEMS

Atilon

Analytical Balances

Capacity: 80g-420g Readability: 0.0001g-0.001g



Analytical Balance



Milligram Balance

STANDARD FEATURES

- Advanced microprocessor for reliable weighing results
- Digital filtering and fast stabilization
- Stainless steel weighing platform
- Variety of weighing applications
- Percent weighing for solids, moisture loss, formulation, quality control
- Filtering for unstable ambient conditions
- Net totaling for formulation
- Full range subtractive tare
- Keypad confirmation audio tone
- Multiple units of measure
- Backlit amber Liquid Crystal Display (LCD)
- AC operation (AC adapter included)
- Applications programs for weighing unit toggle, counting, percent weighing, net-total, totalizing, animal weighing, calculation, density determination

SPECIFICATIONS

	ATL-84-I ^	ATL-124-I^	ATL-224-I^	ATL-423-I	ATL-153-I
Part Number	**103035**	**103034**	**103033**	**103036**	**103037**
List Price	**$1,950.00**	**$2,050.00**	**$2,370.00**	**$1,620.00**	**$1,295.00**
Capacity (g)	80g	120g	220g	420g	150g
Resolution (g)	0.0001g	0.0001g	0.0001g	0.001g	0.001g
Weighing Modes	UserDef.,Grams, Kilograms, Carats, Pounds, Ounces, Troy ounces, Hong Kong Taels, Singapore Taels, Grains, Pennyweights, Milligrams, Parts per pound, Chinese taels, Mommes, Austrian carats, Tola, Baht, Mesghal, Tons, Newton				
Operating Modes	Weighing, Unit toggle, Counting, Percent weighing, Net-total, Totalizing, Animal weighing, Calculation, Density determination calculation				
Repeatability	≤ ± 0.0001g	≤ ± 0.0001g	≤ ± 0.0001g	≤ ± 0.001g	≤ ± 0.001g
Linearity (g)	≤ ± 0.0002g	≤ ± 0.0002g	≤ ± 0.0002g	≤ ± 0.002g	≤ ± 0.003g
Stabilization Time	2.5 seconds			1.0 second	1.3 second
Operating Temperature	+10º... +30º C (273....303 K, 50º...86º F)				
Weighing Chamber	170 x 170 x 212mm (6.7x6.7x8.3in)			165mmØ/ 61.5mm	6.5in. Ø/ 2.42in.
Pan size	90mm			115mm (4.53 in) dia	
Dimensions	230 x 330 x 330mm (9.05 x 12.99 x 12.99 in)			230mm x 303mm x 136mm	(9.05in. x 11.93in. x 5.35in.)
Calibration Weight	50g	100g	200g	200g	100g
Est. Ship Weight	12 lb			12lb	11lb
Power	120V adapter, 16VA				
Warranty	Two-year limited warranty				

Options/Accessories

PART #	DESCRIPTION	PRICE
50232	120VAC AC adapter	$80.00

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Atilon

Precision Industrial Balances

Capacity: 820g-8200g Readability: 0.01g-0.1g



STANDARD FEATURES

- Internal motorized calibration
- Advanced microprocessor for reliable weighing results
- Digital filtering and fast stabilization
- Stainless steel weighing platform
- Variety of weighing applications
- Percent weighing for solids, moisture loss, formulation, quality control
- Filtering for unstable ambient conditions
- Net totaling for formulation
- Full range subtractive tare
- Keypad confirmation audio tone
- Multiple units of measure
- Backlit amber Liquid Crystal Display (LCD)
- AC operation (AC adapter included)
- Application programs for weighing unit toggle, counting, percent weighing, net-total, totalizing, animal weighing, calculation, density determination

SPECIFICATIONS

	ATL-4202-I	ATL-2202-I	ATL-822-I	ATL-8201-I
Part Number	**103038**	**103039**	**103040**	**103041**
List Price	**$1,620.00**	**$1,395.00**	**$1,295.00**	**$1,295.00**
Capacity (g)	4200g	2200g	820g	8200g
Resolution (g)	0.01g	0.01g	0.01g	0.1g
Weighing Modes	User defined, Grams, Kilograms, Carats, Pounds, Ounces, Troy Ounces, Hong Kong Taels, Singapore Taels, Pennyweight, milligrams, Chinese Taels, Mommes, Austrian Carats, Tola, Baht, Mesghal, Tons, lb/oz, Newton			
Operating Modes	Unit toggle, counting, percent weighing, net-total, totalizing, animal weighing, density			
Repeatability	≤ ± 0.01g			≤ ± 0.1g
Linearity (g)	≤ ± 0.02g	≤ ± 0.02g	≤ ± 0.03g	≤ ± 0.3g
Stabilization Time	1.1 sec		1.0 sec	
Operating Temperature				
Weighing Chamber	No Chamber			
Pan size	180x180mm (7.09 x7.09in)		115mm Ø 4.53 in. Ø	180mm x 180mm 7.09in. x 7.09in.
Dimensions	230x303x91mm 9.06x11.93x3.58in.		230x303x87mm 9.06x11.93x3.43in.	230mm x 303mm x 91mm 9.05in. x 11.93in. x 3.58in.
Calibration Weight	2000g	2000g	500g	5000g
Est. Ship Weight	12lb		9lb	11lb
Power				
Warranty				
^Weighing Chamber				

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ALC Series

Analytical and Precision Balances

Capacity: 80g-6100g Readability: 0.0001g-0.1g



Analytical series with glass chamber



Precision series with round stainless steel pan

STANDARD FEATURES

- Advanced microprocessor for accurate weighing results
- Digital filtering and fast stabilization
- Large Liquid Crystal Display (LCD)
- Stainless steel weighing platform
- RS-232 bidirectional interface for connection to computer or printer
- Lock-down capability
- Four selectable application programs
- 20 different weighing modes
- Simple “one button” external calibration
- Piece counting (5, 10, 20, 50, 100 selectable reference sampling)
- Percent weighing for solids, moisture loss, formulation, quality control
- Averaging for unstable ambient conditions
- Net totaling for formulation
- User selectable two-unit toggling

SPECIFICATIONS

	ALC-80.4^	ALC-110.4^	ALC-210.4^	ALC-320.3^	ALC-150.3^	ALC-810.2^
Part Number	**92700**	**92701**	**92702**	**92703**	**92704**	**92705**
List Price	**$1,435.00**	**$1,570.00**	**$1,780.00**	**$1,110.00**	**$920.00**	**$865.00**
Capacity (g)	80g	110g	210g	320g	150g	810g
Resolution (g)	0.1mg	0.1mg	0.1mg	0.001g	0.001g	0.01g
Weighing Modes	Grams, Pounds, Pounds:Ounces, Ounces, Grains, Parts per pound, Milligrams, Carats, Pennyweight, Troy ounces, Taiwanese Taels, Hong Kong Taels, Singapore Taels, Chinese Taels, Mommes, Austrian Carats, Tola, Baht, Mesghal					
Operating Modes	Counting, Percent weighing, Unit Toggle, Averaging					
Repeatability (g)	+/- 0.0001g			+/- 0.001g		+/- 0.01g
Linearity (g)	+/- 0.0003g			+/- 0.002g		+/- 0.02g
Stabilization Time	2.5 seconds			2 seconds		2 seconds
Operating Temperature	50F to 86F (10C to 30C)					
Weighing Chamber	147mm x 178mm x 200mm 5.7in x 7in x 7.8in			55mm (2.16”) Height, 140mm (5.5”) dia.		No Weighing Chamber
Pan size	3.14 in			3.95in		4.6in
Dimensions	200 x 270 x 300 mm (7.9 x 10.6 x 11.8 in.)			200 x 270 x 172 mm (7.9 x 10.6 x 4.72 in.)		200 x 270 x 75 mm (7.9 x 10.6 x 2.9 in.)
Est. Ship Weight (lb)	10.8lb			5.3lb		6.4lb
Calibration Weight (g)	50g (E2)	100g (E2)	200g (E2)	200g (F1)	100g (F1)	500g (F1)
Power	120VAC adapter (230V by special order) +15% to 20%, 60hZ					
Warranty	Two-year limited warranty					

^ Weighing Chamber

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ALC Series

Analytical and Precision Balances

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
50233	6971947	120 V adapter (AL series only)	$37.00
70518	6971948	220 V adapter	37.00
93388	LAT-CAB	25 PIN to 9 PIN cable (RS)	39.00
51751	LC-1	Lock down case and padlock	16.80
36803	AC-1	AC adaptor, 120 VAC	21.00

SPECIFICATIONS

	ALC-1100.2^	ALC-2100.2^	ALC-3100.2^	ALC-2100.1^	ALC-4100.1^	ALC-6100.1^
Part Number	**92706**	**92707**	**92708**	**92709**	**92710**	**92711**
List Price	**$920.00**	**$1,000.00**	**$1,110.00**	**$700.00**	**$750.00**	**$810.00**
Capacity (g)	1100g	2100g	3100g	2100g	4100g	6100g
Resolution (g)	0.01g	0.01g	0.01g	0.1g	0.1	0.1
Weighing Modes	Grams, Pounds, Pounds:Ounces, Ounces, Grains, Parts per pound, Milligrams, Carats, Pennyweight, Troy ounces, Taiwanese Taels, Hong Kong Taels, Singapore Taels, Chinese Taels, Mommes, Austrian Carats, Tola, Baht, Mesghal					
Operating Modes	Counting, Percent weighing, Unit Toggle, Averaging					
Repeatability (g)	+/- 0.015g	+/- 0.01g		+/- 0.1g		
Linearity (g)	+/- 0.02g			+/- 0.2g		
Stabilization Time	2 seconds			1.5 Seconds		
Operating Temperature	50F to 86F (10C to 30C)					
Weighing Chamber	No Weighing Chamber					
Pan size	5.9in					
Dimensions	200 x 270 x 75 mm (7.9 x 10.6 x 2.9 in.)					
Est. Ship Weight (lb)	6.4lb					
Calibration Weight (g)	1000g (F1)	2000g (F1)	2000g (F1)	1000g (F2)	2000g (F2)	5000g (F2)
Power	120VAC adapter (230V by special order) +15% to 20%, 60hZ					
Warranty	Two-year limited warranty					

^ Weighing Chamber

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VICON Series

Toploader Balance

Capacity: 120g-10,100g Readability: 0.001g-1g



STANDARD FEATURES

- 15 models (enhanced by four milligram units)
- Protective flip-down and removable plastic cover for shipping protection and stackable storage
- Integrated external calibration weights on models 710 gram capacity and below
- Unique durable design for all applications including: counting, percent weighing, totaling, display hold, specific gravity, mass unit conversion
- 14 mass unit conversions (g, oz, lbs, lbs: oz, dwt, ozt, grains, Newton, carats, taels HK/Taiwan/Singapore/China, user defined)
- Optional RS-232 or USB interface kit (field installable)
- Parts counting with selectable reference sample (1-100)
- 9V battery operation (or included AC adapter) (excluding milligram models)
- External “one button” calibration with three weight options
- Lock down capability
- Under hook included

SPECIFICATIONS

	VIC-123	VIC-303	VIC-2 mg	VIC-4 mg	VIC-212	VIC-412	VIC-612	VIC-511
Part Number	**87569**	**87570**	**87571**	**87572**	**87573**	**87574**	**87575**	**87576**
List Price	**$435.00**	**$525.00**	**$415.00**	**$485.00**	**$299.00**	**$415.00**	**$520.00**	**$187.00**
Capacity (g)	120g	300g	200g	400g	210g	410g	610g	510g
Resolution (g)	0.001g	0.001g	0.005g	0.005g	0.01g	0.01g	0.01g	0.1g
Weighing Modes	Grams, Pounds, Pounds:Ounces, Ounces, Grains, Pennyweights, Newtons, Taiwanese Taels, Hong Kong Taels, Singapore Taels, Chinese Taels, Carats, Troy Ounces, User defined							
Operating Modes	Counting, percent weighing, totaling, display hold, specific gravity, mass unit conversion							
Repeatability	+/- 0.003g		+/- 0.010g		+/- 0.02g			+/- 0.1g
Linearity	+/- 0.004g		+/- 0.010g		+/- 0.03g			+/- 0.2g
Stabilization Time	2.5 seconds				2 seconds			1.5 - 2 seconds
Operating Temperature	50F to 86F (10C to 30C)							
Pan size	97mm (3.8 in.)					140 x 128 mm (5.5 x 5.5 in)		
Dimensions	173 x 249 x 94mm (6.8 x 9.8 x 3.7 in)				173 x 249 x 80mm (6.8 x 9.8 x 3.15 in)			
Weight (Approx.)	2.9 lb							
Est. Ship Weight	4.2 lb				4 lb			
Calibration Weight (g)	20g 50g 100g	50g 100g 200g	50g 100g 200g	50g 100g 200g	50g 100g 200g	50g 100g 200g	50g 100g 200g	50g 100g 200g
Power	120V AC adapter				120V AC adapter or 9V battery			
Warranty	Two-year limited warranty							

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VICON Series

Toploader Balance

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
87584	YADAP-RS	RS-232 kit and cable	$82.00
87585	YADAP-USB	USB kit and cable	82.00
36807	902580.1	Carrying case	72.50
36803	AC-1	AC Adapter (120 VAC)	21.00

SPECIFICATIONS

	VIC-711	VIC-1501	VIC-3101	VIC-5101	VIC-4 kg	VIC-6 kg	VIC-10 kg
Part Number	**87577**	**87578**	**87579**	**87580**	**87581**	**87582**	**87583**
List Price	**$240.00**	**$280.00**	**$385.00**	**$450.00**	**$198.00**	**$240.00**	**$285.00**
Capacity (g)	710g	1500g	3100g	5100g	4100g	6100g	10100g
Resolution (g)	0.1g	0.1g	0.1g	0.1g	1g	1g	1g
Weighing Modes	Grams, Pounds, Pounds:Ounces, Ounces, Grains, Pennyweights, Newtons, Taiwanese Taels, Hong Kong Taels, Singapore Taels, Chinese Taels, Carats, Troy Ounces, User defined						
Operating Modes	Counting, percent weighing, totaling, display hold, specific gravity, mass unit conversion						
Repeatability	+/- 0.1g				+/- 1g		
Linearity	+/- 0.2g				+/- 1g	+/- 2g	
Stabilization Time	1.5 - 2 seconds				1.5 seconds		
Operating Temperature	50F to 86F (10C to 30C)						
Pan size	140 x 128 mm (5.5 x 5.5 in)						
Dimensions	173 x 249 x 80mm (6.8 x 9.8 x 3.15 in)						
Weight (Approx.)	2.9 lb						
Est. Ship Weight	4 lb						
Calibration Weight (g)	50g 100g 200g	200g 500g 1000g	500g 1000g 2000g	1000g 2000g 5000g	500g 1000g 2000g	1000g 2000g 5000g	1000g 2000g 5000g
Power	120V AC adapter or 9V battery						
Warranty	Two-year limited warranty						

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ECON Series

Capacity: 210g-4100g Readability: 0.1g-1g



STANDARD FEATURES

- Unique low-cost design
- Stackability (units can be stacked for safe convenient storage)
- Microprocessor controlled
- Lock down capability
- Five weighing modes; g, oz, lb, ozt, dwt
- 9V battery operation included (optional AC operation)
- Six minute auto off (saves battery life)
- Overload/underload and low battery indicators
- External “one button” digital calibration
- Transportation lock (protects weight cell from damage)
- Backlit LCD/0.35 in (8.89 mm) segment height

SPECIFICATIONS

	EC-211	EC-411	EC-2100	EC-4100
Part Number	**87587**	**87588**	**87589**	**87590**
List Price	**$94.00**	**$120.00**	**$94.00**	**$120.00**
Capacity (g)	210g	410g	2100g	4100
Resolution (g)	0.1g	0.1g	1g	1g
Weighing Modes	Grams. Ounces, Pounds, Troy ounces, Pennyweight			
Repeatability	+/- 0.1g		+/- 1g	
Linearity	+/- 0.2g		+/- 2g	
Stabilization Time	1.5 - 2 seconds			
Operating Temperature	50F to 86F (10C to 30C)			
Pan size	135 mm x 140mm (5.3 x 5.5in)			
Dimensions	159 x 218 x 53mm (6.26 x 8.6 x 2.07in)			
Est. Ship Weight	1.4 lb			
Calibration Weight	200g	200g	2000g	2000g
Power	9V battery (AC adapter optional)			
Warranty	One-year limited			

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
36803	AC-1	Power adapter (120V)21.00	$21.00
51751	LC-1	Lock down cable and padlock16.80	16.80
36807	902580.1	Carrying case72.50	72.50

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Pocket Pro Series

Capacity: 65g-400g Readability: 0.01g-0.1g



STANDARD FEATURES

- Calibration weight and tray included with all models
- Blue back-lit display for easy viewing in all ambient conditions
- Scales weigh in “grams and ounces” (PP-62 features grams, ounces, grains and carats)
- Battery operation (one AA battery included)
- Auto off (saves battery life)
- Overload/underload and low battery indicators
- External “one button” calibration with included weight
- Display 0.35 in (8.89 mm) segment height

SPECIFICATIONS

	PP-62	PP-201	PP-401
Part Number	**87591**	**87592**	**87593**
List Price	**$209.00**	**$72.00**	**$94.00**
Capacity (g)	65g	200g	400g
Resolution (g)	0.01g	0.1g	0.1g
Weighing Modes	Grams Ounces, Grains, Carats	Grams, Ounces	
Repeatability	“+/_0.02g	+/- 0.1g	
Linearity	“+/_0.02g	+/- 0.2g	
Stabilization Time	3 sec	2 sec	
Operating Temperature	50 to 86 deg F (10 to 30 deg C)		
Pan size	73 x 63mm (2.9 x 2.5in)		
Dimensions	74 x 89 x 22mm (2.9 x 3.5 x 0.875in)		
Weight (Approx.)	0.12kg (0.24 lb)		
Est. Ship Weight	1 lb		
Calibration Weight (g)	50	100	200
Power	One AA battery (included)		
Warranty	One-year limited warranty		

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SVI Series

Industrial Precision Scale



Capacity: 10,000g-200,000g Readability: 1g-50g

STANDARD FEATURES

- Remote adjustable blue back-lit display with included bracket for wall mounting
- Stainless steel platform
- 200% overload protection
- Unit toggling
- Parts counting with selectable reference sample
- Optional 9V battery operation (or included AC adapter) reversed voltage
- Auto off feature with three options; four minutes, 10 minutes or “Always on”
- Overload/Underload and low battery indicators
- External “one button” calibration with three weight options
- RS-232 bidirectional interface
- Backlit Liquid Crystal Display (LCD) 0.75 in (19.5 mm) segment height

SPECIFICATIONS

	SVI-10A	Svi-20B	SVI-50C	SVI-100E	SVI-200F
Part Number	**87594**	**87595**	**87596**	**87597**	**87598**
List Price	**$365.00**	**$365.00**	**$365.00**	**$455.00**	**$455.00**
Capacity (kg)	10kg	20kg	50kg	100kg	200kg
Resolution (g)	1g	2g	5g	20g	50g
Decimal pound (lb)	22 x 0.002lb	44 x 0.005lb	110 x 0.01lb	220 x 0.05lb	440 x 0.1lb
Weighing Modes	Grams, kilograms, pounds, troy ounces			Kilograms, Pounds, Troy Ounces	
Operating Modes	Counting, Totaling, Unit Toggle				
Repeatability	+/- 2g	+/- 4g	+/- 10g	+/- 40g	+/- 100g
Linearity	+/- 3g	+/- 6g	+/- 15g	+/- 60g	+/- 150g
Stabilization Time	2 seconds			3 seconds	
Operating Temperature	50 to 104 deg F (10 to 40 deg C)				
Pan size	308 x 308 mm (12 x 12 in)			403 x 520 mm (15.9 x 20.5 in)	
Dimensions	308 x 308 x 63mm (12 x 12 x 2.5in)			403 x 520 x 88mm (15.9 x 20.5 x 3.5in)	
Weight (Approx.)	9.9lb (4.4kg)			35.2lb (16kg)	
Est. Ship Weight	14lb (6.4kg)			43lb (19.2kg)	
Calibration Weight (kg)	2kg 5kg 10kg	5kg 10kg 20kg	5kg 10kg 20kg	5kg 20kg 50kg	5kg 20kg 50kg
Power	9V battery or 120V AC adapter (240V adapter by special order)				
Warranty	Two-year limited warranty				

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
36804	AC-2	220 VAC adapter euro 2-pin	$21.00
36803	AC-1	110 VAC adapter	21.00

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NEW Acculab® Exceleron Series

Industrial Balance

Capacity: 6000g-300,000g Readability: 0.5g-20g



STANDARD FEATURES

- Large back-lit Liquid Crystal Display (LCD)
- Maximum displayed resolution; 1:15000 digits
- 6 key function tactile keyboard
- Stainless steel column
- ABS Industrial Indicator
- Battery operation
- Level indicator
- Leveling feet
- RoHS/Wee compliant
- User-defined calibration weight value

Optional Features

- Casters/wheels available (M12)
- Wall mounting bracket
- Table bracket
- Bidirectional RS-232

SPECIFICATIONS

	ECL16EDP	ECL15EDP	ECL30EDP	ECL60EDP	ECL150FEP	ECL300GFP
Part Number	**107933**	**107934**	**107935**	**107936**	**107937**	**107938**
List Price	**$399.00**	**$399.00**	**$399.00**	**$399.00**	**$529.00**	**$879.00**
Capacity (kg)	6kg	15kg	30kg	60kg	150kg	300kg
Resolution (g)	0.5g	1g	2g	5g	10g	20g
Decimal ounce (oz)	211 x 0.02 oz	529 x 0.05 oz	1058 x 0.1oz	2116 x 0.2 oz	5291 x 0.5 oz	10582 x 1 oz
Decimal pound (lb)	13 x 0.001 lb	33 x 0.002 lb	66 x 0.005 lb	132 x 0.01 lb	330 x 0.02 lb	600 x 0.05 lb
Weighing Modes	grams, kilograms, ounces, pounds					
Operating Modes	Counting, Unit Toggle, Checkweighing					
Repeatability	+/- 1.0g/ 0.002 lb	+/- 2.0g/0.004 lb	+/- 4.0g/0.01lb	+/- 10g/0.02 lb	+/- 20.0g/0.05 lb	+/- 40.0g/0.1 lb
Linearity	+/- 1.0 g/0.005 lb				+/- 20.0g/0.05 lb	+/- 40.0g/0.1 lb
Stabilization Time	Within 3 seconds					
Operating Temperature	('-10º... +40º C) , (14º...104º F)					
Column Height	19.7 in				29.5 in	
Pan size	15.75 x 11.8in				19.7 x 15.75in	25.6 x 19.7in
Dimensions	400.1 x 294.7 x 2.7 mm (15.75 x 11.8 x 5 in)				500.4 x 398.8 x 132.1 mm (19.7 x 15.7 x 5.2 in)	650.2 x 500.4 x 157.5 mm (25.6 x 19.7 x 6.2 in)
Weight (Approx.)	27lbs / 13kg				48lbs / 22kg	84lbs / 38kg
Est. Ship Weight	33lbs / 15kg				55 lb	
Calibration Weight (kg)	2kg	5kg	10kg	20kg	50kg	100kg
Power	6 D-Batteries, 1.5V dry cell; 120V AC adapter (240V AC adaptor by special order)					
Warranty	Two-year limited warranty					

Options/Accessories

PART #	MODEL #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
107933	ECL6EDP	6 kg/13 lb x 0.5 g/0.001 lb	33 lb/15 kg	$399.00
107934	ECL15EDP	15 kg/33 lb x 1.0 g/0.002 lb	33 lb/15 kg	399.00
107935	ECL30EDP	30 kg/66 lb x 2.0 g/0.005 lb	33 lb/15 kg	399.00
107936	ECL60EDP	60 kg/132 lb x 5.0 g/0.01 lb	33 lb/15 kg	399.00
107937	ECL150FEP	150 kg/330 lb x 10.0 g/0.02 lb	55 lb/25 kg	529.00
107938	ECL300GFP	300 kg/660 lb x 20.0 g/0.05 lb	55 lb/25 kg	879.00

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Discovery

Semi-Micro and Analytical Balances

Capacity: 81g-210g Readability: 0.01g-0.1g



STANDARD FEATURES

- Selectable environmental filters
- RS-232 interface with full GLP/GMP protocol
- Easy to clean stainless steel platform
- Windring and glass and steel construction
- Protective in-use cover
- Integral underweigh hook
- Easy to use keypad
- Up-front level indicator
- Stability indicator
- Mechanical and software overload/underload protection
- User selectable span calibration points
- Auto tare, auto shutoffs
- User selectable printing options
- User selectable communications settings
- User definable project and user ID's
- Software reset menu
- Software lockout menu

APPROVALS

SPECIFICATIONS

	DV114C	DV214C	DV314C	DV215CD
Part Number	**96945**	**96947**	**96949**	**96950**
List Price	**$3,590.00**	**$3,890.00**	**$4,490.00**	**$4,990.00**
Capacity (g)	110	210	310	210/81
Resolution (mg)	0.1	0.1	0.1	.01/ 0.01
Weighing Modes	Milligram, Gram, Carat, Ounce, Troy Ounce, Grain, Pennyweight, Momme, Hong Kong Tael, Singapore Tael, Taiwan Tael, Custom			
Operating Modes	Weighing, Counting with automatic sample recalculation, Percent weighing, Checkweighing, animal/dynamic weighing, gross/net/tare weighing, totalization, high point density, statistics, pipette calibration			
Repeatability (mg)	0.1		0.2	0.1/0.02
Linearity (mg)	0.2	0.5	0.2/0.03	
Stabilization Time (sec)	4		8	15/5
Operating Temperature	50° to 104°F / 10° to 40°C			
Pan size	9cm (3.8in)			
Dimensions	20 x 30 x45.7cm (7.9 x 11.8 x 18in)			
Weight (Approx.)	10.2kg (22.5lb)			
Calibration	Automatic internal, Push-button Internal, Manual external			
Power	120 V AC adapter (220-240 VAC adapter by special order) , 50/60 Hz			
Warranty	Two-year limited warranty			

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Discovery

Semi-Micro and Analytical Balances

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
71960	80500571	RS-232 cable, printer	$95.00
67413	SW12W	TAL software WinWedge	275.00
70406	80500525	RS-232 cable, IBM 9-pin	95.00
77712	80500524	RS-232 cable, IBM 25-pin	95.00
67408	77402-00	Density determination kit	959.00
70394	9773-79	Storage cover	45.00
67409	77401-00	Security device	129.00
13064		100 g calibration mass, ASTM Class 1	Consult
13066		200 g calibration mass, ASTM Class 1	Consult
104767	80252042	Dot matrix printer	456.00
104770	80251932	Paper	7.00
104771	80251933	Ink ribbon	25.00

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Pioneer™

Analytical/Precision Balances

Capacity: 65g-4100g Readability: 0.0001g-0.1g



Analytical



Precision

STANDARD FEATURES

- Easy-to-clean analytical draft shield
- Up-front level indicator
- Selectable environment settings
- Flexibility of available options
- Removable doors for easy cleaning and access
- Up-front level bubble for easy reference
- Selectable environmental settings
- Integral underweigh hook
- Standard security bracket
- Standard RS-232C
- Security menu lock
- Multiple application models and units of measure

APPROVALS

CE

SPECIFICATIONS

	PA64^	PA114^	PA214^	PA153	PA313	PA512	PA1502	PA3102	PA4101
Part Number	**102788**	**102789**	**102790**	**103509**	**103510**	**103511**	**103512**	**103513**	**103514**
List Price	**$1820.00**	**$2080.00**	**$2340.00**	**$1090.00**	**$1220.00**	**$910.00**	**$1090.00**	**$1250.00**	**$805.00**
Capacity (g)	65	110	210	150	310	510	1510	3100	4100
Resolution (g)	0.1 MG	0.1 MG	0.1 MG	0.001	0.001	0.01	0.01	0.01	0.1
Weighing Modes	Milligram, Gram, Carat, Ounce, Troy Ounce, Grain, Pennyweight, Momme, Taels, tical, tola, baht, mesghal, Newton								
Operating Modes	Weighing, Parts Counting, Percent								
Repeatability (mg)	0.1			1		10			100
Linearity (g)	0.2 mg		0.3 mg	0.002		0.02			0.1
Stabilization Time	Three seconds								
Operating Temperature	14° to 104°F / 10° to 40°C								
Pan size	90 mm (3.54in)			120mm (4.72in)		180mm (7.1in)			
Dimensions				19.6 x 28.7 x 32 cm (7.7 x 11.3 x 12.6 in)					
Weight (Approx.)	6.9 kg (15.2 lb)								
Calibration Weight (g)				100/150	200/300	200/500	1000/1500	2000/3000	2000/4000
Power	120 VAC adapter (220-240 VAC adapter by special order) , 50/60 Hz								
Warranty	Two-year limited warranty								

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Pioneer™

Analytical/Precision Balances

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
104767		Compact impact printer, 42 column	$456.00
67413	SW12W	TAL software WinWedge®	275.00
104770	80251932	Paper for printer	7.00
104771	80251933	Ribbon for printer	25.00
71960	80500571	RS-232 cable, printer to Pioneer	95.00
70406	80500525	RS-232 cable, PC 9 pin to Pioneer	95.00
77712	80500524	RS232 cable, PC 25 pin to Pioneer	95.00
102798	80850045	Density determination kit for Pioneer analytical balances (0.1 mg and 1 mg)	243.00
35263	76288-01	Security device for pioneer	46.00
102799	128-00	Forceps, 2.75 in (70 mm)	9.00
102800	129-00	Forceps, 3.5 in (89 mm)	9.00
33455	5076-00	Aluminum scoop, 1.5 in x 2 in (3.8 cm x 5.1 cm), weight 4 g	13.00
33456	5077-00	Gold scoop, 2.25 in x 3 in (5.7 cm x 7.6 cm), weight 10 g	12.00
33454	4590-30	Black scoop, aluminum 4 in x 3.5 in (10.2 cm x 8.9 cm), weight 24 g	15.00
33451	3369-10	Polypropylene Maxi-Scoop™ 10 in dia. x 2.5 in deep (25.4 cm dia. x 6.4 cm deep) with pouring spout, weight 145 g	20.00
102801	71147059	Plastic scoop, 1.3 in x 1.5 in x 0.4 in (33 mm x 38 mm x 10 mm) deep with pouring spout, weight 1.2 g	9.00
97250	80250400	Stainless steel scoop 11.9 in x 7.38 in x 1.69 in	35.00
100292	80250954	Stainless steel scoop 17.2 in x 11 in x 3.4 in (44 cm x 28 cm x 8.5 cm)	44.00

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Voyager® Pro

Analytical/Precision Balances

Capacity: 62g-8100g Readability: 0.0001g-0.1g



Analytical



Precision

STANDARD FEATURES

- AutoCal™ automatic internal calibration system
- The most advanced application modes in the industry include: statistics, formulation, differential weighing, statistical QC, density determination and pipette calibration
- Brilliant backlit high resolution dot matrix display with simple navigation windows and menus to guide you through balance functions
- User selectable filter, stability indicator and auto-zero tracking for use in difficult environments
- User selectable GLP/GMP outputs via RS-232 to meet traceability requirements
- Five-language operational display text
- Standard underweigh capability
- Protective in-use cover and security bracket
- Industry leading warranty and support
- NTEP-certified legal-for-trade

APPROVALS

SPECIFICATIONS

		VP64CN^	VP114CN^	VP214CN^	VP214DCN^	VP213CN^	VP413CN^	VP613CN^	VP413DCN^
NTEP	**Part Number**	**83160**	**83161**	**83162**	**83163**	**83184**	**83185**	**83186**	**83187**
	List Price	**$3290.00**	**$3490.00**	**$3790.00**	**$3480.00**	**$2780.00**	**$3080.00**	**$3340.00**	**$2780.00**
	Capacity (g)	62	110	210	210/100	210	410	610	410/100
	Resolution (g)	0.1 mg	0.1 mg	0.1 mg	1/0.1mg	0.001	0.001	0.001	0.01/0.001
	Weighing Modes	Gram, Milligram, Kilogram, Pound, Ounce, troy ounce, carat, pennyweight, Hong Kong tael, Singapore tael, Taiwan tael, Mommes, Grain, Tical, Newton, Custom							
	Operating Modes	Statistics, formulation, Differential weighing, SQC, Density determination, Pipette calibration, Counting, Animal weighing, Checkweighing, Percent weighing, Filling, Gross/net/tare weighing							
	Repeatability (g)	0.1 mg			.1/.5 mg	0.0005		0.0015	0.0005/0.005
	Linearity (g)	0.2 mg			0.2/0.5 mg	0.002			0.002/0.005
	Stabilization Time	Three seconds			Four seconds				
	Operating Temperature	50 to 104 deg F							
	Pan size	3.5 in				12 cm (4.7in)			
	Dimensions	210.8 x 350.5 x 350.5 mm (8.3 x 13.8 x 13.8in)				21 x 35 x 35cm (8.3 x 13.8 x 13.8 in)			
	Weight (Approx.)	6 kg (13.2 lb)				6 kg (13.2 lb)			
	Calibration type	Internal or external							
	Power	120 VAC adapter (240VAC adapter by special order)							
	Warranty	Two-year limited warranty							

^ Weighing Chamber

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Voyager® Pro

Analytical/Precision Balances

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
67422	80850045	Density determination kit (up to 610 g x 1 mg)	$243.00
67423	470004-010	Security devices (up to 8 kg)	110.00
70424	AS017-02	Cable, IBM-PC, 25-pin	98.00
70426	AS017-09	Cable, IBM-PC, 9-pin	95.00
67413	SW12W	WinWedge® TAL software	275.00
67467	490202-01	100-120 VAC adapter	42.00
67669	490203-01	220 VAC adapter	42.00
104767		Impact printer	456.00
71959	500570	Cable for PN 104767	95.00
104770	80251932	Paper for PN 104767	7.00
104771	12101512	Ribbon for PN 104767	25.00
67425	80850042	In-use cover	40.00

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SPECIFICATIONS

NTEP

	VP612CN	VP2102CN	VP4102CN	VP6102CN	VP4102DCN	VP4101CN	VP6101CN	VP8101CN
Part Number	**83188**	**83189**	**83190**	**83191**	**83192**	**83193**	**83194**	**83195**
List Price	**$2695.00**	**$2760.00**	**$3090.00**	**$3340.00**	**$2760.00**	**$2490.00**	**$2690.00**	**$2840.00**
Capacity (g)	610	2100	4100	6100	4100/1000	4100	6100	8100
Resolution (g)	0.01	0.01	0.01	0.01	0.1/0.01	0.1	0.1	0.1
Weighing Modes	Gram, Milligram, Kilogram, Pound, Ounce, troy ounce, carat, pennyweight, Hong Kong tael, Singapore tael, Taiwan tael, Mommes, Grain, Tical, Newton, Custom							
Operating Modes	Statistics, formulation, Differential weighing, SQC, Density determination, Pipette calibration, Counting, Animal weighing, Checkweighing, Percent weighing, Filling, Gross/net/tare weighing							
Repeatability (g)	0.005			0.01	0.01/0.05	0.05		
Linearity (g)	0.02			0.04	0.02/0.05	0.1		
Stabilization Time	Four seconds							
Operating Temperature	50 to 104 deg F							
Pan size	17.2 x 17.2 cm (6.8 x 6.8in)							
Dimensions	21.5 x 10.3 x35cm (8.5 x 4 x 13.8in)							
Weight (Approx.)	5 kg (11 lb)							
Calibration type	Internal or external							
Power	120 VAC adapter (240VAC adapter by special order)							
Warranty	Two-year limited warranty							

^ Weighing Chamber

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Explorer® Pro

Analytical Balances

Capacity: 62g-210g Readability: 0.0001g-0.001g



STANDARD FEATURES

- Automatic calibration via AutoCal™
- Communication RS-232C
- On screen prompts
- Spill channel
- Applications library to store and quickly recall past procedures
- Brilliant backlit high resolution dot matrix display with simple navigation windows and menus to guide you through balance functions
- User selectable GLP outputs via RS-232 to meet traceability requirements
- User selectable filter, stability indicator and auto-zero tracking for use in difficult environments
- Five-language operation display text
- Standard underweigh capability
- Protective in-use cover and security bracket

APPROVALS

Optional Features

- Autocal™ automatic calibration
- NTEP Certified, Legal-for-Trade

SPECIFICATIONS

		EP64^	EP114^	EP214^	EP214D^
	Part Number	**77607**	**77609**	**77613**	**77615**
	List Price	**$2,440.00**	**$2,650.00**	**$3,060.00**	**$2,681.00**
C -AUTO CAL	Part Number	77608	77612	77614	77616
C -AUTO CAL	List Price	$2,790.00	$2,990.00	$3,390.00	$2,980.00
CN - AUTO CAL NTEP	**Part Number**	**83179**	**83180**	**83181**	**83182**
CN - AUTO CAL NTEP	**List Price**	**$2,810.00**	**$3,060.00**	**$3,440.00**	**$3,095.00**
	Capacity (g)	62	110	210	100/210
	Resolution (mg)*	0.1	0.1	0.1	0.1/1
	Weighing Modes	Gram, Milligram, Ounce, Troy ounce, Carat, Pennyweight, Hong Kong			
	Operating Modes	Weighing, Counting, Animal/Dynamic weighing, Checkweighing, Percent weighing, Filing, Gross/net/tare weighing			
	Repeatability (mg)	0.1 (EP214D, EP214DC 0.2/0.5)			
	Linearity (mg)	0.2 (EP214D, EP214DC 0.2/0.5)			
	Stabilization Time	4 seconds			
	Operating Temperature	10 to 30 deg C (50 to 86 deg F); 10 to 40 deg C (50 to 104 deg F models with auto cal			
	Pan size	9cm (3.5 in)			
	Dimensions	21 x 35 x 35cm (8.3 x 13.8 x 13.8in)			
	Weight (Approx.)	6kg (13.2lb)			
	Power	120VAC adapter (240VAC adapter available by special order) 50/60 Hz			
	Warranty	Two-year limited warranty			

**NTEP resolution reduces by one decimal place NTEP CoC 98-053A6, Measurement Canada AM-5288*

^ Weighing Chamber

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Explorer® Pro

Analytical Balances

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
67422	80850045	Density determination kit (up to 610 g x 1 mg)	$243.00
67423	470004-010	Security devices (up to 8 kg)	110.00
70424	AS017-02	Cable, IBM-PC, 25-pin	98.00
70426	AS017-09	Cable, IBM-PC, 9-pin	95.00
67413	SW12W	WinWedge® TAL Software	275.00
67467	490202-01	100-120 VAC adapter	42.00
67669	490203-01	220 VAC adapter	42.00
104767		Impact printer	456.00
71959	80500570	Cable for PN 104767	95.00
104770	80251932	Paper for PN 104767	7.00
104771	12101512	Ribbon for PN 104767	25.00

WinWedge is a registered trademark of TAL Software.

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Explorer® Pro

Precision and High Capacity Balances

Capacity: 210g-32,000g Readability: 0.001g-0.1g



High Capacity Model



Precision Model

STANDARD FEATURES

- Large, high resolution, dot matrix Liquid Crystal Display (LCD) dot matrix display with backlight
- RS-232 with user selectable GLP/GMP outputs including date and time
- User-selectable stability levels, filters, auto-zero tracking and auto-print settings
- Underweigh functions
- Selectable language display text (English, Spanish, French, German, Italian)
- Ergonomic leveling system
- Auxiliary port for connection to remote display
- Protective in-use cover
- Integral security bracket
- 100–120 VAC adapter

SPECIFICATIONS

		EP213^	EP413^	EP613^	EP413D^	EP612	EP2102	EP4102	EP6102
	Part Number	**77617**	**77619**	**77621**	**77623**	**77625**	**77627**	**77629**	**77631**
	List Price	**$1,940.00**	**$2,260.00**	**$2,580.00**	**$1,940.00**	**$1,880.00**	**$1,940.00**	**$2,260.00**	**$2,590.00**
C INT CAL	Part Number	77618	77620	77622	77624	77626	77628	77630	77632
C INT CAL	List Price	$2,290.00	$2,590.00	$2,890.00	$2,260.00	$2,180.00	$2,260.00	$2,570.00	$2,850.00
N-NTEP	**Part Number**	**83199***	**83200***	**83202***	**83201***	—	**83203***	**83204***	**83205***
N-NTEP	**List Price**	**$2,040.00**	**$2,360.00**	**$1,960.00**	**$2,040.00**	—	**$2,040.00**	**$2,360.00**	**$2,670.00**
CN NTEP & INT CAL	Part Number	83210*	83211*	—	83212*	83213*	83215*	83216*	83217*
CN NTEP & INT CAL	List Price	$2,360.00	$2,690.00	—	$2,370.00	$2,990.00	$2,360.00	$2,690.00	$2,990.00
	Capacity (g)	210	410	610	100/410	610	2100	4100	6100
	Resolution (g)	0.001	0.001	0.001	0.001/0.01	0.01	0.01	0.01	0.01
	Weighing Modes	Gram, Milligram, Kilogram, Pound, Ounce, Troy ounce, Carat, Pennyweight, Hong Kong tael, Singapore Tael, Taiwan tael, Mommes, Grain, Tical, Newton, Custom							
	Operating Modes	Weighing, Counting, Animal/Dynamic weighing, Checkweighing, Percent weighing, Filling, Gross/net/tare weighing							
	Repeatability (g)	0.0005		0.0015	0.0005/0.005	0.005			0.01
	Linearity (g)	0.002			0.002/0.005	0.02			0.04
	Stabilization Time	3 seconds							
	Operating Temperature	10 to 30 deg C (50 to 86 deg F) Note: Internal Cal units - 10 to 40 deg C (50 to 104 deg F)							
	Pan size	12 cm (4.7in)				17.2 x 17.2cm(6.8 x 6.8in)			
	Dimensions	21 x 35 x 35cm (8.3 x 13.8 x 13.8in)				21.5 x 10.3 x 35cm (8.5 x 4 x 13.8in)			
	Weight (Approx.)	14 lb							
	Power	120VAC adapter (other adapters available by special order) 50/60 Hz							
	Warranty	Two-year limited warranty							

**NTEP resolution reduces by one decimal place NTEP CoC 98-053A6, Measurement Canada AM-5288*

^ Weighing Chamber

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Explorer® Pro

Precision and High Capacity Balances

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
67422	80850045	Density determination kit (up to 610 g x 1 mg)	$243.00
67434	470008-010	Modular display upgrade kit (up to 8 kg)	615.00
67423	470004-010	Security devices (up to 8 kg)	110.00
70424	AS017-02	Cable, IBM-PC, 25-pin	98.00
70426	AS017-09	Cable, IBM-PC, 9-pin	95.00
67413	SW12W	WinWedge® TAL Software	275.00
67467	490202-01	100–120 VAC adapter	42.00
67669	490203-01	220 VAC adapter	42.00
35263	76288-01	Security device (12, 22 & 32 kg only)	46.00
104767		Impact printer	456.00
71959	80500570	Cable for PN 104767	95.00
104770		Paper for PN 104767	7.00
104771		Ribbon for PN 104767	25.00
67425	80850042	In-use cover	40.00

SPECIFICATIONS

	EP4102D	EP4101	EP6101	EP8101	EP12001	EP22001	EP32001
Part Number	**77633**	**77635**	**77637**	**77639**	**77641**	**77643**	**77645**
List Price	**$1,940.00**	**$1,670.00**	**$1,880.00**	**$2,080.00**	**$3,370.00**	**$3,630.00**	**$3,910.00**
C INT CAL Part Number	77634	77636	77638	77640	77642	77644	77646
C INT CAL List Price	$2,250.00	$1,980.00	$2,180.00	$2,350.00	$3,640.00	$3,910.00	$4,150.00
N-NTEP Part Number	**83206***	**83207***	**83208***	**83209***	—	—	—
N-NTEP List Price	**$2,010.00**	**$1,770.00**	**$1,960.00**	**$2,160.00**	—	—	—
CN NTEP & INT CAL Part Number	83218*	83219*	83220*	83221*	—	—	—
CN NTEP & INT CAL List Price	$2,390.00	$2,090.00	$2,290.00	$2,490.00	—	—	—
Capacity (g)	1000/4100	4100	6100	8100	12000	22000	32000
Resolution (g)	0.01/0.1	0.1	0.1	0.1	0.1	0.1	0.1
Weighing Modes	Gram, Milligram, Kilogram, Pound, Ounce, Troy ounce, Carat, Pennyweight, Hong Kong tael, Singapore Tael, Taiwan tael, Mommes, Grain, Tical, Newton, Custom						
Operating Modes	Weighing, Counting, Animal/Dynamic weighing, Checkweighing, Percent weighing, Filling, Gross/net/tare weighing						
Repeatability (g)	0.01/0.05	0.05			0.1		
Linearity (g)	0.02/0.05	0.1			0.4		
Stabilization Time	3 seconds				4 seconds		
Operating Temperature	10 to 30 deg C (50 to 86 deg F) Note: Internal Cal units - 10 to 40 deg C (50 to 104 deg F)						
Pan size	17.2 x 17.2cm(6.8 x 6.8in)	20.3 x 20.3cm (8 x 8in)			28 x 35.6cm (11 x 14in)		
Dimensions	21.5 x 10.3 x 35cm (8.5 x 4 x 13.8in)				36 x 14 x 44.5cm (14 x 5.5 x 17.5in)		
Weight (Approx.)	14 lb				28 lb		
Power	120VAC adapter (other adapters available by special order) 50/60 Hz						
Warranty	Two-year limited warranty						

**NTEP resolution reduces by one decimal place NTEP CoC 98-053A6, Measurement Canada AM-5288*

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Adventurer™ Pro

Analytical and Precision Balances

Capacity: 65g-8100g Readability: 0.0001g-0.1g



AV412–AV8101



AV53



AV212



AV-64; AV114; AV264

STANDARD FEATURES

- Full duplex RS-232 serial interface
- Ergonomic leveling system
- Protective in-use cover
- Large backlit Liquid Crystal Display (LCD)
- Integral security bracket
- Underweigh function
- GLP/GMP data output capability
- Stability, overload, underload, low battery indicator
- Programmable auto shut-off
- Adjustable environmental settings
- AC operation (AC adapter included)
- Enhanced balance software including multiple span calibration points, auto tare, and output layout options including single or multiple lines, four-line feed and form feed
- Parts counting; weighing, animal/dynamic weighing, check-weighing, percentage weighing, totalization, display hold
- InCal™ optional available
- Battery operation on select models

APPROVALS

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Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
35263	76288-01	Security device	$46.00
70406	80500525	Cable, IBM-PC, 9-pin	95.00
67413	SW12W	WinWedge® TAL Software	275.00
104767		Impact printer	456.00
71960		Cable for PN 104767	95.00
104770		Paper for PN 104767	7.00
104771		Ribbon for PN 104767	25.00
83222	12102320	AC adaptor 120V (Adventurer Pro)	30.00
79958	12103980	In use cover (small housing)	18.00

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Adventurer™ Pro

Analytical and Precision Balances

SPECIFICATIONS

	AV64	AV114	AV264	AV53	AV213	AV313	AV212
Part Number	91007^	91008^	91009^	77647^	91010^	91011^	77648
List Price	$1,990.00	$2,290.00	$2,760.00	$1,050.00	$1,420.00	$1,590.00	$940.00
INT CAL **Part Number**	**91015^**	**91016^**	**91017^**	—	**91019^**	**91020^**	**91021**
INT CAL **List Price**	**$2,290.00**	**$2,490.00**	**$2,990.00**	—	**$1,730.00**	**$1,890.00**	**$1,040.00**
*N-NTEP Part Number	—	—	—	103072*^	—	—	103073*
*N-NTEP List Price	—	—	—	$871.00	—	—	$860.00
R-2ND RS232 **Part Number**	**91029^**	**91030^**	**91031^**	**91032^**	**91033^**	**91034^**	**91035**
R-2ND RS232 **List Price**	**$2,190.00**	**$2,490.00**	**$2,960.00**	**$1,050.00**	**$1,420.00**	**$1,590.00**	**$940.00**
2ND RS232 & INT CAL Part Number	91065^	91066^	91067^	103081^	91068^	91069^	91070
2ND RS232 & INT CAL List Price	$2,490.00	$2,690.00	$3,190.00	$871.00	$1,730.00	$1,890.00	$1,040.00
NR-2ND RS232 & N-NTEP* **Part Number**	—	—	—	—	—	—	**103082***
NR-2ND RS232 & N-NTEP* **List Price**	—	—	—	—	—	—	**$860.00**
U-USB Part Number	91078^	91079^	91080^	91081^	91082^	91083^	91084
U-USB List Price	$2,190.00	$2,490.00	$2,960.00	$1,050.00	$1,420.00	$1,590.00	$940.00
CU-USB & INT CAL **Part Number**	**91098^**	**91099^**	**91100^**	**N/A**	**91101^**	**91102^**	**91103**
CU-USB & INT CAL **List Price**	**$2,490.00**	**$2,690.00**	**$2,190.00**	**N/A**	**$1,730.00**	**$1,890.00**	**$1,040.00**
NU-USB & NTEP* Part Number	—	—	—	103090^	—	—	103091^
NU-USB & NTEP* List Price	—	—	—	$871.00	—	—	$860.00
Capacity (g)	65	110	260	51	210	310	210
Resolution (g)	0.1 mg	0.1 mg	0.1 mg	0.001	0.001	0.001	0.01
Weighing Modes	Milligram, Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton, Hong Kong tael, Singapore tael, Taiwan tael, Momme, tical, baht, mesghal, tola, custom						
Operating Modes	Counting, Weighing, Animal/Dynamic weighing, Checkweighing, Percentage Weighing, Totalization, Display hold						
Repeatability	1 mg			0.001			
Linearity	0.2 mg		0.3 mg	0.002			0.02
Operating Temperature	10 to 30 deg C (50 to 86 deg F)						
Pan size External Calibration	9cm (3.5in)			10 cm (3.9in)	12 cm (4.7 in)		
Pan size with INT Calibration	9cm (3.5in)			N/A	12 cm (4.7 in)		
Dimensions External Calibration	22 x 27.5 x 30cm (8.7 x 10.8 x 11.8in)			19.3 x 14.4 x 25.4cm (7.5 x 6 x 10in)	22 x 19 x 30cm (8.7 x 7.5 x 11.8in)		19.3 x 7.2 x 25.4cm (7.6 X 2.8 x 10in)
Dimensions with Int Calibration	22 x 27.5 x 30cm (8.7 x 10.8 x 11.8in)			N/A	22 x 19 x 30cm (8.7 x 7.5 x 11.8in)		22 X 8.5 X 30cm (8.7 X 3.3 X 11.8in)
Weight (Approx.)	16 lb						
Calibration Weight (g)	50	100	200	50	200	300	200
Power	120VAC adapter (240VAC adapter available by special order						
Warranty	Two-year limited warranty						

** NTEP models have reduced resolution*

^ Weighing Chamber

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Adventurer™ Pro

Analytical and Precision Balances

SPECIFICATIONS

	AV412	AV812	AV2102	AV3102	AV2101	AV4101	AV8101
Part Number	77649	77650	91012	91013	77651	77652	77653
List Price	$1,030.00	$1,150.00	$1,420.00	$1,590.00	$945.00	$1,030.00	$1,150.00
INT CAL **Part Number**	**91022**	**91023**	**91024**	**91025**	**91026**	**91027**	**91028**
INT CAL **List Price**	**$1,120.00**	**$1,240.00**	**$1,730.00**	**$1,850.00**	**$1,040.00**	**$1,120.00**	**$1,220.00**
*N-NTEP Part Number	103074*	—	103077*	—	—	103078*	103080*
*N-NTEP List Price	$880.00	—	$860.00	—	—	$887.00	$940.00
R-2ND RS232 **Part Number**	**91036**	**91037**	**91038**	**91039**	**91040**	**91041**	**91042**
R-2ND RS232 **List Price**	**$1,030.00**	**$1,150.00**	**$1,420.00**	**$1,590.00**	**$945.00**	**$1,030.00**	**$1,150.00**
2ND RS232 & INT CAL Part Number	91071	91072	91073	91074	91075	91076	91077
2ND RS232 & INT CAL List Price	$1,120.00	$1,240.00	$1,730.00	$1,850.00	$1,040.00	$1,120.00	$1,220.00
NR-2ND RS232 & N-NTEP* **Part Number**	**103083***	**103085^**	—	—	**103086^**	**103087^**	**103089^**
NR-2ND RS232 & N-NTEP* **List Price**	**$880.00**	**$940.00**	—	—	**$860.00**	**$887.00**	**$940.00**
U-USB Part Number	91085	91086	91087	91088	91089	91090	91091
U-USB List Price	$1,030.00	$1,150.00	$1,420.00	$1,590.00	$945.00	$1,030.00	$1,150.00
CU-USB & INT CAL **Part Number**	**91104**	**91105**	**91106**	**91107**	**91108**	**91109**	**91110**
CU-USB & INT CAL **List Price**	**$1,120.00**	**$1,240.00**	**$1,730.00**	**$1,850.00**	**$1,040.00**	**$1,120.00**	**$1,220.00**
NU-USB & NTEP* Part Number	103092^	103094^	—	—	103095^	103096^	103098^
NU-USB & NTEP* List Price	$880.00	$940.00	—	—	$860.00	$887.00	$940.00
Capacity (g)	410	810	2100	3100	2100	4100	8100
Resolution (g)	0.01	0.01	0.01	0.01	0.1	0.1	0.1
Weighing Modes	Milligram, Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, Grain, Newton, Hong Kong tael, Singapore tael, Taiwan tael, Momme, tical, baht, mesghal, tola, custom						
Operating Modes	Counting, Weighing, Animal/Dynamic weighing, Checkweighing, Percentage Weighing, Totalization, Display hold						
Repeatability	0.01				0.1		
Linearity	0.02				0.2		
Operating Temperature	10 to 30 deg C (50 to 86 deg F)						
Pan size External Calibration	14.9 x 16.2 (5.8 x 6.3in)		16.8 x 18 cm (6.6 x 7.1in)		14.9 x 16.3cm (5.8 x 6.3in)		
Pan size with INT Calibration	16.8 x 18 cm (6.6 x 7.1in)						
Dimensions External Calibration	19.3 x 7.2 x 25.4cm (7.6 X 2.8 x 10in)		22 x 8.5 x 30cm (8.7 x 3.3 x 11.8in)		19.3 x 7.2 x 25.4cm (7.6 x 2.8 x 10in)		
Dimensions with Int Calibration	22 X 8.5 X 30cm (8.7 X 3.3 X 11.8in)						
Weight (Approx.)	16 lb						
Calibration Weight (g)	200	500	2000	3000	2000		5000
Power	120VAC adapter (240VAC adapter available by special order						
Warranty	Two-year limited warranty						

** NTEP models have reduced resolution*

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MB Series

Moisture Balance

Capacity: 23g-45g Readability: 0.005g-0.01g



MB45

APPROVALS

STANDARD FEATURES

- Fast halogen heating element provides uniform infrared heating and durability for extended use
- Superior weighing performance with readability up to 0.001 g, 0.01% moisture
- Powerful software for simple operation
- Large backlit 128 x 64 pixel Liquid Crystal Display (LCD) for easy viewing
- GLP/GMP compliant format when printed results are required
- RS-232 port for easy communication with printer or computer
- Multi-language display text (English, Spanish, French)

SPECIFICATIONS

	MB23	MB25	MB35	MB45
Part Number	**109522**	**109521**	**70858**	**70390**
List Price	**$2,190.00**	**$2,590.00**	**$3,190.00**	**$3,590.00**
Capacity (g)	23	25	35	45
Resolution (g)	0.01/0.1%	0.005/0.05%	0.005 (0.05%)	0.001 (0.01%)
Repeatability	3g sample - 0.3%; 10g sample - 0.1%	3g sample - 0.2%; 10g sample - 0.05%	3g sample - 0.18%; 10g sample - 0.05%	3g sample - 0.05%; 10g sample - 0.015%
Moisture range			0.05% to 100%	0.01 to 100% (0.01% to 1000% for regain mode)
Heater Type	Infrared (no glass)	Halogen		
Timer	1 - 99 minutes, 30 sec increments to 60 min		1-120 min in 30sec -60min increments, 1 min increments from 60 - 120 min	1-120 min in 10 sec increments
Temperature Settings	50 - 160 deg x 5 deg C (increments)			50 - 200 deg x 1 deg C (increments)
Operating Temperature	5 to 40 deg C (41 to 104 deg F)		10 to 40deg C (50 to 104 deg F)	
Pan size	9 cm (3.5in)			
Dimensions	165 x 127 x 279mm (7.5 x 6.0 x 14in)		190.5 x 152.4 x 355.6mm (7.5 x 6 x 14 in)	
Est. Ship Weight	6.3kg (14 lb)			
Power	120vac ADAPTER			
Warranty	Two year limited warranty			

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
70401	11113857	Temperature calibration kit	$365.00
70402	80850087	Pads, glass fiber, 200/box	49.00
70403	80850086	Sample pans, 50/box	35.00
70404	80850088	Reusable sample pans, 3/box	101.00
70405	80850085	In-use cover	40.00
70406	80500525	Cable, 9-pin serial extension	95.00
70408	470004-010	Security device	110.00
67413	SW12W	WinWedge® TAL Software	275.00
70860	11113873	Sample pan handler (MB-35 only)	70.00
104767		Impact printer	456.00
71960	80500571	Cable for PN 104767	95.00
104770		Paper for PN104767	7.00
104771		Ribbon for PN 104767	25.00

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Scout™ Pro

Portable Electronic Balances

Capacity: 200g-6000g Readability: 0.01g-1g



SP202/SP402



STANDARD FEATURES

- Large stainless steel weighing surface
- Large 0.6 in (15.24 mm) high contrast Liquid Crystal Display (LCD)
- Integral security bracket
- Underweigh function (includes hook)
- Sealed front panel and molded spill ring
- Stability indicator
- Overload and underload indicators
- Auto shut-off (user enabled/disabled)
- Low-battery indicator
- Battery or AC operation (AC adapter included)
- Span calibration mass (included on SP202, SP402, SP401, SP601 models)
- Integral shipping lock
- Parameter lock switch

SPECIFICATIONS

	SP202	SP402	SP602	SP401	SP601
Part Number	**77654**	**77655**	**103099**	**77656**	**77657**
List Price	**$342.00**	**$481.00**	**$563.00**	**$189.00**	**$279.00**
Capacity (g)	200	400	600	400	600
Resolution (g)	0.01	0.01	0.01	0.1	0.1
UNIT OF MEASURE: Kilogram (kg)	—	—	—	—	—
Ounces (oz)	7.0550 x 0.0005	14.1095 x 0.0005	21.645 x 0.0005	14.110 x 0.005	21.165 x 0.005
Pounds (lb)	—	—	1.32280 x 0.00005	—	1.3230 x 0.0005
Pound:Ounce (lb:oz)	—	—	1lb:5.165 oz x 0.001 oz	—	1lb:5.165 oz x 0.01 oz
Troy ounces (ozt)	6.4300 x 0.0005	12.8605 x 0.0005	19.2905 x 0.0005	12.860 x 0.005	19.290 x 0.005
Pennyweight (dwt)	128.60 x 0.01	257.21 x 0.01	385.81 x 0.01	257.2 x 0.1	385.8 x 0.1
Operating Modes	Parts Counting with Average Piece Weigh Recalculation, Percentage Weighing, Totalization, Display Hold				
Repeatability (g)	0.01			0.1	
Linearity	±0.01		±0.02	±0.1	
Stabilization Time	3 seconds				
Operating Temperature	50 to 104 deg F / 10 to 40 deg C				
Pan size	4.7in / 12 cm diameter				6.5 x 5.5in / 16.5 x 14.2cm
Dimensions	7.56 x 2.13 x 8.27in / 19.2 x 5.4 x 21.0cm				
Weight (Approx.)	1.5lb / 0.7kt	1.8 lb/ 0.8 kg			
Est. Ship Weight	4lb / 1.8 kg				
Calibration Weight (g)	200 g	400 g	600 g	400 g	600 g
Power	120 VAC Adapter (included) or 4 AA Batteries (not included)				
Warranty	Two-year warranty				

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Scout™ Pro

Portable Electronic Balances

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
70422	77256-01	Hard shell carrying case	$62.00
77710	71147376	RS-232 interface with integrated cable, DB9	90.00
77711	71147377	USB interface with integrated cable	90.00
83222	12102320	115 VAC adapter	30.00
35263	76288-01	Security device	46.00
67413	SW12W	WinWedge® TAL Software	275.00
104767		Impact printer	456.00
104770		Paper for PN 104767	7.00
104771		Ribbon for PN 104767	25.00
92804	71168909	In-use cover, set of 3	25.00

WinWedge is a registered trademark of TAL Software.

SPECIFICATIONS

	SP2001	SP4001	SP6001	SP6000
Part Number	**77658**	**77660**	**103100**	**77661**
List Price	**$354.00**	**$518.00**	**$584.00**	**$293.00**
Capacity (g)	2000	4000	6000	6000
Resolution (g)	0.1	0.1	0.1	1
UNIT OF MEASURE: Kilogram (kg)	2.0000 x 0.0001	4.0000 x 0.0001	6.0000 x 0.0001	6.000 x 0.001
Ounces (oz)	70.550 x 0.005	141.095 x 0.005	211.645 x 0.005	211.65 x 0.05
Pounds (lb)	4.4090 x 0.0005	8.8185 x 0.0005	13.2280 x 0.0005	13.230 x 0.005
Pound:Ounce (lb:oz)	4lb:6.550 oz x 0.01 oz	8lb:13.095 oz x 0.01 oz	13lb:3.65 oz x 0.01 oz	13lb:3.65 oz x 0.05 oz
Troy ounces (ozt)	64.300 x 0.005	128.605 x 0.005	192.905 x 0.005	192.90 x 0.05
Pennyweight (dwt)	1286 x 0.1	2572.1 x 0.1	3858.1 x 0.1	3858 x 1
Operating Modes		Parts Counting with Average Piece Weigh Recalculation, Percentage Weighing, Totalization, Display Hold		
Repeatability (g)	0.1			1
Linearity	±0.1		±0.2	±0.1
Stabilization Time	3 seconds			
Operating Temperature	50 to 104 deg F / 10 to 40 deg C			
Pan size	6.5 x 5.5in / 16.5 x 14.2cm			
Dimensions	7.56 x 2.13 x 8.27in / 19.2 x 5.4 x 21.0cm			
Weight (Approx.)	1.8 lb/ 0.8 kg			
Est. Ship Weight	4lb / 1.8 kg			
Calibration Weight (g)	2000 g	4000 g	6000 g	6000 g
Power	120 VAC Adapter (included) or 4 AA Batteries (not included)			
Warranty	Two-year warranty			

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Compact Scale

Portable Electronic Scales

Capacity: 200g-2000g Readability: 0.1g-2g



STANDARD FEATURES

- Superior RF protection
- Reliable, stable results
- Approvals include CE listed and FCC Class B Part 15 operation
- Large removable stainless steel weighing platform
- Low profile design
- Standard AC adapter
- Easy operation
- Low-battery indicator
- Auto shut-off feature
- Overload protection
- Push-button calibration

SPECIFICATIONS

	CS200	CS2000	CS5000	CS2000P*	CS5000P*	CS200P*	CS2000PS*
Part Number	**53493**	**53494**	**53495**	**53496**	**53497**	**83225**	**91710**
List Price	**$104.00**	**$104.00**	**$122.00**	**$113.00**	**$135.00**	**$113.00**	**$113.00**
Capacity (g)	200	2000	5000	2000	5000	200	2000
Resolution (g)	1	1	2	1	2	0.1	1
Weighing Modes	g, lb:oz, Newton			4 lb 6.55 oz x 0.05oz	11 LB 0.4oz X 0.1 oz	0lb 7 oz x 0.01oz	—
Repeatability (g)	0.1	1	1	1	1	0.1	1
Linearity (g)	±0.1	±1	±1	±1	±1	±0.1	±1
Stabilization Time	3 seconds						
Operating Temperature	64°-77°F / 18°-25°C						
Pan size	5.75 x 5.25in / 14.5 x 13.3cm						
Dimensions	8.0 x 5.5 x 1.5in / 20.3 x 14.0 x 3.8cm						
Weight (Approx.)	.91lb / .47kg						
Power	3-AA alkaline batteries (included) or AC adapter (included						
Battery Life	300 hours						
Warranty	One-year limited warranty						

** includes US postal chart*

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
33423	90524-66	AC adapter for CS models (current - version 2)	$30.00
70430	80500457	AC adapter for CS models (older - version 1)	30.00
70434	80850075	Bowl, 1050 mL	24.00
70435	80850076	Stainless steel weighing pan cover	30.00
70436	80850097	Additional U.S. postal chart	14.00

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CL Series

Compact Balance

Capacity: 200g-5000g Readability: 0.1g-1g



STANDARD FEATURES

- Basic weighing with simple 2-button keypad
- Superior RF protection
- Large weighing platform
- Stackable design with integrated shipping lock
- Low battery indicator
- Auto shut-off feature
- Mechanical and software overload protection
- External push-button calibration
- Battery (standard) or AC adapter (optional) operation

SPECIFICATIONS

	CL201	CL2000	C5000
Part Number	**103101**	**103102**	**103103**
List Price	**$67.00**	**$67.00**	**$91.00**
Capacity (g)	200	2000	5000
Resolution (g)	0.1	1	1
Weighing Modes	g, lb:oz, ozt, dwt		
Repeatability (g)	0.1	1	1
Linearity (g)	± 0.1	± 1	± 1
Stabilization Time	3 seconds		
Operating Temperature	65° - 77°F / 18° - 25°C		
Pan size	4.75in / 12.0cm		
Dimensions	5.5 x 1.6 x 7.9in / 14 x 4.0 x 20cm		
Weight (Approx.)	0.875lb / 0.4kg		
Power	3 AA batteries (included) (AC adapter is option)		
Battery Life	300 hours		
Warranty	One-year limited warranty		

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
70434	80859975	Bowl for CS compact scales (1050 ml)	$24.00
33423	90524-66	AC adapter for CL	30.00
103521	80010624	Carrying case for CS and CL scales	30.00
33455	5076-00	Aluminum scoop, 1.5 in x 2 in (3.8 cm x 5.1 cm), weight 4 g	13.00
33456	5077-00	Gold scoop, 2.25 in x 3 in (5.7 cm x 7.6 cm), weight 10 g	12.00
33454	4590-30	Black scoop, aluminum 4 in x 3.5 in (10.2 cm x 8.9 cm), weight 24 g	15.00

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HH Series

Hand-Held Balances

Capacity: 60g-320g Readability: 0.1g-0.2g



STANDARD FEATURES

- Weighing modes: g (HH120D); g, oz, dwt, ozt (HH120, HH320)
- Large 0.4 in (10.16 mm) high-contrast backlit Liquid Crystal Display (LCD)
- Low-battery indicator
- Overload and underload indicators
- Auto shut-off
- Protective snap-on cover
- Rugged plastic construction
- HH120 & HH320 additional features
- Button activated luminescent display and soft tactile feedback keypad and protective cover

SPECIFICATIONS

	HH120D	HH120	HH320
Part Number	**52541**	**64055**	**52540**
List Price	**$108.00**	**$130.00**	**$161.00**
Capacity (g)	60/120	120	320
Resolution (g)	0.1/0.2	0.1	0.1
Weighing Modes	—	Grams, ounces, Pennyweight, Troy Ounces	
Maximum overload	150% of capacity		
Linearity	±0.1/±0.2	±0.1	±0.2
Stabilization Time	3 seconds		
Pan size	82.55 x 76.2mm (3.25 x 3.2in)		
Dimensions	13.6 x 8.5 x 2cm (5.35 x 3.25 x 0.8in)		
Weight (Approx.)	0.16kg (0.34lb)		
Calibration	Factory set	Calibration with keypad	
Auto Shutoff	Two minutes no activity		
Power	Battery operated		
Warranty	One-year limited		

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YA Series

Pocket Balance

Capacity: 100g-500g Readability: 0.01g-0.1g



STANDARD FEATURES

- Smaller size than most pocket scales allows a comfortable fit in your pocket
- Clamshell case designs protects scale during transport
- g, oz, ct and grain weighing modes
- Bright blue backlit LCD display

SPECIFICATIONS

	YA102	YA302	YA501
Part Number	**103106**	**103107**	**103108**
List Price	**$65.00**	**$55.00**	**$38.00**
Capacity (g)	100	300	500
Resolution (g)	0.01	0.05	0.1
Weighing Modes	Grams, ounces, carats and Grains		
Calibration	External		
Auto Shutoff	10 to 30 seconds		
Power	2 AAA Batteries		
Warranty	One-year limited		

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
33455	5076-00	Aluminum scoop, 1.5 in x 2 in (3.8 cm x 5.1 cm), weight 4 g	$13.00
33456	5077-00	Gold scoop, 2.25 in x 3 in (5.7 cm x 7.6 cm), weight 10 g	12.00
33454	4590-30	Black scoop, aluminum 4 in x 3.5 in (10.2 cm x 8.9 cm), weight 24 g	15.00

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Dial-O-Gram® Triple Beam

Mechanical Balance

Capacity: 610g-2610g Readability: 0.1g



Triple Pro Beam w/Attachment Weight



TP26II

STANDARD FEATURES

- Notched and tiered beams for ease-in-reading
- Positive poise positioning for repeatability
- Magnetically damped
- Zero adjust compensator
- Choice of five weighing platforms: stainless steel pan, polypropylene scoop, stainless steel scoop, aluminum animal box, stainless steel plate
- Optional tare beam vernier dial

SPECIFICATIONS

	710-00	710-T0	720-00	750-S0	761-00	720-S0
Part Number	**33350**	**33351**	**33352**	**33355**	**33357**	**33353**
List Price	**$187.00**	**$230.00**	**$215.00**	**$155.00**	**$195.00**	**$250.00**
Capacity (g)	610	610	610	610	610	610
Resolution (g)	0.1	0.1	0.1	0.1	0.1	0.1
Tare Range (g)	—	225	—	—	225	—
Pan Design	Stainless steel Pan	Stainless steel Pan with Tare	Polypropylene scoop	Stainless steel plate	Stainless steel plate with tare	Stainless steel scoop
Pan size	6 in			6 in		
Dimensions	457.2 x 304.8 x 228.6 mm (18 x 12 x 9 in)					
Weight (Approx.)	8lb					
Calibration	Front beam 10 x 0.1g, Middle beam 500g x 100g, Rear beam 100g x 10g					
Warranty	Five-year limited					

	730-00	1650-00	1650-W0	1610-00	TP2611
Part Number	**33354**	**33361**	**33362**	**33360**	**103109**
List Price	**$278.00**	**$239.00**	**$274.00**	**$274.00**	**$169.00**
Capacity (g)	610/2610	610	2610	610	2610
Resolution (g)	0.1	0.1	0.1	0.1	0.1
Tare Range (g)	—	225	225	225	—
Pan Design	Aluminum weight boat	Stainless steel plate with tare	Stainless steel plate with Tare	Stainless steel pan and Tare	Stainless Steel pan with rod & clamp
Pan size		6in			5.8 x 5.8in
Dimensions	457.2 x 304.8 x 228.6 mm (18 x 12 x 9 in)				
Weight (Approx.)	8lb				
Calibration	Front beam 10 x 0.1g, Middle beam 500g x 100g, Rear beam 100g x 10g				
Warranty	Five-year limited				

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
Triple Beam only			
33417	183-00	Rod & clamp assembly	$34.00
33446	703-00	Polypropylene scoop, 12 in x 6 in x 2.75 in (304 mm x 152 mm x 70 mm) footed and counterweighted for balance with out tare	25.00
33447	703-S0	Stainless steel scoop, 12 in x 6 in x 2.75 in (304 mm x 152 mm x 70 mm) footed and counterweighted for balance with out tare	62.00
33448	704-00	Polypropylene Maxi-Scoop®, 10 in (254 mm) dia. x 2.5 in (70 mm) D with pouring spout and counter-weight	27.00
33463	706-00	Vinyl dust cover	17.00
33414	707-00	Attachment weight set, metric	37.00

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Harvard Trip Balance

Capacity: 2000g Readability: 0.1g



STANDARD FEATURES

- Highly versatile, rugged and accurate
- Two-pan design ideal for comparative weighing
- Built-in sliding masses
- Roberval principle
- Magnetic damping
- Comparative weighing
- Five-year limited warranty

SPECIFICATIONS

	1450-SD	15550-SD	1560-SD
Part Number	**33364**	**33367**	**33368**
List Price	**$239.00**	**$256.00**	**$268.00**
Capacity (g)	2000	2000	2000
Resolution (g)	0.1	0.1	0.1
Pan Design	Two pan design; stainless steel plate		
Pan size	6in		
Dimensions	63.5 x 45.8 x 55.9cm (25 x 18 x 22in)		
Calibration	Top Beam 10 x 0.1lb; Bottom beam 200 x 10g		
Warranty	Five-year limited		

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
33461	106-00	Vinyl dust cover for Harvard Trip Balances	$17.00
33417	183-00	Rod and clamp assembly for Triple Beam or Harvard Trip	34.00
33440	107-00	Footed scoop	29.00

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Dial-O-Gram® and Cent-O-Gram®

Balances

Capacity: 310g-311g Readability: 0.01g



STANDARD FEATURES

- 0.01 g or 0.1 g sensitivity
- Equipped for specific gravity weighing
- Four-tiered notched beams
- Easy-to-read vernier dial on model 310
- See-through poise on model 311
- High precision and remarkable value
- Three-point beam eliminates need for level adjustment
- Quick-zeroing with zero adjust knob
- Five-year limited warranty

Ohaus

SPECIFICATIONS

	310-00	311-00
Part Number	**33371**	**33370**
List Price	**$255.00**	**$212.00**
Capacity (g)	310	311
Resolution (g)	0.01	0.01
Operating Mode	Dial	Poise
Pan size	6in	
Platform	Stainless Steel (removable) 3.5 in x 0.5in	
Calibrations	Front beam 225 g tare Middle beam - 500g x 100g, Ream beam -100g x 10g; Dial -10g x 0.1g	
Weight (Approx.)	5 lb	
Warranty	Five-year limited	

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
33420	76912-01	Test tube kit	$16.00
33462	110-00	Vinyl dust cover	17.00
Additional Ohaus Mechanical Balance Accessories			
33414	707-00	Metric attachment mass set	37.00
33413	807-03	Avoirdupois attachment mass set	40.00
33445	171-00	Analytical scoop, 2.25 in x 3 in (57 mm x 76 mm) and counterweight	18.00
33450	1101-20	Polypropylene scoop, 12 in x 6 in 2.75 in (304 mm x 152 mm x 70 mm) footed, tare 125 g	18.00
33451	3369-10	Polypropylene Maxi-Scoop®, 10 in (254 mm) dia. x 2.5 in (63 mm) D w/pouring spout	20.00
33454	4590-30	Black scoop, aluminum, 4 in x 3.5 in (102 mm x 89 mm)	15.00
33455	5076-00	Aluminum scoop, 1.5 in x 2 in (38 mm x 51 mm)	13.00
33456	5077-00	Gold scoop, 2.25 in x 3 in (57 mm x 76 mm)	12.00

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Field Test Scale

Capacity: 16,000g-36lb Readability: 5g-0.01lb



STANDARD FEATURES

- Affordable compact industrial scale
- Large, stabilized pan can hold oversized samples without tipping
- Readings up to 500g are taken from a single sliding-weight beam, while a set of slotted weights, stored in the base, can extend the capacity up to 36lb
- Five-year limited warranty

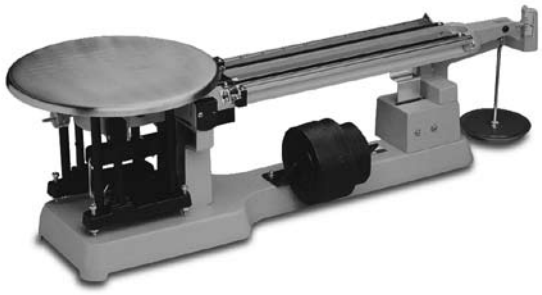
SPECIFICATIONS

	2400-11	2400-12
Part Number	**33379**	**33380**
List Price	**$835.00**	**$867.00**
Capacity (g)	16kg	36lb
Resolution (g)	5g	0.01lb
Operating Mode	Poise	Poise
Pan size	—	
Platform	27.9cm (11in)	
Calibrations	Bottom beam - 500 x 5g; Top beam 1 x 0.01lb	
Weight (Approximate)	12 lb	
Warranty	Five-year limited	

Heavy Duty Solution

Mechanical Balance

Capacity: 20,000g Readability: 1g



STANDARD FEATURES

- Sets an industry standard for precision in high-capacity weighing
- Durable enough to resist corrosion
- Sensitive enough to weigh with a feather's touch
- Large stainless steel platform
- Lockable tare for containers up to 2270g
- Self-aligning bearings assure a long, maintenance-free life
- Five-year limited warranty

SPECIFICATIONS

	1119-DO
Part Number	**33378**
List Price	**$1,363.00**
Capacity (g)	20kg
Resolution (g)	1g
Operating Mode	Poise
Pan size	N/A
Platform	27.9cm (11in)
Calibrations	Front beam -100 x 1g; rear beam - 1000 x 100g
Weight (Approx.)	12 lb
Warranty	Five-year limited

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FD Series

Food Portioning Scale

Capacity: 3000g-15,000g Readability: 0.1g-5g



STANDARD FEATURES

- Designed for food service and other industrial applications with a focus on speed, durability and cleanliness
- All stainless steel, high-quality formed constructions for sanitary cleaning and durability
- Checkweighing function for food packaging and preparation
- Internal rechargeable battery assures excellent portability
- Stainless steel housing and pan with non-slip rubber feet
- Checkweighing mode with 3-LED indicator and audible alarm
- Bright backlit LCD display
- Stable weight display within 2 seconds
- Multiple weighing units: lb, decimal/fractional oz, kg, g and lb
- AC power or internal rechargeable lead acid battery
- NSF-certified, USDA-AMS accepted, supports HACCP compliance
- EC/OIML type approved
- Note: NTEP and Measurement Canada 3000e approved resolution is specific only to model without the “H” suffix

APPROVALS

Measurement Canada Approved

ohaus

SPECIFICATIONS

		FD3H	FD3	FD6H	FD6	FD15H	FD15
	Part Number	102774	—	102775	—	102776	—
	List Price	$516.00	—	$516.00	—	$516.00	—
NTEP	Part Number		87824	—	87825	—	87826
NTEP	List Price	—	$469.00	—	$469.00	—	$469.00
UNIT OF MEASURE	Capacity (lb)	6	6	15	15	30	30
UNIT OF MEASURE	Resolution (lb)	0.0002	0.002	0.001	0.005	0.001	0.01
UNIT OF MEASURE	Kilogram (kg)	3 kg x 0.0001 kg	3 kg x 0.001 kg	6kg x 0.0002 kg	6 kg x 0.002 kg	15 kg x 0.001 kg	15 kg x 0.005 kg
UNIT OF MEASURE	Grams (g)	3000 x .1	3000 g x 1 g	6000 g x 0.2 g	6000 g x 2 g		15000 g x 5 g
UNIT OF MEASURE	Ounce (oz)	96 oz x 0.005 oz; 96 oz x 1/4 oz	96 oz x 0.05 oz or 1/4 oz	240 oz x 0.01 oz; 240 oz x 1/4 oz	240 oz x 0.1 oz or 1/4 oz	480 oz x 0.02 oz or 1/4oz	480 oz x 0.2 oz or 1/4 oz
UNIT OF MEASURE	Pound x Ounce	6 lb 0 oz x 1/4 oz; 6lb 0 oz x 0.1 oz	N/A	15 lb 0 oz x 0.1 oz; 15lb 0 oz x 1/4 oz	N/A	30 lb 0 oz x 0.1 oz or 1/4oz	N/A
	Overload capacity	150%					
	Operating Modes	Weighing, Checkweighing					
	Repeatability	0.2 g		0.4 g		.2 g	
	Linearity	±0.2 g		±0.4 g		±0.2 g	
	Stabilization Time	< 2 seconds					
	Operating Temperature	14° to 104°F / -10° to 40°C, 10 to 85% relative humidity, non-condensing					
	Environmental	IP-43					
	Pan size	8.2 x 8.2in / 209 x 209mm					
	Dimensions	9 x 12 x 2.8in / 300 x 223 x 71mm					
	Weight (Approx.)	8lb / 3.6kg					
	Est. Ship Weight	11lb /5kg					
	Power	120 VAC adapter, 9 VDC 0.5A 50/60 Hz (Other adapters available by special request)					
	Battery life	Maximum 120 hours					
	Approvals	NSF listed/Certified to NSF C-2, UL C-US listed, NTEP Class III, Measurement Canada					
	Warranty	One-year limited warranty					

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FD Series

Food Portioning Scale

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
103118	80251394	Hard shell carrying case for FD	$62.00
87827	71169633	Foot tare switch for FD	90.00
103116	80251141	Flat pan for FD or Valor 5000	28.00
103117	80251140	In-use cover for FD or Valor 5000	17.00
33451	3369-10	Polypropylene Maxi-Scoop™ 10 in dia x 2.5 in deep (25.4 cm dia x 6.4 cm deep) with pouring spout, weight 145 g	20.00
97250	80250400	Stainless steel scoop 11.9 in x 7.4 in x 1.7 in (30 cm x 18.7 cm x 4.3 cm)	35.00
100292	80250954	Stainless steel scoop 17.2 in x 11 in x 3.4 in (44 cm x 28 cm x 8.5 cm)	44.00
98020	80500435	AC Adaptor	39.00

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Valor™ 5000

Compact Industrial Portion Scales

Capacity: 3000g-30,000g Readability: 1g-50g



APPROVALS

STANDARD FEATURES

- Easy to clean smooth ABS plastic housing with stainless steel construction
- NSF/USDA-AMS certified and supports HACCP compliance
- Easy-to-see bright backlit 5 digit LCD
- Multiple weighing units including: kg, g, lb, oz, lb: oz
- Multiple weighing modes: static weighing, positive/zero/ negative static checkweighing
- Three bright LEDs, yellow, green, red and beeper for indication in checkweigh operation
- Fast stabilization with auto-tare
- Remote tare foot switch connection
- Integrated level bubble and adjustable feet
- Standard AC power adapter and internal lead acid rechargeable battery pack
- Five-level low-battery detect, (low bat warning, safe shut down)
- NSF Certified, USDA-AMS accepted, supports HACCP compliance

SPECIFICATIONS

	V51PH3	V51P3	V51PH6	V51P6	V51PH15	V5P15	V51PH30	V51P30
Part Number	**102777**	**102780**	**102778**	**102779**	**102781**	**102783**	**102784**	**102785**
List Price	**$393.00**	**$351.00**	**$393.00**	**$351.00**	**$393.00**	**$351.00**	**$393.00**	**$351.00**
Capacity (lb)	6	6	15	15	30	30	60	60
Resolution (lb)	0.0002	0.001	0.001	0.002	0.001	0.005	0.002	0.01
Kilogram (kg)	3x0001	3x0.0005	6x0.0002	6x0.001	15x0.001	15x0.002	30x0.001	30x0.005
Weighing modes	Grams, Kilograms, Pounds, Ounces (decimal/fractional), Pounds:Ounces (decimal/fractional ounce)							
Operating Modes	Weighing, Checkweighing							
Repeatability (kg)	0.0002	0.0005	0.001		0.002		0.005	
Linearity	0.0002	0.0005	0.001		0.002		0.005	
Construction	Plastic housing and stainless steel platform							
Operating Temperature	(-) 10 to 40 deg C (14 deg to 104 deg F)							
Pan size	209 x 209 mm (8.2 x 8.2in)							
Dimensions	10 x 223 x 300mm (5 x 8.8 x 11.8 in)							
Weight (Approx.)	4.8 kg (10lb)							
Power	120VAC adapter 9VDC, 0.5A (internal rechargeable sealed lead-acid battery)							
Battery Life	Limited to 120 hours							
Warranty	One-year limited							

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Valor™ 5000

Compact Industrial Portion Scales

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
103118	80251394	Hard shell carrying case for FD	$62.00
87827	71169633	Foot tare switch for FD	90.00
103116	80251141	Flat pan for FD or Valor 5000	28.00
103117	80251140	In-use cover for FD or Valor 5000	17.00
33451	3369-10	Polypropylene Maxi-Scoop™ 10 in dia x 2.5 in deep (25.4 cm dia x 6.4 cm deep) with pouring spout, weight 145 g	20.00
97250	80250400	Stainless steel scoop 11.9 in x 7.4 in x 1.7 in (30 cm x 18.7 cm x 4.3 cm)	35.00
100292	80250954	Stainless steel scoop 17.2 in x 11 in x 3.4 in (44 cm x 28 cm x 8.5 cm)	44.00

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Valor™ 3000 Xtreme

Compact Precision Scales

Capacity: 200g-6000g Readability: 0.01g-1g



STANDARD FEATURES

- Full 304SS housing with chemical resistant keypad
- Removable stainless steel weighing pan
- USDA approved
- Supports HACCP
- NEMA4X/IP65 protection rating
- Resolutions up to 20,000d
- SmarText user interface
- Standard AC Power adapter
- Bright backlit LCD display
- Convenient up-front level device
- NSF Listed
- NTEP models available by special order

SPECIFICATIONS

	V31XH202	V31XH2	V31X3	V31X6	V31XW301	V31XW3	V31XW6
Part Number	**100283**	**100284**	**100285**	**100286**	**100287**	**100288**	**100289**
List Price	**$469.00**	**$469.00**	**$327.00**	**$327.00**	**$387.00**	**$387.00**	**$387.00**
Capacity (kg)	200 G	2	3	6	300g	3	6
Resolution (g)	0.01	0.1	1	1	0.1	0.5	1
Weighing Modes	Pounds, Decimal or fractional ounces, lb:oz, fluid oz (of water); Kilogram, Gram						
Operating Modes	Weighing, Percent weighing, Combined zero/tare, Specific gravity						
Protection rating	Non-Washdown models				IP-65/NEMA 4X Washdown		
Stabilization Time	< 3 seconds						
Operating Temperature	0 to 40 deg C (32 deg to 104 deg F)						
Pan size	120mm (4.7in)	146 x 158mm (5.8 x 6.2in)					
Dimensions	218 x 186 x 72mm (8.5 x 7.3 x 3in)						
Weight (Approx.)	2.6lb (1.2kg)	2.9lb (1.3kg)			3.1lb (1.4kg)		
Est. Ship Weight	10lb (4.8kg)						
Calibration	Digital external calibration						
Power	120VAC adapter (9VDC, 0.5A), Four 1.5 Volt C batteries (not included)						
Battery life	50 hours with alkaline cells		120 hours with alkaline cells		50 hours with alkaline cells		
Warranty	One-year limited						

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
103119	80251216	Hard shell carrying case for FD	$62.00
102756	80251147	Sandwich pan, 11 in x 5.9 in (280 mm x 150 mm) for Valor Xtreme	39.00
102757	80251148	French fries holder pan for Valor 3000 Xtreme	39.00
102758	80251149	Ice cream cone holder for Valor 3000 Xtreme	39.00
33451	3369-10	Polypropylene Maxi-Scoop™ 10 in dia x 2.5 in deep (25.4 cm dia x 6.4 cm deep) with pouring spout, weight 145 g	20.00
100292	80250954	Stainless steel scoop 17.2 in x 11 in x 3.4 in (44 cm x 28 cm x 8.5 cm)	44.00
97250	80250400	Stainless steel scoop 11.9 x 7.4 x 1.7 in (30 cm x 18.7 cm x 4.3 cm)	35.00

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Valor™ 2000

Compact Washdown Scales

Capacity: 3000g-15,000g Readability: 0.5g-2g



APPROVALS

STANDARD FEATURES

- Unsurpassed protection and durability in a variety of harsh environments
- High profile, easy-to-clean plastic housing
- NEMA4X/IP65 protection rating
- Front and rear LEDS
- Multiple Weighing Units
- Internal rechargeable battery (standard)
- Removable stainless steel platform cover
- USDA-AMS accepted
- NSF listed/certified
- Supports HACCP systems
- User adjustable stability settings
- One-second response time
- SmarText interface

SPECIFICATIONS

	V21PW3	V21PW6	V21PW15
Part Number	**102771**	**102772**	**102773**
List Price	**$320.00**	**$320.00**	**$320.00**
Capacity (kg)	3	6	15
Resolution (g)	0.5	1	2
Weigh Units	Kilograms, Pounds, Grams, Ounces		
Operating Modes	Weigh		
Construction	ABS plastic housing, stainless steel pan		
Protection rating	NEMA 4X (IP65)		
Safe Overload	120% of capacity		
Stabilization Time	< 1 second		
Operating Temperature	0 to 40 deg C (32 deg to 104 deg F)		
Pan size	233 x 184 mm (9.2 x 7.2in)		
Dimensions	233 x 249 x 142 mm (9.2 x 9.8 x 5.6 in)		
Weight (Approx.)	3.4 kg (8 lb)		
Calibration	Digital external calibration		
Power	120VAC adapter, 9VDC 0.7A internal rechargeable battery		
Battery Life	40 hours with 1 hour recharge time		
Warranty	One-year limited		

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
33451	3369-10	Polypropylene Maxi-Scoop™ 10 in dia x 2.5 in deep (25.4 cm dia x 6.4 cm deep) with pouring spout, weight 145 g	$20.00
97250	80250400	Stainless steel scoop 11.9 x 7.4 x 1.7 in (30 cm x 18.7 cm x 4.3 cm)	35.00
100292	80250954	Stainless steel scoop 17.2 in x 11 in x 3.4 in (44 cm x 28 cm x 8.5 cm)	44.00

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Valor™ 1000

Compact Precision Scales

Capacity: 3000g-30,000g Readability: 0.5g-500g



APPROVALS

CE NSF

STANDARD FEATURES

- Standard software includes applications for checkweighing, accumulation and multiple units of measure
- Removable stainless steel platform cover
- Mid-profile ABS plastic housing
- Front-mounted leveling device
- Long lasting internal rechargeable battery (standard)
- Compact footprint
- Fast response time
- Easy to clean

SPECIFICATIONS

	V11P3	V11P6	V11P15	V11P30
Part Number	**102767**	**102768**	**102769**	**102770**
List Price	**$175.00**	**$175.00**	**$175.00**	**$175.00**
Capacity (kg)	3	6	15	30
Resolution (kg)	0.0005	0.001	0.002	0.005
Decimal ounce (oz)	105 oz x 0.02 oz	210 oz x 0.05 oz	520 oz x 0.1 oz	1058 oz x 0.5 oz
Decimal pound (lb)	6.6 lb x 0.00 1lb	13 lb x 0.002 lb	33 lb x 0.01 lb	66 lb x 0.02 lb
Grams (g)	3000 g x 0.5 g	6000 g x 1 g	15000 g x 2 g	30000 g x 5 g
Operating Modes	Weigh, accumulate, checkweigh			
Construction	ABS plastic housing, stainless steel pan			
Stabilization Time (sec)	<=3 seconds			
Operating Temperature	32¡F to 104¡F (0¡C to 40¡C) at 10% to 95% relative humidity Non-condensing, up to 2.5 miles / 4000m above sea level			
Scale Overload	120% of capacity			
Pan size	9.9w x 7.1d in / 250w x 180d mm			
Dimensions	10w x 12d x 4.3h in / 250w x 307d x 110h mm			
Weight (Approx.)	7 lb / 3.2 kg			
Est. Ship Weight	8.8 lb / 4.0 kg			
Power	120 VAC adapter included / 9 VDC 500 mA) Internal rechargeable sealed lead acid battery (included)			
Battery life	80/100 hours (with / without backlight on) with 12-hour recharge time			
Warranty	One-year limited			

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
33451	3369-10	Polypropylene Maxi-Scoop™ 10 in dia x 2.5 in deep (25.4 cm dia x 6.4 cm deep) with pouring spout, weight 145 g	$20.00
97250	80250400	Stainless steel scoop 11.9 x 7.4 x 1.7 in (30 cm x 18.7 cm x 4.3 cm)	35.00
100292	80250954	Stainless steel scoop 17.2 in x 11 in x 3.4 in (44 cm x 28 cm x 8.5 cm)	44.00

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RICE LAKE WEIGHING SYSTEMS

NEW Cubis®

Milligram Balances

Capacity: 320g-3200g Readability: 0.0001g-0.01g



The modular system offers you a choice of display and control units, weighing modules and draft shields
Bluetooth is a registered trademark of Bluetooth SIG

STANDARD FEATURES

- Module design
- User configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- Q-guide enables tasks and work (MSA display)
- Electrically conductive coating on glass panels of draft shield
- RS-232 and USB communication
- Easy cleaning by removing glass doors
- Underweigh hook included
- Choice of display
- MSE - large LCD display and easy menu system
- MSU - monochrome graphic display, positive click on keys to activate functions, Ethernet and SD Card Reader
- MSA - TFT color touchscreen, Ethernet and SD Card Reader options
- Motor-driven draft shield
- Draft shield eliminates electrostatic charges
- Bluetooth® Wireless technology

SPECIFICATIONS

	3203P	2203S	2203P	1203S	623S	623P	323S
MSE*	**Part Number**	**109803**	**109804**	**109805**	**109806**	**109807**	**109808**	**109809**
MSE*	**List Price**	**$6,300.00**	**$6,510.00**	**$5,250.00**	**$4,935.00**	**$3,570.00**	**$3,150.00**	**$3,150.00**
MSU**	Part Number	109810	109811	109812	109813	109814	109815	109816
MSU**	List Price	$6,825.00	$7,035.00	$5,775.00	$5,460.00	$4,095.00	$3,675.00	$3,675.00
MSA***	**Part Number**	**109817**	**109818**	**109819**	**109820**	**109821**	**109822**	**109823**
MSA***	**List Price**	**$7,350.00**	**$7,560.00**	**$6,300.00**	**$5,985.00**	**$4,620.00**	**$4,200.00**	**$4,200.00**
Capacity (g)	1010/3200g	2200g	1010/2200g	1200g	620g	150/300/620g	320g
Resolution (mg)	1/10 mg	1mg	1 / 10mg	1mg	1mg	1, 2, 5mg	1mg
Weighing Modes	Grams, Kilograms, Carat, Pounds, Ounces, Troy ounce, Tael Hong Kong, Tael Singapore, Tael Taiwan, Grain, Pennyweight, Milligram, Parts per Pound, Tael China, Mommes, Austrian Carat, Tola, Baht, Mesghal, Ton, Pound:Ounces, Newton, Micrograms						
Operating Modes (*)	Mass Unit Conversion, SQ min function, ISO-Cal function, Density determination (Buoyancy method only with MSE), Calculation, Averaging, Formulation, Percent weighing, Totalizing, Counting, Customized identification, Statistics, Time control function, Second tare memory, Over/Under Checkweighing						
Repeatability (mg)	1/6 mg	1mg	1/6 mg	0.7mg	0.7mg	1/2/4 mg	0.7mg
Linearity	5mg	3mg	5mg	2mg	2mg	5mg	2mg
Stabilization Time (s)	1	1	1	1	0.8	0.8	0.8
Operating Temperature	41 to 104 deg F (+5 to 40 deg C)						
Weighing Chamber (DE)	8 x 8 x 7 in. (from pan) / 200 x 200 x 179mm						
Pan size	5.5 x 5.5 in. / 140 x 140 mm						
Dimensions	410 x 249 x 281.4mm (16 x 9.8 x 11in. with manual draft shield)						
Weight (Approx.)	17 lb				17 lb		
Est. Ship Weight	27 lb				25 lb		
Calibration Weight (g)	2000g	2000g	1000g	1000g	500g	500g	200g
Power	120 VAC adapter (240VAC adapter available by special order						
Warranty	Three-year limited warranty						
*MSE	**Large LCD display and easy to use menu system**						
** MSU	**Monochrome graphic display, positive click on keys to activate functions, Ethernet and SD card reader**						
***MSA	**TFT color touchscreen, Ethernet and SD card reader**						

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Cubis®

Milligram Balances

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
Consult	DU	Manual draft shield for analyticals (larger than DE milligram draft shield)	$525.00
Consult	DA	Automatic motorized draft shield for analytical balances	1,575.00
Consult	DI	Automatic motorized draft shield for analytical balances, with integrated ionizer	3,150.00
Consult	100	Fully automatic motorized leveling, one key touch, MSA MSU only	840.00
Consult	TR	Certificate of compliance and full factory test report	105.00
Consult	IR	Additional RS-232, 25-pin connection	157.50
Consult	IB	Bluetooth wireless interface	210.00
Consult	IP	Additional RS-232, 9-pin connection with PS2 port	210.00

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Cubis®

Toploading Balances

Capacity: 1200g-12,200g Readability: 0.01g-0.1g



The modular system offers you a choice of display and control units, weighing modules and draft shields
Bluetooth is a registered trademark of Bluetooth SIG

STANDARD FEATURES

- Fast stabilization time
- Module design
- User configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- Q-guide enables tasks and work
- Electrically conductive coating on glass panels of draft shield
- RS-232 and USB communication
- Easy cleaning by removing glass doors
- Weigh underweigh included
- Choice of display
- MSE - large LCD display and easy menu system
- MSU - monochrome graphic display, positive click on keys to activate functions, Ethernet and SD Card Reader
- MSA - TFT color touchscreen, Ethernet and SD Card Reader options

Options

- Motor-driven draft shield
- Draft shield eliminates electrostatic charges
- Bluetooth® Wireless technology

SPECIFICATIONS

	10202S	8202S	6202S	6202P	4202S	2202S	1202S	12201S	8201S	5201S
MSE*	**Part Number**	**109826**	**109827**	**109828**	**109829**	**109830**	**109831**	**109832**	**109833**	**109834**	**109835**
	List Price	**$4,725.00**	**$4,095.00**	**$3,575.00**	**$3,360.00**	**$3,150.00**	**$2,835.00**	**$2,625.00**	**$3,360.00**	**$2,835.00**	**$2,100.00**
MSU**	Part Number	109836	109837	109838	109839	109840	109841	109842	109843	109844	109845
	List Price	$5,250.00	$4,620.00	$4,095.00	$3,885.00	$3,675.00	$3,360.00	$3,150.00	$3,885.00	$3,360.00	$2,625.00
MSA***	**Part Number**	**109846**	**109847**	**109848**	**109849**	**109850**	**109851**	**109852**	**109853**	**109854**	**109855**
	List Price	**$5,775.00**	**$5,145.00**	**$4,620.00**	**$4,410.00**	**$4,200.00**	**$3,885.00**	**$3,675.00**	**$4,410.00**	**$3,885.00**	**$3,150.00**
Capacity (g)		10200g	8200g	6200g	1500/3000/6200g	4200g	2200g	1200g	12200g	8200g	5200g
Resolution (mg)		10mg	10mg	10mg	10/20/50mg	10mg	10mg	10mg	100mg	100mg	100mg
Weighing Modes		Grams, Kilograms, Carat, Pounds, Ounces, Troy ounce, Tael Hong Kong, Tael Singapore, Tael Taiwan, Grain, Pennyweight, Milligram, Parts per Pound, Tael China, Mommes, Austrian Carat, Tola, Baht, Mesghal, Ton, Pound:Ounces, Newton, Micrograms								
Operating Modes (*)		Mass Unit Conversion, SQ min function, ISO-Cal function, Density determination (Buoyancy method only with MSE), Calculation, Averaging, Formulation, Percent weighing, Totalizing, Counting, Customized identification, Statistics, Time control function, Second tare memory, Over/Under Checkweighing								
Repeatability (mg)		7	7	7	7/20/1940	7	7	7	50	50	50
Linearity (mg)		20	20	20	20	20	20	20	200	100	100
Stabilization Time (s)		1	1	1	1	0.8	0.8	0.8	0.8	0.8	0.8
Operating Temperature		41 to 104 deg F (+5 to 40 deg C)									
Pan size		8.1 x 8.1 in. (206 x 206 mm)									
Dimensions		16 x 9.8 x 3.5 in. (410 x 249 x 87.7 mm)									
Weight (Approx.)		16lb									
Est. Shipping Weight		21 lb									
Calibration Weight (g)		10kg	5kg	5kg	5kg	2kg	2kg	1kg	10kg	5kg	5kg
Power		120VAC adapter (Other adapters available by special order)									
Warranty		Three-year limited warranty									
*MSE	**Large LCD display and easy to use menu system**										
** MSU	**Monochrome graphic display, positive click on keys to activate functions, Ethernet and SD card reader**										
***MSA	**TFT color touchscreen, Ethernet and SD card reader**										

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Cubis®

Toploading Balances

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
Consult	TR	Certificate of compliance and full factory test report	$105.00
Consult	IR	Additional RS-232, 25-pin connection	157.50
Consult	IB	Bluetooth wireless interface	210.00
Consult	IP	Additional RS-232, 9-pin connection with PS2 port	210.00

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Cubis®

Semi-Micro and Analytical Balances

Capacity: 60g-320g Readability: 0.00001g-0.0001g



The modular system offers you a choice of display and control units, weighing modules and draft shields

STANDARD FEATURES

- Module design
- User configurable and custom designed to meet changing applications
- Meets advanced Pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- Q-guide enables tasks and work (MSA display)
- Electrically conductive coating on glass panels of draft shield
- RS-232 and USB communication
- Easy cleaning by removing glass doors
- Underweigh hook included
- Choice of display
- MSE - large LCD display and easy menu system
- MSU - monochrome graphic display, positive click on keys to activate functions, Ethernet and SD Card Reader
- MSA - TFT color touchscreen, Ethernet and SD Card Reader

Options

- DA motor-driven draft shield
- DI draft shield eliminates electrostatic charges

SPECIFICATIONS

		225S	225P	125P	324S	224S	324P	124S
MSE*	**Part Number**	**109776**	**109777**	**109778**	**109779**	**109780**	**109781**	**109782**
	List Price	**$8,400.00**	**$7,350.00**	**$5,250.00**	**$5,250.00**	**$4,620.00**	**$4,620.00**	**$3,885.00**
MSU**	Part Number	109783	109786	109788	109794	109790	109791	109792
	List Price	$8,925.00	$7,875.00	$5,775.00	$5,775.00	$5,145.00	$5,145.00	$4,410.00
MSA***	**Part Number**	**109795**	**109796**	**109797**	**109798**	**109799**	**109800**	**109811**
	List Price	**$9,450.00**	**$8,400.00**	**$6,300.00**	**$6,300.00**	**$5,670.00**	**$5,670.00**	**$7,035.00**
	Capacity (g)	220g	60/120/220g	60/120g	320g	220g	80/160/320g	120g
	Resolution (mg)	0.01mg	0.01/0.02/0.05mg	0.01/0.1mg	0.1mg	0.1mg	0.1/0.2/0.5mg	0.1mg
	Weighing Modes	Grams, Kilograms, Carat, Pounds, Ounces, Troy ounce, Tael Hong Kong, Tael Singapore, Tael Taiwan, Grain, Pennyweight, Milligram, Parts per Pound, Tael China, Mommes, Austrian Carat, Tola, Baht, Mesghal, Ton, Pound:Ounces, Newton, Micrograms						
	Operating Modes	Mass Unit Conversion, SQ min function, ISO-Cal function, Density determination (Buoyancy method only with MSE), Calculation, Averaging, Formulation, Percent weighing, Totalizing, Counting, Customized identification, Statistics, Time control function, Second tare memory, Over/Under Checkweighing						
	Repeatability (mg)	0.025mg	0.015/0.04mg	0.015/0.06mg	0.1mg	0.07mg	0.1/0.2/0.4mg	0.1mg
	Linearity (mg)	0.1mg	0.15mg	0.15mg	0.3mg	0.2mg	0.5mg	0.2mg
	Stabilization Time	2	2	2	1	1	1	1
	Operating Temperature	41 to 104 deg F (+5 to 40 deg C)						
	Weighing Chamber	8 x 8 x 10.2 in. / 205 x 205 x 261 mm						
	Pan size	3.3 x 3.3 in. / 85 x 85 mm						
	Dimensions	410 x 249 x 370.4mm (16 x 9.8 x 14.6in with manual draft shield)						
	Weight (Approx.)	18 lb		18 lb				
	Est. Ship Weight	31.9 lb		29.7lb				
	Calibration Weight (g)	200g	200g	100g	300g	200g	300g	100g
	Power	120VAC adapter (other adapters available by special order)						
	Warranty	Three year limited warranty						
*MSE	**Large LCD display and easy to use menu system**							
** MSU	**Monochrome graphic display, positive click on keys to activate functions, Ethernet and SD card reader**							
***MSA	**TFT color touchscreen, Ethernet and SD card reader**							

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Cubis®

Semi-Micro and Analytical Balances

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
Consult	DA	Automatic motorized draft shield for analytical balances	$1,575.00
Consult	DI	Automatic motorized draft shield for analytical balances, with integrated ionizer	3,150.00
Consult	100	Fully automatic motorized leveling, one key touch, MSU/MSA only	840.00
Consult	TR	Certificate of compliance and full factory test report	105.00
Consult	IR	Additional RS-232, 25-pin connection	157.50
Consult	IB	Bluetooth wireless interface	210.00
Consult	IP	Additional RS-232, 9-pin connection with PS2 port	210.00

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Genius

Ultra-Micro/Micro/Semi-Micro

Capacity: 2.1g-610g Readability: 0.0000001g-0.0001g



ME Additional Features

- Easily removed draft chamber for cleaning or retrieval of dropped samples

ME235P-SD Additional Features

- Short draft shield for pipette calibration or for use in automated systems
- Upper draft shield element with 2.36 in (60 mm) diameter opening and lid

STANDARD FEATURES

- Underweigh function
- RS-232 full-duplex interface
- GLP/GMP printout protocol
- Backlit LCD display
- isoCAL calibration
- Reprotest
- SQmin
- Configured printout
- Additional printer port: user friendly design, displays menu and prompts in plain English
- Number keys
- Alpha keys
- Applications on board: counting, checkweighing, percent weighing, unit toggle, net total, backweighing, animal weighing, formulation, statistics, calculation, timer, density determination, memory (300)

SPECIFICATIONS

		SE2^	SE2-F^	ME5^	ME5-F^	ME36S^
	Part Number	79215	83228	79216	83229	98034
	List Price	$24,800.00	$26,800.00	$19,700.00	$20,700.00	$16,500.00
SD - SHORT DESIGN DRAFT SHIELD	Part Number	—	—	—	—	—
SD - SHORT DESIGN DRAFT SHIELD	List Price	—	—	—	—	—
	Capacity (g)	2.1g	2.1g	5.1g	5.1g	31g
	Resolution (mg)	0.0001mg	0.0001 mg	0.001 mg	0.001 mg	0.001mg
	Weighing Modes	Grams, Kilograms, Carats, Pounds, Ounces, Troy ounces, Hong Kong Taels, Singapore taels, Grains, Pennyweights, Milligrams, Parts per pound, Chinese taels, Momme, Austrian carats, Tola, Baht, Mesghal				
	Operating Modes	Counting, Checkweighing, Percent weighing, Unit toggle, Animal weighing, Net total, Formulation, Statistics, Calculation, Timer, Backweighing, Density Determination, Memory (300), Diameter Determination				
	Repeatability	0.25ug		1 ug		2 ug
	Linearity	0.9 ug		4 ug		10 ug
	Stabilization Time	10 seconds				14-18 seconds
	Operating Temperature	41 to 104 deg F (5 to 40 deg C)				
	Weighing Chamber Dimensions	85mm dia. x 77mm (3.3 in. dia. x 3 in.)	106mm dia. x 35mm (4.1 in. dia. x 1.4 in.)	85mm dia. x 77mm (3.3 in. dia. x 3 in).	106mm dia. x 35mm (4.1 in. dia. x 1.4 in.)	222 x 180 x 180mm (8.7 x 7 x 7 in.)
	Pan size	0.8in (20mm) dia		1.2in (30mm) dia		
	Dimensions	Weight cell 122x315. x121.5 mm Electronic unit 254 320x106 mm	Weight cell 122x318x106 mm Electronic unit 254 320x106 mm	Weight cell 122x315.5x121.5mm Electronic unit 254 320x106 mm	Weight cell 122x318x106 mm Electronic unit 254 320x106 mm	Weight cell 222x419x290 mm Electronic unit 254 320x106 mm
	Est. Ship Weight	28 lb				40 lb
	Calibration Weight	2 g		5 g		
	Power	120VAC adapter				
	Warranty	Three-year factory warranty				

^ Weighing Chamber

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Genius

Ultra-Micro/Micro/Semi-Micro

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
112261	YDP20-0CE	Data printer with statistics and time/date functions (included cable fits RS-232)	$950.00
31103	6906937	Paper for data printer, 5 pack	25.00
31106	6906918	Replacement ribbon for data printer	33.00
70481	YCP03-2	PICASO* pipette calibration software only (Windows®)	970.00
31071	YRB05Z	Battery pack, rechargeable, external	525.00
70487	YRD02Z	Remote display, reflective, 3 ft (fits RS-232)	395.00
70488	YRD11Z	Indicator, red-green-red, for over/under checkweighing and checkweighing software, 9 ft (fits RS-232)	505.00
31117	IDAC-97	Digital-to-analog converter (fits RS-232)	975.00
70489	QLC-97	Quad limit controller (fits RS-232)	1,200.00
46529	YFS01	Foot switch with T-connector, for remote control of print, tare, cal, F, CFR, or toggle key (set up in menu)	310.00
70490	YHS02	Hand switch with T-connector, for remote control of print, tare, cal, F, CF, or toggle key (setup in menu)	340.00
32637	LD2	Locking device, anti-theft	61.00
31121	YPE01RC	Foot switch with T-connector, open/close door, tare, print (SE only)	255.00
50232	6971413	Power supply, 110V	80.00

** PICASO: pipette calibration software for Windows®*
Windows is a registered trademark of Microsoft Corporation.

SPECIFICATIONS

	ME235S^	ME235P^	ME254S	ME414S	ME614S
Part Number	**79217**	**79218**	**66498**	**32633**	**79221**
List Price	**$11,300.00**	**$9,900.00**	**$7,950.00**	**$8,800.00**	**$9,800.00**
SD - SHORT DESIGN DRAFT SHIELD					
Part Number	—	**79219**	—	—	—
List Price	—	**$10,400**	—	—	—
Capacity (g)	230g	60/110/230g	250g	410g	610g
Resolution (mg)	0.01mg	0.01/0.02/0.05mg	0.1mg	0.1mg	0.1mg
Weighing Modes	Grams, Kilograms, Carats, Pounds, Ounces, Troy ounces, Hong Kong Taels, Singapore taels, Grains, Pennyweights, Milligrams, Parts per pound, Chinese taels, Momme, Austrian carats, Tola, Baht, Mesghal				
Operating Modes	Counting, Checkweighing, Percent weighing, Unit toggle, Animal weighing, Net total, Formulation, Statistics, Calculation, Timer, Backweighing, Density Determination, Memory (300), Diameter Determination				
Repeatability	0.01 mg	0.01/0.02 0.05mg	0.1mg		
Linearity	0.1 mg	0.15mg		0.3 mg	0.4mg
Stabilization Time	Less than or equal to 8 seconds				
Operating Temperature	41 to 104 deg F (5 to 40 deg C)				
Weighing Chamber Dimensions	194 x 184 x 292mm (7.6 x 7.2 x 11.5 in.)	194 x 184 x 292mm (7.6 x 7.2 x 11.5 in) short draft shield 194 x 184 x 234mm (7.6 x 7.2 x 9.2 in.)	194 x 184 x 292mm (7.6 x 7.2 x 11.5 in.)	194 x 184 x 292mm (7.6 x 7.2 x 11.5 in.)	194 x 184 x 292mm (7.6 x 7.2 x 11.5 in.)
Pan size	5.5 inc (90mm) dia				
Dimensions	252x533x292mm (10x21x11.5 in)	252x533x292mm (10x21x11.5 in)	252x533x292mm (10x21x11.5 in)	252x533x292mm (10x21x11.5 in)	252x533x292mm (10x21x11.5 in)
Est. Ship Weight	40 lb				
Calibration Weight	200 g			400g	600g
Power	120VAC adapter				
Warranty	Three-year factory warranty				

^ Weighing Chamber

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Extend Series

Analytical/Precision Balances

Capacity: 120g-8200g Readability: 0.0001g-0.1g



STANDARD FEATURES

Analytical

- Fast cleaning and rugged design
- User-friendly operation
- Backlit and high-contrast display
- Convenient level indicator
- RS-232 interface standard
- Applications on board: counting, percent weighing, animal weighing, density determination, calculation, unit toggle (up to five units)
- Draft shield design provides optimal visibility

Precision

- Optional adapter cable enables you to connect a device, such as a computer, the USB interface port
- Icons tell you at a glance which applications you have selected, such as weigh averaging/dynamic animal weighing, net-total formulation or counting
- Hanger for below-balance weighing is easy to access
- RS-232 interface standard
- Applications on board: counting, percent weighing, animal weighing, density determination, calculating unit toggle (up to five units)
- Standard version without internal calibration, CW version includes internal calibration

SPECIFICATIONS

	ED224S^	ED124S^	ED153	ED323S	ED423S	ED623S	ED822
Part Number	**92839**	**92840**	**92841**	**92843**	**92845**	**92847**	**92849**
List Price	**$3,025.00**	**$2,615.00**	**$1,310.00**	**$1,455.00**	**$1,940.00**	**$2,290.00**	**$1,225.00**
INT CAL (CW) **Part Number**	—	—	**92842**	**92844**	**92846**	**92848**	**92850**
INT CAL (CW) **List Price**	—	—	**$1,610.00**	**$1,790.00**	**$2,275.00**	**$2,625.00**	**$1,555.00**
Capacity (g)	220g	120g	150g	320g	420g	620g	820g
Resolution (g)	0.1 mg	0.1 mg	0.001g	0.001g	0.001g	0.001g	0.01g
Weighing Modes	User Def. Grams, Kilograms, Carats, Pounds, Ounces, Troy ounces, Hong Kong taels, Singapore taels, Taiwanese taels, Grains, Pennyweights, Milligrams, Parts per pound, Chinese taels, Mommes, Austrian carats, Tola, Baht, Mesghal, Tons, Pounds:ounces, Newton						
Operating Modes	Counting, Percent weighing, Animal Weighing, Density Determination, Calculating, Unit Toggle (up to 5)						
Repeatability (g)	0.0001g		0.01g				
Linearity (g)	0.0002g		0.01g				
	10 to 30 deg C (50 to 86 deg F)						
Weighing Chamber	173 x 176 x 240mm 7 x 7 x 9.5in.		165mm ø x 54mm 6.5in. ø x 2.1in.				—
Pan size	90 mm (3.5in)		115mm (4.5in)				150 mm (5.9in) ø
Dimensions	230 x 303 x 330mm 9 x 12 x 13in.		230 x 303 x 136mm 9 x 12 x 5.3in.				230 x 303 x 87mm 9 x 12 x 3.4in.
Weight (Approximate)	11 lb		8 lb				
Calibration Weight (g)	200g	100g	100g	200g	200g	500g	500g
Power	120VAC adapter (Other adapters available by special order)						
Warranty	Three-year limited warranty						

^ Weighing Chamber

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Extend Series

Analytical/Precision Balances

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
112261	YDP20-0CE	Data printer with date, time and statistics functions	$950.00
98038	YCC01-USM2	Cable (1.8 m) for connecting a Sartorius laboratory balance with a RS-232C interface port to a 25-contact D-sub female connector or a PC with a USB port	95.00
50232	6971413	Power Supply, 110V	80.00

SPECIFICATIONS

	ED2202S	ED3202S	ED4202S	ED6202S	ED2201	ED5201	ED8201
Part Number	**92851**	**92853**	**92855**	**92857**	**92859**	**92861**	**92863**
List Price	**$1,405.00**	**$1,460.00**	**$1,980.00**	**$2,355.00**	**$1,240.00**	**$1,380.00**	**$1,525.00**
Part Number	**92852**	**92854**	**92856**	**92858**	**92860**	**92862**	**92864**
List Price	**$1,735.00**	**$1,800.00**	**$2,310.00**	**$2,685.00**	**$1,570.00**	**$1,645.00**	**$1,775.00**
Capacity (g)	2200g	3200g	4200g	6200g	2200g	5200g	8200g
Resolution (g)	0.01g	0.01g	0.01g	0.01g	0.1g	0.1g	0.1g
Weighing Modes	User Def. Grams, Kilograms, Carats, Pounds, Ounces, Troy ounces, Hong Kong taels, Singapore taels, Taiwanese taels, Grains, Pennyweights, Milligrams, Parts per pound, Chinese taels, Mommes, Austrian carats, Tola, Baht, Mesghal, Tons, Pounds:ounces, Newton						
Operating Modes	Counting, Percent weighing, Animal Weighing, Density Determination, Calculating, Unit Toggle (up to 5)						
Repeatability (g)	0.01g				0.1g		
Linearity (g)	0.01g				0.1g		
	10 to 30 deg C (50 to 86 deg F)						
Weighing Chamber	—						
Pan size	7.1 x 7.1in						
Dimensions	230 x 303 x 90.5mm (9 x 12 x 3.5in)						
Weight (Approximate)	8 lb						
Calibration Weight (g)	2000g	2000g	2000g	5000g	2000g	5000g	5000g
Power	120VAC adapter (Other adapters available by special order)						
Warranty	Three-year limited warranty						

INT CAL (CW)

^ Weighing Chamber

Sartorius Mechatronics

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CPA Series

Micro & Analytical Balances

Capacity: 5g-34,000g Readability: 0.000002g-0.0001g



STANDARD FEATURES

- All models have built-in internal calibration weights
- Automatic calibration at present time or temperature intervals
- RS-232C bidirectional interface port on all models
- High-contrast, blue backlit display
- 29 models available, from micro balances to 34 kg high capacity top loading balances
- Monolithic weigh cell provides stability and fast response

SPECIFICATIONS

	CPA26P	CPA2202S	CPA3202S	CPA4202S	CPA2202S-DS	CPA5202S-DS	CPA6202P	CPA6202S
Part Number	**105570**	**105586**	**105585**	**105584**	**105587**	**105583**	**105588**	**105582**
List Price	**$12,200.00**	**$2,000.00**	**$2,255.00**	**$2,460.00**	**$2,440.00**	**$3,060.00**	**$2,700.00**	**$3,160.00**
Capacity (g)	5/21g	2200g	33200g	4200g	2200g	5200g	1500/3000/6200g	6200g
Resolution (mg)	2/10 µg	0.01g	0.01g	0.01g	0.01g	0.01g	0.01/0.02/0.05g	0.01g
Weighing Modes	Grams, Kilograms, Carats, Pounds, Ounces, Troy ounces, Hong Kong taels, Singapore taels, Taiwanese taels, Grains, Pennyweights, Milligrams, Parts per pound, Chinese taels, Mommes, Austrian carats, Tola, Baht, Menghal							
Operating Modes	Counting, Percent weighing, Animal weighing, Unit Toggle, Net total							
Repeatability	+/-4µg	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g
Linearity	+/-8µg	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g
Stabilization Time	10 Sec.	2 Sec	2 Sec	2 Sec	2 Sec	2 Sec	2 Sec	2 Sec
Operating Temperature	10 to 30 deg C (50 to 86 deg F)							
Weighing Chamber	206x242x178mm 8 x 9.5 x 7in.	—			174 x 181 x 240mm 6.8 x 7.1 x 9.4in.		—	
Pan size	50mm ø(2in)	8.6 x 7.9in			130mm (5/1in)		8.6 x 7.9in	
Dimensions	213x342x270mm 8.3x13.5x10.6in.	213 x 342 x 88mm. 8.4 x 13.5 x 3.5in.			213 x 342 x 240mm 8.4 x 13.5 x 9.4in.		213 x 342 x 88mm. 8.4 x 13.5 x 3.5in.	
Weight (Approx.)	16.7 lb	10.4lb			14.7 lb		10.4lb	
Est. Ship Weight	22 lb	14lb			21lb		14lb	
Calibration Weight (g)	20g	2000g	2000g	2000g	2000g	5000g	5000g	5000g
Power	120VAC adapter (Other adapters available by special order)							
Warranty	Three-year limited warranty							

	CPA5201	CPA8201	CPA10001	CPA12001S	CPA16001S	CPA34001P	CPA34001S	CPA34000
Part Number	**105591**	**105590**	**105589**	**105594**	**105593**	**105595**	**105592**	**105596**
List Price	**$2,055.00**	**$2,350.00**	**$2,510.00**	**$3,160.00**	**$3,625.00**	**$3,950.00**	**$4,600.00**	**$3,535.00**
Capacity (g)	5200g	8200g	10000g	12000g	16000g	8000/16000g	34000g	34000g
Resolution (mg)	0.1g	0.1g	0.1g	0.1g	0.1g	0.1/0.2/0.5g	0.1g	1g
Weighing Modes	Grams, Kilograms, Carats, Pounds, Ounces, Troy ounces, Hong Kong taels, Singapore taels, Taiwanese taels, Grains, Pennyweights, Milligrams, Parts per pound, Chinese taels, Mommes, Austrian carats, Tola, Baht, Menghal							
Operating Modes	Counting, Percent weighing, Animal weighing, Unit Toggle, Net total							
Repeatability	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g
Linearity	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g
Stabilization Time	2 Sec	2 Sec	2 Sec	2 Sec	2 Sec	2 Sec	2 Sec	2 Sec
Operating Temperature	10 to 30 deg C (50 to 86 deg F)							
Weighing Chamber	—							
Pan size	8.6 x 7.9in			15.6 x 11.7in				
Dimensions	213 x 342 x 88mm. 8.4 x 13.5 x 3.5in.			313 x 532 x 120mm 12.3 x 21 x 4.7in.				
Weight (Approx.)	10.4lb			35.3 lb				
Est. Ship Weight	14lb			46lb				
Calibration Weight (g)	5000g	5000g	5000g	10kg	10kg	10kg	10kg	10kg
Power	120VAC adapter (Other adapters available by special order)							
Warranty	Three-year limited warranty							

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CPA Series

Micro & Analytical Balances

Options/Accessories

PART #	DESCRIPTION	PRICE
112261	Data printers YDP20-OCE	$950.00
98038	Printer cable	95.00
31104	Paper, printer 5 rls/pk	20.00
31082	Density kit, Analytical (0.1 mg) software not included	625.00

SPECIFICATIONS

	CPA26P	CPA2P	CPA2P-F	CPA225D	CPA64	CPA124S	CPA224S
Part Number	**105570**	**105568**	**105569**	**105571**	**105575**	**105574**	**105573**
List Price	**$12,200.00**	**$14,300.00**	**$15,500.00**	**$5,210.00**	**$2,580.00**	**$3,090.00**	**$3,940.00**
Capacity (g)	5/21g	0.5/1/2g	0.5/1/2g	100/200g	64g	120g	220g
Resolution (g)	2/10 µg	0.001/0.002/0.005 mg	0.001/0.002/0.005 mg	0.01/0.1 mg	0.1 mg	0.1 mg	0.1 mg
Weighing Modes	Grams, Kilograms, Carats, Pounds, Ounces, Troy ounces, Hong Kong taels, Singapore taels, Taiwanese taels, Grains, Pennyweights, Milligrams, Parts per pound, Chinese taels, Mommes, Austrian carats, Tola, Baht, Menghal						
Operating Modes	Counting, Percent weighing, Animal weighing, Unit Toggle, Net total						
Repeatability	+/-4µg	+/-1/2/5µg	+/-1/2/5µg	+/-0.02/0.5/0.1mg	+/-0.1mg	+/-0.1mg	+/-0.1mg
Linearity	+/-8µg	+/-2/4/5µg	+/-2/4/5µg	+/-0.03/0.1/0.2mg	+/-0.2mg	+/-0.2mg	+/-0.2mg
Stabilization Time	10 Sec.	10 Sec.	10 Sec.	6/3 Sec.	2 Sec	2 Sec	2 Sec
Operating Temperature	10 to 30 deg C (50 to 86 deg F)						
Weighing Chamber	206 x 242 x 178mm 8 x 9.5 x 7in.	54 x 49.5 x 55.5mm 2.1 x 2 x 2.2in.	125 ø x 12mm 5 ø x .5in.	174 x 181 x 240mm 6.8 x 7.1 x 9.4in.			
Pan size	50mm ø(2in)	20mm ø(0.8in)	125mm ø(4.9in)	80 mm ø(3.1in)			
Dimensions	213 x 342 x 270mm 8.3 x 13.5 x 10.6in.	213 x 342 x 151mm 8.4 x 13.5 x 6in.	213 x 342 x 115mm 8.4 x 13.5 x 4.5in.	213 x 342 x 240mm 8.4 x 13.5 x 9.4in.			
Weight (Approx.)	16.7 lb	9.6 lb	11 lb	16.7 lb	14.7 lb		
Est. Ship Weight	22 lb	23 lb		23 lb	21 lb		
Calibration Weight (g)	20g	2g	2g	200g	50g	100g	200g
Power	120VAC adapter (Other adapters available by special order)						
Warranty	Three-year limited warranty						

	CPA324S	CPA223S	CPA323S	CPA423S	CPA623S	PA1003S	CPA1003P
Part Number	**105572**	**105580**	**105579**	**105578**	**105577**	**105576**	**105581**
List Price	**$4,740.00**	**$1,895.00**	**$2,165.00**	**$2,545.00**	**$2,920.00**	**$4,275.00**	**$3,785.00**
Capacity (g)	320g	220g	320g	420g	620g	1010g	500/1010g
Resolution (g)	0.1 mg	0.001g	0.001g	0.001g	0.001g	0.001g	0.001/0.01g
Weighing Modes	Grams, Kilograms, Carats, Pounds, Ounces, Troy ounces, Hong Kong taels, Singapore taels, Taiwanese taels, Grains, Pennyweights, Milligrams, Parts per pound, Chinese taels, Mommes, Austrian carats, Tola, Baht, Menghal						
Operating Modes	Counting, Percent weighing, Animal weighing, Unit Toggle, Net total						
Repeatability	+/-0.1mg	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g
Linearity	+/-0.2mg	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g	+/-0.001g
Stabilization Time	2 Sec	1.5 Sec	1.5 Sec	1.5 Sec	1.5 Sec	2 Sec	2 Sec
Operating Temperature	10 to 30 deg C (50 to 86 deg F)						
Weighing Chamber	174 x 181 x 240mm 6.8 x 7.1 x 9.4in.	132 ø x 56mm 5.2 ø x 2.2in				174 x 181 x 240mm 6.8 x 7.1 x 9.4in.	
Pan size	80 mm ø(3.1in)	110 mm ø(4.3in)					
Dimensions	213 x 342 x 240mm 8.4 x 13.5 x 9.4in.	213 x 342 x 153mm 8.4 x 13.5 x 6in.				213 x 342 x 240mm 8.4 x 13.5 x 9.4in.	
Weight (Approx.)	14.7 lb	10 lb				14.7lb	
Est. Ship Weight	21 lb	15lb					
Calibration Weight (g)	300g	200g	200g	200g	500g	1000g	1000g
Power	120VAC adapter (Other adapters available by special order)						
Warranty	Three-year limited warranty						

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Talent Series

Analytical & Portable Balances

Capacity: 60g-12,000g Readability: 0.0001g-1g



STANDARD FEATURES

- Monolithic DLS weighing system for fast stable results
- Standard RS-232 adapter connects to data printer, PC or to a remote display
- Rugged housing and stainless steel weighing pan
- External calibration
- LCD display
- Applications on-board: counting, percent, unit toggle, animal weighing, net total
- Draft chamber dimensions: 7 in x 5.8 in x 7.8 in (W x D x H)

SPECIFICATIONS

	TE64^	TE124S^	TE214S^	TE153S^	TE313S^	TE1502S	TE3102S	TE212	TE412
Part Number	**82740**	**82741**	**82742**	**82743**	**82745**	**82750**	**82751**	**82747**	**82748**
List Price	**$2,080.00**	**$2,395.00**	**$2,720.00**	**$1,100.00**	**$1,280.00**	**$1,235.00**	**$1,350.00**	**$755.00**	**$920.00**
(DS) DRAFT CHAMBER									
Part Number	—	—	—	82744	82746	—	—	—	—
List Price				$1,545.00	$1,645.00				
Capacity (g)	60g	120g	210g	150g	310g	1500g	3100g	210g	410g
Resolution (g)	0.1 mg	0.1 mg	0.1 mg	0.001g	0.001g	0.01g	0.01g	0.01g	0.01g
Weighing Modes	Grams, Kilograms, Carats, Pounds, Ounces, Troy ounces, Hong Kong Taels, Singapore taels, Taiwanese taels, Grains, Pennyweights, Milligrams, Parts per pound, Chinese taels, Mommes, Austrian carats, Tola, Baht, Mesghal								
Operating Modes	Counting, Percent, Unit toggle, Animal weighing, Net total								
Repeatability (g)	+/-0.1 mg			+/-0.0015g	+/-0.001g	+/-0.015g	0.01g	+/-0.1g	
Linearity (G)	+/-0.2mg			+/-0.003g	+/-0.002g	+/-0.03g	0.02g	+/-0.2g	
Stabilization Time	3 seconds			2.5 seconds				2 seconds	
Operating Temperature	10 to 30 deg C (50 to 86 deg F)								
Weighing Chamber	165 x 138 x 220 6.5 x 5.4 x 8.6in.			(DS) 165 x 138 x 220 6.5 x 5.4 x 8.6in		—			
Pan size	90 mm (3.5in)			100 mm (3.9in)		6.9 x 5.6in.		116mm (4.5in)	
Dimensions	200 x 270 x 299mm 7.9 x 10.6 x 11.8in.			200 x 270 x 120mm 7.9 x 10.6 x 4.7in		200 x 270 x 70mm 7.9 x 10.6 x 2.7in			
Est. Ship Weight (lb)	6	11		6	7	6	7	5	
Calibration Weight (g)	50g	100g	200g	100g	200g	1000g	2000g	100g	200g
Battery option	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Power	120VAC adapter								
Warranty	Three-year limited warranty								

^ Weighing Chamber

RICE LAKE WEIGHING SYSTEMS

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Talent Series

Analytical & Portable Balances

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
112261	YDP20-OCE	Data printer with statistics and time/date functions (included cable fits RS-232)	$950.00
31103	6906937	Paper for data printer, five pack	25.00
31106	6906918	Replacement ribbon for data printer	33.00
45762	YRB08Z	Battery pack, rechargeable, external	330.00
50233	6971947	110 VAC power supply	37.00
70518	6971948	220 VAC power supply	37.00
70487	YRD02Z	Remote display, reflective, 3 ft (fits RS-232)	395.00
31117	IDAC-97	Digital-to-analog converter (fits RS-232)	975.00
70489	QLC-97	Quad limit controller (fits RS-232)	1,200.00
46529	YFS01	Foot switch with T-connector, for remote control of print, tare, cal, F, CFR, or toggle key (set up in menu)	310.00
70490	YHS02	Hand switch with T-connector, for remote control of print, tare, cal, F, CFR, or toggle key (setup in menu)	340.00
70519	641211	Weighing bowl (240 g), 1000 mL, chrome-nickel-steel, 7 in (177 mm) Dia, 2.8 in (71 mm) H	175.00
32637	LD2	Locking device, anti-theft	61.00

SPECIFICATIONS

	TE612	TE601	TE2101	TE4101	TE6101	TE4100	TE6100	TE12000
Part Number	**82749**	**82752**	**82753**	**82754**	**82755**	**82756**	**82757**	**82758**
List Price	**$1,050.00**	**$730.00**	**$825.00**	**$1,050.00**	**$1,290.00**	**$690.00**	**$840.00**	**$1,135.00**
Part Number	—	—	—	—	—	—	—	—
List Price								
Capacity (g)	610g	610g	2100g	4100g	6100g	4100g	6100g	12000g
Resolution (g)	0.01g	0.1g	0.1g	0.1g	0.1g	1g	g	1g
Weighing Modes	Grams, Kilograms, Carats, Pounds, Ounces, Troy ounces, Hong Kong Taels, Singapore taels, Taiwanese taels, Grains, Pennyweights, Milligrams, Parts per pound, Chinese taels, Mommes, Austrian carats, Tola, Baht, Mesghal							
Operating Modes	Counting, Percent, Unit toggle, Animal weighing, Net total							
Repeatability (g)	+/-0.1g			+/-1g				
Linearity (G)	+/-0.2g					+/-2g		
Stabilization Time	2 seconds	1.5 seconds		2 seconds		1.5 seconds		
Operating Temperature	10 to 30 deg C (50 to 86 deg F)							
Weighing Chamber	—							
Pan size	116mm (4.5in)	6.9 x 5.6in.						
Dimensions	200 x 270 x 70mm (7.9 x 10.6 x 2.7in)							
Est. Ship Weight (lb)	6							
Calibration Weight (g)	500g	500g	1000g	2000g	5000g	2000g	5000g	5000g
Battery option	8-AA batteries							
Power	120VAC adapter							
Warranty	Three-year limited warranty							

^ Weighing Chamber

(DS) DRAFT CHAMBER

Sartorius Mechatronics

MA Series

Moisture Analyzers

Capacity: 35g-100g Readability: 0.0001g-0.001g



MA35 Series



MA100 Series



MA150 Series

Additional Features, MA100 & MA150

- Choice of either ceramic (C) infrared or halogen (H) heating element. MA100 has the choice of ceramic (C), Quartz (Q) or halogen (H) heating. The MA150 is available with ceramic or quartz heating elements.
- Motorized heating element slides over sample to ensure stable initial weight reading
- In addition to time and automatic mode, for optimal results, the “asap” mode will automatically determine the best drying swift parameter mode
- MA50 has five program memories, MA150 has 20 program memories, and the MA100 has 30 program memories
- Backlit display ensures optimal readability under any lighting conditions
- ISO/GLP compliant printout capable with optional integrated printer
- Reprotest (MA-100 only)
- Homogenous sample heating with a choice of ceramic radiator or CQR quartz heating element (both infrared) (MA150)

STANDARD FEATURES

- External calibration

Additional Features, All IR Moisture Analyzers

- All units can show results in % moisture, % total solids and remaining dry residue in weight
- Units will yield results in 5–15 minutes with automatic mode (depending on sample make-up size)

Additional Features, MA35

- Field-proven, manual flip-up cover
- Opens wide for excellent access
- Easy to clean
- Standard version with glass panels
- Version with metal panels to meet FDA/HACCP regulations
- Equipped with two powerful metal tubular-shaped heating elements (providing 360 Watts of power)
- Rugged double level system
- 1-mg resolution and 35 g weighing capacity
- Optimized for use in high temperature ranges
- Concise display
- Icon-driven user interface
- Elimination of program selection menu
- Reduction of seldom-used programming options
- Fully automatic mode; sample is dried until weight is constant
- Time-controlled; 0.1-99 minutes
- Manual shutoff by user
- Printout generated by an external printer

Options/Accessories

PART #	MODEL #	DESCRIPTION	PRICE
46529	YFS01	Foot switch with T-connector for remote control of print, tare, cal, F, CFR or toggle key (set up in menu)	$310.00
70490	YHS02	Hand switch with T-connector for remote control of print, tare, cal, F, CFR or toggle key (set up in menu)	340.00
31084	6906940	Filters, glass fiber, box of 80	47.00
98063	YMP01MA	Disposable sample pans 50 units, aluminum, round, 90 mm	115.00
36907	YDP03-0CE	Data printer, external	950.00
31106	6906918	Replacement ribbon for data printer (PN 36907)	33.00
31103	690693	Paper rolls for data printer, 5 rolls, 50 m each	25.00
93390	YTM01MA	Temperature adjustment set	720.00
98064	YSL02MA	Standard operating procedure (SOP)	105.00

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MA Series

Moisture Analyzers

Options/Accessories Continued

MA100 SERIES ONLY			
98062	YDS03MA	Panel replacement sets, aluminum panels for replacing glass panels to meet FDA/HACCP regulations (conversion kit)	175.00
98065	YDB03MA	Carrying case	350.00
98066	YMW02MA	Windows® 2000/NT/XP-compatible software for data collection and for programming drying programs include interface cable, 9/28-pin	500.00
70548	YTM03MA	Temperature adjustment kit	355.00
70547	YDP01MA	Printer, integrated into unit (requires installation)	610.00
70487	YRD02Z	Remote display, reflective, 3 ft (fits RS-232)	395.00
32637	LD2	Locking device, anti-theft	61.00
70549	YWP11MA	Dishes 3.9 in, box of 50	35.00
12964		External calibration weight	72.00
12946		External calibration weight	80.00
MA35 SERIES ONLY			
12962		External calibration weight (-30 g ±0.3 mg)	72.00
31084	6906940	Filters, glass fiber, box of 80	47.00
70549	YWPO1MA	Aluminum dishes 3.9 in, box of 50	35.00

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SPECIFICATIONS

Model	MA35M-000115V1	MA-150C-000115V1	MA100C-000115V1
Part Number	**93429**	**103129**	**70544**
List Price	**$2,780.00**	**$3,920.00**	**$6,800.00**
Part Number	93430	103130	N/A
List Price	$2,780.00	$3,920.00	N/A
Part Number	**N/A**	**N/A**	**70545**
List Price	**N/A**	**N/A**	**$6,800.00**
Capacity (g)	35g	150g	100g
Resolution (g)	0.001g	0.001g	0.0001g
Heating Element	Metal tubular-shaped heating element (infrared dark radiator)	Ceramic IR heating element (infrared); CQR heater (coiled quartz radiator)	Ceramic IR heating element (infrared); Halogen lamp (infrared)
Heating Mode	Standard drying	Standard drying phase drying	Standard drying, quick drying, gentle drying, phase drying
Display Modes for Results	% moisture/ % dry weight (solids), % Ratio, g residue	% moisture, % dry weight, % ratio, mg weight loss, g residue, % ignition residue (after external ashing)	% moisture, % dry weight, % ratio, mg weight loss, g residue, residue g/kg
Repeatability	1-5g Sample +/-0.2% Over 5g Sample +/-0.05%	1-5g Sample +/-0.2% Over 5g Sample +/-0.05%	1-5g Sample +/-0.1% Over 5g Sample +/-0.05%
Analysis Mode	Fully Automatic or Timer setting (0.1- 99 min)	Fully Automatic, Semi-automatic, or Timer setting (0.1- 99 min)	Fully automatic; Semi-automatic 1-50mg/5-300 sec, 0.1-5.0%/5-300sec; Timer Mode + fully/ semi-automatic - 2+0.1-999 min.+automatic
RS-232	Bidirectional	Bidirectional	Bidirectional
Operating Temperature	+10 ... +30°C (+50° ... +86°F)		
Temperature range	40°C to 160°C	40 to 220 deg C	30 to 200 deg C
Pan size	3.5in (90mm)		
Dimensions (in)	223.5 x 365.8 x 190.5 mm (8.8 x 14.4 x 7.5 in)	213.4 x 320.0 x 180.3 mm (8.4 x 12.6 x 7.1 in)	350.5 x 452.1 x 154.9 mm (13.8 x 17.8 x 6.1 in)
Weight (Approx.)	12.8 lb	12.1 lb	17.5 lb
Calibration Weight (g)	30	50	100
Power	120VAC adapter		
Warranty	Three-year limited warranty		

*FDA approved panels

H-INT CAL V2 - METAL PANELS*

Sartorius Mechatronics

DISCONTINUED PRODUCTS

Availability limited to existing stock, contact Sales for pricing, additional specifications available upon request

Balances

66741	Balance,MB-150L Rice Lake	150gx0.01g 140mm/5.5in Round Pan 120VAC
66746	Balance,MB-3000L	Rice Lake 3000gx0.1g 170x142mm/6.7x5.6in Square Pan 120VAC
66754	Balance,QB-300L	Rice Lake 300gx0.01g 140mm/5.5in Round Pan 120VAC
66750	Balance,QB-1500L	Rice Lake 1500gx0.1g, 190x190mm/7.5x7.5in Square Pan, 120VAC
66751	Balance,QB-3000L	Rice Lake 3000gx0.1g 190x190mm/7.5x7.5in Square Pan 120VAC
66752	Balance,QB-3000SL	Rice Lake 3000gx0.01g, 190x190mm/7.5x7.5in Square Pan, 120VAC
66753	Balance,QB-6200L	Rice Lake 6200gx0.1g 190x190mm/7.5x7.5in Square Pan 120VAC
41540	Balance,QB-12KE	Rice Lake 12kg x1g 190x190mm/7.5x7.5in Square Pan 120VAC
82760	Balance,Sartorius,LE244S	Analytical, 240g x 0.1mg
82761	Balance,Sartorius,LE324S	Analytical, 320g x 0.1g
30996	Balance, Topload BP2100S	2100gx0.01g Sartorius 110VAC
82759	Balance,Sartorius,LE225D	Analytical, Multi-Range, 40/100/200g x 0.01g/0.01g/0.1g
52841	Scale, Washdown, Sartorius	Model QC5DCE-S 5,000g x 0.1g 110VAC IP65
87901	Scale, High Capacity	Sartorius EA3DCE-I, 3kg x 0.1g/6.6lb x 0.0002lb
33356	Balance, Mechanical	Model 750-SW 2610x0.1g OHAUS Triple Beam SS Plate W/Attachment
50230	Balance, Model GSI-2001	2000g x 1.0g 9V Battery Acculab
71275	Balance,200gx0.1mg	Acculab AL Series Model AL-204
71276	Balance, Toploader	200gx0.001g Acculab Model AL203
71280	Balance, Toploader	2,000gx0.1g Acculab Model AL-2001
71281	Balance, Toploader	4,000gx0.1g Acculab Model AL-4001
75343	Balance, Shimadzu UW420S	420g x 0.01g
71538	Balance, Topload BW320S	320gx.01g
71540	Balance, Dual Range BW320D	320gx60g
71541	Balance, Topload BW620S	620gx.01g
71542	Balance, Topload BW3200S	3200gx0.1g
71544	Balance, Topload BW6200S	6200gx0.1g
71546	Balance, Topload BX320H	320gx0.001g
71550	Balance, Topload BX620S	620gx0.01g
75289	Balance, Shimadzu BL320H	320g x 0.001g
75290	Balance, Shimadzu BL3200HL	3200g x 0.01g w/Backlit Display
75337	Balance, Shimadzu UW220H	220g x 0.001g
75344	Balance, Shimadzu UW820S	820g x 0.01g
75345	Balance, Shimadzu UW4200S	4,200g x 0.1g
75356	Balance, Shimadzu UX820S	820g x 0.01g
75358	Balance, Shimadzu UX8200S	8,200g x 0.1g
75101	Balance,VA-30K Acculab	30000g x 0.5g

Pipettes

88331	Rice Lake Breeze micro digital pipette	0.5 - 10uL
88332	Rice Lake Breeze micro digital pipette	2 - 20uL
88333	Rice Lake Breeze micro digital pipette	10 - 100uL
88334	Rice Lake Breeze micro digital pipette	20 - 200UL
88335	Rice Lake Breeze micro digital pipette	100 - 1000UL
78576	Pipette, Variable, Volume,	Macro, 31N-2N, 0.4~2.0ml X 0.1ml
78599	Dispenser, Repetitive,	Variable, Model 8100
79797	Pipette, Fixed Volume	00-NPF-50, 50ul
83112	Pipette, Man/Elec Hybrid	Nichipet Hybrid, Manual/Electronic, 5-30ul, 00-NHB-12S
78548	Pipette, Digital Micro	Nichipet EX, Stable, Autoclavable/UV Resistant Manual Digital Pipettor, 20~200UL X 0.2UL, NPX-200
78552	Pipette, Digital Micro	Nichipet EX, Stable, Autoclavable/UV Resistant Manual Digital Pipettor, 1000~10000UL X 10UL, NPX-10ML
84534	Pipette, EX Plus	0.1-2ulx0.002ul Increments, Autoclavable and UV Resistant, Single Channel
84537	Pipette, EX Plus	10-100ulx0.1ul Increments, Autoclavable and UV Resistant, Single Channel
84541	Pipette, EX Plus	1000-10000ulx10ul Increments, Autoclavable and UV Resistant, Single Channel
107546	100 - 1000uL Pipette Tip, 2 mini-stacks	
107547	2-200uL Pipette tips, 2 mini-stacks	
107548	0.5-10uL pipette tip, 2 mini-stacks	
78527	Disposable autoclavable racked tip P2/10 Type 0.1 to 10uL 96 pcs/rack	
78533	Disposable autoclavable racked tip, 2 to 200uL 96 pcs/rack	

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DISCONTINUED PRODUCTS

78548	Digital Micro Nichipet EX, Autoclavable 20 - 200uL
78552	Digital Micro Nichipet EX, Autoclavable 1000 - 10000uL
78576	Variable Volume, 3IN-2N, 0.4 2.0ml x 0.1ml
78599	Variable Repetitive Dispense, Model 8100
79797	Fixed Volume Pipette, 00-NPF-50, 50uL
83112	Man/Elec Hybrid Nichipet Pipette, 5-30uL, 00-NHB-12S
83121	ARS Sterilized, auotclavable racked tip, 96 x 10, P2/10 type, 10uL
84534	EX Plus Pipette, 0.1-2uL x 0.002ul increments, autoclavable and UV resistant, single channel
84537	EX Plus 10-100uL x 0.1uL increments, autoclavable and UV resistant, single channel
84541	EX Plus 1000-10,000uL x 10uL increments, autoclavable and UV resistant, single channel
88378	Micro centrifuge Natural graduate, 2.0ml ClickSeal
90973	Individual rack Clear, Sterilized autoclavable Universal tip, 1000uL, 96 tips per rack
90974	Individual rack Clear, Sterilized autoclavable Universal tip, 1000uL, 96 tips per rack
94751	Reloading tips, 200uL clear, graduated tip in racked reloading system with hinged top
94752	Reloading tips, 01 - 10uLuL clear, elongated ultra micro tip in racked reloading system with hinged top
94753	Reloading starter kit, includes 6 empty frames

Precision Products

79891	Vented Bal Safety Encl	Self exhausting with HEPA filtration. Includes black base, volume alarm, single 4 inch exhaust port plenum, vent kit, SS fan filter housing, HEPA filter and waste chute120VAC
88411	Mixer, Vortex-Genie 2	120VAC
88413	Mixer, Vortex-Genie 1	120VAC, includes timer function
88415	Mixer, Vortex-Genie 2T	120V, 1.5ml
88419	Mixer, Disruptor Genie	120VAC
88423	Mixer, Roto-Shake Genie	120VAC
88430	Mixer, MicroPlate Genie	Multiple Sample Starter Set
88436	Set, Starter, Mult Sample	For Use On All Vortex Genie Mixers, Accessory Model H302
88441	Set, Large Sample	Includes White Weigh Boats Of The Following Configurations
93964	Weigh Boat, Selection Pack	-1.00 - 15.00 pH x 0.01pH
89620	Meter, pH 11, Kit	20 pH Buffer Pouches, Three Sample Bottles, Rinse Bottle, Hard Carrying Case, Two Electrode Holders, Instructions, and Batteries. Reference Fill Solution For Double Junction or Calomel
89767	Solution, Reference Fill	Reference Refillable pH Electrodes, 4M KCl, 125ml Type K Thermometer, Includes Thermometer and Two AA Batteries
89917	Thermometer, Type K	Gen Purp Type K Probe, 4.5 inch, 316SS With 5 Feet Coiled Cable
89920	Probe, Type K	DuaLogR Thermocouple Thermometer With Dual J,T,E,K,R,S,N,B
89925	Thermometer, Thermocouple	Inputs and Two AA Batteries
		Economical Type K Thermometer, Probe Not Included
89935	Thermometer, Economical	Food Service Kit Includes Type T Thermocouple Thermometer,
89950	Kit, Thermometry	RLWS PN 89918, and four probes, RLWS PNs 89948, 89949 and Oakton PNs 08525-66 and 08468-74
		Food Safety IR Thermometer Includes Battery, Carrying Case, and
90956	Thermometer, IR	Quick Reference Card. All in One pH Electrode/Temperature Probe, Single Junction,
91162	Electrode, pH and ORP	Epoxy Body Double Junction, Epoxy Body, Refillable pH Electrode, Tefon
91190	Electrode, pH	Junction, 0 - 12 pH, Standard
		Semi Dome, Epoxy Body, Gel Filled, All In One Waterproof,
91220	Electrode, pH	Double Junction With 3 Feet of Cable.
		Cyanide CN, Epoxy Body, Single Junction, Range = 260 to 0.13ppm,
91248	Electrode, Ion Selective	Solid State
		Fluoride F- Double Junction Solution Kit
91319	Kit, Solution	Flat End, 1-1/8 in Long, Spoon End, 1-1/8 in Long x 3/4 in W
82894	Spatula, plastic	Overall Length 5-7/8 in, Plastic, Pack of 6
		Diamond Shaped, White, 30ml (80 x 60 x 14mm), Pack of 500
82902	Weigh Boat,	Hexagonal, White, Large, Approximately 4 in (102mm) Top x
82906	Weigh Boat,	3 Inch (76mm) Bottom, Pack of 500
		Aluminum, Round With Handle Tab, Small, 43 x 12 mm, Pack of 100
82913	Weigh Boat,	

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Notes

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Table of Contents

BELT SCALES

BCi

In-Motion Belt Scale **BTS-2**

BCi

In-Motion Belt Scale System





920i® Integrator



Speed Wheel



Magnetic Shaft Encoder

Note: Idler not included and customer is responsible for mounting idler to weigh frame

STANDARD FEATURES

- Large 4.6in W x 3.4in H 320 x 240 pixel back-lit LCD graphical display
- NEMA 4X/IP66 stainless steel display enclosure
- Four bidirectional communication ports
- Rate and speed time displayed by the hour, minute or second
- Measurement displayed in feet or meters
- Unit of rate displayed in tons, pounds, kilograms, metric tons or long tons
- Digital I/O for totalizer
- Analog outputs optional
- Alarm outputs optional
- For added security, integrator has the ability to be password protected
- Communication protocol cards include Rockwell Automation's DeviceNet™, Rockwell Automation's Remote I/O, Rockwell Automation's Ethernet IP™, Profibus® DP, 4-20mA analog output, Ethernet TCP/IP, RS-232, RS-485, 20mA current loop
- Built in support for ticket printing

APPROVALS

c UL us LISTED CE

WEIGH FRAME SPECIFICATIONS

CONVEYOR WIDTHS:
18in to 72in

CAPACITY:
Up to 10,000 tph

BELT SPEED:
Up to 1,200 fpm

ACCURACY GUIDELINES:
Single idler system: 0.5%-1% total error
Two idler system: 0.25%-0.5% total error
Three idler system: <0.5% total error
Four idler system<0.25% total error

SYSTEM ACCURACY:
Guidelines assume clean belt with automatic tensioning system. Accuracy guidelines are typical.
System accuracy may vary depending on environmental influences.

APPLICATIONS:
Mining, quarries, bulk material blending, process control applications, utilities, truck/barge/rail loading, retrofit applications

920I INTEGRATOR SPECIFICATIONS

POWER:
Line voltages: 115 or 230VAC,
Frequency: 50 or 60Hz
Power consumption:
340mA, maximum @ 115VAC (26W) 240mA @ 230VAC (26W)

EXCITATION VOLTAGE:
10 ± VDC, 16 x 350Ω or 32 x 700Ω load cells per A/D card

ANALOG SIGNAL INPUT RANGE:
-10mV to +45mV

ANALOG SIGNAL SENSITIVITY:
0.3µV/graduation minimum @ 7.5Hz
1.0µV/graduation typical @ 120Hz
4.0µV/graduation typical @ 960Hz

A/D SAMPLE RATE:
7.5 to 960Hz, software selectable

RESOLUTION:
Internal resolution:
8 million counts
Weight display resolution: 9,999,999

SYSTEM LINEARITY:
± 0.01% full scale

DIGITAL I/O:
Four I/O channels on CPU board; optional 24-channel I/O expansion boards available

CIRCUIT PROTECTION:
RFI, EMI, ESD protection

SERIAL PORTS:
Four ports on CPU board support up to 115,200 bps; optional dual-channel serial expansion boards available
Port 1: Full duplex RS-232
Port 2: RS-232 with CTS/RTS; PS/2 keyboard interface
via DB-9 connector
Port 3: Full duplex RS-232, 20 mA output
Port 4: Full duplex RS-232, 2-wire RS-485, 20 mA output

DISPLAY:
4.6in W x 3.4in H (116 W x 86mm H), 320 x 240 pixel VGA Liquid Crystal Display (LCD) module with adjustable contrast

KEYBOARD:
27-key membrane panel, tactile feel, PS/2 port for external keyboard connection

OPERATING TEMPERATURE:
Legal: 14°F to 104°F
(-10°C to +40°C)
Industrial: 14°F to 122°F
(-10°C to +50°C)

DIMENSIONS:
Universal: 10.5in W x 10.9in H x 4.5in D
(266 W x 215 H x 114mm D)
Deep Universal: 10.75in W x 10.75in H x 5.4in D
(273 W x 273 H x 137mm D)

WEIGHT:
Universal enclosure: 9.5lb (4.3kg)
Panel Mount enclosure: 8.5lb (3.9kg)
Deep Universal: 11lb (5.0kg)

RATING/MATERIAL:
NEMA 4X/IP66, stainless steel

APPROVALS:
CE marked;
UL & C-UL listed (Universal, Deep & Wall Mount Enclosure)
(Custom Wall Mount approved for 508A) (Optional)
Panel Mount UL recognized

WARRANTY:
Two-year limited warranty

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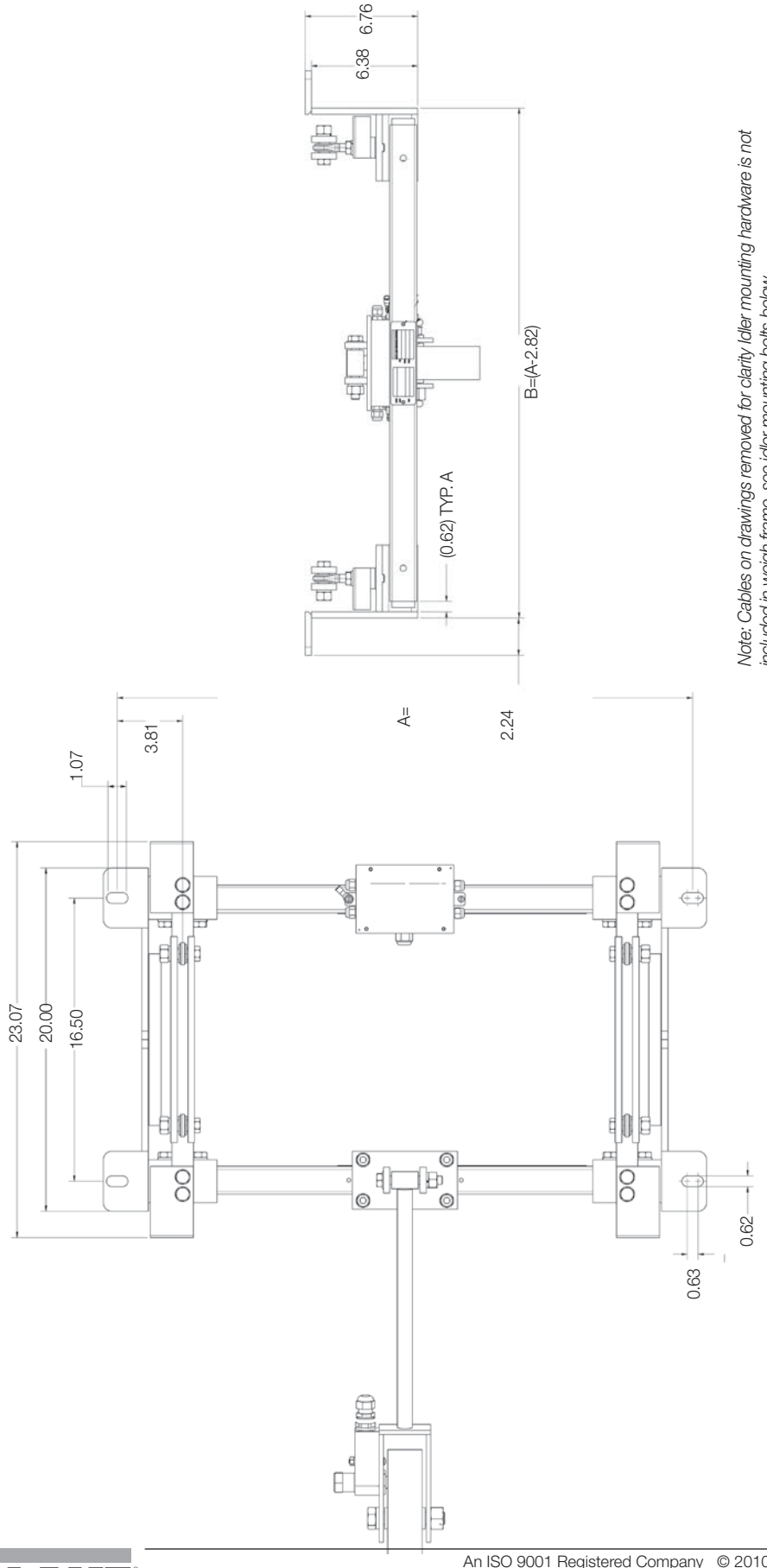
BCi

In-Motion Belt Scale System

BELT SCALE TEST WEIGHTS

PART #	DESCRIPTION	ESTIMATED BELT WIDTH	CAPACITY	PRICE
95205	20 in weigh frame	14 in	500 lb	$2,195.00
95206	22 in weigh frame	16 in	500 lb	2,195.00
94968	24 in weigh frame	18 in	500 lb	2,195.00
95207	26 in weigh frame	20 in	500 lb	2,195.00
95208	30 in weigh frame	24 in	500 lb	2,195.00
95209	36 in weigh frame	30 in	500 lb	2,195.00
95210	42 in weigh frame	36 in	500 lb	2,195.00
95211	48 in weigh frame	42 in	500 lb	2,195.00
95212	54 in weigh frame	48 in	500 lb	2,195.00
96717	60 in weigh frame	54 in	1,000 lb	2,195.00
96718	66 in weigh frame	60 in	1,000 lb	2,195.00
96719	72 in weigh frame	66 in	1,000 lb	2,195.00
Stainless Steel Weigh Frames				
110837				3,295.00
110838				3,295.00
110839				3,295.00
110840				3,295.00
110841				3,295.00
110842				3,295.00
110843				3,295.00
110844				3,295.00
110845				3,295.00
110846				3,295.00
110847				3,295.00
105246				3,295.00
Integrators				
107615	Belt scale integrator with UPS 115 VAC			2,695.00
107616	Belt scale integrator with UPS 230 VAC			2,695.00
95214	Belt scale integrator 115 VAC			2,595.00
95215	Belt scale integrator 230 VAC			2,595.00
Speed Wheel				
94969	Speed wheel assembly		10 PPR NPN Configuration	695.00
100038	Magnetic shaft encoder		12 PPR NPN Configuration	695.00
104014	Magnetic shaft encoder		40 PPR NPN Configuration	995.00
Idler Mounting Bolts				
98806	3 in Angle Iron Base (requires two)			40.00
99323	4 in Angle Iron Base (requires two)			45.00
Static Weights				
99708	15 lb weight			145.00
99709	30 lb weight			195.00
99696	3 in Static Weight Mounting Bracket (Set of 2)			395.00
99922	4 in Static Weight Mounting Bracket (Set of 2)			450.00

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Note: Cables on drawings removed for clarity Idler mounting hardware is not included in weigh frame, see idler mounting bolts below

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BenchMark™ SL, CW-80B, SL/HE Series Light-Capacity Bench Scales



APPROVALS

Measurement Canada Approved

Meets USDA Requirements

STANDARD FEATURES

- 304 stainless steel construction
- LifeGuard™ base design isolates load cell from overloads and shock loads for added durability
- Specially designed adjustable support feet provide exceptional traction and won't scratch surfaces

SL Series additional features

- NTEP Certified aluminum load cell

CW-80B Series additional features

- NTEP Certified stainless steel load cell

SL/HE Series additional features

- NTEP Certified stainless steel, hermetically sealed load cell

SPECIFICATIONS

LOAD CELL, NTEP - CERTIFIED:
SL Series: Aluminum and environmentally sealed
CW-80B: Stainless steel and environmentally sealed IP67
HE Series: Stainless steel, hermetically sealed IP69K

OUTPUT IMPEDANCE:
SL and CW-80B: 350 ohms
HE: 1000 ohms

MAXIMUM OVERLOAD:
200%, except 150% for 30 lb HE version

OVERLOAD PROTECTION:
Shock-absorbing spider

CABLE LENGTH:
10 ft (3 m)

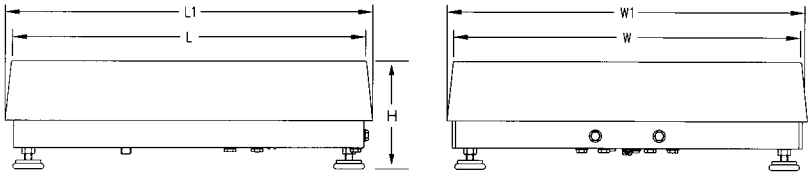
COMPENSATED TEMPERATURE RANGE:
14°F to 104°F (-10°C to 40°C)

APPROVALS:
SL and HE Series: NTEP Certified per H-44, Class III, 5000d,
CC #95-072A2
Measurement Canada approved, AM-5082
CW-80B: NTEP Certified per H-44, Class III, 3000d, CC# 96-107 Measurement Canada approved, AM-5156

WARRANTY:
SL and CW-80B: Two-year limited warranty
HE: Three-year limited warranty including water ingress

DIMENSIONS							
PART# (SL)	**PART# (CW-80B)**	**PART # (SL/HE)**	**CAPACITY**	**PLATFORM SIZE (L X W)**	**L1/W1**	**H (SL & CW-80B)**	**H (HE)**
18575*	N/A	N/A	2 lb (1 kg)	10 in x 10 in	10.25 in	3.15 in	3.58 in
18576	N/A	86942	5 lb (2.5 kg)	10 in x 10 in	10.25 in	3.15 in	3.58 in
N/A	35075	N/A	6 lb (3 kg)	10 in x 10 in	10.25 in	3.15 in	N/A
18577	35076	86943	10 lb (5 kg)	10 in x 10 in	10.25 in	3.15 in	3.58 in
N/A	35077	N/A	15 lb (7 kg)	10 in x 10 in	10.25 in	3.15 in	3.58 in
18578	N/A	86944	20 lb (10 kg)	10 in x 10 in	10.25 in	3.15 in	3.58 in
18579	35078	86945	30 lb (15 kg)	10 in x 10 in	10.25 in	3.15 in	3.58 in
32914	35079	86946	30 lb (15 kg)	12 in x 12 in	12.25 in	3.25 in	3.63 in
32913	N/A	86947	50 lb (25 kg)	12 in x 12 in	12.25 in	3.25 in	3.63 in
N/A	35080	N/A	60 lb (30 kg)	12 in x 12 in	12.25 in	3.25 in	3.63 in
35198	N/A	86948	100 lb (50 kg)	12 in x 12 in	12.25 in	3.25 in	3.63 in

**Non-NTEP*
Note: 1"=25.4 mm



RICE LAKE WEIGHING SYSTEMS

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BenchMark™ SL, CW-80B, SL/HE Series Light-Capacity Bench Scales

PART #	PLATFORM CAPACITY	DIMENSIONS	EST. SHIP WEIGHT	PRICE
SL Series				
18575*	2 lb	10 in x 10 in x 3.15 in	13 lb	$640.00
18576	5 lb	10 in x 10 in x 3.15 in	13 lb	640.00
18577	10 lb	10 in x 10 in x 3.15 in	13 lb	640.00
18578	20 lb	10 in x 10 in x 3.15 in	13 lb	640.00
18579	30 lb	10 in x 10 in x 3.15 in	13 lb	640.00
32914	30 lb	12 in x 12 in x 3.25 in	14 lb	720.00
32913	50 lb	12 in x 12 in x 3.25 in	14 lb	720.00
35198	100 lb	12 in x 12 in x 3.25 in	14 lb	720.00
CW-80B Series				
35075	6 lb	10 in x 10 in x 3.15 in	13 lb	730.00
35076	10 lb	10 in x 10 in x 3.15 in	13 lb	730.00
35077	15 lb	10 in x 10 in x 3.15 in	13 lb	730.00
35078	30 lb	10 in x 10 in x 3.15 in	13 lb	730.00
35079	30 lb	12 in x 12 in x 3.25 in	14 lb	840.00
35080	60 lb	12 in x 12 in x 3.25 in	14 lb	840.00
SL/HE Series				
86942	5 lb	10 in x 10 in x 3.58 in	13 lb	1,005.00
86943	10 lb	10 in x 10 in x 3.58 in	13 lb	1,005.00
86944	20 lb	10 in x 10 in x 3.58 in	13 lb	1,005.00
86945	30 lb	10 in x 10 in x 3.58 in	13 lb	1,005.00
86946	30 lb	12 in x 12 in x 3.63 in	13 lb	1,085.00
86947	50 lb	12 in x 12 in x 3.63 in	14 lb	1,085.00
86948	100 lb	12 in x 12 in x 3.63 in	14 lb	1,085.00

OPTIONS/ACCESSORIES

53001	304 stainless steel clamshell for added load cell protection (for SL and CW-80B series)	75.00
112044	12 in column for IQ plus® 355, IQ plus® 210, 320IS (without battery option), 320IS plus (without battery option), IQ plus® 390-DC, IQ plus® 590-DC, 420 plus®, CW-90 and CW-90X	135.00
112045**	18 in column for IQ plus® 355 or IQ plus® 210, 320IS (without battery option), 320IS plus (without battery option), IQ plus® 390-DC, IQ plus® 590-DC, 420 plus®, CW-90 and CW-90X	180.00
64576	Attachment bracket for IQ plus® 355, IQ plus® 210 or 420 plus, 320IS (without battery option), 320IS plus (without battery option)	50.00
64577	Attachment bracket for IQ plus® 390-DC or IQ plus® 590-DC	50.00
22125	Additional operating manual	5.25

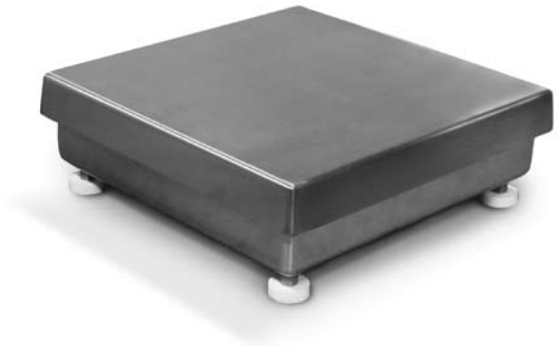
* Non-NTEP

** Not recommended for use with scale bases smaller than 12 in x 12 in

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CW-90B, CW-90XB

Light-Capacity Bench Scales



STANDARD FEATURES

- 304 stainless steel construction
- Five point overload protection
- Specially designed adjustable support feet provide exceptional traction and will not scratch surfaces

CW-90B

- Aluminum environmentally sealed load cell

CW-90XB

- IP69K, stainless steel hermetically sealed load cell

APPROVALS

Measurement Canada Approved

SPECIFICATIONS

LOAD CELL, NTEP - CERTIFIED:
CW-90B: Aluminum and environmentally sealed
CW-90XB: Stainless steel and environmentally sealed

OUTPUT IMPEDANCE:
350 ohms

MAXIMUM OVERLOAD:
180% to 200% depending on capacity

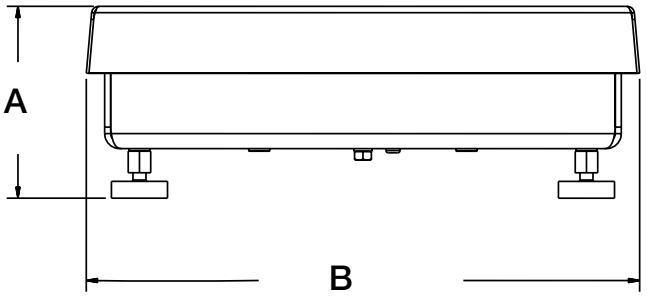
OVERLOAD PROTECTION:
Five point, independently adjusted

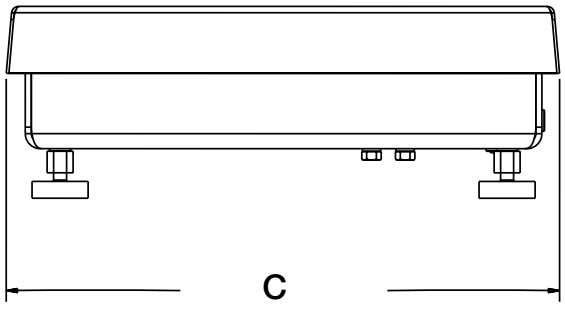
CABLE LENGTH:
34 in or 10 ft

COMPENSATED TEMPERATURE RANGE:
14°F to 104°F (-10°C to 40°C)

APPROVALS:
NTEP and Measurement Canada

WARRANTY:
CW-90B - two year
CW-90XB - three years including water ingress





DIMENSIONS			
CW-90B/CW-90XB (10 in)			
A	4.25 in (107.95 mm)	**C**	10.37 in (263.40 mm)
B	10.37 in (263.40 mm)		
CW-90B/CW-90XB (12 in)			
A	4.25 in (107.95 mm)	**C**	12.37 in (314.20 mm)
B	12.37 in (314.20 mm)		

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CW-90B, CW-90XB

Light-Capacity Bench Scales

PART #		PLATFORM CAPACITY	DIMENSIONS	EST. SHIP WEIGHT	PRICE
CW-90					
(10 ft cable)	**(34 in cable)**				
112599	106137	5 lb	10 in x 10 in x 4.25 in	14 lb	$640.00
112601	106138	10 lb	10 in x 10 in x 4.25 in	14 lb	640.00
112603	106139	25 lb	10 in x 10 in x 4.25 in	14 lb	640.00
112605	106140	25 lb	12 in x 12 in x 4.25 in	17 lb	720.00
112607	106141	50 lb	12 in x 12 in x 4.25 in	17 lb	720.00
112609	106142	100 lb	12 in x 12 in x 4.25 in	17 lb	720.00
CW-90XB					
(10 ft cable)	**(34 in cable)**				
112600	106143	5 lb	10 in x 10 in x 4.25 in	14 lb	1,005.00
112602	106144	10 lb	10 in x 10 in x 4.25 in	14 lb	1,005.00
112604	106145	25 lb	10 in x 10 in x 4.25 in	14 lb	1,005.00
112606	106146	25 lb	12 in x 12 in x 4.25 in	17 lb	1,085.00
112608	106147	50 lb	12 in x 12 in x 4.25 in	17 lb	1,085.00
112610	106148	100 lb	12 in x 12 in x 4.25 in	17 lb	1,085.00

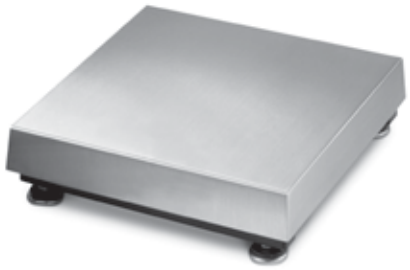
OPTIONS/ACCESSORIES

112044 ..... 12 in column for IQ plus® 355, IQ plus® 210, 320IS (without battery option), 320IS plus (without battery option), IQ plus® 390-DC, IQ plus® 590-DC, 420 plus®, CW-90 and CW-90X 135.00

112045** ..... 18 in column for IQ plus® 355 or IQ plus® 210, 320IS (without battery option), 320IS plus (without battery option), IQ plus® 390-DC, IQ plus® 590-DC, 420 plus®, CW-90 and CW-90X 180.00

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BenchMark™ Mild, Stainless Steel, HE Series



STANDARD FEATURES

- 304 stainless steel construction
- LifeGuard™ base design isolates load cell from overloads and shock loads for added durability
- Specially designed adjustable support feet provide exceptional traction and won't scratch surfaces

APPROVALS

Measurement Canada Approved

Meets USDA Requirements

F M APPROVED

SPECIFICATIONS

LOAD CELL, NTEP - CERTIFIED:
Mild steel and stainless steel: aluminum, environmentally sealed
HE: Stainless steel, hermetically sealed, IP69

OUTPUT IMPEDANCE:
Mild steel and stainless steel: 350 ohms
HE: 1000 ohms

MAXIMUM OVERLOAD:
150-200% depending on capacity

OVERLOAD PROTECTION:
Five point, independently adjusted

CABLE LENGTH:
10 ft (3 m)

COMPENSATED TEMPERATURE RANGE:
14°F to 104°F (-10°C to 40°C)

APPROVALS:
NTEP Certified per H-44, Class III, 5000d, CC #95-072A2
Measurement Canada approved, AM-5082

WARRANTY:
Mild steel and stainless steel: Two-year limited warranty
HE: Three-year limited warranty including water ingress

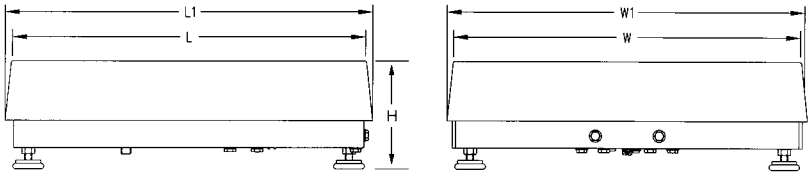
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BenchMark™ Mild, Stainless Steel, HE Series

DIMENSIONS								
PART # (MILD)	**PART # (STAINLESS)**	**PART # (HE)**	**CAPACITY**	**PLATFORM SIZE (L X W)**	**L1**	**W1**	**H (MILD & STAINLESS STEEL)**	**H (HE)**
18580	N/A	N/A	30 (15kg)	12in x 12in	12.50in	12.50in	4.12in	N/A
18582	N/A	N/A	50 (25kg)	12in x 12in	12.50in	12.50in	4.12in	N/A
18584	N/A	N/A	100 (50kg)	12in x 12in	12.50in	12.50in	4.12in	N/A
18586	32918	86950	50 (25kg)	12in x 18in	12.50in	18.50in	MS 4.12in SST 3.62in	4in
18588	32919	86951	100 (50kg)	12in x 18in	12.50in	18.50in	MS 4.12in SST 3.62in	4in
18590	18591	86952	50 (25 kg)	18in x 18in	18.75in	18.75in	5.25in	5.25in
18592	18593	86953	100 (50kg)	18in x 18in	18.75in	18.75in	5.25in	5.25in
18594	18595	86954	150 (75kg)	18in x 18in	18.75in	18.75in	5.25in	5.25in
18596	18697	86955	200 (100kg)	18in x 18in	18.75in	18.75in	5.25in	5.25in
18598	18599	86956	250 (125kg)	18in x 18in	18.75in	18.75in	5.25in	5.5in
18600	18601	86957	300 (150kg)	18in x 18in	18.75in	18.75in	5.25in	5.5in
18602	18603	86958	500 (250kg)	18in x 18in	18.75in	18.75in	5.25in	5.5in
18604	18605	86959	1,000 (500kg)	18in x 18in	18.75in	18.75in	5.25in	5.5in
18606	18607	86960	50 (25kg)	18in x 24in	18.75in	24.75in	5.25in	5.25in
18608	18609	86961	100 (50kg)	18in x 24in	18.75in	24.75in	5.25in	5.25in
18610	18611	86962	150 (75kg)	18in x 24in	18.75in	24.75in	5.25in	5.25in
18612	18613	86963	200 (100kg)	18in x 24in	18.75in	24.75in	5.25in	5.25in
18614	18615	86964	250 (125kg)	18in x 24in	18.75in	24.75in	5.25in	5.5in
18616	18617	86965	300 (150kg)	18in x 24in	18.75in	24.75in	5.25in	5.5in
18618	18619	86966	500 (250kg)	18in x 24in	18.75in	24.75in	5.25in	5.5in
18620	18621	86967	1,000 (500kg)	18in x 24in	18.75in	24.75in	5.25in	5.5in
18622	18623	86968	100 (50kg)	24in x 24in	24.75in	24.75in	5.25in	5.25in
18624	18625	86969	150 (75kg)	24in x 24in	24.75in	24.75in	5.25in	5.25in
18626	18627	86970	200 (100kg)	24in x 24in	24.75in	24.75in	5.25in	5.25in
18628	18629	86971	250 (125kg)	24in x 24in	24.75in	24.75in	5.25in	5.5in
18630	18631	86972	300 (150kg)	24in x 24in	24.75in	24.75in	5.25in	5.5in
18632	18633	86973	500 (250kg)	24in x 24in	24.75in	24.75in	5.25in	5.5in
18634	18635	86974	1,000 (500kg)	24in x 24in	24.75in	24.75in	5.25in	5.5in

Note: 1"=25.4 mm



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BenchMark™ Mild, Stainless Steel, HE Series

PART #	CAPACITY	PLATFORM DIMENSIONS	EST. SHIP WEIGHT	PRICE
Mild Steel Series				
18580	30 lb	12 in x 12 in x 4.12 in	20 lb	$730.00
18582	50 lb	12 in x 12 in x 4.12 in	20 lb	730.00
18584	100 lb	12 in x 12 in x 4.12 in	20 lb	730.00
18586	50 lb	12 in x 18 in x 4.12 in	37 lb	810.00
18588	100 lb	12 in x 18 in x 4.12 in	37 lb	810.00
18590	50 lb	18 in x 18 in x 5.25 in	68 lb	990.00
18592	100 lb	18 in x 18 in x 5.25 in	68 lb	990.00
18594	150 lb	18 in x 18 in x 5.25 in	68 lb	990.00
18596	200 lb	18 in x 18 in x 5.25 in	68 lb	990.00
18598	250 lb	18 in x 18 in x 5.25 in	68 lb	990.00
18600	300 lb	18 in x 18 in x 5.25 in	68 lb	990.00
18602	500 lb	18 in x 18 in x 5.25 in	68 lb	990.00
18604	1,000 lb	18 in x 18 in x 5.25 in	68 lb	1,100.00
18606	50 lb	18 in x 24 in x 5.25 in	78 lb	1,100.00
18608	100 lb	18 in x 24 in x 5.25 in	78 lb	1,100.00
18610	150 lb	18 in x 24 in x 5.25 in	78 lb	1,100.00
18612	200 lb	18 in x 24 in x 5.25 in	78 lb	1,100.00
18614	250 lb	18 in x 24 in x 5.25 in	78 lb	1,100.00
18616	300 lb	18 in x 24 in x 5.25 in	78 lb	1,100.00
18618	500 lb	18 in x 24 in x 5.25 in	78 lb	1,100.00
18620	1,000 lb	18 in x 24 in x 5.25 in	78 lb	1,215.00
18622	100 lb	24 in x 24 in x 5.25 in	78 lb	1,215.00
18624	150 lb	24 in x 24 in x 5.25 in	84 lb	1,215.00
18626	200 lb	24 in x 24 in x 5.25 in	84 lb	1,215.00
18628	250 lb	24 in x 24 in x 5.25 in	84 lb	1,215.00
18630	300 lb	24 in x 24 in x 5.25 in	84 lb	1,215.00
18632	500 lb	24 in x 24 in x 5.25 in	84 lb	1,330.00
18634	1,000 lb	24 in x 24 in x 5.25 in	84 lb	1,330.00
Stainless Steel Series				
32918	50 lb	12 in x 18 in x 3.62 in	37 lb	900.00
32919	100 lb	12 in x 18 in x 3.62 in	37 lb	900.00
18591	50 lb	18 in x 18 in x 5.25 in	68 lb	1,245.00
18593	100 lb	18 in x 18 in x 5.25 in	68 lb	1,245.00
18595	150 lb	18 in x 18 in x 5.25 in	68 lb	1,245.00
18597	200 lb	18 in x 18 in x 5.25 in	68 lb	1,245.00
18599	250 lb	18 in x 18 in x 5.25 in	68 lb	1,245.00
18601	300 lb	18 in x 18 in x 5.25 in	68 lb	1,245.00
18603	500 lb	18 in x 18 in x 5.25 in	68 lb	1,395.00
18605	1,000 lb	18 in x 18 in x 5.25 in	68 lb	1,395.00
18607	50 lb	18 in x 24 in x 5.25 in	78 lb	1,480.00
18609	100 lb	18 in x 24 in x 5.25 in	78 lb	1,480.00
18611	150 lb	18 in x 24 in x 5.25 in	78 lb	1,480.00
18613	200 lb	18 in x 24 in x 5.25 in	78 lb	1,480.00
18615	250 lb	18 in x 24 in x 5.25 in	78 lb	1,480.00
18617	300 lb	18 in x 24 in x 5.25 in	78 lb	1,480.00
18619	500 lb	18 in x 24 in x 5.25 in	78 lb	1,480.00
18621	1,000 lb	18 in x 24 in x 5.25 in	78 lb	1,765.00
18623	100 lb	24 in x 24 in x 5.25 in	84 lb	1,765.00
18625	150 lb	24 in x 24 in x 5.25 in	84 lb	1,825.00
18627	200 lb	24 in x 24 in x 5.25 in	84 lb	1,825.00
18629	250 lb	24 in x 24 in x 5.25 in	84 lb	1,825.00
18631	300 lb	24 in x 24 in x 5.25 in	84 lb	1,825.00
18633	500 lb	24 in x 24 in x 5.25 in	84 lb	1,905.00
18635	1,000 lb	24 in x 24 in x 5.25 in	84 lb	1,905.00

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BenchMark™ Mild, Stainless Steel, HE Series

PART #	CAPACITY	PLATFORM DIMENSIONS	EST. SHIP WEIGHT	PRICE
HE Series				
86950	50 lb	12 in x 18 in x 4 in	37 lb	$1,270.00
86951	100 lb	12 in x 18 in x 4 in	37 lb	1,270.00
86952	50 lb	18 in x 18 in x 5.25 in	68 lb	1,615.00
86953	100 lb	18 in x 18 in x 5.25 in	68 lb	1,615.00
86954	150 lb	18 in x 18 in x 5.25 in	68 lb	1,615.00
86955	200 lb	18 in x 18 in x 5.25 in	68 lb	1,615.00
86956	250 lb	18 in x 18 in x 5.5 in	68 lb	1,770.00
86957	300 lb	18 in x 18 in x 5.5 in	68 lb	1,770.00
86958	500 lb	18 in x 18 in x 5.5 in	68 lb	1,920.00
86959	1,000 lb	18 in x 18 in x 5.5 in	68 lb	1,920.00
86960	50 lb	18 in x 24 in x 5.25 in	78 lb	1,850.00
86961	100 lb	18 in x 24 in x 5.25 in	78 lb	1,850.00
86962	150 lb	18 in x 24 in x 5.25 in	78 lb	1,850.00
86963	200 lb	18 in x 24 in x 5.25 in	78 lb	1,850.00
86964	250 lb	18 in x 24 in x 5.5 in	78 lb	2,010.00
86965	300 lb	18 in x 24 in x 5.5 in	78 lb	2,010.00
86966	500 lb	18 in x 24 in x 5.5 in	78 lb	2,290.00
86967	1,000 lb	18 in x 24 in x 5.5 in	78 lb	2,290.00
86968	100 lb	24 in x 24 in x 5.25 in	84 lb	2,190.00
86969	150 lb	24 in x 24 in x 5.25 in	84 lb	2,190.00
86970	200 lb	24 in x 24 in x 5.25 in	84 lb	2,190.00
86971	250 lb	24 in x 24 in x 5.5 in	84 lb	2,350.00
86972	300 lb	24 in x 24 in x 5.5 in	84 lb	2,350.00
86973	500 lb	24 in x 24 in x 5.5 in	84 lb	2,430.00
86974	1,000 lb	24 in x 24 in x 5.5 in	84 lb	2,430.00

OPTIONS/ACCESSORIES

53001**	304 stainless steel clamshell for added load cell protection (12 in x 12 in, 12 in x 18 in) (for mild and stainless steel)	75.00
41292**	304 stainless steel clamshell for added load cell protection (18 in x 18 in, 18 in x 24 in and 24 in x 24 in), except not 1,000 lb capacity (for mild and stainless steel)	90.00
18805**	304 stainless steel clamshell for added load cell protection (18 in x 18 in 18 in x 24 in and 24 in x 24 in), 1,000 lb capacity only	100.00
112044	12 in column for IQ plus® 355 or IQ plus® 210, 320IS (without battery option), 320IS Plus (without battery option), 390-DC or IQ plus® 590-DC, 420 plus®, CW-90 and CW-90X	135.00
112045*	18 in column for IQ plus® 355 or IQ plus® 210, 320IS (without battery option), 320IS Plus (without battery option) 390-DC or IQ plus® 590-DC, 420 plus®, CW-90 and CW-90X	180.00
64576	Attachment bracket for IQ plus® 355 or IQ plus® 210, 420 plus, 320IS (without battery option), 320IS Plus (without battery option)	50.00
64577	Attachment bracket for IQ plus® 390-DC or IQ plus® 590-DC	50.00
22125	Additional operating manual	5.25

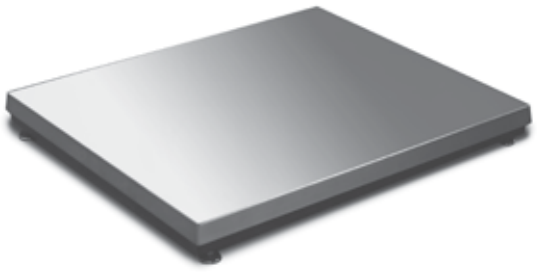
* Not recommended for use with scale bases smaller than 12 in x 12 in

** Not for use with HE Series

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BenchMark™ LP

Low Profile Bench Scales



APPROVALS

Measurement Canada Approved

STANDARD FEATURES

- Mild steel base construction
- 304 stainless steel cover
- ABS junction box
- Four planar beam load cells
- Adjustable leveling feet
- 20ft of EL147 load cell cable
- Holes in lower frame for mounting scale without adjustable leveling feet

Ideal for Aviation Weighing. A complete system can be sold with the Tracer AV. Reference Instrumentation/Process Control for specifications

SPECIFICATIONS

LOAD CELL, RATED OUTPUT:
1.0mV/V +/- 10%

END LOAD CAPACITY:
60% of full scale capacity

CABLE LENGTH:
20ft (6.1m) for connecting j-box to indicator

APPROVALS:
NTEP Certified except 1000lb capacity, Measurement Canada Approved AM-5660, except 500kg capacity

WARRANTY:
Two-year limited warranty

PART #	CAPACITY	PLATFORM DIMENSIONS	EST. SHIP WEIGHT	PRICE
97662	100lb (50kg)	18in x 18in x 2.54in (2.00in*)	75lb	$1,065.00
97663	250lb (125kg)	18in x 18in x 3.06in (2.18in*)	85lb	1,090.00
97664	500lb (250kg)	18in x 18in x 3.06in (2.26in*)	85lb	1,115.00
97665	100lb (50kg)	24in x 24in x 2.54in (2.00in*)	85lb	1,275.00
97666	250lb (125kg)	24in x 24in x 3.00in (2.18in*)	100lb	1,300.00
97667	500lb (250kg)	24in x 24in x 3.06in (2.26in*)	100lb	1,325.00
97668	500lb (250kg)	30in x 30in x 3.06in (2.26in*)	135lb	1,525.00
97669**	1,000lb (500kg)	30in x 30in x 3.38in (2.58in*)	135lb	1,575.00
97670	500lb (250kg)	36in x 36in x 3.06in (2.26in*)	175lb	2,000.00
97671**	1,000lb (500kg)	36in x 36in x 3.38in(2.58in*)	175lb	2,050.00

*Height without adjustable leveling feet

** Non-Ntep and not measurement Canada Approved

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BenchMark™ HD

Heavy Duty Bench Scales



STANDARD FEATURES

- Mild steel base construction
- 304 stainless steel cover
- Polyurethane rubber leveling feet with stainless steel stem
- Adjustable height 8.75in to 9.75in

Ideal for Aviation Weighing. A complete system can be sold with the Tracer AV. Reference Instrumentation/Process Control for specifications

APPROVALS

Measurement Canada Approved

FM APPROVED

SPECIFICATIONS

LOAD CELL, NTEP - CERTIFIED:
Aluminum, environmentally sealed

OUTPUT IMPEDANCE:
350ohms

MAXIMUM OVERLOAD:
200%

OVERLOAD PROTECTION:
Five-point, independently adjusted

CABLE LENGTH:
10ft (3m)

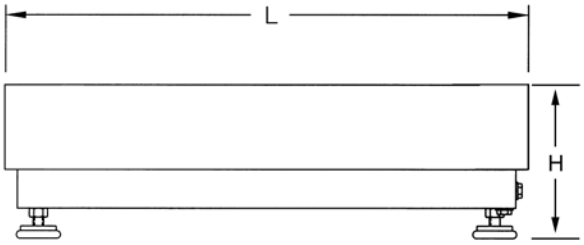
COMPENSATED TEMPERATURE RANGE:
14°F to 104°F/-10°C to 40°C

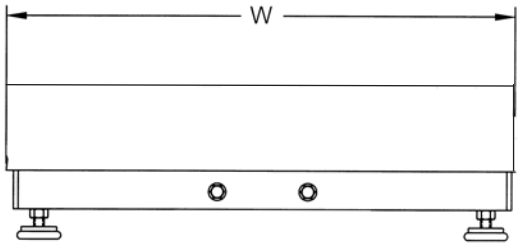
APPROVALS:
NTEP Certified 06-010A1, 5,000d
Measurement Canada Approved AM-5625

WARRANTY:
Two-year limited warranty

PART #	CAPACITY	PLATFORM DIMENSIONS	EST. SHIP WEIGHT	PRICE
93414	250lb (125kg)	30in x 30in x 8.75in	300lb	$1,675.00
93415	500lb (225kg)	30in x 30in x 8.75in	300lb	1,675.00
93416	250lb (125kg)	36in x 36in x 8.75in	330lb	2,035.00
93417	500lb (225kg)	36in x 36in x 8.75in	330lb	2,035.00

Consult factory for modifications for airport baggage scales.

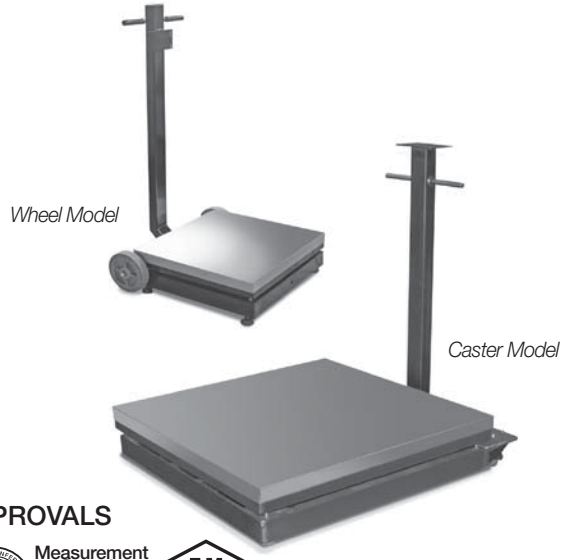




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BenchMark™ HDP

Portable Heavy Duty Bench Scales



APPROVALS

Measurement Canada Approved

FM APPROVED

STANDARD FEATURES

- Mild steel base construction
- 304 stainless steel cover
- Indicator stand for mounting IQ plus 355, IQ plus 390-DC, IQ plus 590-DC

Wheel Model

- Polyurethane rubber leveling feet with stainless steel stems
- 8 in diameter preformed rubber wheels with ball bearings

Caster Model

- 3 1/2 in diameter preformed rubber casters, two fixed, two swivel with lock

Ideal for Aviation Weighing. A complete system can be sold with the Tracer AV. Reference Instrumentation/Process Control for specifications

SPECIFICATIONS

LOAD CELL, NTEP - CERTIFIED:
Aluminum, environmentally sealed

OUTPUT IMPEDANCE:
350 ohms

MAXIMUM OVERLOAD:
200%

OVERLOAD PROTECTION:
Five-point, independently adjusted

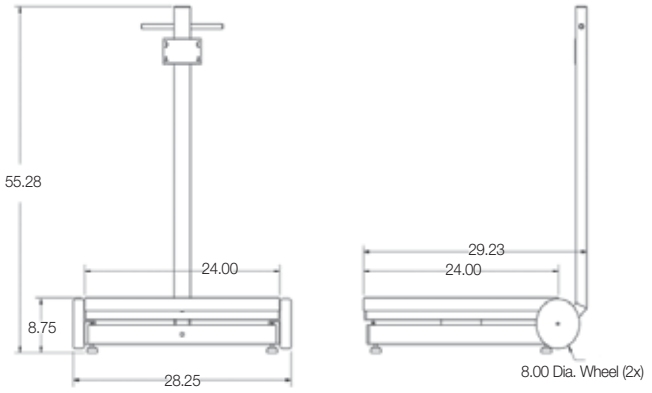
CABLE LENGTH:
10 ft (3 m)

COMPENSATED TEMPERATURE RANGE:
14°F to 104°F/-10°C to 40°C

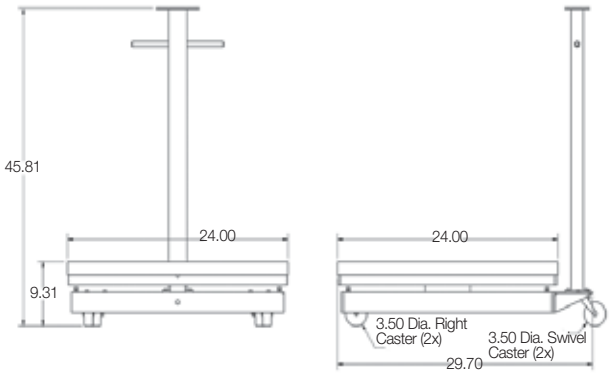
APPROVALS:
NTEP Certified 06-010A1, 5000 div
Measurement Canada Approved AM-5625

WARRANTY:
Two-year limited warranty

PART #	CAPACITY	PLATFORM DIMENSIONS	EST. SHIP WEIGHT	PRICE
Wheel Model				
97072	250 lb (125 kg)	24 in x 24 in x 8.75 in	275 lb	$1,675.00
97073	500 lb (225 kg)	24 in x 24 in x 8.75 in	275 lb	1,675.00
Caster Model				
97074	250 lb (125 kg)	24 in x 24 in x 9.31 in	290 lb	1,675.00
97075	500 lb (225 kg)	24 in x 24 in x 9.31 in	290 lb	1,675.00



Wheel Model



Caster Model

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DIGI® S-YA/S-YB



STANDARD FEATURES

- Rust-proof coated carbon steel base
- Stainless steel platter
- Maintains 0.03% accuracy through full range
- Large 3in (76.2mm) adjustable leveling feet
- Aluminum load cell

SPECIFICATIONS

LOAD CELL MATERIAL:
Aluminum, butyl rubber coated

LOAD CELL TYPE:
Single point strain gauge

RECOMMENDED EXC. VOLTAGE:
5–12VDC

MAX EXC. VOLTAGE:
S-YA: 12VDC, AC
S-YB: 20VDC, AC

OUTPUT IMPEDANCE:
1000 ±10Ω (S-YA)
350 ±10Ω (S-YB)

INSULATION RESISTANCE:
500MΩ

LOAD CELL CABLE LENGTH:
8ft (2.4m) with 14 pin connector

TEMPERATURE RANGE:
14°F to 104°F (10°C to 40°C)

WARRANTY:
Two-year limited warranty

LOAD CELL COLOR CODE:

Red	+ Excitation
White	- Excitation
Green	+ Signal
Yellow	- Signal
Blue	+ Sense
Orange	- Sense
Bare	Shield

PART#	MODEL	CAPACITY	PLATFORM DIMENSION	EST. SHIP WEIGHT	PRICE
74151	S-YA	60lb (30kg)	15in x 15in	25lb (12kg)	$595.00
74152	S-YA	150lb (60kg)	15in x 15in	25lb (12kg)	595.00
74153	S-YA	300lb (150kg)	15in x 15in	25lb (12kg)	595.00
74154	S-YB	150lb (60kg)	19in x 19in	48lb (22kg)	695.00
74155	S-YB	300lb (150kg)	19in x 19in	48lb (22kg)	695.00
74156	S-YB	500lb (300kg)	19in x 19in	48lb (22kg)	695.00

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DIGI® S-T-U-V



STANDARD FEATURES

- IP66-rated
- Platform support in each corner
- Shock resistant load cells
- Rated to 300% overload

APPROVALS

Measurement Canada Approved

SPECIFICATIONS

RECOMMENDED EXC. VOLTAGE:
5–12 VDC

MAX EXC. VOLTAGE:
20 VAC/DC

OUTPUT IMPEDANCE:
350 ±10 Ω

INSULATION RESISTANCE:
500 MΩ or more

RATED OUTPUT:
0.83 mV/V ±7.5%

RATED INPUT:
1 mV/V ±7.5%

LOAD CELL CABLE LENGTH:
S-S/S-T: 9 ft (3 m) with 14 pin connector
S-U: 18 ft (5.5 m) with 14 pin connector
S-V: 28 ft (8.5 m) with 14 pin connector

APPROVALS:
NTEP Certified per H-44, Class III, 5000d, CC#02-111, Measurement Canada Approved AM-5393

TEMPERATURE RANGE:
14°F to 104°F (-10°C to 40°C)

WARRANTY:
Two-year limited warranty

PART#	MODEL	CAPACITY	DIMENSIONS	EST. SHIP WEIGHT	PRICE
Carbon Steel Platform – Stainless Steel Platter					
73248†	S-SL	60 lb (30 kg)	13 in x 17 in x 3.5 in	30 lb (14 kg)	$695.00
73246	S-SL	150 lb (60 kg)	13 in x 17 in x 3.5 in	30 lb (14 kg)	695.00
73247	S-SL	300 lb (150 kg)	13 in x 17 in x 3.5 in	30 lb (14 kg)	695.00
73250	S-TL	150 lb (60 kg)	17 in x 21 in x 4.5 in	50 lb (23 kg)	895.00
73251	S-TL	300 lb (150 kg)	17 in x 21 in x 4.5 in	50 lb (23 kg)	895.00
73252†	S-TL	500 lb (300 kg)	17 in x 21 in x 4.5 in	50 lb (23 kg)	895.00
74508	S-UL	150 lb (60 kg)	24 in x 28 in x 5 in	90 lb (41 kg)	1,095.00
73256	S-UL	300 lb (150 kg)	24 in x 28 in x 5 in	90 lb (41 kg)	1,095.00
73257	S-UL	500 lb (300 kg)	24 in x 28 in x 5 in	90 lb (41 kg)	1,095.00
76511*	S-VL	1,500 lb (600 kg)	24 in x 28 in x 6 in	130 lb (59 kg)	1,195.00

* Non NTEP

† Measurement Canada Approved

RICE LAKE WEIGHING SYSTEMS

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DIGI® Bench Scale and Indicator Package

120/120 Plus



STANDARD FEATURES

- Large 0.8 in (20.3 mm) six-digit red LED or LCD display
- 115 or 230 VAC
- EPD and printer port for connecting to a PC or printer
- Programmable print output strings
- Available in 150 lb/60 kg, 300 lb/150 kg, 500 lb/300 kg capacities
- Selectable unit of measure lb/kg/g/oz
- Load cell quick disconnect
- Carbon steel platform, stainless steel platter (STL)

APPROVALS

c UL us · NTEP · UL LISTED · Measurement Canada Approved · CE

SPECIFICATIONS

POWER:
Line voltages: 115 or 230 VAC
Frequency: 50 or 60 Hz
120 Plus Power consumption: (estimated battery life)
60 hours with 1 x 350 Ω
40 hours with 4 x 350 Ω
Charge time 8 hours

SERIAL OUTPUT:
EDP port: Full duplex RS-232
Printer port:
Output-only RS-232 or active 20 mA current loop
Both ports:
9600, 4800, 2400, 1200, 600, 300 bps; 7 or 8 data bits; even, odd or no parity

DISPLAY:
0.8 in (20 mm), 6-digit Super Red Light Emitting Diode (LED) display, 7-segment, digits
*0.8 in (20 mm) 6-digit LCD with backlight 7-segment digits

STATUS ANNUNCIATORS:
Designators for: center of zero, stand still, gross, net center of zero, standstill, lb, kg, oz, g
*Battery, setpoint 1 and 2, HI-0K-LO, Hold

KEYBOARD:
5-key flat membrane panel, tactile feel
*zero, tare, present tare, hold, BMI, units, numeric 0-9, clear, enter

OPERATING TEMPERATURE:
-10°C to 40°C/14°F to 104°F (legal)
-10°C to 50°C/14°F to 122°F (industrial)

RATING/MATERIAL:
Enclosure: heavy gauge ABS

SCALE APPROVALS:
NTEP Certified per H-44, Class iii, 5000d, Measurement Canada approved, AM-5393

WARRANTY:
One-year limited warranty

* Specifications apply to the 120 Plus

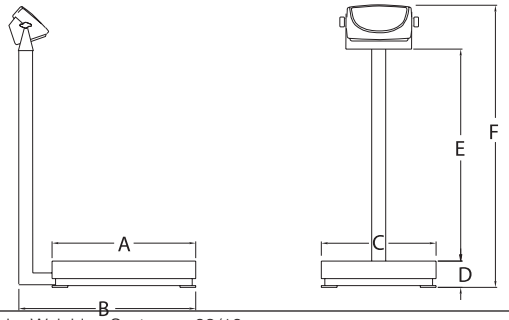
PART #	CAPACITY	PLATFORM DIMENSIONS	EST. SHIP WEIGHT	PRICE
120				
83303	150 lb/60 kg x 0.05 lb/0.02 kg	17 in x 21 in x 4.5 in	57 lb	$915.00
83304	300 lb/150 kg x 0.1 lb/0.05 kg	17 in x 21 in x 4.5 in	57 lb	915.00
83305†	500 lb/300 kg x 0.1 lb/0.1 kg	17 in x 21 in x 4.5 in	57 lb	915.00
120 Plus				
106908	150 lb/60 kg x 0.05 lb/0.02 kg	17 in x 21 in x 4.5 in	57 lb	1,065.00
106909	300 lb/150 kg x 0.1 lb/0.05 kg	17 in x 21 in x 4.5 in	57 lb	1,065.00
106910†	500 lb/300 kg x 0.1 lb/0.1 kg	17 in x 21 in x 4.5 in	57 lb	1,065.00

OPTIONS/ACCESSORIES

73381	4 in (100 mm) castors (four swivels, two with brakes)	250.00

† Measurement Canada Pending

DIMENSIONS (120 and 120 Plus)			
A	20.44 in	**D**	3.94 in
B	24.6 in	**E**	23.9 in
C	16.31 in	**F**	32.6 in



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Ishida iPC Series

Portable Bench Scales



iPC with dual display



STANDARD FEATURES

- Six-digit Liquid Crystal Display (LCD)
- Powered by two "D" cell batteries* (up to 500 hours operation)
- Auto power-off function
- Low battery indicator
- Overload stops

* Batteries and AC adaptor not included

APPROVALS

SPECIFICATIONS

DISPLAY:
Six digits (7-segment), LCD
Character height: 1 in (25.4 mm)

KEYBOARD:
Zero, tare, on/off, unit (lb/kg)
NOTE: oz version only displays weight in oz

POWER:
Two dry cell "D" type batteries* (up to 500 hours) or AC adapter
Auto power-off function (can be set to 60 min., 20 min., or off)

OPERATIONAL TEMPERATURE:
23°F to 104°F (-5°C to 40°C)

DIVISIONS (AUTO RANGING):
100 oz: 0.05 oz from 0–50 oz, 0.1 oz from 50–100 oz
6 lb (3 kg): 0.002 lb (0.001 kg) from 0–3 lb (0–1.5 kg), 0.005 lb (0.002 kg) from 3–6 lb (1.5–3 kg)
15 lb (6 kg): 0.005 lb (0.002 kg) from 0–6 lb (0–3 kg), 0.01 lb (0.005 kg) from 6–15 lb (3–6 kg)
30 lb (15 kg): 0.01 lb (0.005 kg) from 0–15 lb (0–7.5 kg), 0.02 lb (0.01 kg) from 15–30 lb (7.5–15 kg)
60 lb (30 kg): 0.02 lb (0.01 kg) from 0–30 lb (0–15 kg), 0.05 lb (0.02 kg) from 30–60 lb (15–30 kg)

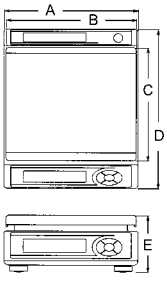
APPROVALS:
NTEP Certified CC# 02-139, UL listed

PLATTER SIZE:
100 oz: (3 kg) 9.1 in x 7.8 in (231 mm x 198.1 mm)
6 lb (3 kg): 9.1 in x 7.8 in (231 mm x 198.1 mm)
15 lb (6 kg): 9.1 in x 7.8 in (231 mm x 198.1 mm)
30 lb (15 kg): 11 in x 11.5 in (279.4 mm x 292.1 mm)
60 lb (30 kg): 11 in x 11.5 in (279.4 mm x 292.1 mm)

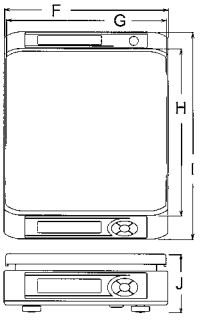
WARRANTY:
One-year limited warranty

PART #	CAPACITY	PLATFORM DIMENSIONS	EST. SHIP WEIGHT
Single display			
75466	100 oz	9.1 in x 7.8 in	6 lb
Single display, Multi-ranging			
75454	6 lb (3 kg)	9.1 in x 7.8 in	6 lb
75455	15 lb (6 kg)	9.1 in x 7.8 in	6 lb
75457	30 lb (15 kg)	11 in x 11.5 in	8 lb
75458	60 lb (30 kg)	11 in x 11.5 in	8 lb
Dual display			
75468	100 oz	9.1 in x 7.8 in	6 lb
Dual display, multi-ranging			
75460	6 lb (3 kg)	9.1 in x 7.8 in	6 lb
75461	15 lb (6 kg)	9.1 in x 7.8 in	6 lb
75462	30 lb (15 kg)	11 in x 11.5 in	8 lb
75464	60 lb (30 kg)	11 in x 11.5 in	8 lb

DIMENSIONS			
A	9.3 in (236.2 mm)	**F**	11.3 in (287 mm)
B	9.1 in (231.1 mm)	**G**	11 in (279.4 mm)
C	7.8 in (198.1 mm)	**H**	11.5 in (292.1 mm)
D	11.1 in (281.9 mm)	**I**	14.3 in (363.2 mm)
E	3.9 in (99.1 mm)	**J**	4 in (101.6 mm)



iPC 9.1" x 7.8" platter



iPC 11" x 11.5" platter

OPTIONS/ACCESSORIES

75470 ..... Stainless steel platter cover (100 oz, 6 lb, and 15 lb capacity)
75739 ..... Stainless steel platter cover (30 lb and 60 lb capacity)
75473 ..... AC adapter
75889 ..... Additional operating manual

RICE LAKE WEIGHING SYSTEMS

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Ishida iPC Series

Portable Bench Scales

PART #	CAPACITY	PLATFORM DIMENSIONS	EST. SHIP WEIGHT	PRICE
Single display				
75466	100 oz	9.1 in x 7.8 in	6 lb	$225.00
Single display, multi-ranging				
75454	6 lb (3 kg)	9.1 in x 7.8 in	6 lb	225.00
75455	15 lb (6 kg)	9.1 in x 7.8 in	6 lb	225.00
75457	30 lb (15 kg)	11 in x 11.5 in	8 lb	225.00
75458	60 lb (30 kg)	11 in x 11.5 in	8 lb	225.00
Dual Display				
75468	100 oz	9.1 in x 7.8 in	6 lb	245.00
Dual display, multi-ranging				
75460	6 lb (3 kg)	9.1 in x 7.8 in	6 lb	245.00
75461	15 lb (6 kg)	9.1 in x 7.8 in	6 lb	245.00
75462	30 lb (15 kg)	11 in x 11.5 in	8 lb	245.00
75464	60 lb (30 kg)	11 in x 11.5 in	8 lb	245.00

OPTIONS/ACCESSORIES

75470	Stainless steel platter cover (100 oz, 6 lb, and 15 lb capacity)	20.00
75739	Stainless steel platter cover (30 lb and 60 lb capacity)	20.00
75473	AC adapter	25.00
75889	Additional operating manual	25.00

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Ishida iPC-WP

Portable Bench Scales



APPROVALS

STANDARD FEATURES

- Large display, 1 in LCD
- Durable construction
- Powered by two “D” cell batteries* (up to 500 hours operation) or optional AC adapter
- Auto power-off function
- Low battery indicator
- Multi-ranging**
- Stainless steel platter

* Batteries not included

** All capacities except 100 oz

SPECIFICATIONS

DISPLAY INFORMATION:
Six-digit weight, battery enunciator, decimal point, net weight enunciator, stability enunciator, minus sign and unit of measurement

KEYBOARD:
Zero, tare, on/off, unit (lb, kg)

POWER:
Two Dry Cell D-Type batteries (up to 500 hours) or AC adapter.
Note: Dry Cell batteries and/or AC adapter are not included)
Auto Power Off function (can be set to 60 min., 20 min., or off)

DISPLAY:
LCD, six-digits (7-segment), 1 in character height

OPERATIONAL TEMPERATURE:
23°F to 104°F (-5°C to 40°C)

WEIGHT:
6.4 lb (excluding batteries)

APPROVALS:
NTEP Certified CC# 02-139 A2

PLATTER SIZE:
100 oz: 8.9 in x 7.6 in (226 mm x 193 mm)
6 lb (3 kg): 8.9 in x 7.6 in (226 mm x 193 mm)
15 lb (6 kg): 8.9 in x 7.6 in (226 mm x 193 mm)
30 lb (15 kg): 8.9 in x 7.6 in (226 mm x 193 mm)

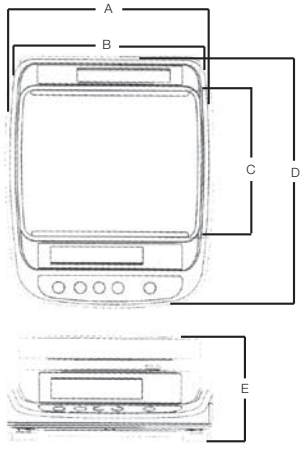
WARRANTY:
One-year limited warranty

MULTI-RANGE CAPACITY X GRADUATIONS:

100 oz:	0.05 oz from 0-50 oz 0.1 oz from 50-100 oz
6 lb/3 kg:	0.002 lb/0.001 kg from 0-3 lb/1.5 kg 0.005 lb/0.002 kg from 3 lb/1.5 kg-6 lb/3 kg
15 lb/6 kg:	0.005 lb/0.002 kg from 0-6 lb/3 kg 0.01 lb/0.005 kg from 6 lb/3 kg-15 lb/6 kg
30 lb/15 kg:	0.01 lb/0.005 kg from 0-15 lb/6 kg 0.02 lb/0.01 kg from 15 lb/6 kg-30 lb/15 kg

PART #	CAPACITY	PLATFORM DIMENSIONS	EST. SHIP WEIGHT
Single display			
84968	100 oz	8.9 in x 7.6 in	8 lb
Single display, multi-ranging			
84961	6 lb (3 kg)	8.9 in x 7.6 in	8 lb
84963	15 lb (6 kg)	8.9 in x 7.6 in	8 lb
84967	30 lb (15 kg)	8.9 in x 7.6 in	8 lb
Dual display			
84979	100 oz	8.9 in x 7.6 in	8 lb
Dual display, multi-ranging			
84973	6 lb (3 kg)	8.9 in x 7.6 in	8 lb
84975	15 lb (6 kg)	8.9 in x 7.6 in	8 lb
84977	30 lb (15 kg)	8.9 in x 7.6 in	8 lb

DIMENSIONS			
A	10.1 in (256.54 mm)	**D**	12.5 in (317.5 mm)
B	8.9 in (226.06 mm)	**E**	5.0 in (127 mm)
C	7.6 in (193.04 mm)		



OPTIONS/ACCESSORIES

75473.....AC adapter
86366.....Additional operating manual

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Ishida iPC-WP

Portable Bench Scales

PART #	CAPACITY	PLATFORM DIMENSIONS	EST. SHIP WEIGHT	PRICE
Single display				
84968	100 oz	8.9 in x 7.6 in	8 lb	$275.00
Single display, multi-ranging				
84961	6 lb (3 kg)	8.9 in x 7.6 in	8 lb	275.00
84963	15 lb (6 kg)	8.9 in x 7.6 in	8 lb	275.00
84967	30 lb (15 kg)	8.9 in x 7.6 in	8 lb	275.00
Dual display				
84979	100 oz	8.9 in x 7.6 in	8 lb	300.00
Dual display, multi-ranging				
84973	6 lb (3 kg)	8.9 in x 7.6 in	8 lb	300.00
84975	15 lb (6 kg)	8.9 in x 7.6 in	8 lb	300.00
84977	30 lb (15 kg)	8.9 in x 7.6 in	8 lb	300.00

OPTIONS/ACCESSORIES

75473	AC adapter	25.00
86366	Additional operating manual	25.00

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Ishida IGX and IGB Series

Bench Scales



APPROVALS

STANDARD FEATURES

- Ability to toggle between lb and kg
- Stainless steel cover with die cast base
- Checkweighing function
- Configurable display resolution: 1/3000, 1/6000, 1/7500 (NOTE: Legal-for-trade setting is 1/3000)
- 10 PLUs for storing tare, upper limit, lower limit

IGX:

- Display, VFD
- Power, 120 VAC
- Internal buzzer

IGB:

- Display, LCD
- Power, (2) D-size batteries* or optional AC adapter
- Selectable automatic power-off function

*Batteries not included

SPECIFICATIONS

CAPACITY:
IGX 150 lb/60 kg x .05 lb/0.02 kg
IGX 300 lb/150 kg x .1 lb/0.05 kg
IGB 150 lb/60 kg x 0.05 lb/0.02 kg
IGB 300 lb/150 kg x 0.1 lb/0.05 kg

ACCURACY:
Configurable 1/3000**, 1/6000, 1/7500
**Legal-for-trade setting

DISPLAY:
IGX: Vacuum Fluorescent Display (VFD), 25 mm
IGB: Liquid Crystal Display (LCD), 29 mm

FOOT DIMENSIONS:
2 1/1 in dia, 3/4 in height, 2 1/4 in height including stem

DISPLAY ITEMS:
Weight: 5 digits
Center of zero
Tare
Checkweighing: Over “H”, Under “L”

ELECTRICAL POWER:
IGX: 120 V
IGB: "D" size batteries or optional AC adapter (batteries not included) 500 hour battery life

OPERATING TEMPERATURE:
23ºF to 109ºF (-5ºC to 40ºC)

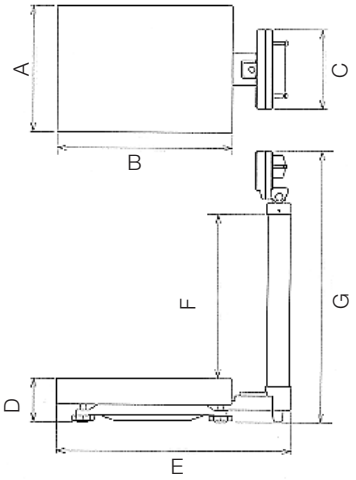
APPROVALS:
NTEP Certified per H-44, Class III, 3000d

WARRANTY:
One-year limited warranty

PART #	DESCRIPTION	CAPACITY	PLATFORM DIMENSIONS	EST. SHIP WEIGHT	PRICE
84989	IGX	150 lb/60 kg x .05 lb/0.02 kg	15.75 in x 21.65 in x 5.43 in	43 lb	$675.00
84990	IGX	300 lb/150 kg x .1 lb/0.05 kg	15.75 in x 21.65 in x 5.43 in	43 lb	675.00
84991	IGB	150 lb/60 kg x 0.05 lb/0.02 kg	15.75 in x 21.65 in x 5.43 in	41 lb	575.00
84992	IGB	300 lb/150 kg x 0.1 lb/0.05 kg	15.75 in x 21.62 in x 5.43 in	41 lb	575.00

OPTIONS/ACCESSORIES

75473 ..... AC adapter (IGB only) 25.00
86545 ..... Additional operating manual (IGX/IGB) 25.00



DIMENSIONS			
A	15.75 in (400 mm)	**B**	21.65 in (550 mm)
C	9.84 in (250 mm)	**D**	5.43 in (138 mm)
E	29.06 in (738 mm)	**F**	22.00 in (560 mm)
G	33.70 in (856 mm)		

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Over/Under Checkweigher..... **CW-8**

IQ Plus® 2100

Digital Bench Scale



IQ plus 2100 with attachment bracket



IQ plus 2100 with column



IQ plus 2100 with tilt stand

STANDARD FEATURES

- NEMA 4X, 304 stainless steel
- Large, bold 0.8 in Light Emitting Diode (LED) Display
- Status annunciators: lb, kg, oz, g, negative, motion, center of zero
- One full duplex RS-232 port
- Two digital inputs for remote zero, print and units
- 12 in column, attachment bracket or tilt stand for table, wall or under counter mounting
- 115 VAC operation, 230 VAC available
- RL1042 aluminum, single point load cell
- Overload and upload stops on scale base
- Stainless steel, non-tactile feel, piezo zero and units buttons
- Displays units in decimal lb, kg, oz, g (lb and oz - not legal-for-trade) and grams
- Prevent™ breather vent

APPROVALS

Measurement Canada Approved *Meets USDA Requirements*

LISTED

SPECIFICATIONS

LINE VOLTAGES:
115 or 230 VAC

FREQUENCY:
50 or 60 Hz

POWER CONSUMPTION:
70 mA @ 115 VAC (8 W)
35 mA @ 230 VAC (8 W)

DISPLAY RESOLUTION:
10,000 dd

DIGITAL INPUTS:
Two inputs, TTL or switch closure, active-low

DIGITAL FILTER:
Software selectable

SERIAL COMMUNICATIONS:
Full duplex RS-232; 9600, 4800, 2400, 1200 bps; seven or eight data bits; even, odd, or no parity

DISPLAY:
Six-digit Light Emitting Diode (LED) display. seven-segment, 0.8 in (20 mm) digits

LED ANNUNCIATORS:
Negative value, center of zero, motion, kg, g, lb, oz

KEYPAD:
Two stainless steel piezo switches

OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C)

RATING/MATERIAL:
NEMA 4X/IP66, stainless steel

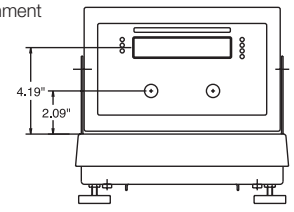
APPROVALS:
Indicator: NTEP Certified per H-44, Class IIIL 10,000 d; CC# 00-045 Measurement Canada approved, AM-5374; UL and C-UL listed
Base: NTEP Certified per H-44, Class III 5,000 d; CC# 95-072A2

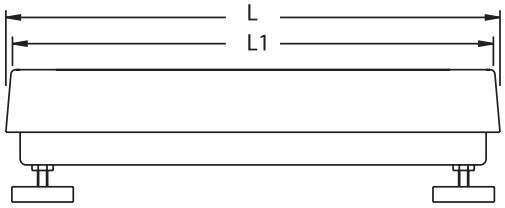
WARRANTY:
Two-year limited warranty

PLATFORM DIMENSIONS	L	L1
10 in x 10 in (254 mm x 254 mm)	10.25 in (260.4 mm)	10 in (254 mm)
12 in x 12 in (304.8 mm x 304.8 mm)	12.25 in (311.2 mm)	12 in (304.8 mm)

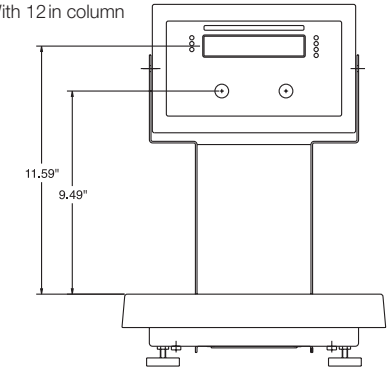
See BenchMark Series – Stainless Steel for 12 in x 18 in, 18 in x 18 in, 18 in x 24 in, and 24 in x 24 in detailed platform dimensions

With attachment bracket





With 12 in column



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IQ Plus® 2100

Digital Bench Scale

PART #	PLATFORM SIZE*	CAPACITY (lb/kg/g/oz)	EST. SHIP WEIGHT	PRICE
IQ plus 2100 with tilt stand - 115 VAC				
63053	10 in x 10 in	5 x 0.001 lb, 2.5 x 0.0005 kg/ 2,500 x 0.5 g/80 x 0.02 oz	23 lb	$1,005.00
63052	10 in x 10 in	10 x 0.002 lb/5 x 0.001 kg/ 5,000 x 1 g/160 x 0.05 oz	23 lb	1,005.00
63051	10 in x 10 in	25 x 0.005 lb/10 x 0.002 kg/ 10,000 x 2 g/400 x 0.10 oz	23 lb	1,005.00
63050	12 in x 12 in	50 x 0.01 lb/25 x 0.005 kg/ 25,000 x 5 g/800 x 0.20 oz	26 lb	1,110.00
63049	12 in x 12 in	100 x 0.02 lb/50 x 0.01 kg/ 50,000 x 10 g/1,600 x 0.50 oz	26 lb	1,110.00
IQ plus 2100 with attachment bracket - 115 VAC				
63043	10 in x 10 in	5 x 0.001 lb/2.5 x 0.0005 kg/ 2,500 x 0.5 g/80 x 0.02 oz	23 lb	1,035.00
63042	10 in x 10 in	10 x 0.002 lb/5 x 0.001 kg/ 5,000 x 1 g/160 x 0.05 oz	23 lb	1,035.00
63041	10 in x 10 in	25 x 0.005 lb/10 x 0.002 kg/ 10,000 x 2 g/400 x 0.10 oz	23 lb	1,035.00
63040	12 in x 12 in	50 x 0.01 lb/25 x 0.005 kg/ 25,000 x 5 g/800 x 0.20 oz	26 lb	1,145.00
63039	12 in x 12 in	100 x 0.02 lb/50 x 0.01 kg/ 50,000 x 10 g/1,600 x 0.50 oz	26 lb	1,145.00
IQ plus 2100 with 12 in column - 115 VAC				
63048	10 in x 10 in	5 x 0.001 lb, 2.5 x 0.0005 kg/ 2,500 x 0.5 g/80 x 0.02 oz	25 lb	1,105.00
63047	10 in x 10 in	10 x 0.002 lb/5 x 0.001 kg/ 5,000 x 1 g/160 x 0.05 oz	25 lb	1,105.00
63046	10 in x 10 in	25 x 0.005 lb/10 x 0.002 kg/ 10,000 x 2 g/400 x 0.10 oz	25 lb	1,105.00
63045	12 in x 12 in	50 x 0.01 lb/25 x 0.005 kg/ 25,000 x 5 g/800 x 0.20 oz	28 lb	1,215.00
63044	12 in x 12 in	100 x 0.02 lb/50 x 0.01 kg/ 50,000 x 10 g/1,600 x 0.50 oz	28 lb	1,215.00
IQ plus 2100 with 12 in column - 230 VAC				
63063	10 in x 10 in	5 x 0.001 lb/2.5 x 0.0005 kg/ 2,500 x 0.5 g/80 x 0.02 oz	25 lb	1,105.00
63062	10 in x 10 in	10 x 0.002 lb/5 x 0.001 kg/ 5,000 x 1 g/160 x 0.05 oz	25 lb	1,105.00
63061	10 in x 10 in	25 x 0.005 lb/10 x 0.002 kg/ 10,000 x 2 g/400 x 0.10 oz	25 lb	1,105.00
63060	12 in x 12 in	50 x 0.01 lb/25 x 0.005 kg/ 25,000 x 5 g/800 x 0.20 oz	28 lb	1,215.00
63059	12 in x 12 in	100 x 0.02 lb/50 x 0.01 kg/ 50,000 x 10 g/1,600 x 0.50 oz	28 lb	1,215.00
IQ plus 2100 with 18 in column - 115 VAC				
72476	12 in x 18 in	50 x 0.01 lb/25 x 0.005 kg/ 25,000 x 5 g/800 x 0.02 oz	37 lb	1,615.00
72477	12 in x 18 in	100 x 0.02 lb/50 x 0.01 kg/ 50,000 x 10 g/1,600 x 0.50 oz	37 lb	1,615.00
72478	18 in x 18 in	50 x 0.01 lb/25 x 0.005 kg/ 25,000 x 5 g/800 x 0.02 oz	68 lb	2,180.00
72479	18 in x 18 in	150 x 0.05 lb/75 x 0.02 kg/ 75,000 x 20 g/2,400 x 0.50 oz	68 lb	2,180.00
72480	18 in x 18 in	300 x 0.1 lb/150 x 0.05 kg/ 150,000 x 50 g/4,800 x 1 oz	68 lb	2,180.00
72481	18 in x 18 in	500 x 0.1 lb/250 x 0.05 kg/ 250,000 x 50 g/8,000 x 2 oz	68 lb	2,180.00
72482	18 in x 24 in	50 x 0.01 lb/25 x 0.005 kg/ 25,000 x 5 g/800 x 0.02 oz	78 lb	2,395.00
72483	18 in x 24 in	150 x 0.05 lb/75 x 0.02 kg/ 75,000 x 20 g/2,400 x 0.50 oz	78 lb	2,395.00
72484	18 in x 24 in	300 x 0.1 lb/150 x 0.05 kg/ 150,000 x 50 g/4,800 x 1 oz	78 lb	2,395.00
72485	18 in x 24 in	500 x 0.1 lb/250 x 0.05 kg/ 250,000 x 50 g/8,000 x 2 oz	78 lb	2,395.00
72486	18 in x 24 in	1000 x 0.2 lb/500 x 0.1 kg/ 500,000 x 100 g/16,000 x 5 oz	78 lb	2,395.00
72487	24 in x 24 in	150 x 0.05 lb/75 x 0.02 kg/ 75,000 x 20 g/2,400 x 0.50 oz	84 lb	2,510.00
72488	24 in x 24 in	300 x 0.1 lb/150 x 0.05 kg/ 150,000 x 50 g/4,800 x 1 oz	84 lb	2,510.00
72489	24 in x 24 in	500 x 0.1 lb/250 x 0.05 kg/ 250,000 x 50 g/8,000 x 2 oz	84 lb	2,510.00
72490	24 in x 24 in	1000 x 0.2 lb/500 x 0.1 kg/ 500,000 x 100 g/16,000 x 5 oz	84 lb	2,510.00

OPTIONS/ACCESSORIES

53001	304 stainless steel clamshell for added load cell protection	75.00
64123	Remote switch for zero, units, and print (non-washdown)	75.00
N/A	Print button mounted on the top of the enclosure (not field installable)	70.00
N/A	Stainless steel load cell (replacing standard aluminum load cell on 10x10 or 12x12 bases only)	+85.00 list price adder
N/A***†	18 in column replacing standard 12 in column	+50.00 list price adder
53415	Additional operation manual	30.00

* To convert inches to millimeters: Multiply inch measurement by 25.4

*** Not recommended for use with scale bases smaller than 12 in x 12 in

† If ordering the two non-tactile buttons or column without a scale, refer to the replacement parts catalog for part number and pricing

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IQ Plus® 2100SL

Digital Bench Scale



IQ plus 2100SL with attachment bracket



IQ plus 2100 with column



IQ plus 2100 with tilt stand

STANDARD FEATURES

- NEMA 4X, 304 stainless steel
- Large, bold 0.8 in Light Emitting Diode (LED) display
- Status annunciators: lb, kg, oz, g, negative, motion, center of zero
- One full duplex RS-232 port
- Two digital inputs for remote zero, print and units
- 12 in column, attachment bracket or tilt stand for table, wall or under counter mounting
- 115 VAC operation, 230 VAC available
- RL1042 aluminum, single point load cell
- Overload and upload stops on scale base
- Stainless steel, non-tactile feel, piezo zero and units buttons
- Displays units in decimal lb, kg, oz, g (lb and oz not legal-for-trade)
- Prevent™ breather vent
- Spring loaded platform

APPROVALS

Measurement Canada Approved *Meets USDA Requirements*

SPECIFICATIONS

LINE VOLTAGES:
115 or 230 VAC

FREQUENCY:
50 or 60 Hz

POWER CONSUMPTION:
70 mA @ 115 VAC (8 W)
35 mA @ 230 VAC (8 W)

DISPLAY RESOLUTION:
10,000 dd

DIGITAL INPUTS:
Two inputs, TTL or switch closure, active-low

DIGITAL FILTER:
Software selectable

SERIAL COMMUNICATIONS:
Full duplex RS-232; 9600, 4800, 2400, 1200 bps; seven or eight data bits; even, odd, or no parity

DISPLAY:
Six-digit Light Emitting Diode (LED) display. seven-segment, 0.8 in (20 mm) digits

LED ANNUNCIATORS:
Negative value, center of zero, motion, kg, g, lb, oz

KEYPAD:
Two stainless steel piezo switches

OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C)

RATING/MATERIAL:
NEMA 4X/IP66, stainless steel

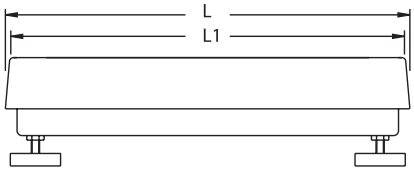
APPROVALS:
Indicator: NTEP Certified per H-44, Class IIIL 10,000 d; CC# 00-045
Measurement Canada approved, AM-5374; UL and C-UL listed
Base: NTEP Certified per H-44, Class III 5,000 d; CC# 95-072A2

WARRANTY:
Two-year limited warranty

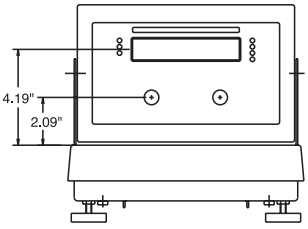
IQ PLUS 2100SL SPECIFICATIONS
For base specifications, please refer to the BenchMark SL Series catalog page BS-3

PLATFORM DIMENSIONS	L	L1
10 in x 10 in (254 mm x 254 mm)	10.25 in (260.4 mm)	10 in (254 mm)
12 in x 12 in (304.8 mm x 304.8 mm)	12.25 in (311.2 mm)	12 in (304.8 mm)

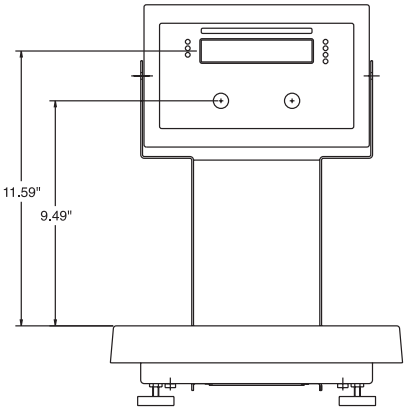
See BenchMark Series – Stainless Steel for 12 in x 18 in, 18 in x 18 in, 18 in x 24 in and 24 in x 24 in detailed platform dimensions



With attachment bracket



With 12 in column



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IQ Plus® 2100SL

Digital Bench Scale

PART #	PLATFORM SIZE*	CAPACITY (LB/KG/G/OZ)	EST. SHIP WEIGHT	PRICE
IQ plus 2100SL with tilt stand - 115 VAC				
65168	10 in x 10 in	5 x 0.001 lb/2.5 x 0.0005 kg/ 2,500 x 0.5 g/80 x 0.02 oz	21 lb	$1,125.00
65169	10 in x 10 in	10 x 0.002 lb/5 x 0.001 kg/ 5,000 x 1 g/160 x 0.05 oz	21 lb	1,125.00
65170	10 in x 10 in	20 x 0.005 lb/10 x 0.002 kg/ 10,000 x 2 g/320 x 0.1 oz	21 lb	1,125.00
65171	10 in x 10 in	30 x 0.01 lb/15 x 0.005 kg/ 15,000 x 5 g/480 x 0.1 oz	21 lb	1,125.00
65172	12 in x 12 in	30 x 0.01 lb/15 x 0.005 kg/ 15,000 x 5 g/480 x 0.1 oz	24 lb	1,200.00
65173	12 in x 12 in	50 x 0.01 lb/25 x 0.005 kg/ 25,000 x 5 g/800 x 0.20 oz	24 lb	1,230.00
65174	12 in x 12 in	100 x 0.02 lb/50 x 0.01 kg/ 50,000 x 10 g/1600 x 0.50 oz	24 lb	1,230.00
IQ plus 2100SL with attachment bracket - 115 VAC				
65175	10 in x 10 in	5 x 0.001 lb/2.5 x 0.0005 kg/ 2,500 x 0.5 g/80 x 0.02 oz	21 lb	1,155.00
65176	10 in x 10 in	10 x 0.002 lb/5 x 0.001 kg/ 5,000 x 1 g/160 x 0.05 oz	21 lb	1,155.00
65177	10 in x 10 in	20 x 0.005 lb/10 x 0.002 kg/ 10,000 x 2 g/320 x 0.1 oz	21 lb	1,155.00
65178	10 in x 10 in	30 x 0.01 lb/15 x 0.005 kg/ 15,000 x 5 g/480 x 0.1 oz	21 lb	1,155.00
65179	12 in x 12 in	30 x 0.01 lb/15 x 0.005 kg/ 15,000 x 5 g/480 x 0.1 oz	24 lb	1,230.00
65180	12 in x 12 in	50 x 0.01 lb/25 x 0.005 kg/ 25,000 x 5 g/800 x 0.20 oz	24 lb	1,265.00
65181	12 in x 12 in	100 x 0.02 lb/50 x 0.01 kg/ 50,000 x 10 g/1600 x 0.50 oz	24 lb	1,265.00
IQ plus 2100SL with 12 in column - 115 VAC				
65182	10 in x 10 in	5 x 0.001 lb/2.5 x 0.0005 kg/ 2,500 x 0.5 g/80 x 0.02 oz	23 lb	1,225.00
65183	10 in x 10 in	10 x 0.002 lb/5 x 0.001 kg/ 5,000 x 1 g/160 x 0.05 oz	23 lb	1,225.00
65184	10 in x 10 in	20 x 0.005 lb/10 x 0.002 kg/ 10,000 x 2 g/320 x 0.1 oz	23 lb	1,225.00
65185	10 in x 10 in	30 x 0.01 lb/15 x 0.005 kg/ 15,000 x 5 g/480 x 0.1 oz	23 lb	1,225.00
65186	12 in x 12 in	30 x 0.01 lb/15 x 0.005 kg/ 15,000 x 5 g/480 x 0.1 oz	26 lb	1,300.00
65187	12 in x 12 in	50 x 0.01 lb/25 x 0.005 kg/ 25,000 x 5 g/800 x 0.20 oz	26 lb	1,335.00
65188	12 in x 12 in	100 x 0.02 lb/50 x 0.01 kg/ 50,000 x 10 g/1600 x 0.50 oz	26 lb	1,335.00

OPTIONS/ACCESSORIES

53001	304 stainless steel clamshell for added load cell protection	75.00
64123	Remote switch for zero, units and print (non-washdown)	75.00
N/A	Print button mounted on the top of the enclosure (not field installable)	70.00
N/A	RL1380 stainless steel load cell (replacing standard aluminum load cell)	+85.00 list price adder
N/A***†	18 in column replacing standard 12 in column	+50.00 list price adder
53415	Additional operation manual	30.00

* To convert inches to millimeters: Multiply inch measurement by 25.4

*** Not recommended for use with scale bases smaller than 12 in x 12 in

† If ordering the two non-tactile buttons or column without a scale, refer to the replacement parts catalog for part numbers and pricing

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CW-90

Over/Under Checkweigher



STANDARD FEATURES

- Membrane keypad consisting of ZERO, UNITS, PRINT, TARE, OVER, UNDER, ID, TARGET, 0-9, CLEAR, DECIMAL, ENTER, MENU, POWER
- 304 stainless steel, IP66 rated
- Prevent™ breather vent
- Storage for up to 50 ID's
- Unit of Measure: kg, gm, lb, oz, lb/oz
- High-Intensity LED display
- Battery backed time and date
- Two full duplex serial ports
- Configurable print formats
- Audit trail tracking
- Optional communications: Ethernet, USB or Fiber Optic
- Four configurable Digital I/O
- Reflash memory to upgrade firmware

Scale:

- Aluminum, environmentally sealed load cell
- 304 stainless steel
- Five point overload protection

APPROVALS

Pending

REVOLUTION III SCALE SOFTWARE

SPECIFICATIONS

POWER - AC:
Line voltages: 115/230 VAC
Frequency: 50/60 Hz

POWER CONSUMPTION:
1.5 A @ 115 VAC (8 W),
0.75 A @ 230 VAC (8 W)

EXCITATION VOLTAGE:
+5 VDC 8 x 350 Ω or
16 x 700 Ω load cells

ANALOG SIGNAL INPUT RANGE:
-0.5 mV/V - 4.5 mV/V

ANALOG SIGNAL SENSITIVITY:
0.3 uV/graduation minimum, 1.5 uV/graduation recommended

MEASUREMENT RATE:
960,480, 240, 120, 60, 30, 15, 7.5 per second

SYSTEM LINEARITY:
+/- 0.01% full scale

DIGITAL I/O:
4 channels on CPU board

CIRCUIT PROTECTION:
RFI, EMI, ESD protection

DISPLAY:
Large 0.8 in 14 segment, 6 digit high-intensity red LED display

STATUS ANNUNCIATORS:
Designators for %, kg, gm, lb, oz, center of zero, G/B, N, T, PT, neg, motion

OPERATING TEMPERATURE:
Legal: 14ºF to 104ºF (-10ºC to +40ºC)

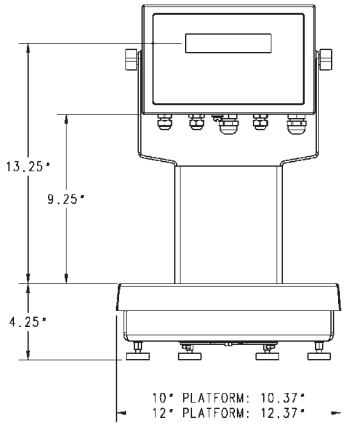
RATING/MATERIAL:
IP66, stainless steel

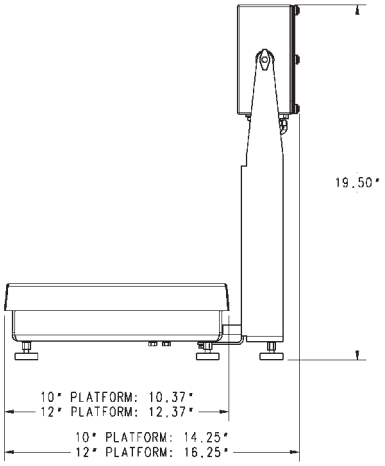
DISPLAY RESOLUTION:
100,000 graduations maximum

LOAD CELL:
Aluminum, environmentally sealed

APPROVALS:
NTEP: CC # 08-092 (indicator)
CC # 95-072 (scale)
Measurement Canada AM-5710
OIML (pending)
UL and CUL listed
CE marked
NSF

WARRANTY:
Two-year limited warranty





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CW-90

Over/Under Checkweigher

PART #	CAPACITY	PLATFORM DIMENSIONS	COLUMN HEIGHT	EST. SHIP WEIGHT	PRICE
(115 VAC)					
105957	5 lb x 0.001 lb (2.5 x 0.0005 kg) 80 x 0.02 oz	10 in x 10 in x 4.25 in	12 in	29 lb	$1,285.00
105958	10 lb x 0.002 lb (5 x 0.001 kg) 160 x 0.05 oz	10 in x 10 in x 4.25 in	12 in	29 lb	1,285.00
105959	25 lb x 0.005 lb (10 x 0.002 kg) 400 x 0.1 oz	10 in x 10 in x 4.25 in	12 in	29 lb	1,285.00
105960	25 lb x 0.005 lb (10 x 0.002 kg) 400 x 0.1 oz	12 in x 12 in x 4.25 in	12 in	33 lb	1,395.00
105961	50 lb x 0.01 lb (25 x 0.005 kg) 800 x 0.2 oz	12 in x 12 in x 4.25 in	12 in	33 lb	1,395.00
105962	100 lb x 0.02 lb (50 x 0.01 kg) 1600 x 0.5 oz	12 in x 12 in x 4.25 in	12 in	33 lb	1,395.00
(230 VAC)					
106123	5 lb x 0.001 lb (2.5 x 0.0005 kg) 80 x 0.02 oz	10 in x 10 in x 4.25 in	12 in	29 lb	1,285.00
106124	10 lb x 0.002 lb (5 x 0.001 kg) 160 x 0.05 oz	10 in x 10 in x 4.25 in	12 in	29 lb	1,285.00
106125	25 lb x 0.005 lb (10 x 0.002 kg) 400 x 0.1 oz	10 in x 10 in x 4.25 in	12 in	29 lb	1,285.00
106126	25 lb x 0.005 lb (10 x 0.002 kg) 400 x 0.1 oz	12 in x 12 in x 4.25 in	12 in	33 lb	1,395.00
106127	50 lb x 0.01 lb (25 x 0.005 kg) 800 x 0.2 oz	12 in x 12 in x 4.25 in	12 in	33 lb	1,395.00
106128	100 lb x 0.02 lb (50 x 0.01 kg) 1600 x 0.5 oz	12 in x 12 in x 4.25 in	12 in	33 lb	1,395.00

OPTIONS/ACCESSORIES

77142	Ethernet TCP/IP	400.00
108671	Wireless LAN card WiFi 802.11 A/B	550.00
93245	USB Port (PC connection only) cable included	125.00
95357	USB cable, Type A to mini-B, 1 meter	5.00
96736	Fiber optic board	300.00
78026	Fiber optic, duplex cable 100 ft	130.00
80892	Fiber optic cutter	7.00

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CW-90X

Over/Under Checkweigher



STANDARD FEATURES

- Piezo keypad consisting of ZERO, UNITS, PRINT, TARE, OVER, UNDER, ID, TARGET, ENTER, MENU, POWER
- 304 stainless steel, IP69K rated
- Prevent breather vent
- Storage for up to 50 ID's
- Unit of measure: kg, gm, lb, oz, lb/oz
- High-Intensity LED display
- Battery backed time and date
- Two full duplex serial ports
- Configurable print formats
- Audit trail tracking
- Optional communications: Ethernet, USB or Fiber Optic
- Four configurable Digital I/O
- Reflash memory to upgrade firmware

Scale:

- IP69K, stainless steel hermetically sealed load cell
- 304 stainless steel
- Five point overload protection

APPROVALS

Pending

Measurement Canada Approved

REVOLUTION II SCALE SOFTWARE

SPECIFICATIONS

POWER - AC:
Line voltages: 115/230 VAC
Frequency: 50/60 Hz

POWER CONSUMPTION:
1.5 A @ 115 VAC (8 W),
0.75 A @ 230 VAC (8 W)

EXCITATION VOLTAGE:
+5 VDC 8 x 350 Ω or
16 x 700 Ω load cells

ANALOG SIGNAL INPUT RANGE:
-0.5 mV/V - 4.5 mV/V

ANALOG SIGNAL SENSITIVITY:
0.3 uV/graduation minimum, 1.5 uV/ graduation recommended

MEASUREMENT RATE:
960,480, 240, 120, 60, 30, 15, 7.5 per second

SYSTEM LINEARITY:
+/- 0.01% full scale

DIGITAL I/O:
4 channels on CPU board

CIRCUIT PROTECTION:
RFI, EMI, ESD protection

DISPLAY:
Large 0.8 in 14 segment, 6 digit high-intensity red LED display

STATUS ANNUNCIATORS:
Designators for %, kg, gm, lb, oz, center of zero, G/B, N, T, PT, neg, motion

OPERATING TEMPERATURE:
Legal: 14ºF to 104ºF
(-10ºC to +40ºC)

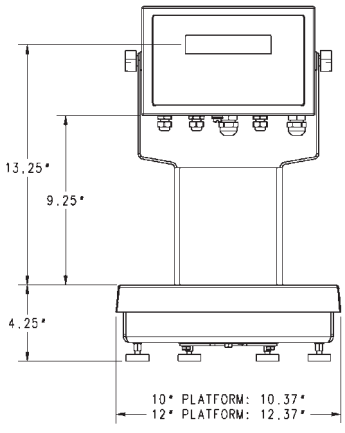
RATING/MATERIAL:
IP69K, stainless steel

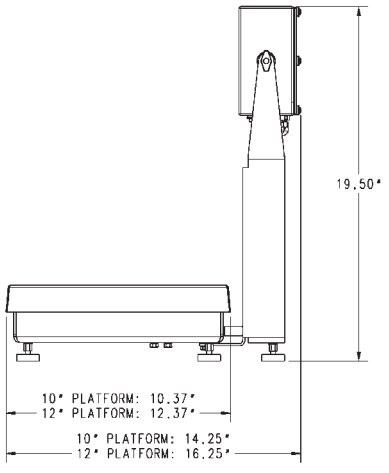
DISPLAY RESOLUTION:
100,000 graduations maximum

LOAD CELL:
IP69, stainless steel hermetically sealed

APPROVALS:
NTEP: CC # 08-092 (indicator)
CC # 95-072 (scale)
Measurement Canada (AM-5710)
OIML (pending)
UL and CUL listed
CE marked
NSF

WARRANTY:
Three-year limited warranty





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CW-90X

Over/Under Checkweigher

PART #	CAPACITY	PLATFORM DIMENSIONS	COLUMN HEIGHT	EST. SHIP WEIGHT	PRICE
(115 VAC)					
105963	5 lb x 0.001 lb (2.5 x 0.0005 kg) 80 x 0.02 oz	10 in x 10 in x 4.25 in	12 in	29 lb	$1,485.00
105965	10 lb x 0.002 lb (5 x 0.001 kg) 160 x 0.05 oz	10 in x 10 in x 4.25 in	12 in	29 lb	1,485.00
105966	25 lb x 0.005 lb (10 x 0.002 kg) 400 x 0.1 oz	10 in x 10 in x 4.25 in	12 in	29 lb	1,485.00
105967	25 lb x 0.005 lb (10 x 0.002 kg) 400 x 0.1 oz	12 in x 12 in x 4.25 in	12 in	33 lb	1,595.00
105968	50 lb x 0.01 lb (25 x 0.005 kg) 800 x 0.2 oz	12 in x 12 in x 4.25 in	12 in	33 lb	1,595.00
105969	100 lb x 0.02 lb (50 x 0.01 kg) 1600 x 0.5 oz	12 in x 12 in x 4.25 in	12 in	33 lb	1,595.00
(230 VAC)					
106129	5 lb x 0.001 lb (2.5 x 0.0005 kg) 80 x 0.02 oz	10 in x 10 in x 4.25 in	12 in	29 lb	1,485.00
106130	10 lb x 0.002 lb (5 x 0.001 kg) 160 x 0.05 oz	10 in x 10 in x 4.25 in	12 in	29 lb	1,485.00
106131	25 lb x 0.005 lb (10 x 0.002 kg) 400 x 0.1 oz	10 in x 10 in x 4.25 in	12 in	29 lb	1,485.00
106132	25 lb x 0.005 lb (10 x 0.002 kg) 400 x 0.1 oz	12 in x 12 in x 4.25 in	12 in	33 lb	1,595.00
106133	50 lb x 0.01 lb (25 x 0.005 kg) 800 x 0.2 oz	12 in x 12 in x 4.25 in	12 in	33 lb	1,595.00
106134	100 lb x 0.02 lb (50 x 0.01 kg) 1600 x 0.5 oz	12 in x 12 in x 4.25 in	12 in	33 lb	1,595.00

OPTIONS/ACCESSORIES

77142	Ethernet TCP/IP	400.00
108671	Wireless LAN card WiFi 802.11 A/B	550.00
93245	USB Port (PC connection only) cable included	125.00
95357	USB cable, Type A to mini-B, 1 meter	5.00
96736	Fiber optic board	300.00
78026	Fiber optic, duplex cable 100 ft	130.00
80892	Fiber optic cutter	7.00

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CONCRETE BATCH CONTROLLERS

CB-2

Multi-Scale Automated Batching System **CB-2**

CB-2 Concrete Batch Controller Multi-Scale Automated Batching System



STANDARD FEATURES

- One aggregate and one cement scale sampling 120 times per second
- Standard manual override controls
- Batch tickets with configurable field printing
- 1 megabyte database
- Material usage by day/week/month/year and inventory on hand with reporting
- Automatic aeration control for cement silos and weigh hoppers
- Multiple freefall values per material with “learning” abilities
- Split batching for loads larger than plant capacity with pre-weighing next batch for maximum throughput
- Automatic dust collection outputs
- Simulation mode for demonstration and/or testing

SPECIFICATIONS

MATERIALS:
Eight single speed aggregates
Four dual speed cements
Hot & cold metered or weighed water delivered in two additions
Six metered admixtures configurable as bottle or direct feed injected with either water addition

1 MEGABYTE DATABASE:
2200 mix designs
750 customers
200 trucks
99 materials
100 orders

STATE MODES:
CALTRAN
NYSDOT
MnDOT

LINE VOLTAGES:
115 or 230 VAC

FREQUENCY:
50 or 60 Hz

POWER CONSUMPTION:
340 mA, maximum @ 115 VAC (26 W)
240 mA @ 230 VAC (26 W)

FUSING:
115 VAC: 2 x 400 mA TR5 subminiature fuses Wickman Time-Lag 19374 Series. UL Listed, CSA certified and approved
230 VAC/North American: 2 x 315 mA TR5 subminiature fuses Wickman Time-Lag 19372 Series. UL Listed, Semco and VD Approved

FULL SCALE INPUT SIGNAL:
Up to 70 mV

EXCITATION VOLTAGE:
10 ± 0.5 VDC, 16 x 350 Ω or 32 x 700 Ω load cells per A/D card

SENSE AMPLIFIER:
Differential amplifier with 4 and 6 wire sensing

ANALOG SIGNAL INPUT RANGE:
-10 mV to +70 mV

ANALOG SIGNAL SENSITIVITY:
0.3 µV/graduation minimum @ 7.5 Hz
1.0 µV/graduation typical @ 120 Hz
4.0 µV/graduation typical @ 960 Hz

A/D SAMPLE RATE:
7.5 to 960 Hz, software selectable (120 recommended)

INPUT IMPEDANCE:
>35 M typical

INTERNAL RESOLUTION:
8 million counts/8 million 23 bit

WEIGHT DISPLAY RESOLUTION:
9,999,999

INPUT SENSITIVITY:
10 nV per internal count

SYSTEM LINEARITY:
±0.01% full scale

ZERO STABILITY:
±150 nV/°C, maximum

SPAN STABILITY:
±3.5 ppm/°C, maximum

CALIBRATION METHOD:
Software, contents stored in flash memory

INPUT VOLTAGE DIFFERENTIAL:
±800 mV referenced to earth ground

INPUT OVERLOAD:
Load cell signal lines ±10 V continuous, ESD protected

RFI/EMI PROTECTION:
Signal, excitation and sense lines protected

ANALOG OUTPUT:
Option card: 16 bit resolution DAC
Load resistance: 1.1 KΩ minimum
Voltage output: 0 – 10 VDC
Current output: 0 – 20 mA
External loop resistance: 840 Ω maximum

MICROCOMPUTER:
Motorola ColdFire® MCF5307 main processor @ 90 MHz

DIGITAL I/O:
Four I/O channels on CPU board; optional 24-channel I/O expansion boards available

DIGITAL FILTER:
Software selectable: 1–256, enhanced RATTLE-TRAP® hybrid digital filtering

SERIAL PORTS:
Four ports on CPU board support up to 115,200 bps; optional dual-channel serial expansion boards available
Port 1: Full duplex RS-232
Port 2: RS-232 with CTS/RTS; PS/2 keyboard interface via DB-9 connector
Port 3: Full duplex RS-232, 20 mA output
Port 4: Full duplex RS-232, 2-wire RS-485, 20 mA output

DISPLAY:
4.6 in W x 3.4 in H (116 W x 86 mm H), 320 x 240 pixel VGA Liquid Crystal Display (LCD) module with adjustable contrast, 75 Hz scan rate 26,000 cd/m2 brightness

KEYBOARD:
27-key membrane panel, PS/2 port for external keyboard connection

OPTIONAL FEATURES:
Four dual or eight single speed aggregates
Four dual or eight single speed cements
Weighed water with water reservoir
Four or eight auxiliary manual controls
Dual moisture probe interface (supports 4-20 mA or 0-10 V probes)
Continuous batching with mixer controls for central mix block or precast plants

Coldfire is a registered trademark of Motorola Inc.

*Factory field installation required, minimum three days on site

RICE LAKE WEIGHING SYSTEMS

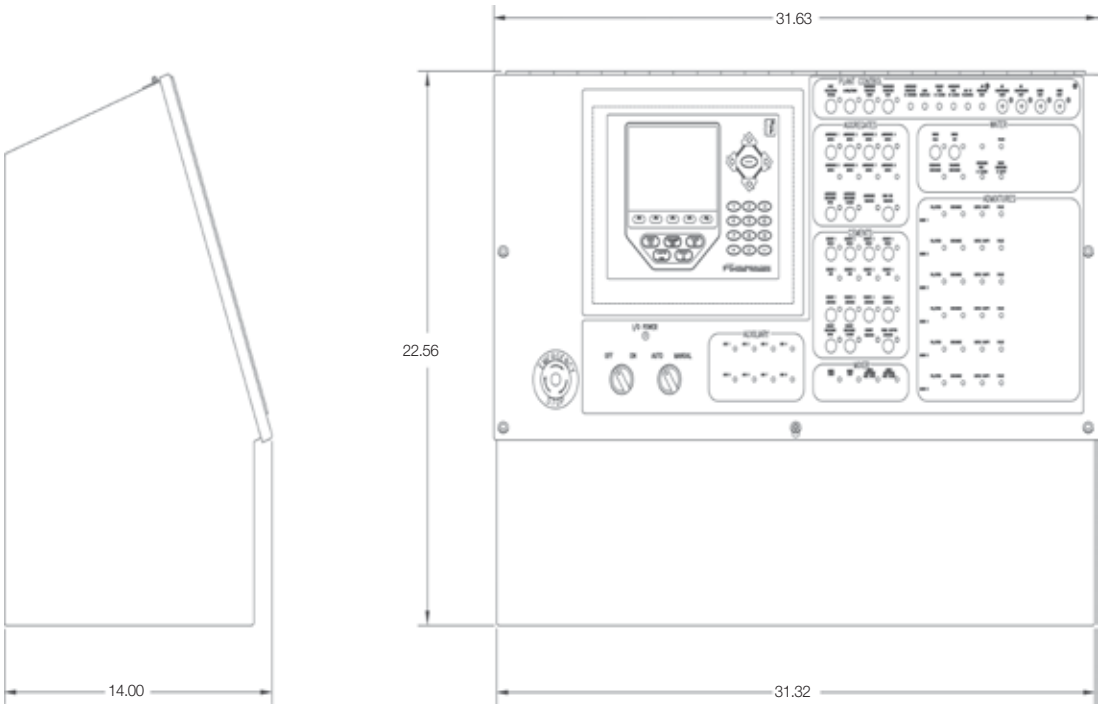
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CB-2 Concrete Batch Controller Multi-Scale Automated Batching System

PART#	DESCRIPTION	EST. SHIP WEIGHT	PRICE
93501	CB-2 Concrete Batching Controller Metered Water/Four Cement/Eight Aggregate/Six Admix 115 VAC	180 lb	$18,995.00
93502	CB-2 Concrete Batching Controller Metered Water/Four Cement/Eight Aggregate/Six Admix 230 VAC	180 lb	18,995.00
93503	CB-2 Concrete Batching Controller Weighed Water/Four Cement/Eight Aggregate/Six Admix 115 VAC	180 lb	18,995.00
93504	CB-2 Concrete Batching Controller Weighed Water/Four Cement/Eight Aggregate/Six Admix 230 VAC	180 lb	18,995.00
FLD-INST	Factory installation (required 40 hrs)		5,400.00

CONSULT FACTORY FOR THE FOLLOWING OPTIONS/ACCESSORIES

93505..... Four Dual or Eight Single Speed Aggregates (Factory Installed Option)
93506..... Four Dual or Eight Single Speed Cements (Factory Installed Option)
93507..... Mixer Logic and Manual Controls (Factory Installed Option)
93508..... Four Auxiliary Controls (Factory Installed Option)
93509..... Eight Auxiliary Controls (Factory Installed Option)
93510..... Water Reservoir (Factory Installed Option)
93511..... Dual Moisture Probe Input (Factory Installed Option)
110783..... Load Mix Designs and test prior to shipping ..... No charge



Notes

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DIGI® DC-788 Series
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DIGI® DC-100 Series
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DIGI® S-XL/S-XD Platform Series..... **C-5**

DIGI® S-XL/S-XD Platform Series..... **C-7**

DIGI® S-XL/S-XD Platform Series..... **C-9**

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IMS
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OHAUS® EC Series
Counting Scales **C-14**

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Counting Scales **C-15**

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Counting Scales **C-16**

COIN COUNTING SCALES

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Portable Coin Counting Scales **C-17**

DIGI® DMC-290 Series
Coin Counting Scales **C-18**

SPECIALS AND DISCONTINUED PRODUCTS **C-20**

NEW DIGI® DC-782 Series

Portable Counting Scales



STANDARD FEATURES

- Liquid Crystal Display (LCD) with yellow backlight
- RS-232 output to PC
- 10 preset keys for product ID
- 25 item memory
- Internal resolution of 1/500,000
- Buzzer - low, ok, high

* Batteries not included

SPECIFICATIONS

INTERNAL RESOLUTION:
1/500,000

WEIGHT DISPLAY RESOLUTION:
1/7500 (1/6000)

DISPLAY:
Liquid Crystal Display (LCD) with backlight
Weight: Five-digit
Unit Weight: Five-digits
Quantity: Six-digit

POWER SOURCE:
120 - 230 VAC power supply, (US power cord)

NUMBER OF SCALE CHANNEL:
One local scale

MEMORY ITEMS:
25

RS-232:
9 Pin to PC

OPTIONAL BATTERY:
Charge time: 12-14 hours
Battery life: 300 hours (no backlight)

OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C)

DIMENSIONS:
Overall: 335.7 mm W x 349.7 mm D x 123.5 mm H
(13 in W x 13 in L x 5 in H)

ESTIMATED SHIPPING WEIGHT:
5 kg

PLATTER SIZE:
300 x 225 mm (12 x 8.9 in)

WARRANTY:
Two-year limited warranty

PART #	DESCRIPTION	CAPACITY	EST. SHIP WEIGHT	PRICE
108248	DC-782	6 lb x 0.001 lb	11 lb (5 kg)	$495.00
108249	DC-782	15 lb x 0.002 lb	11 lb (5 kg)	495.00
108250	DC-782	30 lb x 0.005 lb	11 lb (5 kg)	495.00
108251	DC-782	60 lb x 0.01 lb	11 lb (5 kg)	495.00

Consult factory for kg unit models.

OPTIONS/ACCESSORIES

108516	Rechargeable battery	35.00
73382	AC adapter 110 VAC	45.00
108518	AC adapter 110 - 230 VAC	45.00
109429	Manual	25.00
73296	Carrying case	160.00

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DIGI® DC-788 Series

Counting Scales



STANDARD FEATURES

- Internal resolution of 1/1,000,000
- Auto recomputing function
- Negative sampling and counting (count out of a full container)
- Vivid, bright red Liquid Crystal Display (LCD)
- Simultaneously weight display, unit weight, tare and quantity
- Net/gross weight display
- Lb/kg weight display conversion
- Full-duplex RS-232 output to PC or printer
- AC or rechargeable battery operation (battery optional)
- Choice of unit weight per thousand or average piece weight
- Remote scale capability
- 100 product look up registers
- NTEP for non-counting applications

SPECIFICATIONS

INTERNAL RESOLUTION:
1/1,000,000

WEIGHT DISPLAY RESOLUTION:
1/5,000 NTEP, other selections capacity dependent

DISPLAY:
Liquid Crystal Display (LCD)
Weight: Five-digit
Unit weight: Five-digit
Quantity: Seven-digit
Tare: Five-digit

POWER SOURCE/CONSUMPTION:
AC: 115, 60 Hz
Optional battery: 6 V, 5.0 Ah

INPUT SENSITIVITY:
0.4 mV/V to 4 mV/V

PRINTER COMPATIBILITY:
RL-42DT/TT
Epson TM-U220 Tape
STAR® SP512 Tape
Epson TM-U295 Ticket

ZERO ADJUST RANGE:
±127% full scale

LOAD CELL EXCITATION:
12 VDC

NUMBER OF SCALE CHANNELS:
One remote scale, one 350Ω load cell

MEMORY ITEMS:
100 items

LOAD CELL INPUT CONNECTOR:
Amphenol 14-pin

COMPUTER INTERFACE:
RS-232 DB-9M connection

BATTERY OPERATION:
24 hours of continuous usage

CHARGE TIME:
8-10 hours

OPERATING TEMPERATURE:
14ºF to 104ºF (-10ºC to 40ºC)

DIMENSIONS:
Overall: 14 in W x 13.75 in D x 4.5 in H
(354 mm W x 349 mm D x 115 mm H)

ESTIMATED SHIPPING WEIGHT:
15 lb (7 kg)

APPROVALS:
NTEP CC-07-015 (10 lb - 100 lb)
Class III for weigh mode only
10 lb to 100 lb-scales only

WARRANTY:
Two-year limited warranty

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DIGI® DC-788 Series

Counting Scales

PART #	DESCRIPTION	WEIGHING RESOLUTION	PLATTER	EST. SHIP WEIGHT	PRICE
*88928	DC-788 2 lb	0.0002 lb	7 in x 10 in	15 lb (7 kg)	$795.00
88929	DC-788 10 lb	0.002 lb	10 in x 13 in	15 lb (7 kg)	795.00
88930	DC-788 20 lb	0.005 lb	10 in x 13 in	15 lb (7 kg)	795.00
88931	DC-788 50 lb	0.01 lb	10 in x 13 in	15 lb (7 kg)	795.00
88932	DC-788 100 lb	0.02 lb	10 in x 13 in	15 lb (7 kg)	795.00
S-XL-Single Platform					
73272	S-XL Platform, 1 lb		6 in x 8 in	20 lb (9 kg)	530.00
73275	S-XL Platform, 2.5 lb		7 in x 10 in	20 lb (9 kg)	530.00
73277	S-XL Platform, 5 lb		9 in x 12 in	20 lb (9 kg)	530.00
73273	S-XL Platform, 10 lb		11 in x 16 in	20 lb (9 kg)	530.00
73276	S-XL Platform, 25 lb		11 in x 16 in	20 lb (9 kg)	530.00
73278	S-XL Platform, 50 lb		11 in x 16 in	20 lb (9 kg)	530.00
73274	S-XL Platform, 100 lb		11 in x 16 in	20 lb (9 kg)	530.00

OPTIONS/ACCESSORIES

88933	Rechargeable battery–lead acid type	78.00
73386	Anti-static sample tray	20.00
32375	14-pin load cell connector, Amphenol	20.00
35319	14-pin load cell connector with 20 ft cable	70.00
91685	Additional operating and service manual	25.00
37528	9-pin cable to RL-22OT, RL-42DT, RL-42TT	35.00
72440	9-pin cable to Epson TM-U220/TM-U295 SP512	55.00
66535	9-pin cable to PC, null modem cable	35.00
91214	AC adapter	35.00

PRINTERS

107404	RL-42DT, 4 in Direct Thermal	525.00
107405	RL-42TT, 4 in Thermal Transfer	625.00
65617	Label 2.25 x 4.5 with perf, Direct thermal	14.60

*Non NTEP

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DIGI® DC-100 Series

Counting Scales



STANDARD FEATURES

- Two line display showing numeric measurement and text messaging
- Bright backlit dot-matrix Liquid Crystal Display (LCD)
- Internal setpoint capabilities
- 1MB memory (Up to 2000 items)
- Internal resolution of 1/1,000,000
- Keyboard/scanner port
- Internal battery option
- One RS-232 port
- Remote scale connection

SPECIFICATIONS

INTERNAL RESOLUTION:
1/1,000,000

WEIGHT DISPLAY RESOLUTION:
1/2500, 1/5000 NTEP, 1/10,000

DISPLAY:
Two-line backlit alphanumeric
Weight: five-digits
Unit Weight: five-digits
Quantity: seven-digits

POWER SOURCE:
115 VAC (50/60 Hz), 25 W

INPUT SENSITIVITY:
0.4-2.0 mV/V

LOAD CELL EXCITATION:
12 VDC

NUMBER OF CHANNELS:
Three scales
(1- internal, 2-4 x 350 Ω load cells each)

PRINTER COMPATIBILITY:
RL-22DT
RL-42DT with custom set-up
ESCPOS compatible

INTERFACES:
1-IBM keyboard, 1-RS-232

MEMORY:
1MB (2000PLU)*
* 1500 item memory maximum if all programmable items are utilized

PROGRAMMABLE PER ITEM:
ID code (32 digits), unit weight (5 digits), part number (32 digits), part name (32 digits), location data (32 digits), inventory (8 digits), threshold (8 digits), tare weight (5 digits), setpoints, lot number (set up with external keyboard)

PRINTING ITEMS:
ID code, lot number, new weight, gross weight, unit weight, tare weight, part name, part number, quantity in, out, no-add, barcode (code 39, 128), sequence number

DIMENSIONS:
Overall: 16 in L x 15 in W x 5.5 in H
(410 mm L x 378 mm W x 144 mm H)
Platter: 1 lb - 5.5 in x 8 in
2 lb - 7 in x 10 in
5 lb - 50 lb - 11 in x 15 in

ESTIMATED SHIPPING WEIGHT:
38 lb (17.2 kg)

APPROVALS:
NTEP only Class III for weigh mode
CC# 07-102

WARRANTY:
Two-year limited warranty

DIGI® S-XL/S-XD Platform Series



STANDARD FEATURES

- Stainless steel platter
- Single-point strain gauge load cell
- Adjustable legs
- Leveling bubble
- Maintains 0.02% accuracy through full range

SPECIFICATIONS

OUTPUT IMPEDANCE:
350 ± 5 Ω

INSURANCE RESISTANCE:
500 Ω or more

LOAD CELL TYPE:
K-type DIGI

RATED OUTPUT:
1 mV/V ±7/5%

RECOMMENDED EXC. VOLTAGE:
5-12 ±0.5 VDC

LOAD CELL CABLE LENGTH:
6 ft (1.8 m)

OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C)

DIMENSIONS:
Overall: 14.88 L x 16.14 W x 5.51 in H
(378 W x 410 L x 140 mm H)

ESTIMATED SHIPPING WEIGHT:
20 lb (9 kg)

WARRANTY:
Two-year limited warranty

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DIGI® DC-100 Series

Counting Scales

PART #	DESCRIPTION	WEIGHING RESOLUTION	PLATTER	EST. SHIP WEIGHT	PRICE
82304	DC-100, 1 lb	0.0001 lb	5.5 in x 8 in	38 lb (17 kg)	$995.00
82305	DC-100, 2.5 lb	0.0002 lb	7 in x 10 in	38 lb (17 kg)	995.00
82307	DC-100, 5 lb	0.0005 lb	9 in x 12 in	38 lb (17 kg)	995.00
82308	DC-100, 10 lb	0.002 lb	11 in x 15 in	38 lb (17 kg)	995.00
82309	DC-100, 25 lb	0.005 lb	11 in x 15 in	38 lb (17 kg)	995.00
82310	DC-100, 50 lb	0.01 lb	11 in x 15 in	38 lb (17 kg)	995.00

OPTIONS/ACCESSORIES

74552	Label, 2.3 x 4.5, 250 labels/roll	25.00
32375	14 pin load cell connector	20.00
35319	14 pin load cell connector with 20 ft load cell cable	70.00
55853	Rechargeable battery	75.00
85022	PS2 to AT adaptor cable for keyboard	12.00
82311	Manual	25.00
82312	Operator guide blank	1.25
S-XL – Single Platform		
73272	S-XL Platform, 1 lb	530.00
73275	S-XL Platform, 2.5 lb	530.00
73277	S-XL Platform, 5 lb	530.00
73273	S-XL Platform, 10 lb	530.00
73276	S-XL Platform, 25 lb	530.00
73278	S-XL Platform, 50 lb	530.00
73274	S-XL Platform, 100 lb	530.00

SCANNER/ACCESSORIES

78843	QS6000 keyboard wedge scanner (requires 43860, 89162)	595.00
43860	Cable, keyboard wedge	55.00
89162	Cable, scanner RS232 with 8 pin DIN	135.00
65619	QS6000, RS232 scanner with 8-pin cable	695.00
109598	QD2100, keyboard wedge scanner with keyboard wedge cable	258.00

PRINTERS/ACCESSORIES

65617	Label 2.25 x 4.5 with perf DTL	14.60
64661	Cable for RL-22DT, RL-42DT, RL-42TT; 8-pin DIN to 9-pin D-sub	55.00
23113	Epson, TM-U295	614.00
81076	Epson, TM-U220	408.00
32810	8 pin to 25 pin RS-232 cable	55.00
107403	RL-22DT Printer	389.00

For additional platforms, please refer to Bench or Floor Scales Section.

RICE LAKE WEIGHING SYSTEMS

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DIGI® DC-190 Ultra Series

Counting Scales



STANDARD FEATURES

- AC or rechargeable battery* operation (battery optional)
- Three fluorescent displays for weight, unit weight and quantity
- Lb/kg weight display conversion
- Four scale channels including three load cell channels (1 or 2 internal)
- Six setpoints for automatic checkweighing
- Three RS-232 ports for connecting to peripherals such as bar code printers, ticket/tape printers, bar code laser/pen scanners, PCs or a force balance
- Net/gross weight display
- Accumulation and subtraction functions
- Custom label formatting
- 200 item memory

* Batteries not included

SPECIFICATIONS

INTERNAL RESOLUTION:
1/1,000,000

WEIGHT DISPLAY RESOLUTION:
1/2500, 1/5000, 1/10,000

DISPLAY:
Vacuum Florescent Display (VFD)
Weight: five-digits
Unit Weight: five-digits
Quantity: seven-digits

POWER SOURCE:
100-120 VAC, (50/60 Hz) 20 W

ZERO ADJUST RANGE:
±100% full scale

A/D CONVERSION RATE:
10 times/second

MEMORY ITEMS:
200 items, expandable with IMS software

LOAD CELL EXCITATION:
12 VDC

LOAD CELL INPUT CONNECTOR:
Amphenol 14-pin

SCANNER CONNECTOR:
8-pin DIN

PC OR BAR CODE LABEL PRINTER CONNECTOR:
8-pin DIN (RS-232C) or
D-Sub 9-pin (RS -232C)

SETPOINT OUTPUT CONNECTOR:
8-pin mini DIN (24 V open collector)

OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C)

DIMENSIONS:
Overall: 16.5 in W x 16.5 in L x 4.9 in H
(419 mm W x 419 mm L x 124 mm H)

ESTIMATED SHIPPING WEIGHT:
23 lb (10 kg)

WARRANTY:
Two-year limited warranty

DIGI® S-XL/S-XD Platform Series



STANDARD FEATURES

- Stainless steel platter
- Single-point strain gauge load cell
- Adjustable legs
- Leveling bubble
- Maintains 0.02% accuracy through full range

SPECIFICATIONS

OUTPUT IMPEDANCE:
350 ± 5 ohms

INSURANCE RESISTANCE:
500 ohms or more

LOAD CELL TYPE:
K-type DIGI

RATED OUTPUT:
1 mV/V ±7/5%

RECOMMENDED EXC. VOLTAGE:
5-12 ±0.5 VDC

LOAD CELL CABLE LENGTH:
6 ft (1.8 m)

OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C)

ESTIMATED SHIPPING WEIGHT:
20 lb (9 kg)

WARRANTY:
Two-year limited warranty

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DIGI® DC-190 Ultra Series

Counting Scales

PART#	DESCRIPTION	WEIGHING RESOLUTION	PLATTER	EST. SHIP WEIGHT	PRICE
DC-190 – Single Platform (S-XL); 4 Channel System					
74246	DC-190, 1 lb	0.0001 lb	6 in x 8 in	23 lb (10 kg)	$1,295.00
74247	DC-190, 2.5 lb	0.0002 lb	7 in x 10 in	23 lb (10 kg)	1,295.00
74248	DC-190, 5 lb	0.0005 lb	11 in x 16 in	23 lb (10 kg)	1,295.00
74249	DC-190, 10 lb	0.001 lb	11 in x 16 in	23 lb (10 kg)	1,295.00
74250	DC-190, 25 lb	0.002 lb	11 in x 16 in	23 lb (10 kg)	1,295.00
74251	DC-190, 50 lb	0.005 lb	11 in x 16 in	23 lb (10 kg)	1,295.00
74252	DC-190, 100 lb	0.01 lb	11 in x 16 in	23 lb (10 kg)	1,295.00
DC-190 – Dual Platform (S-XD); 4 Channel System**					
74267	DC-190, 1/10 lb	0.0001/0.001 lb	4 in x 6 in/9 in x 12	23 lb (10 kg)	1,495.00
74268	DC-190, 1/25 lb	0.0001/0.002 lb	4 in x 6 in/9 in x 12	23 lb (10 kg)	1,495.00
74269	DC-190, 1/50 lb	0.0001/0.005 lb	4 in x 6 in/9 in x 12	23 lb (10 kg)	1,495.00
74271	DC-190, 2.5/25 lb	0.0002/0.002 lb	4 in x 6 in/9 in x 12	23 lb (10 kg)	1,495.00
74272	DC-190, 2.5/50 lb	0.0002/0.005 lb	4 in x 6 in/9 in x 12	23 lb (10 kg)	1,495.00

OPTIONS/ACCESSORIES

53827	Rechargeable battery, lead acid type	125.00
74659	DC-190 Ultra console only (controls up to 4 channels) includes power supply	930.00
73182	Column assembly, 20 in (508 mm) high	160.00
53828	Y cable (two remote channels)	82.00
32375	14-pin load cell connector, Amphenol	20.00
74634	Additional operating manual	75.00
35319	14 pin load cell connector with 20 ft of cable	70.00
23113	Epson TM-U295 ticket printer	614.00
41279	Cable for TM-U295 or TM-U200, 9-pin D-sub to 25-pin D-sub	55.00
81076	Epson TM-U220 tape printer, 115/230 VAC, RS-232	408.00
107403	RL-22DT printer, 115/230 VAC, RS232	389.00
64660	Cable for RL-22DT,RL-42DT, 9-pin D-sub male to 9-pin D-sub male	55.00
64661	Cable for RL-22DT, RL-42DT, RL-42TT; 8-pin Din to 9-pin D-sub	55.00
73093	BCP-300/SE300 bar code printer, RS-232 (requires 73106)	495.00
73106	Cable for BCP-300, RJ11 to male 8-pin DIN	55.00
65619	QuickScan® QS-6000 laser bar code reader, RS-232 with 8-pin cable	695.00
89162	Cable, scanner QS6000 with 8-pin cable	135.00
S-XL – Single Platform		
73272	S-XL, 1 lb	530.00
73275	S-XL, 2.5 lb	530.00
73277	S-XL, 5 lb	530.00
73273	S-XL, 10 lb	530.00
73276	S-XL,25 lb	530.00
73278	S-XL, 50 lb	530.00
73274	S-XL, 100 lb	530.00
S-XD – Dual Platform		
73262	S-XD, 1/10 lb	730.00
73263	S-XD, 1/25 lb	730.00
73264	S-XD, 1/50 lb	730.00
73266	S-XD, 2.5/25 lb	730.00
73267	S-XD, 2.5/50 lb	730.00

For additional platforms, please refer to Bench or Floor Scales Section.

** Platter one is 4 in x 6 in (101 mm x 152 mm) and platter two is 9 in x 12 in (229 mm x 304 mm) for all capacities

RICE LAKE WEIGHING SYSTEMS

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DIGI® DC-300 Series

Counting Scales



STANDARD FEATURES

- Two line display showing numeric measurement and text messaging
- Bright backlit dot-matrix Liquid Crystal Display (LCD)
- Setpoint capabilities
- 4,000 item memory*
- Three RS-232 ports
- Proprietary Ethernet for software utilities
- Internal resolution of 1/1,000,000
- Remote scale connection
- 99 custom label formats
- Internal direct thermal printer for labels and reports

* 3,500 item memory maximum if all programmable items are utilized

SPECIFICATIONS

INTERNAL RESOLUTION:
1/1,000,000

WEIGHT DISPLAY RESOLUTION:
1/2500, 1/5000, 1/10,000

DISPLAY:
Two-line backlit alphanumeric
Weight: five-digits
Unit Weight: five-digits
Quantity: seven-digits

POWER SOURCE:
115VAC (50/60Hz), 25W

INPUT SENSITIVITY:
0.4-2.0mV/V

LOAD CELL EXCITATION:
12VDC

NUMBER OF CHANNELS:
Two scales (1- internal, 1-4 x 350Ω load cells each)

INTERFACES:
1-IBM keyboard, 3-RS-232, 1-Ethernet

MEMORY:
2MB (5000PLU)*

BUILT-IN PRINTER:
Direct thermal-70mm/sec

PROGRAMMABLE PER ITEM:
ID code (32 digits), unit weight (5 digits), part number (32 digits), part name (32 digits), location data (32 digits), inventory (8 digits), threshold (8 digits), tare weight (5 digits), setpoints, label format, lot number

PRINTING ITEMS:
ID code, lot number, new weight, gross weight, unit weight, tare weight, part name, part number, quantity, in, out, no-add, barcode (code 39, 128), sequence number

SOFTWARE:
CD program to store special codes and database

OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C)

DIMENSIONS:
Overall: 16in L x 15in W x 5.5in H
(410mm L x 378mm W x 140mm D)
Platter:
1lb - 5.5in x 8in
2lb - 7in x 10in
5lb - 50lb - 11in x 15in

ESTIMATED SHIPPING WEIGHT:
38lb (17kg)

WARRANTY:
Two-year limited warranty

DIGI® S-XL/S-XD Platform Series



STANDARD FEATURES

- Stainless steel platter
- Single-point strain gauge load cell
- Adjustable legs
- Leveling bubble
- Maintains 0.02% accuracy through full range

SPECIFICATIONS

OUTPUT IMPEDANCE:
350 ± 5 ohms

INSURANCE RESISTANCE:
500 ohms or more

LOAD CELL TYPE:
K-type DIGI

RATED OUTPUT:
1mV/V ±7/5%

RECOMMENDED EXC. VOLTAGE:
5-12 ±0.5VDC

LOAD CELL CABLE LENGTH:
6ft (1.8m)

DIMENSIONS:
Overall: 14.88 L x 16.14 W x 5.51in H
378 W x 410 L x 140mm H

OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C)

WARRANTY:
Two-year limited warranty

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DIGI® DC-300 Series

Counting Scales

PART#	DESCRIPTION	WEIGHING RESOLUTION	PLATTER	EST. SHIP WEIGHT	PRICE
76067	DC-300, 1 lb	0.0001 lb	5.5 in x 8 in	38 lb (17.2 kg)	$1,995.00
76068	DC-300, 2.5 lb	0.0002 lb	7 in x 10 in	38 lb (17.2 kg)	1,995.00
76069	DC-300, 5 lb	0.0005 lb	9 in x 12 in	38 lb (17.2 kg)	1,995.00
76070	DC-300,10 lb	0.001 lb	11 in x 15 in	38 lb (17.2 kg)	1,995.00
76071	DC-300, 25 lb	0.002 lb	11 in x 15 in	38 lb (17.2 kg)	1,995.00
76072	DC-300, 50 lb	0.005 lb	11 in x 15 in	38 lb (17.2 kg)	1,995.00

OPTIONS/ACCESSORIES

32375	14-pin load cell connector, Amphenol	20.00
35319	14-pin load cell connector with 20 ft of load cell cable	70.00
78860	Ethernet cross cable	35.00
76559	Cable, PC RS-232	52.00
85022	PS2 to AT adaptor for external keyboard	12.00
77157	Additional operating manual	25.00
77158	Additional user manual	25.00
77159	Additional service manual	50.00
83387	CD, software utilities	N/C
78891	Quick reference guide	5.00
76073	Label, 60 mm x 55 mm 830	12.00/roll
76074	Label, 60 mm x 95 mm 500	12.00/roll
76075	Label, 60 mm x 120 mm 380	12.00/roll
76076	Receipt paper	10.00/roll
S-XL – Single Platform		
73272	S-XL, 1 lb	530.00
73275	S-XL, 2.5 lb	530.00
73277	S-XL, 5 lb	530.00
73273	S-XL, 10 lb	530.00
73276	S-XL, 25 lb	530.00
73278	S-XL, 50 lb	530.00
73274	S-XL, 100 lb	530.00

SCANNERS/ACCESSORIES

78843	QuickScan® QS-6000 laser bar code scanner, keyboard wedge/RS-232 (requires PN 43860 or 89162 cable)	595.00
43860	Cable QS6000 Wedge Scanner	55.00
89162	Cable, scanner QS6000, RS-232 with 8 pin DIN	135.00
109598	QD2100 keyboard wedge scanner	258.00

PRINTERS/ACCESSORIES

107403	RL-22DT printer	389.00
65617	Direct Thermal Label, 2.25 in x 4.5 in for RL-22DT (default label size)	14.60/roll
64661	Cable for RL-22DT, RL-42DT, RL-42TT; 8-pin Din to 9-pin D-sub	55.00
32810	Cable for Epson Printers	55.00

For additional platforms, please refer to Bench or Floor Scales Section.

RICE LAKE WEIGHING SYSTEMS

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DIGI® DC-530 Series

High Resolution Counting Scales



STANDARD FEATURES

- Dot matrix three color Liquid Crystal Display (LCD)
- Two modes of operation, standard and TEP
- Internal resolution of 1/1,000,000
- 200 item memory
- Setpoint capabilities: internal buzzer or external relay devices
- Four RS-232 ports: printer, scanner, setpoint or PC
- Built-in real time clock

SPECIFICATIONS

INTERNAL RESOLUTION:
1/1,000,000

DISPLAY RESOLUTION:
1/25,000, 1/50,000, 1/100,000

DISPLAY:
Dot Matrix, Liquid Crystal Display (LCD)
Three color: Green, Yellow and Red
Weight: six-digits
Unit Weight: five-digits
Quantity: seven-digits

POWER SOURCE:
115/240 VAC (50/60 Hz), 7W

INPUT SENSITIVITY:
0.4-2.0 mV/V

LOAD CELL EXCITATION:
12 VDC

OPERATING TEMPERATURE:
-10ºC to +40ºC

OPERATING HUMIDITY:
15% to 85% RH

NUMBER OF CHANNELS:
Two scales (1- internal and optional 1-4 x 350 Ω load cells each)

PRINTER COMPATIBILITY:
RL-22DT
RL-42DT with custom set-up
ESCPOS compatible

INTERFACES:
4-RS-232
Ethernet pending

MEMORY SETPOINT:
200 Items PLU

PROGRAMMABLE PER ITEM:
12 digit numeric part number
Unit Weight
Tare Weight
Setpoint

PRINTING ITEMS:
ID code, net weight, gross weight, unit weight, tare weight, quantity, barcode (code 39)

DIMENSIONS:
Overall: 5 in H x 14 in W x 14.8 in D
128 mm H x 356 mm W x 376 mm D

ESTIMATED SHIPPING WEIGHT:
13 lb, 6 kg

WARRANTY:
One-year limited warranty

PART #	DESCRIPTION	RESOLUTION WEIGHING	PLATTER	EST. SHIP WEIGHT	PRICE
94909	DC-530, 10 lb (5 kg)	0 .0001 lb (0.1 g)	13 in x 9.5 in	13 lb	$1,995.00
94910	DC-530, 20 lb (10 kg)	0.0002 lb (0.2 g)	13 in x 9.5 in	13 lb	1,995.00

OPTIONS/ACCESSORIES

94911	Remote scale option (requires 32375)	225.00
32375	14 pin load cell connector	20.00
35319	14-pin load cell connector with 20 ft of load cell cable	70.00
95145	Manual, DC-530	25.00

S-XL – Single Platform

73278	S-XL Platform, 50 lb	11 in x 16 in	20 lb (9 kg)	530.00
73274	S-XL Platform, 100 lb	11 in x 16 in	20 lb (9 kg)	530.00

SCANNER/ACCESSORIES

65619	QS6000 RS-232 scanner and cable	695.00

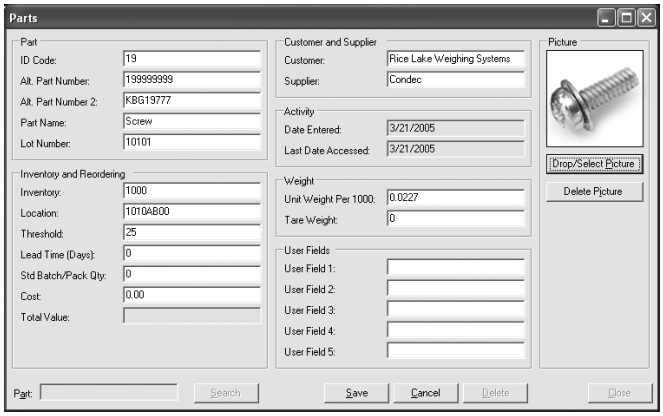
PRINTERS/ACCESSORIES

65617	Label 2.25 x 4.5 in with perf DTL	14.60
64661	Cable for RL-22DT, RL-42DT, RL-42TT; 8-pin Din to 9-pin D-sub	55.00
23113	Epson, TM-U295	614.00
81076	Epson, TM-U220	408.00
32810	8 pin to 25 pin RS-232 cable	55.00
107403	RL-22DT printer, 110/230 VAC, RS-232	398.00

For additional platforms, please refer to Bench or Floor Scales Section.

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Inventory Management Software (IMS)



STANDARD FEATURES

- Single database
- PC-based communications database
- Unlimited number of inventory items
- Monitor positive and negative inventory transactions
- Maintains perpetual balance of inventory
- Fast response time (even with multiple scales attached)
- Includes ID code, alternate part number, alternate part number Two, part name, lot number, inventory on hand, location, threshold, lead time, STD batch/pack quantity, cost, total value, customer, supplier, date entered, last date accessed, unit weight/1000, tare weight, user fields 1-5, picture of part
- Reports include supplier, customer report, long part report, short part report
- Custom report designer
- Files easily transferred to PC-based database applications
- Includes field for bitmap picture or drawing of part
- Can use serial or Ethernet connectivity*
- Includes import, export, backup, and restore capabilities for database

* Requires thin client server or WI-Box Ethernet (or similar product) option for each scale

COMPUTER REQUIREMENTS

OPERATING SYSTEM:
Windows® 98™/NT™/2000™/XP™

COMPATIBILITY:
Any PC that meets minimum system requirements of above operating system

RAM:
128 MB of RAM, 256 MB recommended

HARD DISK SPACE:
110 MB of hard disk space required, 40 MB additional hard disk space required for installation (150 MB total)

VIDEO ADAPTER:
Super VGA or higher resolution (256 color)

HARDWARE:
CD-ROM drive, Microsoft mouse or compatible pointing device
Windows compatible printer installed. Requires dedicated server.

SCALE:
DC-190 or DC-200/300, DC-150

Windows is a registered trademark of Microsoft Corporation

PART#	DESCRIPTION	PRICE
79588	Demo software or download from www.ricelake.com, includes manual on CD	N/C
80837	Inventory Management Software – single and multiple IMS scale, activation number Requirement to activate: - Software on PC - PC machine ID - E-mail address to send activation code	$695.00

OPTIONS/ACCESSORIES

79683	Additional installation manual	10.00
87086	Lantronic Wi Box*	695.00
65383	Ethernet thin server*	395.00
Cables		
85821	8-pin DIN to DB9 female, DC-190 or DC-200/300, RS-232 to PC, 5 ft	55.00
85820	8-pin DIN to DB25 M, DC-190 or DC-200/300 to thin Ethernet server, 5 ft	55.00
88633	DB9 female to DB9 male, DC-190, RS-232 to PC, 5 ft	55.00
78860	Ethernet cross-over cable (direct connection), 5 ft	35.00

*Ethernet connections will require other hardware to complete system not provided by Rice Lake.

RICE LAKE WEIGHING SYSTEMS
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OHAUS® EB Series

Counting Scales



STANDARD FEATURES

- Removable stainless steel weighing pan and durable ABS plastic housing with protective in-use cover
- Front panel leveling indicator and adjustable plastic leveling feet with non-slip rubber base
- Application modes: checkweighing, counting and percent weighing
- Weighs in kg, g, lb or oz units
- Accumulator function for weight and parts count
- 80-hour internal rechargeable battery with power-saving auto-shut off feature

SPECIFICATIONS

WEIGHT DISPLAY RESOLUTION:
1/30,000

DISPLAY:
Liquid Crystal Display (LCD), One-window backlit, 1 in (25.4 mm) high, 6-digit, 7-segment

STABILIZATION TIME:
< 2 seconds

OPERATING TEMPERATURE:
32°F to 104°F (0°C to 40°C)

POWER:
AC adapter 12 VDC/800 mA, internal rechargeable lead acid battery

BATTERY LIFE:
80 hours continuous use
12 hour recharge time

KEYBOARD:
7 keys

CONSTRUCTION:
Stainless steel platform, plastic housing

DIMENSIONS: (W x L x H)
Overall: 12.8 W x 13 L x 4.5 in H
(325 W x 330 L x 114 in H)

WARRANTY:
One-year limited warranty

PART#	DESCRIPTION	WEIGHING RESOLUTION	PLATTER	EST. SHIP WEIGHT	PRICE
96860	EB3, 6 lb (3000 g)	0.0002 (.1 g)	11.8 in x 9 in	9 lb	$435.00
96861	EB6, 15 lb (6000 g)	0.0005 (.2 g)	11.8 in x 9 in	9 lb	435.00
96862	EB15, 30 lb (15,000 g)	.0.001 (.5 g)	11.8 in x 9 in	9 lb	435.00
96863	EB30, 60 lb (30,000 g)	.0.002 (1 g)	11.8 in x 9 in	9 lb	435.00

OPTIONS/ACCESSORIES

112382	110 AC adaptor	38.00

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OHAUS® EC Series

Counting Scales



STANDARD FEATURES

- Removable stainless steel weighing pan and durable ABS plastic housing with protective in-use cover
- Front panel leveling indicator and adjustable plastic leveling feet
- Three-window, backlit LCD for fast display of weight, average piece weight and parts count
- Full counting keypad with numeric keys
- Gram or pound weighing units
- Accumulator function for weight and parts count
- 80-hour internal rechargeable battery with power-saving auto-shut off feature
- 10 x APW memory locations
- Auto-optimization feature recalculates APW constantly for enhanced parts counting accuracy
- Adjustable filtering level and auto-zero tracking for flexible weighing under various industrial conditions

SPECIFICATIONS

INTERNAL RESOLUTION:
1/600,000

WEIGHT DISPLAY RESOLUTION:
1/30,000

DISPLAY:
Liquid Crystal Display (LCD), Three-window backlit, 0.75 in (19 mm) high, 6-digit, 7-segment

SAMPLE WEIGHT:
EC3: 1 g
EC6: 2 g
EC15: 5 g
EC30: 10 g

APW:
EC3: 0.01 g
EC6: 0.02 g
EC15: 0.05 g
EC30: 0.1 g

MEMORY:
10 locations for APW

KEYBOARD:
7 function, 11 numeric x raised tactile membrane switch

STABILIZATION TIME:
< 2 seconds

OPERATING TEMPERATURE:
32°F to 104°F (0°C to 40°C)

POWER:
AC adapter 12 VDC/800 mA, internal rechargeable lead acid battery

BATTERY LIFE:
80 hours continuous use with 12 hour recharge time

CONSTRUCTION:
Stainless steel platform, plastic housing

DIMENSIONS: (W x L x H)
Overall: 12.8 x 13 x 4.5 in (325 x 330 x 114 in)

WARRANTY:
One-year limited warranty

Note: 230 VAC models available by special order

PART#	DESCRIPTION	WEIGHING RESOLUTION	PLATTER	EST. SHIP WEIGHT	PRICE
87377	EC3, 6 lb (3,000 g)	0.0002 (.1 g)	11.8 in x 9 in	9 lb	$488.00
87378	EC6, 15 lb (6,000 g)	0.0005 (.2 g)	11.8 in x 9 in	9 lb	488.00
87379	EC15, 30 lb (15,000 g)	0.001 (.5 g)	11.8 in x 9 in	9 lb	488.00
87380	EC30, 60 lb (30,000 g)	0.002 (1 g)	11.8 in x 9 in	9 lb	488.00

OPTIONS/ACCESSORIES

112382	110 AC adaptor	38.00

RICE LAKE WEIGHING SYSTEMS

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OHAUS® Trooper® Count

Counting Scales



STANDARD FEATURES

- Weighs in kg, g, lb or oz units
- Average piece weight and sample weight optimization software
- Positive or negative sampling modes
- RS-232 output
- 60 part numbers including: average piece weight count, tare weight, Hi/Lo points
- AC or battery platform

SPECIFICATIONS

INTERNAL RESOLUTION:
1/30,000 with auto add
1/100,000 without auto add

WEIGHT DISPLAY RESOLUTION:
1/6000 to 1/7500

DISPLAY:
Liquid Crystal Display (LCD)
7-segment 12 mm H
Weight: five-digit
Data: six-digit
Count: six-digit

POWER SOURCE:
AC adapter or 6 in "C" batteries
Battery life up to 100 hours

INTERFACES:
RS-232 bidirectional interface

OPERATING TEMPERATURE:
41°F to 104°F

MEMORY:
60 part files
-12 digit part number
Average piece weight
Tare weight
Over/under values
Count accumulation

PLATFORM SIZE:
13.5 in x 9 in

DIMENSIONS: (W x L x H)
Overall: 13.5 in x 14.5 in x 4.5 in
(342.9 W x 368.3 L x 114.3 mm H)

SHIPPING WEIGHT:
14 lb (6 kg)

APPROVALS:
CE, NTEP CC 02-009A2

WARRANTY:
Two-year limited warranty

PART#	OHAUS MODEL	DESCRIPTION	WEIGHING RESOLUTION	PLATTER	EST. SHIP WEIGHT	PRICE
84995	TC3RS	6 lb	0.001 lb	13.5 in x 9 in	14 lb	$716.00
84996	TC6RS	15 lb	0.002 lb	13.5 in x 9 in	14 lb	716.00
84997	TC15RS	30 lb	0.005 lb	13.5 in x 9 in	24 lb	813.00
84998	TC30RS	60 lb	0.01 lb	13.5 in x 9 in	24 lb	941.00

OPTIONS/ACCESSORIES

98020	110 AC adaptor	39.00

Note: 230 VAC models available by special order.

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OHAUS® Ranger™ Count

Counting Scales



STANDARD FEATURES

- Weighs in kg, g, lb or oz units
- Average piece weight enhancement software
- Auto-add sample weight software
- User selectable sample size
- RS-232 output
- AC power
- Stainless steel platform/painted cast aluminum housing

SPECIFICATIONS

INTERNAL RESOLUTION:
1/600,000

WEIGHT DISPLAY RESOLUTION:
1/300,000

DISPLAY:
Liquid Crystal Display (LCD)
with 7 digits 0.63in/16mm high

POWER SOURCE:
AC:115 50/60Hz

INTERFACES:
RS-232 bidirectional

PLATFORM SIZE:
6/12lb-9.5in x 8in
24-120lb-14in x 9.5in

OPERATING TEMPERATURE:
14˚F to 104˚F

DIMENSIONS: (W x L x H)
6-12lb:
10.5in x 13.2in x 4in
(26.5cm x 33.5cm x 10cm)
24-120lb:
14.2in x 14.6in x 4.5in
(36cm x 37cm x 11.5cm)

ESTIMATED SHIPPING WEIGHT:
6-12lb models - 14lbs
24-120lb models - 24lbs

APPROVALS:
CE, NTEP CC 01-051A2

WARRANTY:
Five-year limited warranty

Note: 230VAC models available by special order.

PART#	OHAUS MODEL	DESCRIPTION	WEIGHING RESOLUTION	PLATTER	EST. SHIP WEIGHT	PRICE
86763	RC3RS	6lb	0.0005lb	9.4in x 7.8in	14lb	$1,041.00
86764	RC6RS	12lb	0.001lb	9.4in x 7.8in	14lb	1,041.00
86765	RC12LS	24lb	0.002lb	13.8in x 9.4in	24lb	1,168.00
86766	RC30LS	60lb	0.005lb	13.8in x 9.4in	24lb	1,304.00
86767	RC60LS	120lb	0.01lb	13.8in x 9.4in	24lb	1,304.00

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NEW DIGI® DMC-782 Series

Portable Coin Counting Scales



STANDARD FEATURES

- Liquid Crystal Display (LCD) with yellow backlight
- RS-232 output to PC
- 18 preset keys for product ID
- Programmable denominational unit weight and tare weight
- Internal resolution of 1/500,000
- Accumulation
- Toggle display: count and money value
- Total amount calculation utilizing reverse counting

Options

- Rechargeable battery
- Carrying case

SPECIFICATIONS

INTERNAL RESOLUTION:
1/500,000

WEIGHT DISPLAY RESOLUTION:
1/7500 or 1/6000

DISPLAY:
Liquid Crystal Display (LCD) with backlight
Weight: Five-digit
Denomination: Five-digits
Quantity/Amount: Six-digit

POWER SOURCE:
120 AC power supply or optional rechargeable battery

OPTIONAL BATTERY:
Charge time: 12-14 hours
Battery life: 300 hours (no backlight)

NUMBER OF SCALE CHANNEL:
One local scale

MEMORY ITEMS:
18

RS-232:
9 Pin to PC

OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C)

DIMENSIONS:
Overall: 13.2 in W x 13.7 in L x 4.8 in H
(335.7 mm W x 349.7 mm D x 123.5 mm H)

PLATTER SIZE:
12 in x 8.9 in (300 mm x 225 mm)

ESTIMATED SHIPPING WEIGHT:
11 lb (5 kg)

WARRANTY:
Two-year limited warranty

PART #	DESCRIPTION	CAPACITY	EST. SHIP WEIGHT	PRICE
111317	DMC-782	6 lb x 0.001 lb	11 lb (5 kg)	$575.00
111318	DMC-782	15 lb x 0.002 lb	11 lb (5 kg)	575.00
111319	DMC-782	60 lb x 0.01 lb	11 lb (5 kg)	575.00

Consult factory for kg unit models.

OPTIONS/ACCESSORIES

15438	Power Cord	17.75
111781	Manual	25.00
108516	Rechargeable battery	35.00
73296	Carrying case, hard shell with locking latches	160.00

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Digi® DMC-290 Series

Coin Counting Scales



STANDARD FEATURES

- Dual displays for cashier and customer view
- Three large high-contrast LCD displays: weight, denomination and dollar amount
- Dollar amount accumulation or subtraction
- Programmable denomination and unit weight
- One-touch tare entry keyboard
- Reverse sampling and counting capability
- 18 preset keys for additional coins or tokens
- Rugged heavy-duty design, yet lightweight (10lb/4.4kg) for portability
- Battery* saving auto power-off function
- Toggle between coin count and dollar amount
- RS-232 output
- Remote scale connection

* Batteries not included

SPECIFICATIONS

INTERNAL RESOLUTION:
1/1,000,000

WEIGHT DISPLAY RESOLUTION:
1/2500 to 1/10,000

DISPLAY:
Vacuum Florescent Display (VFD)
Weight: Five-digits
Unit Weight: five-digits
Value: Seven-digits

POWER SOURCE:
115VAC, 50/60Hz
(Optional DC rechargeable battery)

INPUT SENSITIVITY:
0.4-4.0mV/V

ZERO ADJUST RANGE:
100% full scale

A/D CONVERSION RATE:
10/second

LOAD CELL EXCITATION:
12VDC

NUMBER OF SCALE CHANNELS:
Up to 3 (2-local channels, 1-remote channel), 4 x 350Ω load cells

MEMORY ITEMS:
190 denomination conversions

LOAD CELL INPUT CONNECTOR:
Amphenol 14-pin (sold separately)

BAR CODE SCANNER CONNECTOR:
8-pin DIN

LAB BALANCE, PC OR BAR CODE LABEL PRINTER CONNECTOR:
8-pin DIN or 9-pin D-sub

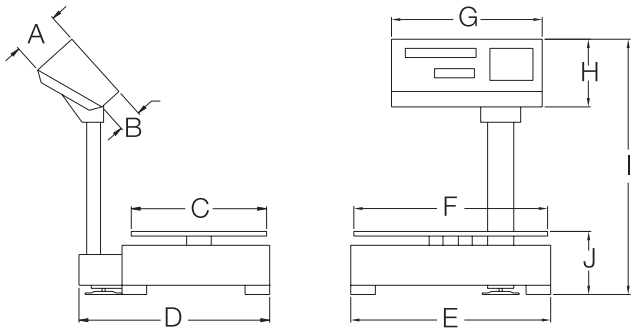
SETPOINT OUTPUT CONNECTOR:
8-pin mini DIN 924V open collector

OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C)

DENOMINATION COUNT:
$99,999.99

ACCUMULATED VALUE:
Totalized to $99,999,999.99

WARRANTY:
Two-year limited warranty



DIMENSIONS			
A	3.8in (97mm)	**F**	15.8in (401mm)
B	1.9in (48mm)	**G**	12.3in (312mm)
C	11in (279mm)	**H**	5.5in (140mm)
D	15.5in (394mm)	**I**	20.8in (528mm)
E	16.3in (414mm)	**J**	5.1in (130mm)

RICE LAKE WEIGHING SYSTEMS

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Digi® DMC-290 Series

Coin Counting Scales

PART#	DESCRIPTION	WEIGHING RESOLUTION	PLATTER	EST. SHIP WEIGHT	PRICE
74329	50 lb	0.005 lb	11 in x 16 in	18 lb (8 kg)	$1,535.00
74330	100 lb	0.01 lb	11 in x 16 in	18 lb (8 kg)	1,535.00

OPTIONS/ACCESSORIES

73176	DMC-290 console (includes power supply)	1,005.00
73182	Column assembly, 20 in (508 mm) high	160.00
73382	AC power supply adapter	45.00
53827	Rechargeable battery–lead acid type	125.00
32375	14-pin load cell connector, Amphenol	20.00
65619	QuickScan® QS-6000 laser bar code scanner with cable	695.00
73359	Additional operating manual	25.00

PRINTERS/ACCESSORIES

73093	Dymo SE 300 bar code printer (requires cable)	495.00
73106	Cable for Dymo SE-300, RJ11 to male 8-pin DIN	55.00
73114	Dymo SE300 Labels for BCP-300, 2.312 in x 4.5 in 250 labels/roll, 3 rolls/case	68.00
81076	TMU220 Dot matrix tape printer	408.00
41279	RS-232 Cable, 9 pin to 25 pin	55.00
32810	RS-232 Cable, 8 pin to 25	55.00

QuickScan is a registered trademark of PSC Inc..

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Specials and Discontinued Products

Availability limited to existing stock, contact Sales for pricing, additional specifications available upon request

DC-688
74023 - 6 lb
74024 - 15 lb
74026 - 60 lb

DC-200
76058 - 1 lb
76061 - 10 lb
76062 - 25 lb
76063 - 50 lb

IQ9500
53810 - Console only

DMC-688
74325 - 15 lb
74326 - 60 lb

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Intercomp CS™ 5000..... **CS-8**

Intercomp TL 6000..... **CS-10**

HANGING SCALES

Salter 235-6S **CS-12**

Salter Electro Samson **CS-12**

Intercomp CS™ 200

Crane Scale

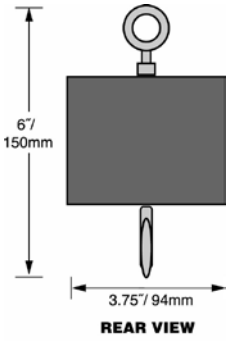


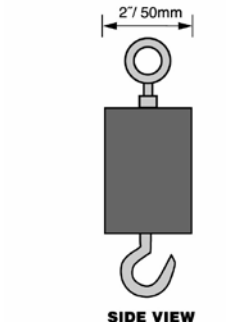
APPROVALS

CE

STANDARD FEATURES

- Lightweight and compact
- Digital calibration
- Auto shut-off
- lb/kg selectable
- Peak hold feature





SPECIFICATIONS

RESOLUTION:
12 bit A/D delivers more than 1 million internal counts

CONTROLS:
Zero, lb/kg, on/off

DISPLAY:
0.5 in (12 mm) 5-digit LCD

POWER:
One 9V disposable alkaline dry cell (or rechargeable nickel-cadmium cell, not included) Battery life is one year of normal use.

DIMENSIONS: (W x D x H)
3.75 in W x 2 in D x 6 in H
(94 mm W x 50 mm D x 150 mm H)

ENCLOSURE:
Weatherproof ABS plastic case

APPROVALS:
CE

AUTO SHUT-OFF:
Low battery, or after 5 minutes without use

ACCURACY:
±0.1% of applied load

TEMPERATURE:
Operating -4°F to 140°F
(-20°C to 60°C)

NOMINAL OVERLOAD:
200% of capacity

MAXIMUM OVERLOAD:
500% of capacity

WARRANTY:
One-year limited warranty

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
CS200 (battery included):			
43734	CS200, 25 lb (12.5 kg) x 0.01 lb (0.01 kg)	2 lb	$595.00
43735	CS200, 50 lb (25 kg) x 0.02 lb (0.01 kg)	2 lb	595.00
43736	CS200, 100 lb (50 kg) x 0.05 lb (0.02 kg)	2 lb	595.00
43737	CS200, 250 lb (125 kg) x 0.1 lb (0.05 kg)	2 lb	595.00
82444	CS200, 500 lb (250 kg) x 0.2 lb (0.1 kg)	2 lb	595.00

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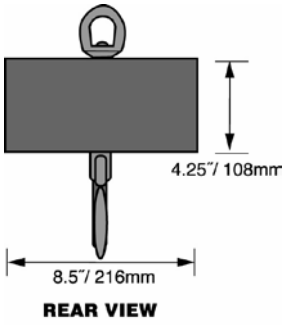
Intercomp CS™ 750

Crane Scale

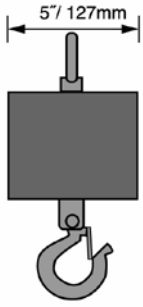


STANDARD FEATURES

- Digital calibration
- Auto shut-off
- 1 in LCD digital readout
- Powered by 6 D cell batteries
- Infrared remote control
- Automatic backlight



REAR VIEW



SIDE VIEW

APPROVALS

SPECIFICATIONS

RESOLUTION:
20 bit A/D delivers more than 1 million internal counts

CONTROLS:
Zero, On, Off, Backlight

DISPLAY:
1 in (25 mm) 5-digit LCD

INDICATORS:
lb/kg

POWER:
(Batteries are not included) six D size disposable alkaline dry cell or rechargeable nickel-cadmium cell Battery life is one year of normal use.

DIMENSIONS:
Control box: 8.5 in L x 5 in W x 4.25 in H (216 mm L x 127 mm W x 108 mm H)
Lifting eye to hook: 9.5 in (241 mm)

ENCLOSURE:
Weatherproof extruded-aluminum case

APPROVALS:
NTEP Class III 3000d,
CC# 97-135A4
CE

EST. SHIP WEIGHT:
8.5 lb (4 kg)

AUTO SHUT-OFF:
Low battery, or after five minutes without use

ACCURACY:
±0.1% of reading

TEMPERATURE:
Operating -4°F to 140°F (-20°C to 60°C)

NOMINAL OVERLOAD:
200% of capacity

MAXIMUM OVERLOAD:
500% of capacity

WARRANTY:
One-year limited warranty

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
CS750 (batteries not included):			
82445	CS750, 25 lb (12.5 kg) x 0.01 lb (0.01 kg)	9 lb	$945.00
82446	CS750, 50 lb (25 kg) x 0.02 lb (0.01 kg)	9 lb	945.00
43643	CS750, 100 lb (50 kg) x 0.05 lb (0.02 kg)	9 lb	945.00
43644*	CS750, 300 lb (150 kg) x 0.1 lb (0.05 kg)	9 lb	945.00
43645*	CS750, 500 lb (250 kg) x 0.2 lb (0.1 kg)	9 lb	945.00
43646*	CS750, 1,000 lb (500 kg) x 0.5 lb (0.2 kg)	9 lb	945.00

OPTIONS/ACCESSORIES

43939	RS-232 serial output	195.00
43941	120/220 V external charger (batteries not included) for qty 3x3 D-Nicad/NiMH	245.00
97446	Battery pack, qty 1x3 D-size-Nicad (spare)	90.00
97447	Battery pack, qty 2x3 D-size-Nicad	180.00

*NTEP Certified

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Intercomp CS™ 1500

Crane Scale



STANDARD FEATURES

- Digital calibration
- Auto shut-off
- NEMA 4 cast aluminum case
- 0.8in LED digital readout
- Recessed push-button switch
- Powered by eight D cell batteries
- Infrared remote control
- NTEP on all capacities

APPROVALS

SPECIFICATIONS

RESOLUTION:
20 bit A/D delivers more than 1 million internal counts

CONTROLS:
Zero, lb/kg, On, Off, Tare, Print, Mode and Set

DISPLAY:
0.8in (20mm) 5 1/2in LED

INDICATORS:
lb/kg, Gross, Net, Total, and Peak Hold

POWER:
(Batteries are not included) eight D size disposable alkaline dry cells or rechargeable nickel-cadmium cells. Battery life up to 100 hours continuous use.

ENCLOSURE:
NEMA 4 cast aluminum case

HOOK OR EYE:
Crosby-Laughlin or equivalent

APPROVALS:
NTEP Certified per H-44, Class III, 3000d; Class IIIL, 5000d, CC# 97-135A4 CE

AUTO SHUT-OFF:
Low battery, or after five minutes without use

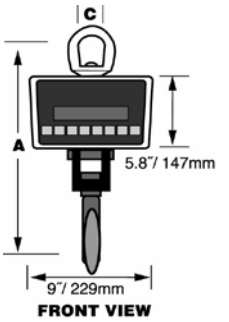
ACCURACY:
±0.1% of reading

TEMPERATURE:
Operating -4°F to 140°F (-20°C to 60°C)

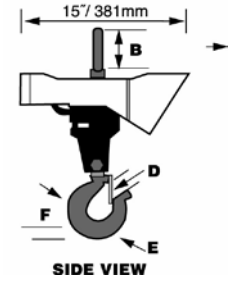
NOMINAL OVERLOAD:
200% of capacity

MAXIMUM OVERLOAD:
500% of capacity

WARRANTY:
One-year limited warranty



FRONT VIEW



SIDE VIEW

DIMENSIONS									
Part#	**Capacity**	**Graduation**	**A**	**B**	**C**	**D**	**E**	**F**	**Weight**
82447	300lb (150kg)	0.1lb (0.05kg)	10.5in (267mm)	2.38in (61mm)	2in (51mm)	0.97in (25mm)	1.38in (35mm)	0.84in (22mm)	22lb (10kg)
82448	500lb (250kg)	0.2lb (0.1kg)	10.5in (267mm)	2.38in (61mm)	2in (51mm)	0.97in (25mm)	1.38in (35mm)	0.84in (22mm)	22lb (10kg)
43647	1000lb (500kg)	0.5lb (0.2kg)	10.5in (267mm)	2.38in (61mm)	2in (51mm)	0.97in (25mm)	1.38in (35mm)	0.84in (22mm)	22lb (10kg)
43648	2,000lb (1,000kg)	1lb (0.5kg)	11.5in (292mm)	2.38in (61mm)	2in (51mm)	0.97in (25mm)	1.38in (35mm)	0.84in (22mm)	22lb (10kg)
43649	5000lb (2,500kg)	2lb (1kg)	19in (482mm)	2.88in (73mm)	2.25in (57mm)	1.69in (43kg)	2.5in (64mm)	1.82in (46mm)	38lb (17kg)
43650	10,000lb (5,000kg)	5lb (2kg)	19in (482mm)	2.88in (73mm)	2.25in (57mm)	1.69in (43mm)	2.5in (64mm)	1.82in (46mm)	38lb (17kg)
43651	20,000lb (10,000kg)	10lb (5kg)	23in (584mm)	3.5in (90kg)	3.12in (80mm)	2.41in (62mm)	3.25in (83mm)	2.6in (66mm)	45lb (20kg)

RICE LAKE WEIGHING SYSTEMS

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Intercomp CS™ 1500

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
CS1500 (batteries not included):			
82447*	CS1500, 300 lb (150 kg) x 0.1 lb (0.05 kg)	22 lb	$1,595.00
82448*	CS1500, 500 lb (250 kg) x 0.2 lb (0.1 kg)	22 lb	1,595.00
43647*	CS1500, 1000 lb (500 kg) x 0.5 lb (0.2 kg)	22 lb	1,795.00
43648*	CS1500, 2000 lb (1000 kg) x 1 lb (0.5 kg)	22 lb	1,795.00
43649*	CS1500, 5000 lb (2500 kg) x 2 lb (1 kg)	38 lb	1,995.00
43650*	CS1500, 10,000 lb (5000 kg) x 5 lb (2 kg)	38 lb	1,995.00
43651*	CS1500, 20,000 lb (10000 kg) x 10 lb (5 kg)	45 lb	2,895.00

OPTIONS/ACCESSORIES

110621	RS-232 serial output	195.00
43940	120/220 V external charger (batteries not included) for qty 2x4 D-Nicad/NiMH	245.00
97443	Battery pack, qty 1x4 D-size-Nicad (spare)	120.00
97445	Battery pack, qty 2x4 D-size-Nicad	240.00

* NTEP Certified

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Intercomp CS™ 3000

Crane Scale



APPROVALS

STANDARD FEATURES

- Digital calibration
- Auto shut-off
- NEMA 4 cast aluminum case
- 1 in LCD digital readout
- Display automatically adjusts to lighting conditions
- Recessed push-button switch
- Powered by eight D cell batteries
- Infrared remote control

SPECIFICATIONS

RESOLUTION:
20 bit A/D delivers more than 1 million internal counts

GENERAL:
Zero, lb/kg, Tare Set/Display, Tare Clear, On, Off

DISPLAY:
1 in (25 mm) 5-digit liquid crystal (LCD)

INDICATORS:
lb/kg and Net

POWER:
(Batteries are not included) eight D size disposable alkaline dry cell or rechargeable nickel-cadmium cell. Battery life up to 400 hours continuous use.

TARE:
Up to 100% of capacity

ENCLOSURE:
NEMA 4 cast aluminum case

HOOK OR EYE:
Crosby-Laughlin or equivalent

APPROVALS:
NTEP Certified per H-44, Class III, 3000d; Class IIIL, 5000d, CC# 97-135A4
CE

AUTO SHUT-OFF:
Low battery, or after five minutes without use

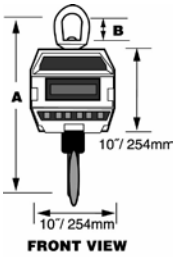
ACCURACY:
±0.1% of reading

TEMPERATURE:
Operating -4°F to 140°F (-20°C to 60°C)

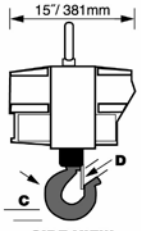
NOMINAL OVERLOAD:
200% of capacity

MAXIMUM OVERLOAD:
500% of capacity

WARRANTY:
One-year limited warranty



FRONT VIEW



SIDE VIEW

DIMENSIONS

Part#	Capacity	Graduation	A	B	C	D	*	Hook	Eye Nut or Shackle
82449	500 lb (250 kg)	0.2 lb (0.1 kg)	19.3 in (490 mm)	3.06 in (77.7 mm)	1.44 in (35.1 mm)	1.41 in (35.8 mm)	*	C/L 3 ton S1 Swivel	C/L #7 Eye Nut
82450	2000 lb (1000 kg)	1.0 lb (0.5 kg)	19.3 in (490 mm)	3.06 in (77.7 mm)	1.44 in (35.1 mm)	1.41 in (35.8 mm)	*	C/L 3 ton S1 Swivel	C/L #7 Eye Nut
43652	5000 lb (2500 kg)	1.0 lb (0.5 kg)	22 in (558 mm)	3.06 in (77.7 mm)	1.82 in | (44.5 mm)	1.69 in (42.9 mm)	*	C/L 5 ton S1 Swivel	C/L #7 Eye Nut
43653	10000 lb (5000 kg)	2 lb (1 kg)	22 in (558 mm)	3.06 in (77.7 mm)	1.82 in (44.5 mm)	1.69 in (42.9 mm)	*	C/L 5 ton S1 Swivel	C/L #7 Eye Nut
43654	20000 lb (10000 kg)	5 lb (2 kg)	37.15 in (944 mm)	6.25 in (159 mm)	2.6 in (65.8 mm)	2.41 in (61.2 mm)	*	C/L 10 ton S1 Swivel	C/L #11 Eye Nut
43655	30000 lb (15000 kg)	10 lb (5 kg)	39.15 in (994 mm)	6.25 in (159 mm)	3 in (76.2 mm)	3.19 in (81.3 mm)	*	C/L 15 ton S1 Swivel	C/L #11 Eye Nut
43656	†50000 lb (†25000 kg)	10 lb (5 kg)	43.5 in (1105 mm)	6 in (152 mm)	3.6 in (93 mm)	3.62 in (92 mm)	17 in (432 mm)	C/L 25 ton S1 Swivel	C/L 30 ton #2140
43657	†70000 lb (†35000 kg)	20 lb (10 kg)	47.56 in (1208 mm)	6 in (152 mm)	4.56 in (116 mm)	3.75 in (92.3 mm)	17 in (432 mm)	C/L 35 ton S1 Swivel	C/L 40 ton #2140
43658	†100000 lb (†50000 kg)	20 lb (10 kg)	53 in (1347 mm)	7.75 in (197 mm)	5.06 in (129 mm)	4.25 in (108 mm)	18 in (457 mm)	C/L 45 ton S1 Swivel	C/L 55 ton #2140

* Dimensions are top to bottom shackle eye to eye on 25-50 ton/12.5-25 metric ton capacity models

†Unit comes standard with top shackle & bottom swivel hook. Capacities to 300 tons available upon request.

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Intercomp CS™ 3000

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
CS3000 (batteries not included):			
82449*	CS3000, 500 lb (250 kg) x 1.0 lb (0.5 kg)	50 lb	$3,895.00
82450*	CS3000, 2,000 lb (1,000 kg) x 1.0 lb (0.5 kg)	52 lb	3,895.00
43652*	CS3000, 5,000 lb (2,500 kg) x 1.0 lb (0.5 kg)	60 lb	3,895.00
43653*	CS3000, 10,000 lb (5,000 kg) x 2 lb (1 kg)	60 lb	4,195.00
43654*	CS3000, 20,000 lb (10,000 kg) x 5 lb (2 kg)	100 lb	5,495.00
43655*	CS3000, 30,000 lb (15,000 kg) x 10 lb (5 kg)	125 lb	6,195.00
43656*	CS3000, 50,000 lb (25,000 kg) x 10 lb (5 kg)	225 lb	9,395.00
43657*	CS3000, 70,000 lb (35,000 kg) x 20 lb (10 kg)	253 lb	11,295.00
43658	CS3000, 100,000 lb (50,000 kg) x 20 lb (10 kg)	397 lb	16,995.00

OPTIONS/ACCESSORIES

N/A	Anti-heat shield oversized hook and custom swivel Foundry Package	Consult Factory
43940	120/220 V external charger (batteries not included) for qty 2x4 D-Nicad/NiMH	245.00
97443	Battery pack, qty 1x4 D-size-Nicad (spare)	120.00
97445	Battery pack, qty 2x4 D-size-Nicad	240.00
43944	Anti-magnetic shield (for high magnetic fields)	195.00

Note: Part numbers 43943 and 43944 must be installed at time of order to get list price. To add options at a later time, please contact RLWS for additional pricing and lead time.

* NTEP Certified

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Intercomp CS™ 5000

Crane Scale





Control Box

STANDARD FEATURES

- Wireless remote telemetry
- Communication distance 450 feet
- Optional multiple wireless crane scale units to one indicator unit
- Crosby S-1 bearing swivel hook

APPROVALS

SPECIFICATIONS

DISPLAY:
0.8 in/20 mm high – 5 1/2 digit light emitting diode (LED)

RESOLUTION:
20 bit A/D delivers more than 1 million internal counts

AUTO SHUT-OFF:
Low battery, or after five minutes without use

TARE:
Up to 100% of capacity

OUTPUT:
RS-232/20 mA

INDICATOR UNIT:
14 Volt AC or DC, 110/220 VAC with power pack (included)

CRANE UNIT:
Eight D size disposable alkaline dry cell or re-chargeable nicad cell (NOT INCLUDED)

APPROVALS:
NTEP Certified Class III 3000d, Class IIIL 5000d, COC 97-135A4,
CE

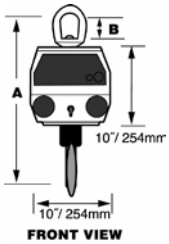
ACCURACY:
+/-0.1% of reading

TEMPERATURE:
Operating -4˚F to 140˚F (-20˚C to 60˚C)

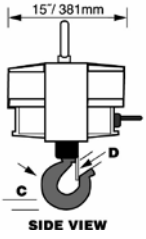
NOMINAL OVERLOAD:
200% of capacity

MAXIMUM OVERLOAD:
500% of capacity

WARRANTY:
One-year limited warranty



FRONT VIEW



SIDE VIEW

DIMENSIONS

Part#	Capacity	Graduation	A	B	C	D	*	Hook	Eye Nut or Shackle
82480	500 lb (250 kg)	0.2 lb (0.1 kg)	19.3 in (490 mm)	3.06 in (77.7 mm)	1.44 in (35.1 mm)	1.41 in (35.8 mm)	*	C/L 3 ton S1 Swivel	C/L #7 Eye Nut
82481	2000 lb (1000 kg)	1.0 lb (0.5 kg)	19.3 in (490 mm)	3.06 in (77.7 mm)	1.44 in (35.1 mm)	1.41 in (35.8 mm)	*	C/L 3 ton S1 Swivel	C/L #7 Eye Nut
82482	5000 lb (2500 kg)	1.0 lb (0.5 kg)	22 in (558 mm)	3.06 in (77.7 mm)	1.82 in | (44.5 mm)	1.69 in (42.9 mm)	*	C/L 5 ton S1 Swivel	C/L #7 Eye Nut
82483	10,000 lb (5000 kg)	2 lb (1 kg)	22 in (558 mm)	3.06 in (77.7 mm)	1.82 in (44.5 mm)	1.69 in (42.9 mm)	*	C/L 5 ton S1 Swivel	C/L #7 Eye Nut
82484	20,000 lb (10,000 kg)	5 lb (2 kg)	37.15 in (944 mm)	6.25 in (159 mm)	2.6 in (65.8 mm)	2.41 in (61.2 mm)	*	C/L 10 ton S1 Swivel	C/L #11 Eye Nut
82485	30,000 lb (15,000 kg)	10 lb (5 kg)	39.15 in (994 mm)	6.25 in (159 mm)	3 in (76.2 mm)	3.19 in (81.3 mm)	*	C/L 15 ton S1 Swivel	C/L #11 Eye Nut
82486	†50,000 lb (†25,000 kg)	10 lb (5 kg)	43.5 in (1105 mm)	6 in (152 mm)	3.6 in (93 mm)	3.62 in (92 mm)	17 in (432 mm)	C/L 25 ton S1 Swivel	C/L 30 ton #2140
82487	†70,000 lb (†35,000 kg)	20 lb (10 kg)	47.56 in (1208 mm)	6 in (152 mm)	4.56 in (116 mm)	3.75 in (92.3 mm)	17 in (432 mm)	C/L 35 ton S1 Swivel	C/L 40 ton #2140
82488	†100,000 lb (†50,000 kg)	20 lb (10 kg)	53 in (1347 mm)	7.75 in (197 mm)	5.06 in (129 mm)	4.25 in (108 mm)	18 in (457 mm)	C/L 45 ton S1 Swivel	C/L 55 ton #2140

* Dimensions are top to bottom shackle eye to eye on 25-50 ton/12.5-25 metric ton capacity models

†Unit comes standard with top shackle & bottom swivel hook. Capacities to 300 tons available upon request.

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Intercomp CS™ 5000

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
CS5000 (batteries not included):			
82480*	500 x 0.2 lb (250 x 0.1 kg)	50 lb (23 kg)	$6,395.00
82481*	2,000 x 1 lb (1,000 x 0.5 kg)	52 lb (24 kg)	6,395.00
82482*	5,000 x 1 lb (2,500 x 0.5 kg)	60 lb (27 kg)	6,395.00
82483*	1,0000 x 2 lb (5,000 x 1 kg)	60 lb (27 kg)	6,795.00
82484*	20,000 x 5 lb (10,000 x 2 kg)	100 lb (45.5 kg)	8,095.00
82485*	30,000 x 10 lb (15,000 x 5 kg)	125 lb (57 kg)	8,795.00
82486*	50,000 x 10 lb (25,000 x 5 kg)	255 lb (102 kg)	11,995.00
82487*	70,000 x 20 lb (35,000 x 10 kg)	253 lb (115 kg)	13,895.00
82488*	100,000 x 20 lb (50,000 x 10 kg)	397 lb (180 kg)	19,595.00

OPTIONS/ACCESSORIES

N/A	Anti-heat shield oversized hook and custom swivel Foundry Package	Consult Factory
43940	120/220 V external charger (batteries not included) for qty 2x4 D-Nicad/NiMH	245.00
97443	Battery pack, qty 1x4 D-size-Nicad (spare)	120.00
97445	Battery pack, qty 2x4 D-size-Nicad	240.00
43944	Anti-magnetic shield (CS3000)	195.00

*NTEP Certified

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Intercomp TL 6000

Crane Scale



STANDARD FEATURES

- Aluminum or stainless steel construction
- Peak hold feature
- Self contained display
- Optional wireless or hardwire readouts

APPROVALS

CE

SPECIFICATIONS

CONSTRUCTION:
Aluminum construction for 10,000 lb and below capacities
Stainless steel construction above 10,000 lb capacities

ACCURACY:
+/- 0.1% of applied load or +/-1 graduation; whichever is greater
+/- 0.2% or +/-2 graduations for 25,000 and higher

DISPLAY:
Five digit, 1.2 in (30 mm) high LCD

CONTROL KEYS:
On/Off, Zero (100%), Tare (100%), Peak Hold and Mode

ANNUNCIATOR:
Low Battery, Peak Hold, Set Points 1 & 2, lb, kg, tons, metric tons and dekaNewtons

POWER:
Two (9 V) batteries (batteries included)

OPERATING TIME:
Up to 300 hours of continuous use. Wireless remote control models have reduced operating time of 50 hours.

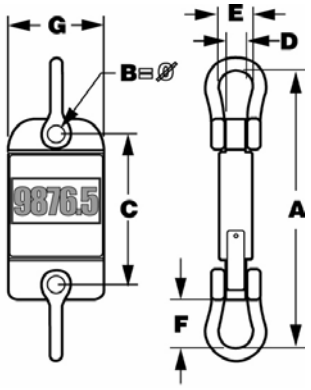
OPERATING TEMPERATURE:
-4°F to 140°F (-20°C to 60°C)

ENCLOSURE:
NEMA 4X/IP 65

OVERLOAD:
200% safe, 500% ultimate

CALIBRATION:
Digital keypad, multi-point

OUTPUT:
RS-232 and RS-485



DIMENSIONS										
Part#	**Capacity**	**Resolution**	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**Shackle Type/Capacity**
82490	500 lb (250 kg)	0.5 lb (0.2 kg)	13 in (304 mm)	0.81 in (21 mm)	7.42 in (178 mm)	1 in (25 mm)	1.69 in (43 mm)	2 in (51 mm)	4.75 in (121 mm)	G-2130-3 1/4 T
82491	1000 lb (500 kg)	1 lb (0.5 kg)	13 in (304 mm)	0.81 in (21 mm)	7.42 in (178 mm)	1 in (25 mm)	1.69 in (43 mm)	2 in (51 mm)	4.75 in (121 mm)	G-2130-3 1/4 T
82492	2,000 lb (1,000 kg)	2.0 lb (1 kg)	13 in (304 mm)	0.81 in (21 mm)	7.42 in (178 mm)	1 in (25 mm)	1.69 in (43 mm)	2 in (51 mm)	4.75 in (121 mm)	G-2130-3 1/4 T
82493	5,000 lb (2,500 kg)	5 lb (2 kg)	13 in (304 mm)	0.81 in (21 mm)	7.42 in (178 mm)	1 in (25 mm)	1.69 in (43 mm)	2 in (51 mm)	4.75 in (121 mm)	G-2130-3 1/4 T
82494	10,000 lb (5,000 kg)	10 lb (5 kg)	15.22 in (386 mm)	1.06 in (27 mm)	7.6 in (193 mm)	1.4 in (36 mm)	2.28 in (58 mm)	2.77 in (56 mm)	5 in (127 mm)	G-2130-6 1/2 T
82495	25,000 lb (12,500 kg)	20 lb (10 kg)	20.9 in (530 mm)	1.69 in (43 mm)	8.7 in (212 mm)	2.13 in (54 mm)	3.63 in (92 mm)	4.3 in (109 mm)	5 in (127 mm)	G-2130-13 1/2 T
82496	50,000 lb (25,000 kg)	50 lb (20 kg)	24.7 in (627 mm)	2.06 in (52 mm)	9.2 in (234 mm)	2.44 in (62 mm)	5 in (127 mm)	5.93 in (151 mm)	5 in (127 mm)	G-2130-25 T
82497	100,000 lb (50,000 kg)	100 lb (50 kg)	29.49 in (749 mm)	2.81 in (72 mm)	10.69 in (271 mm)	3.88 in (99 mm)	7.25 in (184 mm)	9.4 in (240 mm)	5 in (127 mm)	G-2130-55 T
82498	160,000 lb (80,000 kg)	200 lb (100 kg)	32.6 in (828 mm)	2.81 in (72 mm)	10.69 in (271 mm)	3.88 in (99 mm)	7.88 in (200 mm)	7.8 in (198 mm)	5.4 in (138 mm)	G-2140-85 T
82499	220,000 lb (110,000 kg)	200 lb (100 kg)	38.4 lb (975 mm)	3.5 in (89 mm)	12.4 in (315 mm)	4.45 in (113 mm)	7.88 in (200 mm)	8.5 in (215 mm)	5.9 in 150 mm)	G-2140-120T
82500	350,000 lb (175,000 kg)	500 lb (200 kg)	44 in (1118 mm)	4.5 in (114 mm)	15 in (381 mm)	5.25 in (133 mm)	10 in (254 mm)	8.88 in (225 mm)	7 in (178 mm)	G-2140-175 T
82501	400,000 lb (200,000 kg)	500 lb (200 kg)	47.8 in (1118 mm)	5 in (127 mm)	16.57 in (421 mm)	7 in (178 mm)	11 in (279 mm)	9.37 in (237 mm)	7 in (197 mm)	G-2140-200 T
82502	500,000 lb (250,000 kg)	500 lb (200 kg)	62.55 in (1588 mm)	5.25 in (133 mm)	18.07 in (459 mm)	8.75 in (222 mm)	13 in (330 mm)	17.88 in (454 mm)	8.45 in (215 mm)	G-2140-250 T

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Intercomp TL 6000

PART #	CAPACITY	EST. SHIP WEIGHT	PRICE
82490	500 x 0.5 lb (250 x 0.2 kg)	3 lb (1.4 kg)	$1,250.00
97448	500 x 0.5 lb (250 x 0.2 kg) 900 MHz Wireless	3 lb (1.4 kg)	1,750.00
97449	500 x 0.5 lb (250 x 0.2 kg) 868 MHz Wireless (European)	3 lb (1.4 kg)	1,750.00
82491	1,000 x 1 lb (500 x 0.5 kg)	3 lb (1.4 kg)	1,250.00
97450	1,000 x 1 lb (500 x 0.5 kg) 900 MHz Wireless	3 lb (1.4 kg)	1,750.00
97451	1,000 x 1 lb (500 x 0.5 kg) 868 MHz Wireless (European)	3 lb (1.4 kg)	1,750.00
82492	2,000 x 2 lb (1,000 x 1 kg)	3 lb (1.4 kg)	1,250.00
97452	2,000 x 2 lb (1,000 x 1 kg) 900 MHz Wireless	3 lb (1.4 kg)	1,750.00
97453	2,000 x 2 lb (1,000 x 1 kg) 868 MHz Wireless (European)	3 lb (1.4 kg)	1,750.00
82493	5,000 x 5 lb (2,500 x 2 kg)	3 lb (1.4 kg)	1,400.00
97454	5,000 x 5 lb (2,500 x 2 kg) 900 MHz Wireless	30 lb (13.6 kg)	1,900.00
97455	5,000 x 5 lb (2,500 x 2 kg) 868 MHz Wireless (European)	30 lb (13.6 kg)	1,900.00
82494	10,000 x 10 lb (5,000 x 5 kg)	6 lb (2.7 kg)	1,625.00
97456	10,000 x 10 lb (5,000 x 5 kg) 900 MHz Wireless	30 lb (13.6 kg)	2,125.00
97457	10,000 x 10 lb (5000 x 5 kg) 868 MHz Wireless (European)	30 lb (13.6 kg)	2,125.00
82495	25,000 x 20 lb (12,500 x 10 kg)	9 lb (4.1 kg)	2,020.00
97458	25,000 x 20 lb (12,500 x 10 kg) 900 MHz Wireless	30 lb (13.6 kg)	2,520.00
97459	25,000 x 20 lb (12,500 x 10 kg) 868 MHz Wireless (European)	30 lb (13.6 kg)	2,520.00
82496	50,000 x 50 lb (25,000 x 20 kg)	30 lb (13.6 kg)	2,235.00
97460	50,000 x 50 lb (25,000 x 20 kg) 900 MHz Wireless	30 lb (13.6 kg)	2,735.00
97461	50,000 x 50 lb (25,000 x 20 kg) 868 MHz Wireless (European)	30 lb (13.6 kg)	2,735.00
82497	100,000 x 100 lb (50,000 x 50 kg)	65 lb (29.5 kg)	3,860.00
82498	160,000 x 200 lb (80,000 x 100 kg)	65 lb (29.5 kg)	7,495.00
82499	220,000 x 200 lb (110,000 x 100 kg)	100 lb (45.5 kg)	8,995.00
82500	350,000 x 500 lb (175,000 x 200 kg)	175 lb (79.5 kg)	10,995.00
82501	400,000 x 500 lb (20,000 x 200 kg)	250 lb (115 kg)	12,995.00
82502	500,000 x 500 lb (250,000 x 200 kg)	300 lb (136.4 kg)	15,995.00

NOTE: Shackles are NOT included but batteries are.

OPTIONS/ACCESSORIES

83449	500-5,000 lb (3 1/4 Ton) Shackle (Pair G-2130)	3 lb (1.6 kg)	99.00
83450	10,000 lb (6 1/2 Ton) Shackle (Pair G-2130)	8 lb (3.6 kg)	195.00
83451	25,000 lb (13 1/2 Ton) Shackle (Pair G-2130)	42 lb (19 kg)	605.00
83452	50,000 lb (25 Ton) Shackle (Pair G-2130)	68 lb (31 kg)	895.00
83453	100,000 lb (55 Ton) Shackle (Pair G-2130)	140 lb (47 kg)	2,925.00
83454	160,000 lb (85 Ton) Shackle (Pair G-2140)	192 lb (87 kg)	3,695.00
83455	220,000 lb (120 Ton) Shackle (Pair G-2140)	356 lb (162 kg)	4,459.00
83456	350,000 lb (175 Ton) Shackle (Pair G-2140)	676 lb (302 kg)	10,840.00
83457	400,000 lb (200 Ton) Shackle (Pair G-2140)	900 lb (409 kg)	14,563.00
83458	500,000 lb (250 Ton) Shackle (Pair G-2140)	1,200 lb (545 kg)	17,984.00
83459*	Single display remote control (hardwire) 25 ft. cable (NOTE: tension link less display)	6 lb (2.7 kg)	695.00
83460*	Tandem display remote control (hardwire) 25 ft. cable (NOTE: tension link and remote both have a display)	6 lb (2.7 kg)	995.00
83461**	Tandem display remote control (wireless - US version) (NOTE: tension link and remote both have a display)	4 lb (1.8 kg)	995.00

* Comparable with all tension links that are not noted as wireless behind them in the description

** Comparable with all tension links that are noted as wireless behind them in the descriptions.

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Salter Model 235-6S

Hanging Scale



STANDARD FEATURES

- Shatterproof ABS case
- Versatile
- Lightweight
- Maintenance free
- Corrosion resistant
- High-strength stainless steel fittings
- Thumbwheel zero adjustment (approx. ± 10%)
- Top and bottom hook supplied
- Length with no hooks: 9.5 in
- Length with hooks: 14.5 in
- Pounds inner circle/Kilograms on outer circle

PART #	MODEL	CAPACITY	EST. SHIP WEIGHT	PRICE
43712	Model 235-6S	11 lb x 1 oz/5 kg x 20 g	4 lb	$95.00
43713	Model 235-6S	22 lb x 2 oz/10 kg x 50 g	4 lb	95.00
43714	Model 235-6S	55 lb x 4 oz/25 kg x 100 g	4 lb	95.00
43715	Model 235-6S	110 lb x 8 oz/50 kg x 200 g	4 lb	95.00
43716	Model 235-6S	220 lb x 1 lb/100 kg x 500 g	4 lb	95.00

Salter Electro Samson

Hanging Scale



STANDARD FEATURES

- Re-zero during weighing to create a tare weight, this allows weighing of container contents
- Automatic shut-off after two minutes inactivity
- “HOLD” key feature
- Units of measure: lb-oz, kg, decimal lb
- Lifting handle
- Calibration through front panel
- Battery-operated; 9V alkaline battery required
- Four digit Liquid Crystal Display (LCD), accurate to 0.5% of full range
- Dimensions: 13.4 in x 3.7 in x 2.2 in (340 mm x 95 mm x 55 mm)

PART #	MODEL	CAPACITY	EST. SHIP WEIGHT	PRICE
43730	Electro Samson	22 lb x 0.02 lb/10 kg x 0.01 kg/22 lb x .25 oz	3 lb	$95.00
43731	Electro Samson	55 lb x 0.05 lb/25 kg x 0.02 kg/55 lb x .50 oz	3 lb	95.00
75593	Electro Samson	100 lb x 0.1 lb/45 kg x 0.5 kg/100 lb x 2 oz	3 lb	125.00

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CubeLogic™ 250

Dimensioning Systems



STANDARD FEATURES

- Printer port, RS-232
- Hand scanner port, RS-232
- USB computer port

Optional

- SizeIt software
- CubeLogic controller
- CubeLogic customer display
- Ethernet LAN

SPECIFICATIONS

PHYSICAL DIMENSIONS:
Length: 25.5 in (63.5 cm)
Width: 30 in (76 cm)
Height: 45.5 in (115.6 cm)
Weight: 70 lb (32 kg)

MEASUREMENT RANGE:
Length: 23.8 in (60 cm)
Width: 25.8 in (65.5 cm)
Height: 37 in (94 cm)
Measurement Increment:
0.2 in (0.5 cm) / 2.4 in (6.0cm)
Weight Resolution:
0.1 lb (0.05 kg)
Weight Capacity:
70 lb (30 kg)

HUMIDITY:
0-90%

OPERATING TEMPERATURE:
14°-104°F (-10°-40°C)

PART#	DESCRIPTION	PRICE
112973.....	CubeLogic 250 kit	$11,449.00

CubeLogic™ 265

Dimensioning Systems



STANDARD FEATURES

- Printer port, RS-232
- Hand scanner port, RS-232
- USB computer port

Optional

- SizeIt software
- CubeLogic controller
- CubeLogic customer display
- Ethernet LAN

SPECIFICATIONS

PHYSICAL DIMENSIONS:
Length: 25.5 in (63.5 cm)
Width: 30 in (76 cm)
Height: 42 in (106.6 cm)
Weight: 40 lb (18 kg)

MEASUREMENT RANGE:
Length: 3 in (8 cm)
Width: 2.4 in (6 cm)
Height: 2.4 in (6 cm)
Measurement Increment:
0.2 in (0.5 cm) / 2.4 in (6.0cm)
Weight Capacity:
155 lbs (70 kg)
Weight Resolution:
0.1 lb (0.05 kg)

HUMIDITY:
0-90%

OPERATING TEMPERATURE:
14°-104°F (-10°-40°C)

PART#	DESCRIPTION	PRICE
112974.....	CubeLogic 265 kit	$10,745.00

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CubeLogic™ 480

Conveyor Deck



STANDARD FEATURES

- Printer port, RS-232
- Hand scanner port, RS-232
- USB computer port

Optional

- SizeIt software
- CubeLogic controller
- CubeLogic customer display
- Ethernet LAN

SPECIFICATIONS

PHYSICAL DIMENSIONS:
Length: 50 in (127 cm)
Width: 30-36 in (76-91 cm)
Height: 72 in (183 cm)
Weight: 300 lb (135 kg)

MEASUREMENT RANGE:
Length: 48 in (122 cm)
Width: 30 in (76.2 cm)
Height: 37 in (94 cm)
Measurement Increment:
0.2 in (0.5 cm) / 2.4 in (6.0cm)
Weight Capacity:
300 lbs (135 kg)
Weight Resolution:
0.1 lb (0.05 kg)

HUMIDITY:
0-90%

OPERATING TEMPERATURE:
14°-104°F (-10°-40°C)

PART#	DESCRIPTION	PRICE
112975.....	CubeLogic 480 kit	$20,595.00

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Notes

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RoughDeck® Rough-n-Ready System Floor Scale / Indicator Package



(Shown with optional floor stand for indicator. Setup and calibration are done at Rice Lake Weighing Systems. Package includes 4ft x 4ft - 5,000lb or 10,000lb mild steel RoughDeck only.)

STANDARD FEATURES

- Heavy-duty industrial design
- Structural steel channel frame
- Four NTEP Certified alloy steel, shear beam load cells
- 20ft SURVIVOR® EL147HE hostile environment load cell cable with quick disconnect
- TuffSeal® JB4SS Stainless Steel, NEMA 4X J-box with signal trim card
- Rugged diamond deck safety treadplate
- Four adjustable stainless steel SUREFOOT™ support feet
- Threaded eyebolt hole for easy lifting
- Package configured and calibrated for 5,000 divisions
- Five-year limited warranty on RoughDeck only with quick disconnect

CHOICE OF 4 QUALITY INDICATORS


IQ plus® 355


420 Plus


IQ plus® 390-DC


IQ plus® 590-DC

Refer to indicator section of catalog for complete specifications

APPROVALS

Measurement Canada Approved

SPECIFICATIONS

ROUGHDECK HP FLOOR SCALE

LOAD CELL CAPACITY:
2,500lb on 5,000lb bases
4,000lb on 10,000lb bases

END LOAD CAPACITY:
100% full scale at 5000lbs
80% of full scale at 10,000lbs

ROUGHDECK HP FLOOR SCALE

APPROVALS:
NTEP Certified per H-44 at 5,000 Divisions, Class III, CC #92-001A9
Measurement Canada Approved, AM-4827, HC Series

CABLE LENGTH:
20ft (6.1m)

ROUGHDECK HP FLOOR SCALE

HEIGHT:
3.25ft (82.6mm) min

WARRANTY:
Scale: Five-year limited warranty
Indicator: Two-year limited warranty

PACKAGE INCLUDES: *IQ plus® 355, 420 Plus, IQ plus® 390-DC, or IQ plus® 590-DC indicator, RoughDeck 4ft x 4ft floor scale, 20ft of hostile environment load cell cable and quick disconnect.*

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RoughDeck® Rough-n-Ready System Floor Scale / Indicator Package

PART#	FLOOR SCALE CAPACITY	INDICATOR	POWER	EST. SHIP WEIGHT	PRICE
4 ft x 4 ft Roughdeck Indicator Package with tilt stand					
53423	5,000 lb	IQ plus® 590	115 VAC	405 lb	$2,225.00
53424	5,000 lb	IQ plus® 390	115 VAC	405 lb	2,225.00
87153	5,000 lb	420 Plus	115 VAC	405 lb	2,225.00
53425	5,000 lb	IQ plus® 355	115 VAC	405 lb	2,060.00
53429	5,000 lb	IQ plus® 590	230 VAC	405 lb	2,225.00
53430	5,000 lb	IQ plus® 390	230 VAC	405 lb	2,225.00
87154	5,000 lb	420 Plus	230 VAC	405 lb	2,225.00
53431	5,000 lb	IQ plus® 355	230 VAC	405 lb	2,060.00
53420	10,000 lb	IQ plus® 590	115 VAC	405 lb	2,225.00
53421	10,000 lb	IQ plus® 390	115 VAC	405 lb	2,225.00
87155	10,000 lb	420 Plus	115 VAC	405 lb	2,225.00
53422	10,000 lb	IQ plus® 355	115 VAC	405 lb	2,060.00
53426	10,000 lb	IQ plus® 590	230 VAC	405 lb	2,225.00
53427	10,000 lb	IQ plus® 390	230 VAC	405 lb	2,225.00
87156	10,000 lb	420 Plus	230 VAC	405 lb	2,225.00
53428	10,000 lb	IQ plus® 355	230 VAC	405 lb	2,060.00
Canadian Weights & Measures Approved					
94693	2,500 kg	IQ plus® 590	115 VAC	405 lb	2,225.00
94694	2,500 kg	IQ plus® 390	115 VAC	405 lb	2,225.00
94695	2,500 kg	420 Plus	115 VAC	405 lb	2,225.00
94696	2,500 kg	IQ plus® 355	115 VAC	405 lb	2,060.00
94697	5,000 kg	IQ plus® 590	115 VAC	405 lb	2,225.00
94698	5,000 kg	IQ plus® 390	115 VAC	405 lb	2,225.00
94699	5,000 kg	420 Plus	115 VAC	405 lb	2,225.00
94700	5,000 kg	IQ plus® 355	115 VAC	405 lb	2,060.00

OPTIONS/ACCESSORIES

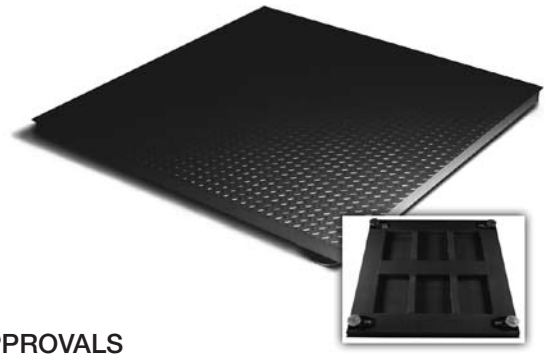
18777	Floor anchor plates, mild steel (set of two)	30.00
19352	RoughDeck floor stand for indicator, 36.3 in high, mild steel	205.00
66662	Additional operating manual	10.00
IQ plus® 355, 420 Plus, IQ plus® 390-DC or IQ plus® 590-DC indicator:		
77925	Revolution® Scaleware software	35.00
66503	Additional operating manual, IQ plus® 355	25.00
85127	Additional operating manual, 420 Plus	25.00
48820	Additional operating manual, IQ plus® 390-DC	25.00
51778	Additional operating manual, IQ plus® 590-DC	25.00

Access ramps, pit frames, bumper guards and portability frames available. See pages F-31 thru F-37

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RoughDeck® HP

High-Precision Structural Steel Low-Profile Floor Scale



APPROVALS

Measurement Canada Approved

FM APPROVED

STANDARD FEATURES

- Heavy-duty industrial design
- Structural steel channel frame
- Four NTEP Certified alloy steel, shear beam load cells
- 20ft SURVIVOR® EL147HE hostile environment load cell cable
- TuffSeal® JB4SS stainless steel, NEMA 4X j-box with signal trim card
- Side-entry j-box
- Rugged diamond deck safety treadplate
- Four adjustable stainless steel SUREFOOT™ support feet
- Threaded eyebolt holes for easy lifting
- Four corner overload stops (Canadian versions only)
- Level bubble (Canadian versions only)
- Five-year limited warranty on all parts

SPECIFICATIONS

APPROVALS:
NTEP Certified, CC# 92-001A9
Class III, 5000d, Measurement Canada Approved, AM-4827, HC Series

END LOAD CAPACITY:
200% full scale at 1,000lbs
100% full scale at 2,000lbs, & 5,000lbs
80% full scale at 10,000lbs

CABLE LENGTH:
20ft (6.1m) for connecting j-box to indicator

WARRANTY:
Five-year limited warranty

RICE LAKE WEIGHING SYSTEMS

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RoughDeck® HP

High-Precision Structural Steel Low-Profile Floor Scale

PART #	PART #	SIZE (W x L x H)	CAPACITY	EST. SHIP WEIGHT	PRICE
w/Quick Connector	w/out Quick Connector				
66318†	67695	2.5 ft x 2.5 ft x 3.5 in	2,000 lb	173 lb	$1,510.00
66320†	67693	3 ft x 3 ft x 3.5 in	1,000 lb	232 lb	1,510.00
66317†	67696	3 ft x 3 ft x 3.5 in	2,000 lb	232 lb	1,510.00
105300†	105301	3 ft x 3 ft x 3.5 in	5,000 lb	232 lb	1,510.00
66319	67694	4 ft x 4 ft x 3.5 in	1,000 lb	375 lb	1,610.00
67618	67697	4 ft x 4 ft x 3.5 in	2,000 lb	375 lb	1,610.00
66316	67698	4 ft x 4 ft x 3.5 in	5,000 lb	375 lb	1,610.00
66315	67699	4 ft x 4 ft x 3.5 in	10,000 lb	375 lb	1,610.00
66314	67700	4 ft x 5 ft x 3.5 in	5,000 lb	437 lb	1,760.00
66313	67701	4 ft x 5 ft x 3.5 in	10,000 lb	567 lb	2,060.00
66312	67702	4 ft x 6 ft x 3.5 in	5,000 lb	510 lb	1,910.00
66311	67703	4 ft x 6 ft x 3.5 in	10,000 lb	656 lb	2,250.00
66310	67704	5 ft x 5 ft x 3.5 in	5,000 lb	541 lb	1,940.00
66309	67705	5 ft x 5 ft x 3.5 in	10,000 lb	696 lb	2,300.00
66308	67706	5 ft x 6 ft x 3.5 in	5,000 lb	646 lb	2,130.00
66307	67707	5 ft x 6 ft x 3.5 in	10,000 lb	821 lb	2,530.00
66306	67708	5 ft x 7 ft x 3.5 in	5,000 lb	734 lb	2,310.00
66305	67709	5 ft x 7 ft x 3.5 in	10,000 lb	929 lb	2,760.00
*Canadian Weights & Measures Approved					
66464†	67710	3 ft x 3 ft x 3.5 in	1,000 kg	232 lb	1,510.00
66465	67711	4 ft x 4 ft x 3.5 in	2,500 kg	375 lb	1,610.00
66466	67712	4 ft x 4 ft x 3.5 in	5,000 kg	375 lb	1,610.00
66467	67713	5 ft x 5 ft x 3.5 in	2,500 kg	541 lb	1,940.00
66468	67714	5 ft x 5 ft x 3.5 in	5,000 kg	696 lb	2,300.00
66469	67715	5 ft x 7 ft x 3.5 in	2,500 kg	934 lb	2,210.00
66470	67716	5 ft x 7 ft x 3.5 in	5,000 kg	929 lb	2,760.00

† Not recommended for use with pallet jacks * Includes four corner overload stops and level bubble

OPTIONS/ACCESSORIES

N/A	Smooth deck instead of diamond safety tread plate	No charge
18777	Floor anchor plates, mild steel (set of two)	30.00
N/A	Four drilled deck holes for scale height adjustment	40.00
19352	RoughDeck floor stand for indicator, 36.3 in high, mild steel	205.00
66662	Additional operating manual	10.00
MS-1**	Mild steel deck with RLWS stainless steel (FM approved) load cells, and hardware	+550.00 list price adder
MS-2**	Mild steel deck with RLWS welded seal IP 67 stainless steel (FM approved) load cells and hardware	+915.00 list price adder
MS-10	Epoxy paint	+90.00 list price adder
MS-11	Top access j-box	+100.00 list price adder
MS-12	Forklift channel option (up to 5 ft x 7 ft 10K, accommodates fork tines no larger than 5 in W and 2 in H, fork entry is on opposite side of j-box location)	+275.00 list price adder

Access ramps, pit frames, bumper guards and portability frames available. See pages F-31 thru F-37

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RoughDeck® HP-H

Heavy Capacity Floor Scale



STANDARD FEATURES

- Heavy-duty industrial design
- Structural steel channel frame
- Four NTEP Certified alloy steel, shear beam load cells
- 20ft SURVIVOR® EL147HE hostile environment load cell cable
- TuffSeal® JB4SS stainless steel, NEMA 4X j-box with signal trim card
- Side-entry j-box
- Rugged diamond safety treadplate deck
- Four adjustable stainless steel SUREFOOT™ support feet
- Threaded eyebolt holes for easy lifting

APPROVALS

Measurement Canada Approved

SPECIFICATIONS

APPROVALS:
NTEP certified, CC# 92-001A9
Class III, 5000d
Measurement Canada approved, AM-5284

END LOAD CAPACITY:
100% full scale at 20,000lbs
66% full scale at 30,000lbs

CABLE LENGTH:
20ft (6.1m) for connecting j-box to indicator

WARRANTY:
Five-year limited warranty

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RoughDeck® HP-H

Heavy Capacity Floor Scale

PART # w/Quick Connector	PART # w/out Quick Connector	SIZE (W X L X H)	CAPACITY	EST. SHIP WEIGHT	PRICE
66474	67717	4 ft x 4 ft x 4 in	20,000 lb (10,000 kg)	601 lb	$2,850.00
66475	67718	4 ft x 5 ft x 4 in	20,000 lb (10,000 kg)	775 lb	3,050.00
66476	67719	4 ft x 6 ft x 4 in	20,000 lb (10,000 kg)	926 lb	3,250.00
66477	67720	4 ft x 7 ft x 4 in	20,000 lb (10,000 kg)	1,135 lb	3,450.00
66478	67721	5 ft x 5 ft x 4 in	20,000 lb (10,000 kg)	926 lb	3,350.00
66479	67722	5 ft x 6 ft x 4 in	20,000 lb (10,000 kg)	1,104 lb	3,550.00
66480	67723	5 ft x 7 ft x 4 in	20,000 lb (10,000 kg)	1,377 lb	3,750.00
66481	67724	6 ft x 6 ft x 4 in	20,000 lb (10,000 kg)	1,319 lb	3,850.00
66482	67725	6 ft x 8 ft x 4 in	20,000 lb (10,000 kg)	1,861 lb	4,650.00
66483	67726	7 ft x 9 ft x 4 in	20,000 lb (10,000 kg)	2,408 lb	5,450.00
66484	67727	7 ft x 10 ft x 4 in	20,000 lb (10,000 kg)	2,959 lb	6,150.00
66485	67728	8 ft x 10 ft x 4 in	20,000 lb (10,000 kg)	3,108 lb	6,400.00
66486	67729	4 ft x 4 ft x 5 in	30,000 lb (15,000 kg)	675 lb	3,150.00
66487	67730	4 ft x 5 ft x 5 in	30,000 lb (15,000 kg)	839 lb	3,350.00
66488	67731	4 ft x 6 ft x 5 in	30,000 lb (15,000 kg)	1071 lb	3,550.00
66489	67732	4 ft x 7 ft x 5 in	30,000 lb (15,000 kg)	1,200 lb	3,750.00
66490	67733	5 ft x 5 ft x 5 in	30,000 lb (15,000 kg)	1,021 lb	3,650.00
66491	67734	5 ft x 7 ft x 5 in	30,000 lb (15,000 kg)	1,448 lb	4,050.00
66492	67735	6 ft x 6 ft x 5 in	30,000 lb (15,000 kg)	1,438 lb	4,150.00
66493	67736	7 ft x 10 ft x 5 in	30,000 lb (15,000 kg)	3,372 lb	7,850.00
66494	67737	8 ft x 10 ft x 5 in	30,000 lb (15,000 kg)	3,699 lb	8,280.00

OPTIONS/ACCESSORIES

N/A	Smooth deck instead of diamond safety tread plate	No charge
40387	Mounting plate, mild steel, 20 K capacity models (optional)	42.00
40388	Mounting plate, mild steel, 30 K capacity models (optional)	42.00
N/A	Four drilled deck holes for scale height adjustment	40.00
19352	RoughDeck floor stand for indicator, 36.3 in high, mild steel	205.00
66662	Additional operating manual	10.00
MS-1	Mild steel deck with RLWS stainless steel FM approved load cells and hardware	+785.00 list price adder
MS-2*	Mild steel deck with RLWS welded seal IP67 stainless steel FM approved load cells, and hardware	+1,155.00 list price adder
MS-10	Epoxy paint	+90.00 list price adder
MS-11	Top access j-box	+100.00 list price adder

Access ramps, pit frames, bumper guards and portability frames available. See pages F-31 thru F-37

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RoughDeck® CS

Coil Scale



STANDARD FEATURES

- Capacities: 40,000 to 80,000 lb, consult factory for custom capacities
- Sizes: 5 ft x 5 ft - 6 ft x 6 ft, consult factory for custom sizes
- Height: 11 in
- Deck thickness: 1/2 in diamond tread plate
- JB4SS Tuffseal® signal trim junction box
- MVS self-checking mounting system, top access to load cells
- Black epoxy paint
- 20 ft SURVIVOR® EL147HE hostile environment load cell cable

SPECIFICATIONS

CAPACITIES:

Scale Capacity	Load Cell and Mount Capacity
40,000 lb	Qty (4) 50,000 lb each
60,000 lb	Qty (4) 50,000 lb each
80,000 lb	Qty (4) 75,000 lb each

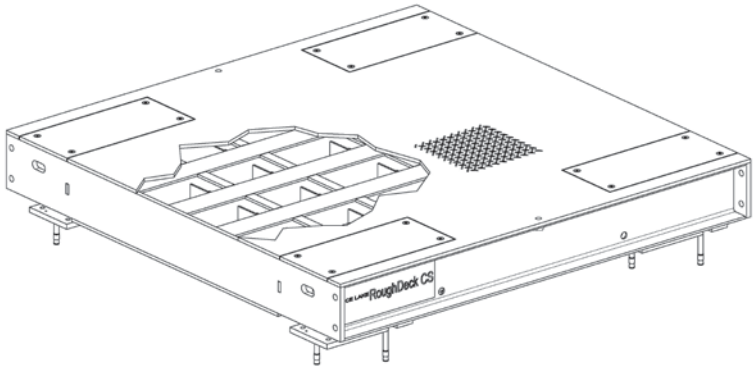
WARRANTY:

Five-year limited warranty

PART #	DESCRIPTION	CAPACITY	EST. SHIP WEIGHT	PRICE
107493	5 ft x 5 ft x 11 in	40,000 lb (20,000 kg)	1900 lb	$9,500.00
107494	5 ft x 5 ft x 11 in	60,000 lb (30,000 kg)	1900 lb	9,500.00
107495	5 ft x 5 ft x 11 in	80,000 lb (40,000 kg)	1900 lb	9,500.00
107496	6 ft x 6 ft x 11 in	40,000 lb (20,000 kg)	2575 lb	11,000.00
107497	6 ft x 6 ft x 11 in	60,000 lb (30,000 kg)	2575 lb	11,000.00
107498	6 ft x 6 ft x 11 in	80,000 lb (40,000 kg)	2575 lb	11,000.00

OPTIONS/ACCESSORIES

V-Top coil cradle (need to specify bolted or welded) ..... consult factory
Pit coping ..... consult factory



RICE LAKE WEIGHING SYSTEMS

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RoughDeck® SS

Stainless Steel Low-Profile Floor Scale



STANDARD FEATURES

- Rugged non-corrosive design
- 304 stainless steel construction
- Rigid stainless steel channel frame
- Four stainless steel NTEP Certified shear beam load cells
- 20ft of SURVIVOR® EL147HE hostile environment load cell cable
- TuffSeal® JB4SS stainless steel, NEMA 4x j-box with signal trim card
- Smooth stainless steel deck
- Four adjustable stainless steel SUREFOOT™ support feet
- Threaded eyebolt holes for easy lifting



Unique side-entry junction box provides easy access



The load cells are recessed within the channel and protected on all sides. SUREFOOT supports provide a superior load introduction surface, reducing extraneous forces which might affect scale accuracy

APPROVALS

Measurement Canada Approved

SPECIFICATIONS

APPROVALS:
NTEP Certified, CC #92-001A9
Class III 5000d
Measurement Canada Approved
AM-4827
HCSS Series

END LOAD CAPACITY:
200% full scale at 1,000lbs
100% full scale at 2,000lbs and 5,000lbs
80% full scale at 10,000lbs

CABLE LENGTH:
20ft (6.1m)
(for connecting j-box to indicator)

WARRANTY:
Five-year limited warranty

PART #	SIZE (W x L x H)	CAPACITY	EST. SHIP WEIGHT	PRICE
18663†	2.5ft x 2.5ft x 3.5in	2,000lb (1,000kg)	173lb	$3,440.00
46239**†	3ft x 3ft x 3.5in	1,000lb (500kg)	232lb	3,920.00
18664†	3ft x 3ft x 3.5in	2,000lb (1,000kg)	232lb	3,920.00
46241**	4ft x 4ft x 3.5in	1,000lb (500kg)	375lb	4,395.00
18665	4ft x 4ft x 3.5in	5,000lb (2,500kg)	375lb	4,395.00
18666	4ft x 4ft x 3.5in	10,000lb (5,000kg)	490lb	5,995.00
18667	4ft x 5ft x 3.5in	5,000lb (2,500kg)	437lb	5,045.00
18668	4ft x 5ft x 3.5in	10,000lb (5,000kg)	567lb	6,880.00
18671	5ft x 5ft x 3.5in	5,000lb (2,500kg)	541lb	5,775.00
18672	5ft x 5ft x 3.5in	10,000lb (5,000kg)	696lb	7,980.00
18676	5ft x 7ft x 3.5in	10,000lb (5,000kg)	929lb	10,185.00

OPTIONS/ACCESSORIES

18778	Floor anchor plates, stainless steel (set of two)	32.00
N/A	Four drilled deck holes for scale height adjustment	40.00
28740	RoughDeck floor stand for indicator, 36.3in high, stainless steel	310.00
16960	Additional operating manual	10.00
N/A	Stainless steel diamond treadplate safety deck	Consult Factory

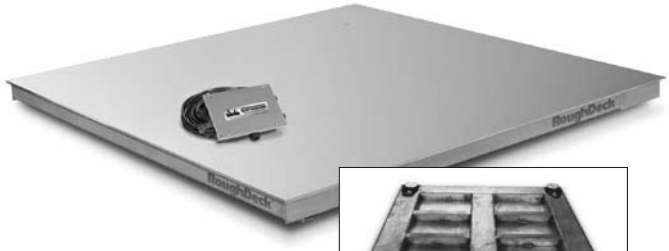
† Not recommended for use with pallet jacks

Access ramps, pit frames, bumper guards and portability frames available. See pages F-31 thru F-37

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RoughDeck® HE

Hostile Environment Stainless Steel Low-Profile Floor Scale





The 6 in stainless steel channels provide superior protection for load cells and cable.

STANDARD FEATURES

- Rugged washdown design
- 304 stainless steel construction
- Rigid 304 stainless steel channel frame
- Four stainless steel, welded-seal IP67, shear beam load cells
- 20 ft of SURVIVOR® EL147HE hostile environment load cell cable
- TuffSeal® JB4SS stainless steel, NEMA 4X j-box with signal trim card
- Load cells protected on all four sides
- Smooth stainless steel deck
- Four stainless steel, welded-seal IP67, shear beam load cells
- Threaded eyebolt holes for easy lifting
- Five-year limited warranty



The load cells are recessed within the channel and protected on all sides. SUREFOOT supports provide a superior load introduction surface, reducing extraneous forces which might affect scale accuracy.



Remote TuffSeal JB4SS stainless steel NEMA 4X junction box with 20 ft of hostile environment load cell cable

APPROVALS

SPECIFICATIONS

APPROVALS:
NTEP Certified, CC# 92-001A9
Designed to meet or exceed H44,
5,000, 10,000 - Class III 5000d
2,000 - Class III 4000d

END LOAD CAPACITY:
100% full scale at 2,000 lb and 5,000 lb
80% full scale at 10,000 lb

CABLE LENGTH:
20 ft (6.1 m)

WARRANTY:
Five-year limited warranty

PART #	SIZE (W x L x H)	CAPACITY	EST. SHIP WEIGHT	PRICE
18680*	2.5 ft x 2.5 ft x 3.5 in	2,000 lb (1,000 kg)	173 lb	$3,705.00
18681*	3 ft x 3 ft x 3.5 in	2,000 lb (1,000 kg)	232 lb	4,150.00
18682	4 ft x 4 ft x 3.5 in	5,000 lb (2,500 kg)	375 lb	5,180.00
18683	4 ft x 4 ft x 3.5 in	10,000 lb (5,000 kg)	490 lb	6,355.00
18684	4 ft x 5 ft x 3.5 in	5,000 lb (2,500 kg)	437 lb	5,775.00
18685	4 ft x 5 ft x 3.5 in	10,000 lb (5,000 kg)	567 lb	7,240.00
18688	5 ft x 5 ft x 3.5 in	5,000 lb (2,500 kg)	541 lb	6,500.00
18689	5 ft x 5 ft x 3.5 in	10,000 lb (5,000 kg)	696 lb	8,340.00
18693	5 ft x 7 ft x 3.5 in	10,000 lb (5,000 kg)	929 lb	10,545.00

OPTIONS/ACCESSORIES

18778	Floor anchor plates, stainless steel (set of two)	32.00
N/A	Four drilled deck holes for scale height adjustment	40.00
28740	RoughDeck floor stand for indicator, 36.3 in high, stainless steel	310.00
16960	Additional operating manual	10.00
N/A	Stainless steel diamond treadplate safety deck	Consult Factory

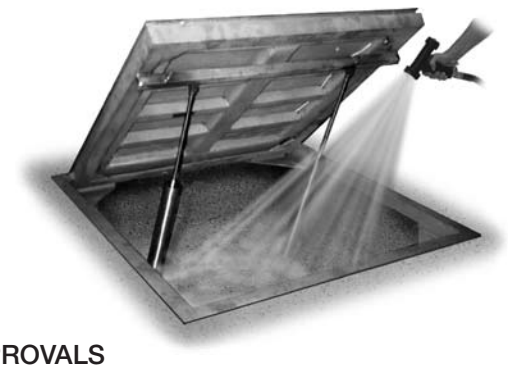
* Not recommended for use with pallet jacks

Access ramps, pit frames, bumper guards and portability frames available. See pages F-31 thru F-37

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AutoLift HE

Hostile Environment Stainless Steel Low-Profile Lift Floor Scale



APPROVALS

FM APPROVED LOAD CELLS

STANDARD FEATURES

- Rugged washdown design
- 304 stainless steel construction
- Rigid 304 stainless steel channel frame
- Manual, drop-in-place, safety bar
- Four stainless steel, welded seal, shear beam load cells
- Load cells protected on all four sides
- 20ft of SURVIVOR® hostile environment load cell cable
- Remote TuffSeal® JB4SS stainless steel NEMA 4X j-box
- Smooth stainless steel deck
- Four adjustable stainless steel SUREFOOT support feet
- Requires 85-100 psi air pressure

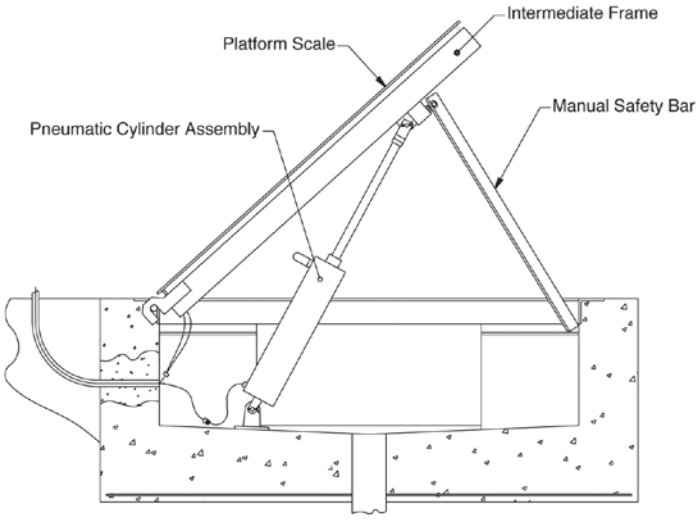
SPECIFICATIONS

END LOAD CAPACITY:
100% full scale at 2,000lb and 5,000lb
80% full scale at 10,000lb

CABLE LENGTH:
20ft (6.1m)

WELDING:
Stitch, consult factory if continuous is required

WARRANTY:
Five-year limited warranty



PART #	SIZE (W x L)	CAPACITY	EST. SHIP WEIGHT	PRICE
42207	4ft x 4ft	2,000lb (1,000kg)	640lb	$12,200.00
42208	4ft x 4ft	5,000lb (2,500kg)	640lb	12,200.00
42209	4ft x 4ft	10,000lb (5,000kg)	750lb	12,600.00
42211	5ft x 5ft	2,000lb (1,000kg)	830lb	14,500.00
42212	5ft x 5ft	5,000lb (2,500kg)	830lb	14,500.00
42213	5v x 5ft	10,000lb (5,000kg)	1,050lb	14,900.00

OPTIONS/ACCESSORIES

N/A	Four drilled deck holes for scale height adjustment	40.00
28740	Floor stand for indicator, 36.3in high stainless steel	310.00

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RoughDeck® QC

Quick Clean Stainless Steel Floor Scale



STANDARD FEATURES

- Rugged washdown design
- Smooth, 304 stainless steel top deck
- Rigid 304 stainless steel tube frame
- Manual drop-in-place safety bar
- Four stainless steel, welded seal IP67, shear beam load cells
- 20ft of SURVIVOR® EL147HE hostile environment load cell cable
- Remote TullSeal® JB4SS stainless steel NEMA 4X j-box
- 3/16in thick top plate
- Four adjustable stainless steel SUREFOOT™ support feet

APPROVALS

Standard RoughDeck QC is not designed for fork truck traffic or point loading. Please consult factory for pricing on RoughDeck QC special if your application involves either.

SPECIFICATIONS

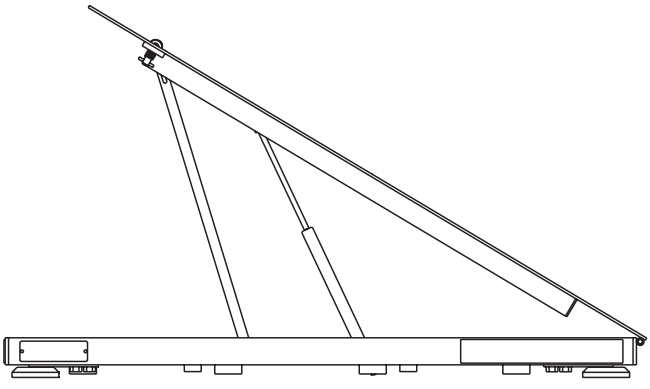
APPROVALS:
NTEP certified per H-44
Class III 5000d;
CC# 92-001A9

END LOAD CAPACITY:
100% full scale at 2,000lb and 5,000lb
80% full scale at 10,000lb

CABLE LENGTH:
20ft (6.1m)
(for connecting j-box to indicator)

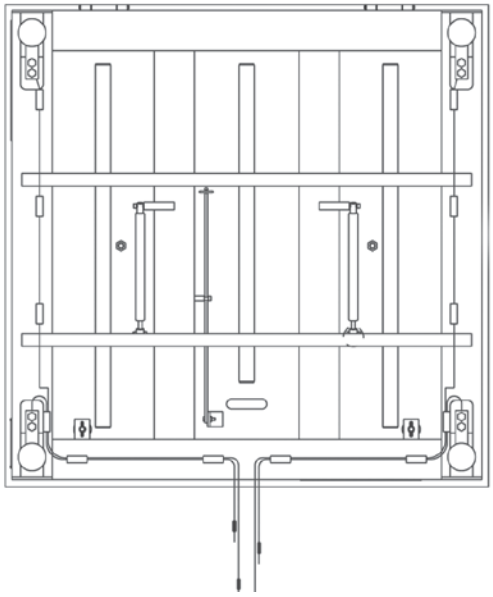
REMOTE JUNCTION BOX:
Stainless steel enclosure can be located up to 10ft away from scale

WARRANTY:
Five-year limited warranty



(Upright position)

Underdeck view



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RoughDeck® QC

Quick Clean Stainless Steel Floor Scale

PART #	SIZE (W x L x H)	CAPACITY	EST. SHIP WEIGHT	PRICE
50402	2.5 ft x 2.5 ft x 3.5 in	2,000 lb (1,000 kg)	158 lb	$4,650.00
50403	3 ft x 3 ft x 3.5 in	2,000 lb (1,000 kg)	208 lb	5,100.00
50404	4 ft x 4 ft x 3.5 in	2,000 lb (1,000 kg)	338 lb	5,750.00
50405	4 ft x 4 ft x 3.5 in	5,000 lb (2,500 kg)	338 lb	5,750.00
50406	4 ft x 4 ft x 4.5 in	10,000 lb (5,000 kg)	447 lb	6,200.00
50407	4 ft x 5 ft x 3.5 in	2,000 lb (1,000 kg)	406 lb	6,415.00
50408	4 ft x 5 ft x 4.5 in	5,000 lb (2,500 kg)	406 lb	6,415.00
50409	4 ft x 5 ft x 4.5 in	10,000 lb (5,000 kg)	540 lb	7,075.00
50410	4 ft x 6 ft x 4.5 in	2,000 lb (1,000 kg)	477 lb	7,075.00
50411	4 ft x 6 ft x 4.5 in	5,000 lb (2,500 kg)	477 lb	7,075.00
50412	4 ft x 6 ft x 5.5 in	10,000 lb (5,000 kg)	637 lb	7,750.00
50413	5 ft x 5 ft x 4.5 in	2,000 lb (1,000 kg)	478 lb	7,075.00
50414	5 ft x 5 ft x 4.5 in	5,000 lb (2,500 kg)	478 lb	7,075.00
50415	5 ft x 5 ft x 4.5 in	10,000 lb (5,000 kg)	637 lb	8,915.00
50416	5 ft x 7 ft x 5.5 in	2,000 lb (1,000 kg)	705 lb	9,610.00
50417	5 ft x 7 ft x 5.5 in	5,000 lb (2,500 kg)	705 lb	9,610.00
50418	5 ft x 7 ft x 5.5 in	10,000 lb (5,000 kg)	908 lb	10,710.00

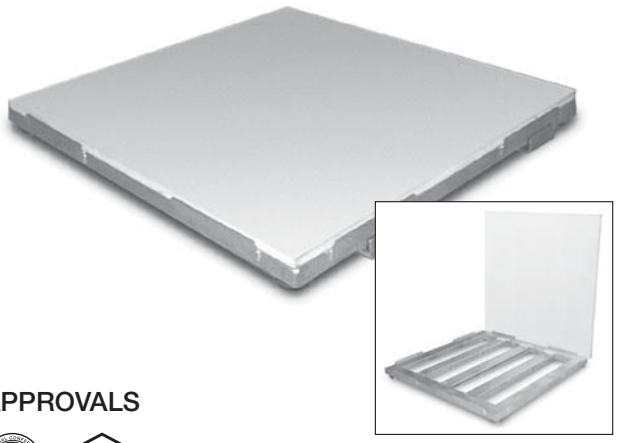
OPTIONS/ACCESSORIES

28740	Floor stand for indicator, 36.3 in high, stainless steel		310.00
N/A	Stainless steel diamond treadplate safety deck		Consult factory
Access Ramps			
69193	2.5 ft W x 4.0 ft L x 3.5 in H (works w/pn 50402)	152 lb	1,335.00
69194	3.0 ft W x 4.0 ft L x 3.5 in H (works w/pn 50403)	177 lb	1,335.00
69195	4.0 ft W x 4.0 ft L x 3.5 in H (works w/pns 50404, 50405 and 50407)	224 lb	1,855.00
69217	4.0 ft W x 4.0 ft L x 4.5 in H (works w/pns 50406, 50408, 50410 and 50411)	234 lb	1,875.00
69218	4.0 ft W x 4.0 ft L x 4.5 in H (works w/pn 50409)	234 lb	1,875.00
69222	4.0 ft W x 5.0 ft L x 5.5 in H (works w/pn 50412)	330 lb	2,420.00
69219	5.0 ft W x 4.0 ft L x 4.5 in H (works w/pn 50413 and 50414)	272 lb	2,285.00
69220	5.0 ft W x 4.0 ft L x 4.5 in H (works w/pn 50415)	272 lb	2,285.00
69223	5.0 ft W x 5.0 ft L x 5.5 in H (works w/pn 50416, 50417 and 50418)	380 lb	2,995.00
Pit Frames			
64768	2.5 ft W x 2.5 ft L x 4 in D (works w/pn 50402)	89 lb	1,035.00
64769	3.0 ft W x 3.0 ft L x 4 in D (works w/pn 50403)	102 lb	1,035.00
64770	4.0 ft W x 4.0 ft L x 4 in D (works w/pn 50404 and 50405)	127 lb	1,335.00
64771	4.0 ft W x 4.0 ft L x 5 in D (works w/pn 50406)	158 lb	1,535.00
64772	4.0 ft W x 5.0 ft L x 4 in D (works w/pn 50407)	140 lb	1,535.00
64773	4.0 ft W x 5.0 ft L x 5 in D (works w/pn 50408)	175 lb	1,715.00
64774	4.0 ft W x 5.0 ft L x 5 in D (works w/pn 50409)	175 lb	1,715.00
64775	4.0 ft W x 6.0 ft L x 5 in D (works w/pn 50410 and 50411)	191 lb	1,875.00
64776	4.0 ft W x 6.0 ft L x 6 in D (works w/pn 50412)	225 lb	1,975.00
64777	5.0 ft W x 5.0 ft L x 5 in D (works w/pn 50413 and 50414)	191 lb	1,875.00
64778	5.0 ft W x 5.0 ft L x 5 in D (works w/pn 50415)	191 lb	1,875.00
64779	5.0 ft W x 7.0 ft L x 6 in D (works w/pn 50416, 50417 and 50418)	270 lb	2,215.00

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RoughDeck® SD

Sanitary Deck Floor Scale



APPROVALS

STANDARD FEATURES

- Rugged washdown design
- 304 stainless steel construction
- Rigid stainless steel tube frame
- Four stainless steel, welded seal, shear beam load cells
- Load cells protected on all four sides
- 20ft (6m) of SURVIVOR® EL147HE hostile environment load cell cable
- Remote TuffSeal® JB4SS stainless steel NEMA 4X j-box
- Four adjustable stainless steel SUREFOOT™ support feet
- Removable polyethylene deck (Deck weight: 80lb (36.6kg) on 4ft x 4ft size)
- Side brackets to hold deck during washdown
- Two-year limited warranty

Important NOTE: Applications where oily substances may be spilled could cause the deck to become slippery—caution should be used. The RoughDeck QC is recommended in these instances.

SPECIFICATIONS

END LOAD CAPACITY:
100% full scale at 2,000lb & 5,000lb
80% full scale at 10,000lb

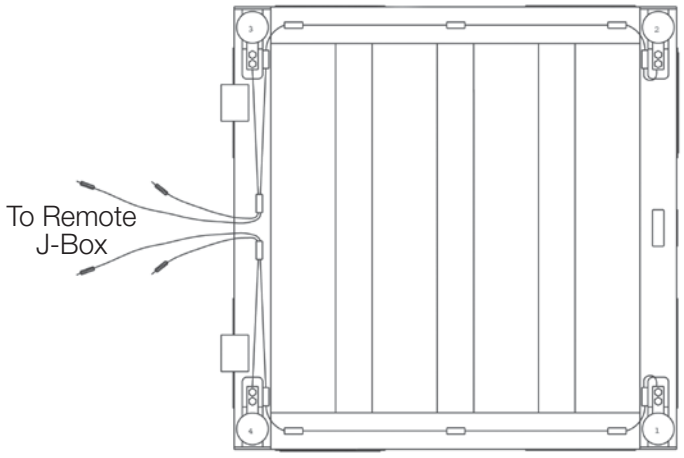
CABLE LENGTH:
20ft (6.1m) (for connecting j-box to indicator)

REMOTE JUNCTION BOX:
Stainless steel enclosure can be located up to 10ft away from scale

APPROVALS:
NTEP Certified per H-44, Class III 5000d; CC# 92-001A5

WARRANTY:
Two-year limited warranty

Underdeck View



Side View



Bracket to hold polyethylene top deck when cleaning under scale

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RoughDeck® SD

Sanitary Deck Floor Scale

PART #	SIZE (W x L x H)	CAPACITY	EST. SHIP WEIGHT	PRICE
50385	2.5 ft x 2.5 ft x 4.4 in	2,000 lb	158 lb	$3,880.00
50386	3 ft x 3 ft x 4.4 in	2,000 lb	208 lb	3,995.00
50387	4 ft x 4 ft x 4.4 in	2,000 lb	338 lb	4,210.00
50388	4 ft x 4 ft x 4.4 in	5,000 lb	338 lb	4,210.00
50389	4 ft x 4 ft x 5.4 in	10,000 lb	447 lb	4,435.00
50390	4 ft x 5 ft x 4.4 in	2,000 lb	406 lb	4,655.00
50391	4 ft x 5 ft x 5.4 in	5,000 lb	406 lb	4,655.00
50392	4 ft x 5 ft x 5.4 in	10,000 lb	540 lb	4,870.00
50393	4 ft x 6 ft x 5.4 in	2,000 lb	477 lb	5,100.00
50394	4 ft x 6 ft x 5.4 in	5,000 lb	477 lb	5,100.00
50395	4 ft x 6 ft x 6.4 in	10,000 lb	637 lb	5,645.00
50396*	5 ft x 5 ft x 5.4 in	2,000 lb	478 lb	5,100.00
50397*	5 ft x 5 ft x 5.4 in	5,000 lb	478 lb	5,100.00
50398*	5 ft x 5 ft x 5.4 in	10,000 lb	637 lb	5,645.00
50399*	5 ft x 7 ft x 6.4 in	2,000 lb	705 lb	7,190.00
50400*	5 ft x 7 ft x 6.4 in	5,000 lb	705 lb	7,190.00
50401*	5 ft x 7 ft x 6.4 in	10,000 lb	908 lb	8,175.00

* Constructed of two pieces of polyethylene to make up the top deck.

OPTIONS/ACCESSORIES

28740 ..... RoughDeck floor stand for indicator, 36.3 in high, stainless steel 310.00

Consult factory for these additional options

- Access ramps
- Pit frames

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RoughDeck® BDP

Barrel Scale – Standard Model



STANDARD FEATURES

- Live siderails
- Top access foot adjustment holes (holes are 1/2-13 threaded for lifting scale)
- Four adjustable stainless steel SUREFOOT™ support feet
- 30in x 31in or 36in x 37in weighing surface (not including side rails)
- TuffSeal® JB4SS stainless steel, NEMA 4x j-box with signal trim card
- Three-year limited warranty

Mild Steel Models
- Treaded top plate
- Alloy steel load cells

Stainless Steel Models
- Smooth top plate
- Stainless steel or stainless steel with welded-seal (IP67) load cells

APPROVALS

Measurement Canada Approved

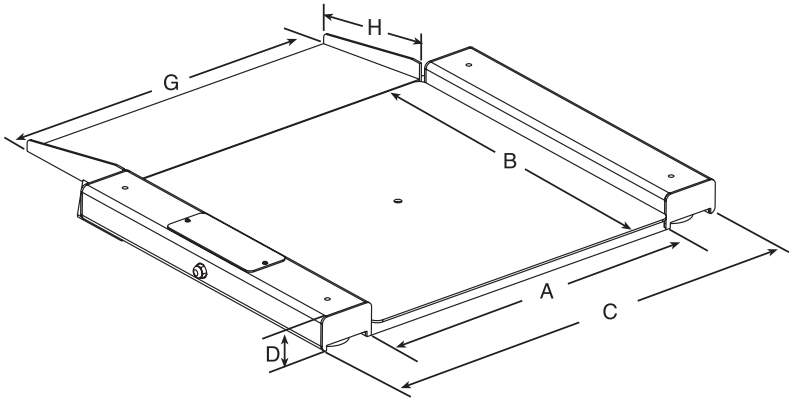
SPECIFICATIONS

END LOAD CAPACITY:
1000lb: 100% full scale
2500lb: 80% full scale

CABLE LENGTH:
10ft (3m)

APPROVALS:
NTEP Certified, CC#03-060
Measurement Canada Approved: AM-5578

WARRANTY:
Three-year limited warranty



ROUGHDECK BDP W/ACCESS RAMP DIMENSIONS			
30IN x 31IN MODELS			
A	30.0in (762mm)	**D**	3.31in (84.1mm)
B	31.0in (787.4mm)	**G**	30.0in (762mm)
C	40.0in (1016mm)	**H**	12.0in (304.8mm)
36IN x 37IN MODELS			
A	36.0in (914.4mm)	**D**	3.31in (84.1mm)
B	37.0in (939.8mm)	**G**	36.0in (914.4mm)
C	46.0in (1168.4mm)	**H**	12.0in (304.8mm)

Distance from floor to top of center weighing surface: 1.625in (41.2mm)

Distance from floor to bottom of weighing surface: 0.31in (7.87mm)

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RoughDeck® BDP

Barrel Scale – Standard Model

PART #	SIZE (W x L)	CAPACITY (CANADIAN APPROVED CAPACITIES)	EST. SHIP WEIGHT	PRICE
NTEP CERTIFIED				
Mild Steel				
77962	30 in x 31 in	1,000 lb (500 kg)	205 lb	$1,595.00
77963	30 in x 31 in	2,500 lb (1,000 kg)	205 lb	1,595.00
77964	36 in x 37 in	1,000 lb (500 kg)	265 lb	1,695.00
77965	36 in x 37 in	2,500 lb (1,000 kg)	265 lb	1,695.00
Stainless Steel				
77967	30 in x 31 in	1,000 lb (500 kg)	205 lb	3,495.00
77968	30 in x 31 in	2,500 lb (1,000 kg)	205 lb	3,495.00
77969	36 in x 37 in	1,000 lb (500 kg)	265 lb	3,595.00
77970	36 in x 37 in	2,500 lb (1,000 kg)	265 lb	3,595.00
Stainless Steel with Stainless Steel Welded-Seal (IP67) Load Cells				
77971	30 in x 31 in	1,000 lb (500 kg)	205 lb	3,795.00
77972	30 in x 31 in	2,500 lb (1,000 kg)	205 lb	3,795.00
77973	36 in x 37 in	1,000 lb (500 kg)	265 lb	3,895.00
77974	36 in x 37 in	2,500 lb (1,000 kg)	265 lb	3,895.00

ACCESS RAMPS

Mild Steel				
78011	30 in x 12 in (sold individually)		25 lb	200.00
78012	36 in x 12 in (sold individually)		30 lb	200.00
Stainless Steel				
78013	30 in x 12 in (sold individually)		25 lb	315.00
78014	36 in x 12 in (sold individually)		30 lb	315.00

OPTIONS/ACCESSORIES

18777	Floor anchor plates, mild steel, set of two (for use with static scale, without ramps)	30.00
18778	Floor anchor plates, stainless steel, set of two (for use with static scale, without ramps)	32.00
19352	Floor stand for indicator, 36.3 in high, mild steel (for use with static scale)	205.00
28740	Floor stand for indicator, 36.3 in high, stainless steel (for use with static scale)	310.00

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RoughDeck® BDP

Barrel Scale – Standard Model with Portability Option



APPROVALS

Measurement Canada Approved

STANDARD FEATURES

- Live siderails
- Top access foot adjustment holes (holes are 1/2-13 threaded for lifting scale)
- Four adjustable stainless steel SUREFOOT™ support feet
- 30in x 31in or 36in x 37in weighing surface (not including side rails)
- TuffSeal® JB4SS Stainless Steel, NEMA 4X junction box with signal trim card

Mild Steel Models

- Treaded top plate
- Alloy steel load cells

Stainless Steel Models

- Smooth top plate
- Stainless steel or stainless steel with welded-seal (IP67) load cells

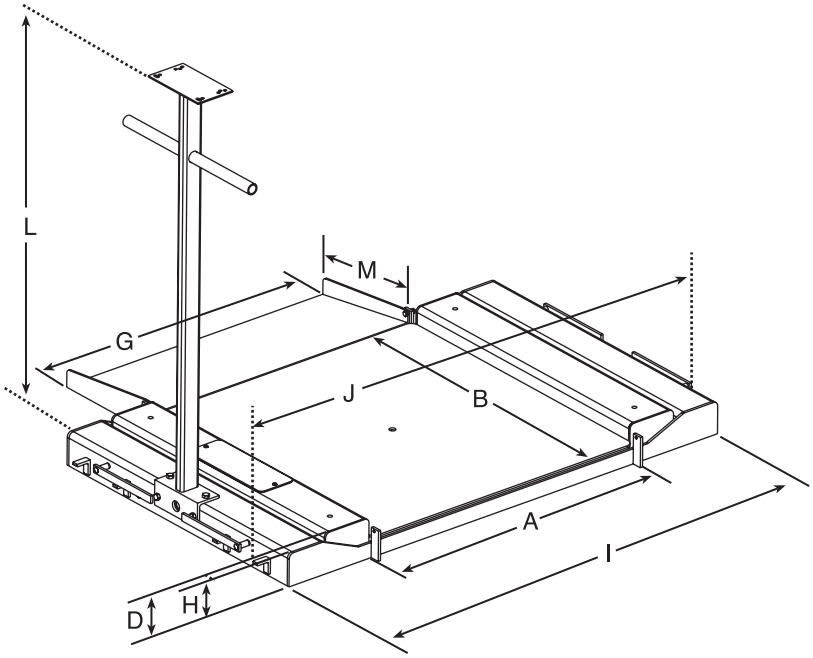
SPECIFICATIONS

END LOAD CAPACITY:
1,000lb: 100% full scale
2500lb: 80% full scale

CABLE LENGTH:
10ft (3m)

APPROVALS:
NTEP Certified CC#03-060
Measurement Canada Approved: AM5578

WARRANTY:
Three-year limited warranty



DIMENSIONS W/PORTABILITY FRAME AND HINGED ACCESS RAMPS			
30IN x 31IN MODELS			
A	30.0in (762mm)	**I**	49.25in (1250.9mm)
B	31.0in (787.4mm)	**J**	52.25in (1327.1mm)
D	3.66in (92.9mm)	**L**	40.37in (1025.4mm)
G	29.25in (742.9mm)	**M**	12.0in (304.8mm)
H	3.25in (82.5mm)		
36IN x 37IN MODELS			
A	36.0in (914.4mm)	**I**	55.25in (1403.4mm)
B	37.0in (939.8mm)	**J**	58.25in (1479.5mm)
D	3.66in (92.9mm)	**L**	40.37in (1025.4mm)
G	35.25in (895.3mm)	**M**	12.0in (304.8mm)
H	3.25in (82.5mm)		

Distance from floor to top of center weighing surface: 1.94in (49.2mm)

Distance from floor to bottom of weighing surface: 0.62in (15.7mm)

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RoughDeck® BDP

Barrel Scale – Standard Model with Portability Option

PART #	SIZE (W x L)	CAPACITY (CANADIAN APPROVED CAPACITIES)	EST. SHIP WEIGHT	PRICE
BDP SCALE				
Mild Steel				
77962	30 in x 31 in	1,000 lb (500 kg)	205 lb	$1,595.00
77963	30 in x 31 in	2,500 lb (1,000 kg)	205 lb	1,595.00
77964	36 in x 37 in	1,000 lb (500 kg)	265 lb	1,695.00
77965	36 in x 37 in	2,500 lb (1,000 kg)	265 lb	1,695.00
Stainless Steel				
77967	30 in x 31 in	1,000 lb (500 kg)	205 lb	3,495.00
77968	30 in x 31 in	2,500 lb (1,000 kg)	205 lb	3,495.00
77969	36 in x 37 in	1,000 lb (500 kg)	265 lb	3,595.00
77970	36 in x 37 in	2,500 lb (1,000 kg)	265 lb	3,595.00
Stainless Steel with Stainless Steel Welded-Seal (IP67) Load Cells				
77971	30 in x 31 in	1,000 lb (500 kg)	205 lb	3,795.00
77972	30 in x 31 in	2,500 lb (1,000 kg)	205 lb	3,795.00
77973	36 in x 37 in	1,000 lb (500 kg)	265 lb	3,895.00
77974	36 in x 37 in	2,500 lb (1,000 kg)	265 lb	3,895.00

PORTABILITY KITS

Kits include:
- Frame
- Two swivel and two fixed zinc plated steel NSF approved wheels (75 lb max. load capacity)
- Indicator stand (suitable for IQ plus® 310, 320IS, 320IS plus, IQ plus® 355, IQ plus® 390, 420 plus, IQ plus® 590, IQ 700, UMC444 and UMC555)

Mild Steel				
78021	For use with 30 in x 31 in scale		90 lb	750.00
78022	For use with 36 in x 37 in scale		100 lb	750.00
Stainless Steel				
78023	For use with 30 in x 31 in scale		90 lb	1,025.00
78024	For use with 36 in x 37 in scale		100 lb	1,080.00

HINGED ACCESS RAMPS

For use with portability kit

Mild Steel				
78015	29.25 in x 12 in (sold individually)		25 lb	200.00
78016	35.25 in x 12 in (sold individually)		30 lb	200.00
Stainless Steel				
78017	29.25 in x 12 in (sold individually)		25 lb	315.00
78018	35.25 in x 12 in (sold individually)		30 lb	315.00

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DeckHand Portable Scale



Shown with optional ramp

APPROVALS

Measurement Canada Approved

STANDARD FEATURES

- Mild or stainless steel frame, base, and mast
- 500lb, 1,000lb, 2,000lb capacity
- Large rubber wheels simplify movement on uneven floors
- Aluminum load cells (2)
- Standard indicator mount with integral handles for the IQ plus® 355, IQ plus 390-DC, IQ plus 510, IQ plus 590-DC, IQ plus 710, and IQ plus 700.

DeckHand Rough-n-Ready System



Shown with optional ramp

APPROVALS

Measurement Canada Approved

STANDARD FEATURES

- Mild steel wheeled frame, base, and mast
- 500lb, 1,000lb, 2,000lb capacity
- Large rubber wheels simplify movement on uneven floors
- Aluminum load cells (2)
- Package includes: Mild steel DeckHand Portable Scale and IQ plus® 590-DC indicator
- Battery life 40 hours continuous
- Factory-wired and calibrated

See page I-19 for Indicator specifications.

SPECIFICATIONS

DECKHAND PORTABLE SCALE END LOAD CAPACITY:
100% end loading

mV/V OUTPUT:
2mV/V

CABLE LENGTH:
9ft 10in (3m)

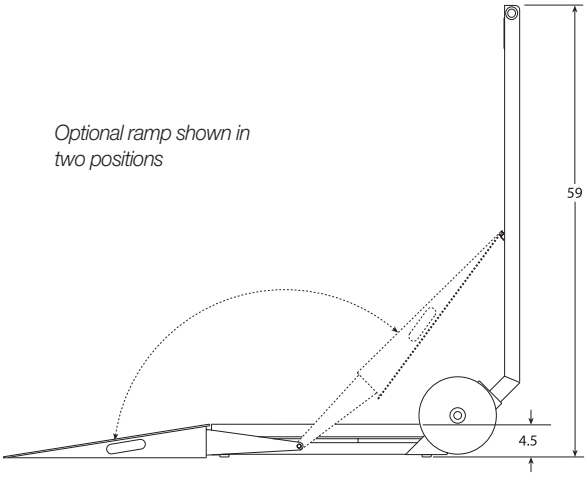
HEIGHT:
Weighing platter: 4.5in H when in weigh mode

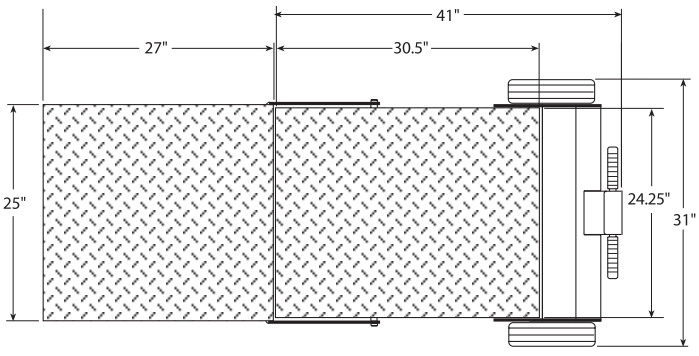
COLUMN HEIGHT:
59in

APPROVALS:
NTEP Certified, CC# 98-004, Class III, 2500d
Measurement Canada approved, AM-5218

WARRANTY:
One-year limited warranty

Optional ramp shown in two positions





RICE LAKE WEIGHING SYSTEMS

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DeckHand Specifications (continued)

DeckHand & DeckHand *Rough-n-Ready* System

PART #	OVERALL SIZE (W x L x H)	CAPACITY	EST. SHIP WEIGHT	PRICE
DECKHAND PORTABLE SCALE (SCALE ONLY)				
Mild Steel				
41293	31 in x 41 in x 4.5 in	500 lb	336 lb	$2,150.00
41294	31 in x 41 in x 4.5 in	1,000 lb	356 lb	2,150.00
41295	31 in x 41 in x 4.5 in	2,000 lb	373 lb	2,250.00
Stainless Steel				
41296	31 in x 41 in x 4.5 in	500 lb	336 lb	3,290.00
41297	31 in x 41 in x 4.5 in	1,000 lb	356 lb	3,290.00
41298	31 in x 41 in x 4.5 in	2,000 lb	373 lb	3,490.00
DECKHAND ROUGH-N-READY SYSTEM (SCALE AND INDICATOR PACKAGE)				
Mild Steel w/IQ plus 590-DC, 115 VAC Indicator				
69525	31 in x 41 in x 4.5 in	500 lb	343 lb*	2,725.00
69526	31 in x 41 in x 4.5 in	1,000 lb	363 lb*	2,725.00
69527	31 in x 41 in x 4.5 in	2,000 lb	380 lb*	2,825.00
Mild Steel w/IQ plus 590-DC, 230 VAC Indicator				
69528	31 in x 41 in x 4.5 in	500 lb	343 lb*	2,725.00
69529	31 in x 41 in x 4.5 in	1,000 lb	363 lb*	2,725.00
69530	31 in x 41 in x 4.5 in	2,000 lb	380 lb*	2,825.00

OPTIONS/ACCESSORIES

DeckHand Portable Scale & DeckHand Rough-n-Ready System			
43376	Ramp assembly, 500/1,000 lb, mild steel, 25 in x 27 in	100 lb	240.00
43378	Ramp assembly, 2,000 lb, mild steel, 25 in x 27 in	100 lb	285.00
43978	Additional DeckHand operating manual		25.00
DeckHand Portable Scale only			
89576	Clam shell for 1,260 load cell, stainless steel		170.00
43377	Ramp assembly, 500/1,000 lb, stainless steel, 25 in x 27 in		670.00
43379	Ramp assembly, 2,000 lb, stainless steel, 25 in x 27 in		775.00
DeckHand Portable Scale Optional Indicator Mounts			
41371	Mounting bracket for IQ 700 IS, 320IS with battery option stainless steel		90.00
43938	Mounting bracket for CW-80-I, stainless steel		90.00
N/A	Smooth top		N/C

* Approximate weight for scale and indicator

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RoughDeck® FXB

Painted Steel, Flexure Lever Floor Scale



APPROVALS

STANDARD FEATURES

- Unique flexure design filters motion and shock loading
- Spring steel flexures
- Rugged all-steel painted construction
- One Rice Lake Weighing Systems brand RL20000 series nickel-plated S-beam load cell and plated wire rope
- NTEP Certified models in sizes 24in x 24in (500lb) through 72in x 96in up to 10,000lb capacity

SPECIFICATIONS

APPROVALS:
NTEP Certified, CC# 95-062, Class III 5000d

END LOADING CAPACITY:
100% of scale capacity

SAFE OVERLOAD CAPACITY:
150% of scale capacity

WARRANTY:
Two-year limited warranty

PART #	SIZE (L x W x H)	CAPACITY	EST. SHIP WEIGHT	PRICE
33134	18in x 24in x 6.5in	500lb (250kg)	125lb	$4,175.00
33066	18in x 24in x 6.5in	1,000lb (500kg)	125lb	4,175.00
113566	18in x 30in x 6.5in	500lb (250kg)	133lb	4,175.00
33136	18in x 30in x 6.5in	1,000lb (500kg)	133lb	4,175.00
113567	18in x 30in x 6.5in	1,500lb (750kg)	133lb	4,175.00
33067	24in x 24in x 6.5in	500lb (250kg)	151lb	4,175.00
33068	24in x 24in x 6.5in	1,000lb (500kg)	151lb	4,175.00
33138	30in x 30in x 6.5in	500lb (250kg)	191lb	4,375.00
33069	30in x 30in x 6.5in	1,000lb (500kg)	191lb	4,375.00
33139	30in x 30in x 6.5in	1,500lb (750kg)	191lb	4,375.00
33070	30in x 30in x 8.25in	2,000lb (1000kg)	281lb	4,565.00
33140	36in x 36in x 8.25in	1,000lb (500kg)	234lb	4,565.00
33071	36in x 36in x 8.25in	2,000lb (1,000kg)	234lb	4,565.00
33072	36in x 36in x 8.25in	5,000lb (2,500kg)	234lb	4,565.00
33141	38in x 46in x 8.25in	1,000lb (500kg)	610lb	4,565.00
113569	38in x 46in x 8.25in	2,000lb (1,000kg)	610lb	4,565.00
113570	38in x 46in x 8.25in	5,000lb (2,500kg)	610lb	4,565.00
113571	38in x 46in x 8.25in	10,000lb (5,000kg)	715lb	5,265.00
113572	48in x 48in x 8.25in	1,000lb (500kg)	654lb	5,265.00
33073	48in x 48in x 8.25in	2,000lb (1,000kg)	654lb	5,265.00
33074	48in x 48in x 8.25in	5,000lb (2,500kg)	654lb	5,265.00
113573	48in x 48in x 9.25in	7,000lb (3,500kg)	735lb	5,835.00
33075	48in x 48in x 9.25in	10,000lb (5,000kg)	735lb	5,835.00
33076	48in x 48in x 13.25in	20,000lb (10,000kg)	1115lb	8,300.00
113574	48in x 60in x 8.25in	2,000lb (1,000kg)	764lb	6,020.00
33077	48in x 60in x 8.25in	5,000lb (2,500kg)	764lb	6,020.00
33078	48in x 60in x 9.25in	10,000lb (5,000kg)	845lb	6,700.00
113575	48in x 60in x 13.25in	20,000lb (10,000kg)	1300lb	9,965.00
113576	48in x 72in x 8.25in	2,000lb (1,000kg)	945lb	6,830.00
33149	48in x 72in x 9.25in	5,000lb (2,500kg)	1120lb	7,130.00
33080	48in x 72in x 9.25in	10,000lb (5,000kg)	1120lb	7,130.00
33150	48in x 72in x 13.25in	20,000lb (10,000kg)	1600lb	11,745.00
113577	60in x 60in x 8.25in	2,000lb (1,000kg)	967lb	6,940.00

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RoughDeck® FXB

Painted Steel, Flexure Lever Floor Scale

PART #	SIZE (L x W x H)	CAPACITY	EST. SHIP WEIGHT	PRICE
33081	60 in x 60 in x 8.25 in	5,000 lb (2,500 kg)	967 lb	$6,940.00
33082	60 in x 60 in x 9.25 in	10,000 lb (5,000 kg)	1180 lb	7,180.00
33152	60 in x 60 in x 13.25 in	20,000 lb (10,000 kg)	1674 lb	14,985.00
113578	60 in x 72 in x 10.25 in	5,000 lb (2,500 kg)	1290 lb	8,565.00
33083	60 in x 72 in x 10.25 in	10,000 lb (5,000 kg)	1290 lb	8,565.00
113579	60 in x 72 in x 13.25 in	20,000 lb (10,000 kg)	1700 lb	13,800.00
113580	60 in x 84 in x 10.25	5,000 lb (2,500 kg)	13800 lb	8,865.00
33156	60 in x 84 in x 13.25 in	10,000 lb (5,000 kg)	1400 lb	11,030.00
33157	60 in x 84 in x 13.25 in	20,000 lb (10,000 kg)	1900 lb	13,330.00

OPTIONS/ACCESSORIES

Forklift skid, FXB-3846 through FXB-6084 provides two 8-channels mounted on customer specified centers. Includes 4 leveling feet on base $520.00

Forklift skid with indicator column, FXB-3846 through FXB-6084 provides two 8-channel mounted on customer specified centers with one of the channels extended 12 inches and equipped with bolt on indicator column. Indicator display will be 54 inches above floor level $630.00

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RoughDeck® FXB

Stainless Steel, Flexure Lever Floor Scale



APPROVALS

STANDARD FEATURES

- Unique flexure design filters motion and shock loading
- All 304 stainless steel construction
- Stainless flexures, hardware and load cell
- NTEP Certified models in sizes 24in x 24in (500lb) through 72in x 96in up to 10,000lb capacity
- Two-year limited warranty

SPECIFICATIONS

APPROVALS:
NTEP Certified, CC# 95-062, Class III 5000d

END LOADING CAPACITY:
100% of scale capacity

SAFE OVERLOAD CAPACITY:
150% of scale capacity

WARRANTY:
Two-year limited warranty

PART #	CAPACITY	CAPACITY	EST. SHIP WEIGHT	PRICE
113581	24in x24in x6.5in	500 (250kg)	151lb	$5,490
113582	24in x24in x6.5in	1000 (500kg)	151lb	5,490
113583	30in x 30in x 6.5in	500 (250kg)	191lb	6,390
113584	30in x 30in x 6.5in	1000 (500kg)	191lb	6,390
113585	30in x 30in x 6.5in	1500 (750kg)	191lb	8,310
113586	30in x 30in x 8.25in	2000 (1000kg)	281lb	8,310
113587	36in x 36in x 8.25in	1000 (500kg)	450lb	9,090
113588	36in x 36in x 8.25in	2000 (1000kg)	450lb	9,090
113589	36in x 36in x 8.25in	5000 (2500kg)	450lb	9,090
113590	38in x 46in x 8.25in	1000 (500kg)	610lb	10,710
113591	38in x 46in x 8.25in	2000 (1000kg)	610lb	10,710
113592	38in x 46in x 8.25in	5000 (2500kg)	610lb	10,710
113593	48in x 48in x 8.25in	1000 (500kg)	630lb	12,110
113594	48in x 48in x 8.25in	2000 (1000kg)	630lb	12,110
113595	48in x 48in x 8.25in	5000 (2500kg)	630lb	12,110
113596	48in x 48in x 11.25in	10,000 (5000kg)	735lb	15,110
113603	48in x 60in x 8.25in	2000 (1000kg)	764lb	14,675
113604	48in x 60in x 8.25in	5000 (2500kg)	764lb	14,675
113605	48in x 60in x 11.25in	10,000 (5000kg)	845lb	16,000
113606	48in x 72in x 8.25in	2000 (1000kg)	945lb	15,400
113607	48in x 72in x 9.25in	5000 (2500kg)	1120lb	15,400
113608	48in x 72in x 11.25in	10,000 (5000kg)	1120lb	19,590
113609	60in x 60in x 8.25in	2000 (1000kg)	967lb	14,925
113610	60in x 60in x 8.25in	5000 (2500kg)	967lb	14,925
113611	60in x 60in x 11.25in	10,000 (5000kg)	1180lb	20,425
113612	60in x 72in x 10.25in	5000 (2500kg)	1290lb	17,900
113613	60in x 72in x 11.25in	10,000 (5000kg)	1290lb	21,775

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SURVIVOR® FB Series

Electronic Flexure Base Floor Scale



STANDARD FEATURES

- Unique flexure design filters motion and shock loading
- Stainless steel flexures
- Rugged all-steel construction
- One S-type, double-plated load cell
- NTEP Certified

APPROVALS

SPECIFICATIONS

APPROVALS:
NTEP Certified, CC# 91-138,
Class III 5000d

ELECTRICAL:
Excitation: 10 VDC - 15 VDC max
Nonlinearity: .03% FS
Hystereses: .02% FS
Bridge resistance: 350 ohms
Output: 3.0 mV/V

LOAD CELL CONSTRUCTION:
High-alloy tool steel, double plated chrome over nickel

END LOADING CAPACITY:
100% of scale capacity

SAFE OVERLOAD CAPACITY:
150% of scale capacity

WARRANTY:
Two-year limited warranty

DIMENSIONS

FB BASES	PART #	CAPACITY	SIZE (L x W x H)	EST. SHIP WEIGHT	PRICE
FB2424-500	18696	500 lb (250 kg)	24 in x 24 in x 7.25 in	180 lb	$3,040.00
FB2424-1000	18697	1,000 lb (500 kg)	24 in x 24 in x 7.25 in	180 lb	3,400.00
FB3030-1000	18728	1,000 lb (500 kg)	30 in x 30 in x 7.25 in	215 lb	3,835.00
*FB3030-2000	18733	2,000 lb (1000 kg)	30 in x 30 in x 8.25 in	232 lb	4,145.00
FB3030-5000	18730	5,000 lb (2500 kg)	30 in x 30 in x 8.00 in	225 lb	5,430.00
*FB3636-3000	18698	3,000 lb (1500 kg)	36 in x 36 in x 8.25 in	275 lb	4,485.00
FB4848-3000	18732	3,000 lb (1500 kg)	48 in x 48 in x 8.00 in	740 lb	7,560.00
*FB4848-5000	18699	5,000 lb (2500 kg)	48 in x 48 in x 8.00 in	740 lb	7,560.00
* FB4848-10,000	18700	10,000 lb (5000 kg)	48 in x 48 in x 10.00 in	770 lb	8,570.00
*FB4860-5000	18702	5,000 lb (2500 kg)	48 in x 60 in x 10.00 in	850 lb	8,725.00
*FB4860-10,000	18703	10,000 lb (5000 kg)	48 in x 60 in x 10.00 in	888 lb	9,350.00
*FB4872-5000	18705	5,000 lb (2500 kg)	48 in x 72 in x 11.25 in	1,275 lb	9,590.00
*FB4872-10,000	18706	10,000 lb (5000 kg)	48 in x 72 in x 11.25 in	1,325 lb	10,280.00
*FB6060-5000	18708	5,000 lb (2500 kg)	60 in x 60 in x 10.00 in	1,025 lb	9,810.00
*FB6060-10,000	18709	10,000 lb (5000 kg)	60 in x 60 in x 10.00 in	1,045 lb	10,550.00

* NTEP Certified

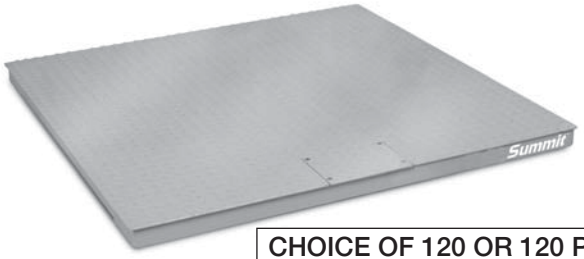
OPTIONS/ACCESSORIES

19352	RoughDeck floor stand for indicator				205.00
16940	Additional operating manual				10.00
Fork lift skid with fixed pedestals					
18747	FBP48	48 in	52 lb		290.00
18748	FBP60	60 in	64 lb		300.00

SURVIVOR® FB Series F.O.B. Santa Rosa, CA

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Floor Scale and Indicator Package



Package is configured, corner-trimmed, and calibrated for 5,000 divisions before shipping

CHOICE OF 120 OR 120 PLUS



FLOOR SCALE APPROVALS

Measurement Canada Approved

INDICATOR APPROVALS

c UL us LISTED

Measurement Canada Approved*

CE

* 120 Plus - Approvals pending for Measurement Canada

STANDARD FEATURES

Summit™ 3000 Floor Scale

- Four NTEP Certified alloy steel shear beam load cells
- Top access junction box
- Rugged diamond safety treadplate steel deck
- Four adjustable rigid polyurethane rubber feet, 3in (76.2mm) diameter
- Signal trim summing board housed in ABS enclosure
- Threaded eyebolt hole (1/2–13NC) located in the center of the deck for easy lifting
- 20ft of EL147 load cell cable with quick disconnect
- Package configured and calibrated for 5,000 divisions

120 Digital Weight Indicator

- Large .8in (20.3mm) Light Emitting Diode (LED) display
- Five-button operation
- Full front panel digital calibration and configuration

120 PLUS Digital Weight Indicator

- Large .8in backlit Liquid Crystal Display (LCD)
- 115 or 230VAC wall adaptor with rechargeable battery

SPECIFICATIONS

SUMMIT 3000 FLOOR SCALE

APPROVALS:
NTEP Certified, CC# 92-001A9;
Measurement Canada approved, AM-5530

END LOAD CAPACITY
100% full scale at 5000lb (2500kg)
80% full scale at 10,000lb (5000kg)

CABLE LENGTH:
20ft (6.1m) (for connecting j-box to indicator)

WARRANTY:
Two-year limited warranty

120/120 PLUS DIGITAL WEIGHT INDICATOR

OPERATING TEMPERATURE:
-10°C to 40°C/14°F to 104°F (legal)
-10°C to 50°C/14°F to 122°F (industrial)

RATING/MATERIAL:
Enclosure: heavy gauge ABS

120 APPROVALS:
NTEP Certified 6,000 Divisions, Class III/IIIL,
CC# 03-059; Measurement Canada approved, AM-5517,
Class III/IIIHD at 6,000 Divisions; TC7072; T 5692 at 5,000 Divisions;
CE marked

120 PLUS APPROVALS:
NTEP Certified 6,000 Divisions, Class III/IIIL, CC# 03-059; Measurement Canada Pending, OIML approved, TC 7335; T7334 at 10,000 Divisions

WARRANTY:
1-year limited warranty

FLOOR SCALE AND INDICATOR PACKAGE

Package includes DIGI® Summit® 3000 floor scale, 120 PLUS digital weight indicator with tilt stand, 20ft load cell cable with quick disconnect, configured and calibrated

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Floor Scale and Indicator Package

PART #	SIZE (W x L x H)	CAPACITY	EST. SHIP WEIGHT	PRICE

FLOOR SCALE AND INDICATOR PACKAGE (SINGLE SCALE)

Package includes DIGI® Summit® 3000 floor scale, 120 PLUS digital weight indicator with tilt stand, 20 ft load cell cable with quick disconnect, configured and calibrated

115 VAC (120)

78772	4 ft x 4 ft x 3.625 in	5,000 lb x 1 lb	315 lb	$1,475.00
78773	4 ft x 4 ft x 3.625 in	10,000 lb x 2 lb	315 lb	1,475.00

115 VAC (120 PLUS)

106913	4 ft x 4 ft x 3.625 in	5,000 lb x 1 lb	315 lb	1,625.00
106914	4 ft x 4 ft x 3.625 in	10,000 lb x 2 lb	315 lb	1,625.00

230 VAC (120)

78780	4 ft x 4 ft x 3.625 in	5,000 lb x 1 lb	315 lb	1,475.00
78781	4 ft x 4 ft x 3.625 in	10,000 lb x 2 lb	315 lb	1,475.00

230 VAC (120 PLUS)

106915	4 ft x 4 ft x 3.625 in	5,000 lb x 1 lb	315 lb	1,625.00
106916	4 ft x 4 ft x 3.625 in	10,000 lb x 2 lb	315 lb	1,625.00

115 VAC Canadian Weights and Measures (120)

78776	4 ft x 4 ft x 3.625 in	2,500 kg x 0.5 kg	315 lb	1,475.00
78777	4 ft x 4 ft x 3.625 in	5,000 kg x 1 kg	315 lb	1,475.00

115 VAC Canadian Weights and Measures (120 PLUS)

106917	4 ft x 4 ft x 3.625 in	2,500 kg x 0.5 kg	315 lb	1,625.00
106918	4 ft x 4 ft x 3.625 in	5,000 kg x 1 kg	315 lb	1,625.00

FLOOR SCALE AND INDICATOR PACKAGE (5-SCALE PACKAGE)

Packages include five DIGI® Summit® 3000 floor scales, five 120/120 PLUS digital weight indicators with tilt stands, five 20 ft load cell cables with quick disconnect, configured and calibrated

115 VAC (120)

78774	4 ft x 4 ft x 3.625 in	5,000 lb x 1 lb	1665 lb	7,075.00
78775	4 ft x 4 ft x 3.625 in	10,000 lb x 2 lb	1665 lb	7,075.00

115 VAC (120 PLUS)

106929	4 ft x 4 ft x 3.625 in	5,000 lb x 1 lb	1665 lb	7,825.00
106930	4 ft x 4 ft x 3.625 in	10,000 lb x 2 lb	1665 lb	7,825.00

230 VAC (120)

78782	4 ft x 4 ft x 3.625 in	5,000 lb x 1 lb	1665 lb	7,075.00
78783	4 ft x 4 ft x 3.625 in	10,000 lb x 2 lb	1665 lb	7,075.00

230 VAC (120 PLUS)

106931	4 ft x 4 ft x 3.625 in	5,000 lb x 1 lb	1665 lb	7,825.00
106932	4 ft x 4 ft x 3.625 in	10,000 lb x 2 lb	1665 lb	7,825.00

115 VAC Canadian Weights and Measures (120)

78778	4 ft x 4 ft x 3.625 in	2,500 kg x 0.5 kg	1665 lb	7,075.00
78779	4 ft x 4 ft x 3.625 in	5,000 kg x 1 kg	1665 lb	7,075.00

115 VAC Canadian Weights and Measures (120 PLUS)

106933	4 ft x 4 ft x 3.625 in	2,500 kg x 0.5 kg	1665 lb	7,825.00
106934	4 ft x 4 ft x 3.625 in	5,000 kg x 1 kg	1665 lb	7,825.00

OPTIONS/ACCESSORIES

DIGI® Summit® 3000 Floor Scale

75819	Floor anchor plates, mild steel (set of two)	25.00
76012	Additional operating manual	10.00

120 Digital Weight Indicator

77925	Revolution® III Scale Software*	35.00
78611	Additional power supply, 115 VAC	25.00
76699	Additional operating manual	25.00

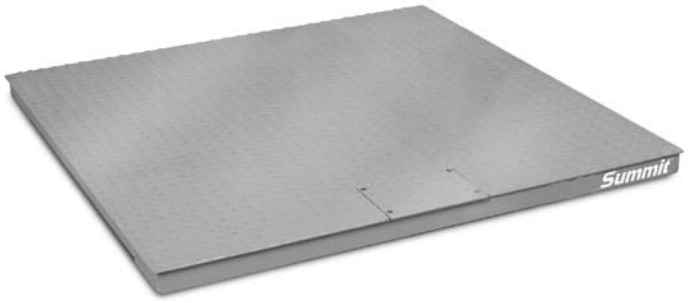
* Revolution® III can be downloaded for free from the distributor section of our Web site at www.ricelake.com

Access ramps, pit frames, bumper guards and portability frames available. See pages F-31 thru F-37

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Summit® 3000

Low-Profile Floor Scale



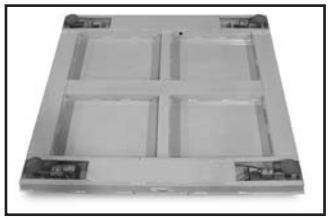
APPROVALS

Measurement Canada Approved

F M APPROVED LOAD CELLS

STANDARD FEATURES

- Four NTEP Certified alloy steel shear beam load cells
- Top access junction box
- Rugged diamond safety treadplate steel deck
- Four adjustable rigid polyurethane rubber feet, 3in (76.2mm) diameter
- Signal trim summing board housed in ABS enclosure
- Threaded eyebolt hole (1/2–13NC) located in center of the deck for easy lifting
- 20ft of EL147 load cell cable
- Two-year limited warranty



The load cell cable exits weldment toward the interior of scale, allowing flexibility to route it out any side of scale to digital weight indicator.

SPECIFICATIONS

APPROVALS:
NTEP Certified, CC# 03-014A1; Measurement Canada approved, AM-5530

END LOAD CAPACITY:
100% full scale at 2,000lb and 5,000lb
80% full scale at 10,000lb

CABLE LENGTH:
20ft (6.1m) (for connecting j-box to indicator)

WARRANTY:
Two-year limited warranty

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Summit® 3000

Low-Profile Floor Scale

PART #	SIZE (W x L x H)*	CAPACITY	EST. SHIP WEIGHT	PRICE
Single Scale				
74715	3 ft x 3 ft x 3.625 in	2,000 lb	190 lb	$1,150.00
74716	4 ft x 4 ft x 3.625 in	2,000 lb	305 lb	1,250.00
74717	4 ft x 4 ft x 3.625 in	5,000 lb	305 lb	1,250.00
74718	4 ft x 4 ft x 3.625 in	10,000 lb	305 lb	1,250.00
74719	4 ft x 5 ft x 3.625 in	5,000 lb	395 lb	1,350.00
74720	4 ft x 5v x 3.625 in	10,000 lb	445 lb	1,530.00
74721	4 ft x 6 ft x 3.625 in	5,000 lb	470 lb	1,440.00
74722	4 ft x 6 ft x 3.625 in	10,000 lb	525 lb	1,715.00
74723	5 ft x 5 ft x 3.625 in	5,000 lb	505 lb	1,455.00
74724	5 ft x 5 ft x 3.625 in	10,000 lb	575 lb	1,760.00
Single Scale–Canadian Weights and Measures certified				
77440	3 ft x 3 ft x 3.625 in	1,000 kg	190 lb	1,150.00
77373	4 ft x 4 ft x 3.625 in	1,000 kg	305 lb	1,250.00
77346	4 ft x 4 ft x 3.625 in	2,500 kg	305 lb	1,250.00
77347	4 ft x 4 ft x 3.625 in	5,000 kg	305 lb	1,250.00
82880	4 ft x 5 ft x 3.625 in	2,500 kg	395 lb	1,350.00
82881	4 ft x 5 ft x 3.625 in	5,000 kg	445 lb	1,530.00
77348	5 ft x 5 ft x 3.625 in	2,500 kg	505 lb	1,455.00
77349	5 ft x 5 ft x 3.625 in	5,000 kg	575 lb	1,760.00
5-Scale Package				
75809	3 ft x 3 ft x 3.625 in	2,000 lb	850 lb	5,500.00
75810	4 ft x 4 ft x 3.625 in	2,000 lb	1,400 lb	6,000.00
75811	4 ft x 4 ft x 3.625 in	5,000 lb	1,400 lb	6,000.00
75812	4 ft x 4 ft x 3.625 in	10,000 lb	1,400 lb	6,000.00
75813	4 ft x 5 ft x 3.625 in	5,000 lb	1,870 lb	6,500.00
75814	4 ft x 5 ft x 3.625 in	10,000 lb	2,115 lb	7,400.00
75815	4 ft x 6 ft x 3.625 in	5,000 lb	2,210 lb	6,950.00
75816	4 ft x 6 ft x 3.625 in	10,000 lb	2,495 lb	8,325.00
75817	5 ft x 5 ft x 3.625 in	5,000 lb	2,325 lb	7,025.00
75818	5 ft x 5 ft x 3.625 in	10,000 lb	2,675 lb	8,550.00
5-Scale–Canadian Weights and Measures certified				
77472	3 ft x 3 ft x 3.625 in	1,000 kg	850 lb	5,500.00
77473	4 ft x 4 ft x 3.625 in	1,000 kg	1,400 lb	6,000.00
77474	4 ft x 4 ft x 3.625 in	2,500 kg	1,400 lb	6,000.00
77475	4 ft x 4 ft x 3.625 in	5,000 kg	1,400 lb	6,000.00
82885	4 ft x 5 ft x 3.625 in	2,500 kg	1,870 lb	6,500.00
82886	4 ft x 5 ft x 3.625 in	5,000 kg	2,115 lb	7,400.00
77476	5 ft x 5 ft x 3.625 in	2,500 kg	2,325 lb	7,025.00
77477	5 ft x 5 ft x 3.625 in	5,000 kg	2,675 lb	8,550.00

OPTIONS/ACCESSORIES

75819	Floor anchor plates, mild steel (set of two)			25.00
32375**	14-pin load cell connector, Amphenol			20.00
35319**	14-pin connector with 20 ft cable			70.00
N/A	Top access foot adjust holes			40.00
76012	Additional operating manual			10.00
Access Ramps				
74953***	3 ft x 3 ft x 3.625 in		133 lb	330.00
74954***	4 ft x 3 ft x 3.625 in		177 lb	360.00
74955***	5 ft x 3 ft x 3.625 in		226 lb	410.00
74956	3 ft x 4 ft x 3.625 in		177 lb	385.00
74957	4 ft x 4 ft x 3.625 in		224 lb	430.00
74958	5 ft x 4 ft x 3.625 in		272 lb	460.00
Pit Frames				
75036	3 ft x 3 ft		100 lb	315.00
75037	4 ft x 4 ft		125 lb	405.00
75040	5 ft x 5 ft		155 lb	500.00
75038	4 ft x 5 ft		140 lb	455.00
75039	4 ft x 6 ft		157 lb	500.00

* For custom sizes or capacities please consult factory for RoughDeck® HP pricing

** For use with DC-190 counting scales ***Not recommended for use with pallet jacks

RoughDeck® SLV

Single Animal Livestock Scale



Scale shown with optional chute

STANDARD FEATURES

- Mild steel construction
- Rugged diamond safety treadplate deck
- Rigid structural steel channel frame
- NEMA 4X aluminum side-access junction box without quick connector
- Signal trim summing board
- Four adjustable stainless steel SUREFOOT™ support feet
- 20ft SURVIVOR® EL147HE hostile environment load cell cable
- Four alloy steel load cells
- Five-year limited warranty



Optional gate, racks, and kick plates.

APPROVALS

Single animal use

SPECIFICATIONS

END LOAD CAPACITY:
125% full scale

CABLE LENGTH:
20ft (6m)

APPROVALS:
NTEP certified, CC #92-001A9
Class III emin = 1lb

WARRANTY:
Five-year limited warranty (scale only)

PART #	SIZE	CAPACITY	EST. SHIP WEIGHT	PRICE
78452	3ft x 8ft	4,000lb	565lb	$2,045.00
78453	4ft x 8ft	4,000lb	750lb	2,145.00
103617	3ft x 8ft	4,000lb (with modifications for optional gate, racks, kick plates to be attached)	565lb	2,045.00
103619	4ft x 8ft	4,000lb (with modifications for optional gate, racks, kick plates to be attached)	750lb	2,145.00

OPTIONS/ACCESSORIES

N/A	Smooth deck instead of diamond safety tread plate		N/C
N/A	Stainless steel load cells (RL35023S) and stainless steel junction box		705.00
N/A	Stainless steel welded-seal IP67 load cells (RL35082) and stainless steel junction box		1,170.00
N/A	Angle iron bolted to scale for wood deck provisions (wood to be supplied by customer)		200.00
103618	Gate, Racks & Kick plates for 3ft x 8ft scale	600lbs	3,350.00
103463	Gate, Racks & Kick plates for 4ft x 8ft scale	700lbs	3,500.00

Consult factory for these additional options:

N/A	Chutes for use with 4ft x 8ft scale only		

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RoughDeck® HP, HP-H, SS and HE

Access Ramps



PART #	SIZE (W x †L x H)	EST. SHIP WEIGHT	PRICE
RoughDeck HP: 1,000 lb–10,000 lb			
69040*	2.5 ft x 3 ft x 3.5 in	115 lb	$310.00
69041*	3 ft x 3 ft x 3.5 in	133 lb	330.00
69042*	4 ft x 3 ft x 3.5 in	177 lb	360.00
69043*	5 ft x 3 ft x 3.5 in	226 lb	410.00
69184	2.5 ft x 4 ft x 3.5 in	152 lb	360.00
69185	3 ft x 4 ft x 3.5 in	177 lb	385.00
69186	4 ft x 4 ft x 3.5 in	224 lb	430.00
69187	5 ft x 4 ft x 3.5 in	272 lb	460.00
RoughDeck HP-H: 20,000 lb			
69204	4 ft x 4 ft x 4 in	487 lb	765.00
69205	5 ft x 4 ft x 4 in	591 lb	870.00
69206	6 ft x 4 ft x 4 in	689 lb	920.00
69207	7 ft x 4 ft x 4 in	822 lb	1,065.00
69208	8 ft x 4 ft x 4 in	1005 lb	1,180.00
RoughDeck HP-H: 30,000 lb			
69210	4 ft x 5 ft x 5 in	666 lb	945.00
69211	5 ft x 5 ft x 5 in	806 lb	1,050.00
69212	6 ft x 5 ft x 5 in	942 lb	1,150.00
69213	7 ft x 5 ft x 5 in	1116 lb	1,305.00
69214	8 ft x 5 ft x 5 in	1337 lb	1,510.00
RoughDeck SS and HE: 1,000 lb–10,000 lb			
69178*	2.5 ft x 3 ft x 3.5 in	115 lb	945.00
69179*	3 ft x 3 ft x 3.5 in	133 lb	945.00
69180*	4 ft x 3 ft x 3.5 in	177 lb	1,155.00
69189	2.5 ft x 4 ft x 3.5 in	152 lb	1,050.00
69190	3 ft x 4 ft x 3.5 in	177 lb	1,155.00
69191	4 ft x 4 ft x 3.5 in	224 lb	1,570.00
69192	5 ft x 4 ft x 3.5 in	272 lb	1,770.00

* Not recommended for use with pallet jacks

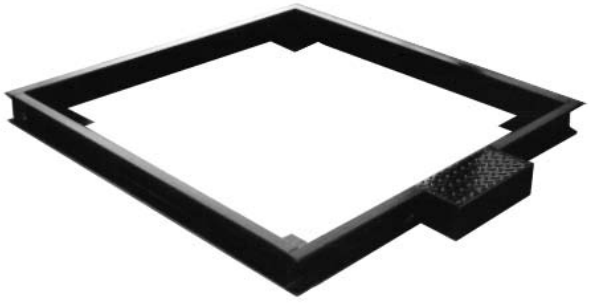
† Approach length (must match width of ramp with width of scale)

NOTE: Part numbered ramps are designed to fit scale on sides perpendicular to j-box. The j-box is always on longest side of scale unless specified differently.

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RoughDeck HP, HP–H, SS and HE

Pit Frames



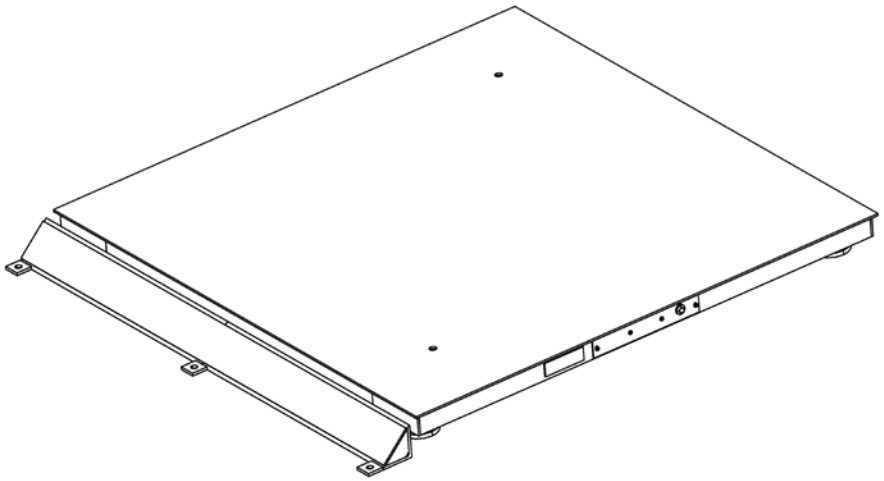
PART #	SIZE (W x L)	EST. SHIP WEIGHT	PRICE
RoughDeck HP: 1,000 lb–10,000 lb			
18757	2.5 ft x 2.5 ft	88 lb	$285.00
18759	3 ft x 3 ft	102 lb	315.00
18761	4 ft x 4 ft	127 lb	405.00
18763	5 ft x 5 ft	154 lb	500.00
18765	4 ft x 5 ft	140 lb	455.00
18767	4 ft x 6 ft	157 lb	500.00
18769	5 ft x 6 ft	172 lb	550.00
18771	5 ft x 7 ft	185 lb	590.00
RoughDeck HP-H: 20,000 lb			
39595	4 ft x 4 ft	309 lb	495.00
39596	4 ft x 5 ft	352 lb	530.00
39597	4 ft x 6 ft	391 lb	575.00
39598	4 ft x 7 ft	459 lb	655.00
39599	5 ft x 5 ft	411 lb	600.00
39600	5 ft x 6 ft	460 lb	685.00
39601	5 ft x 7 ft	473 lb	715.00
39602	6 ft x 6 ft	583 lb	795.00
39603	6 ft x 7 ft	597 lb	825.00
39604	6 ft x 8 ft	610 lb	870.00
39605	7 ft x 9 ft	683 lb	925.00
39606	7 ft x 10 ft	781 lb	975.00
39607	8 ft x 10 ft	795 lb	1,015.00
RoughDeck HP-H: 30,000 lb			
39608	4 ft x 4 ft	356 lb	590.00
39609	4 ft x 5v	402 lb	620.00
39610	4 ft x 6 ft	444 lb	675.00
39611	4 ft x 7 ft	516 lb	745.00
39612	5 ft x 5 ft	464 lb	715.00
39613	5 ft x 6 ft	498 lb	755.00
39614	5 ft x 7 ft	533 lb	795.00
39615	6 ft x 6 ft	643 lb	920.00
39619	7 ft x 10 ft	850 lb	1,025.00
39620	8 ft x 10 ft	875 lb	1,065.00
RoughDeck SS and HE: 1,000 lb - 10,000 lb			
18758	2.5 ft x 2.5 ft	88 lb	910.00
18760	3 ft x 3 ft	102 lb	910.00
18762	4 ft x 4 ft	127 lb	1,210.00
18764	5 ft x 5 ft	154 lb	1,500.00
18766	4 ft x 5 ft	140 lb	1,355.00
18772	5 ft x 7 ft	185 lb	1,785.00

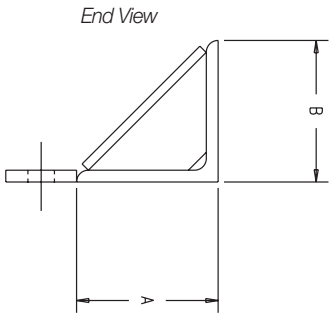
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Bumper Guards

Option A





Anchor bolt size required:
1/2 in dia. *(Not Included)*

Construction:
RoughDeck® HP & HP-H versions
(Mild steel, painted safety yellow)

RoughDeck® SS/HE
(304 stainless steel)

Model	A	B
RoughDeck HP	3 in	3 in
RoughDeck SS/HE	3 in	3 in
RoughDeck HP-H	4 in	4 in

LENGTH (FT)	ROUGHDECK HP	PRICE EACH	ROUGHDECK SS/HE	PRICE EACH	ROUGHDECK HP-H	PRICE EACH
2.5	86815	$125.00	86824	$215.00	86833	$215.00
3.0	86816	150.00	86825	255.00	86834	255.00
4.0	86817	200.00	86826	340.00	86835	340.00
5.0	86818	250.00	86827	425.00	86836	425.00
6.0	86819	300.00	86828	510.00	86837	510.00
7.0	86820	350.00	86829	595.00	86838	595.00
8.0	86821	400.00	86830	680.00	86839	680.00
9.0	86822	450.00	86831	765.00	86840	765.00
10.0	86823	500.00	86832	850.00	86841	850.00

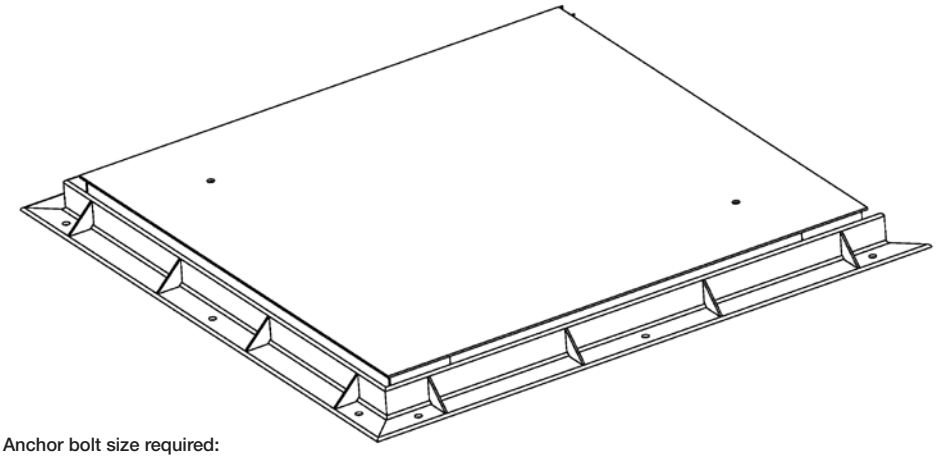
ACCESSORIES

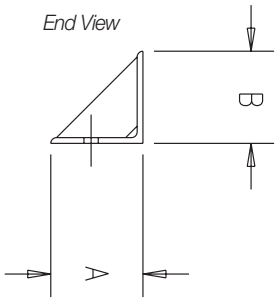
PART #	DESCRIPTION	SUGGESTED LIST PRICE
18777	Floor anchor plates, mild steel (set of two), RoughDeck HP	$30.00
18778	Floor anchor plates, stainless steel (set of two), RoughDeck SS/HE	32.00
40387	Floor anchor plates, mild steel (set of two), RoughDeck HP-H 20k	42.00
40388	Floor anchor plates, mild steel (set of two), RoughDeck HP-H 30k	42.00

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Bumper Guards

Option B





Anchor bolt size required:
1/2 in dia. *(Not Included)*

Construction:
RoughDeck® HP & HP-H versions
(Mild steel, Painted safety yellow)

RoughDeck ®SS/HE
(304 stainless steel)

Note: If you plan to surround scale on all four sides with bumper guards, option B, please contact factory as a special bumper guard must be made to accommodate the home run cable exit.

Model	A	B
RoughDeck HP	3 in	3 in
RoughDeck SS/HE	3 in	3 in
RoughDeck HP-H	4 in	4 in

LENGTH (FT)	ROUGHDECK HP	PRICE EACH	ROUGHDECK SS/HE	PRICE EACH	ROUGHDECK HP-H	PRICE EACH
2.5	86843	$120.00	86852	$175.00	86861	$175.00
3.0	86844	145.00	86853	210.00	86862	210.00
4.0	86845	195.00	86854	280.00	86863	280.00
5.0	86846	240.00	86855	350.00	86864	350.00
6.0	86847	290.00	86856	420.00	86865	420.00
7.0	86848	340.00	86857	490.00	86866	490.00
8.0	86849	385.00	86858	560.00	86867	560.00
9.0	86850	435.00	86859	630.00	86868	630.00
10.0	86851	480.00	86860	700.00	86869	700.00

ACCESSORIES

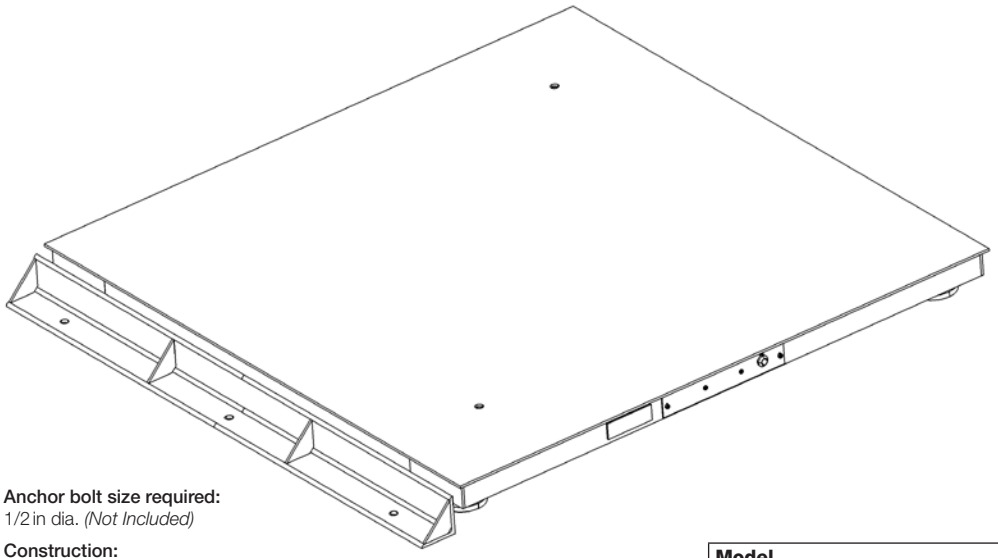
PART #	DESCRIPTION	SUGGESTED LIST PRICE
18777	Floor anchor plates, mild steel (set of two), RoughDeck HP	$30.00
18778	Floor anchor plates, stainless steel (set of two), RoughDeck SS/HE	32.00
40387	Floor anchor plates, mild steel (set of two), RoughDeck HP-H 20k	42.00
40388	Floor anchor plates, mild steel (set of two), RoughDeck HP-H 30k	42.00

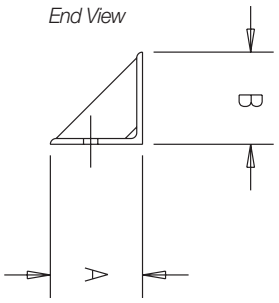
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Bumper Guards

Option C





Anchor bolt size required:
1/2 in dia. *(Not Included)*

Construction:
RoughDeck® HP & HP-H versions
(Mild steel, Painted safety yellow)

RoughDeck® SS/HE
(304 stainless steel)

Model	A	B
RoughDeck HP	3 in	3 in
RoughDeck SS/HE	3 in	3 in
RoughDeck HP-H	4 in	4 in

LENGTH (FT)	ROUGHDECK HP	PRICE EACH	ROUGHDECK SS/HE	PRICE EACH	ROUGHDECK HP-H	PRICE EACH
2.5	86870	$80.00	86879	$155.00	86888	$155.00
3.0	86871	100.00	86880	190.00	86889	190.00
4.0	86872	130.00	86881	250.00	86890	250.00
5.0	86873	160.00	86882	310.00	86891	310.00
6.0	86874	195.00	86883	375.00	86892	375.00
7.0	86875	225.00	86884	435.00	86893	435.00
8.0	86876	260.00	86885	500.00	86894	500.00
9.0	86877	290.00	86886	560.00	86895	560.00
10.0	86878	320.00	86887	620.00	86896	620.00

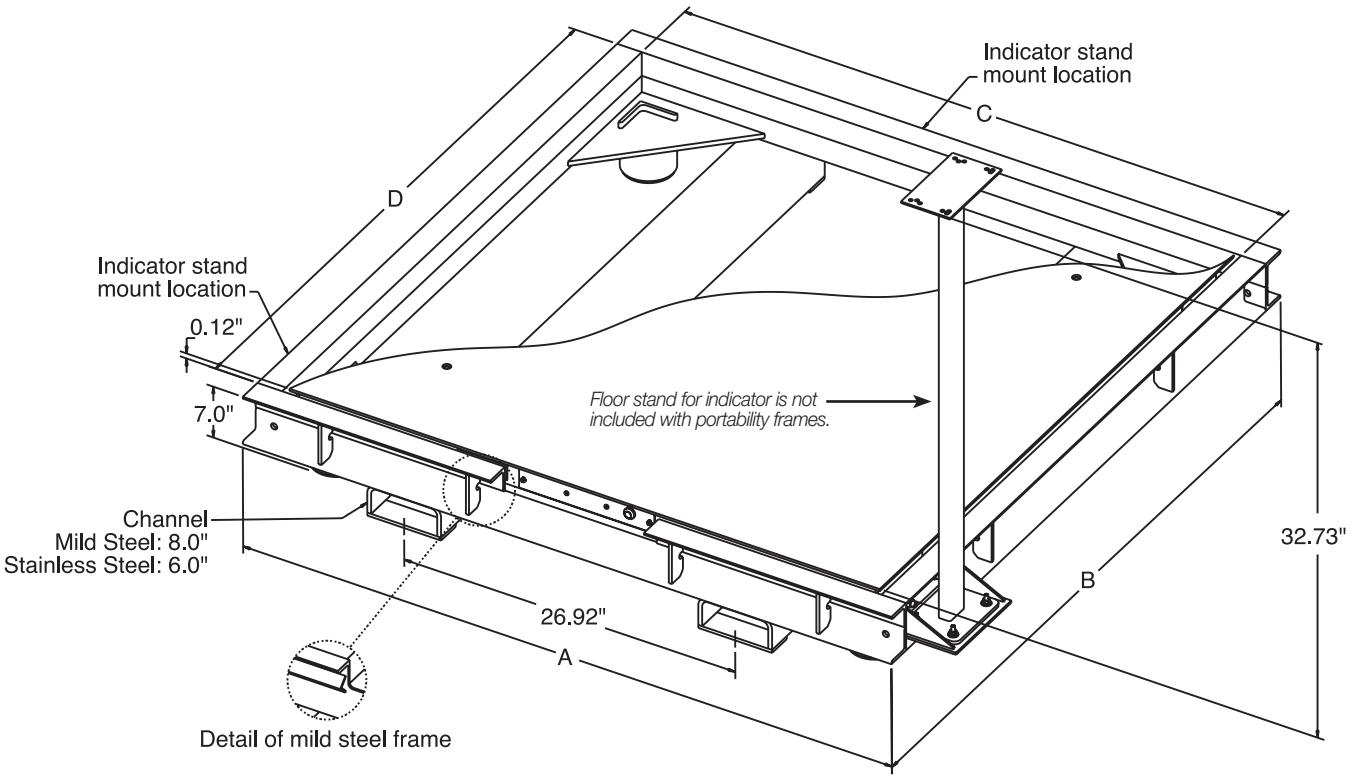
ACCESSORIES

PART #	DESCRIPTION	SUGGESTED LIST PRICE
18777	Floor anchor plates, mild steel (set of two), RoughDeck HP	$30.00
18778	Floor anchor plates, stainless steel (set of two), RoughDeck SS/HE	32.00
40387	Floor anchor plates, mild steel (set of two), RoughDeck HP-H 20k	42.00
40388	Floor anchor plates, mild steel (set of two), RoughDeck HP-H 30k	42.00

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RoughDeck® HP and SS

Portability Frames



PORTABILITY FRAME DIMENSIONS		
4ft x 4ft		
A	Mild Steel: 51.92in (1318mm)	Stainless Steel: 52.75in (1339mm)
B	Mild Steel: 51.92in (1318mm)	Stainless Steel: 52.75in (1339mm)
C	48.75in (1238mm)	
D	48.75in (1238mm)	
5ft x 5ft		
A	63.92in (1623mm) Mild Steel	64.75in (1644mm) Stainless Steel
B	63.92in (1623mm) mild steel	64.75in (1644mm) stainless steel
C	60.75in (1543mm)	
D	60.75in (1543mm)	
Distance from floor to inside of strap on the fork entry		
	Mild Steel: 3/4in	Stainless Steel: 1/2in
Distance from inside of strap to top of the fork entry		
	Mild Steel: 2in	Stainless Steel: 2 1/4in

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RoughDeck® HP and SS

Portability Frames

PART #	SIZE (W x L x H)	EST. SHIP WEIGHT	SUGGESTED PRICE
RoughDeck HP Portability Frames			
77943	4 ft x 4 ft	260 lb	$700.00
77944	5 ft x 5 ft	385 lb	795.00
19352	Floor stand for indicator, 36.3 in high, mild steel*	11 lb	205.00
79068	Indicator stand mounting bracket	5 lb	40.00
RoughDeck SS Portability Frames			
77945	4 ft x 4 ft	260 lb	2,200.00
77946	5 ft x 5 ft	385 lb	2,500.00
28740	Floor stand for indicator, 36.3 in high, stainless steel*	11 lb	310.00
79069	Indicator stand mounting bracket	5 lb	65.00

* Works with IQ plus® 310, IQ plus 355, IQ plus 390 DC, IQ plus 590 DC, IQ 700, UMC444, and UMC555

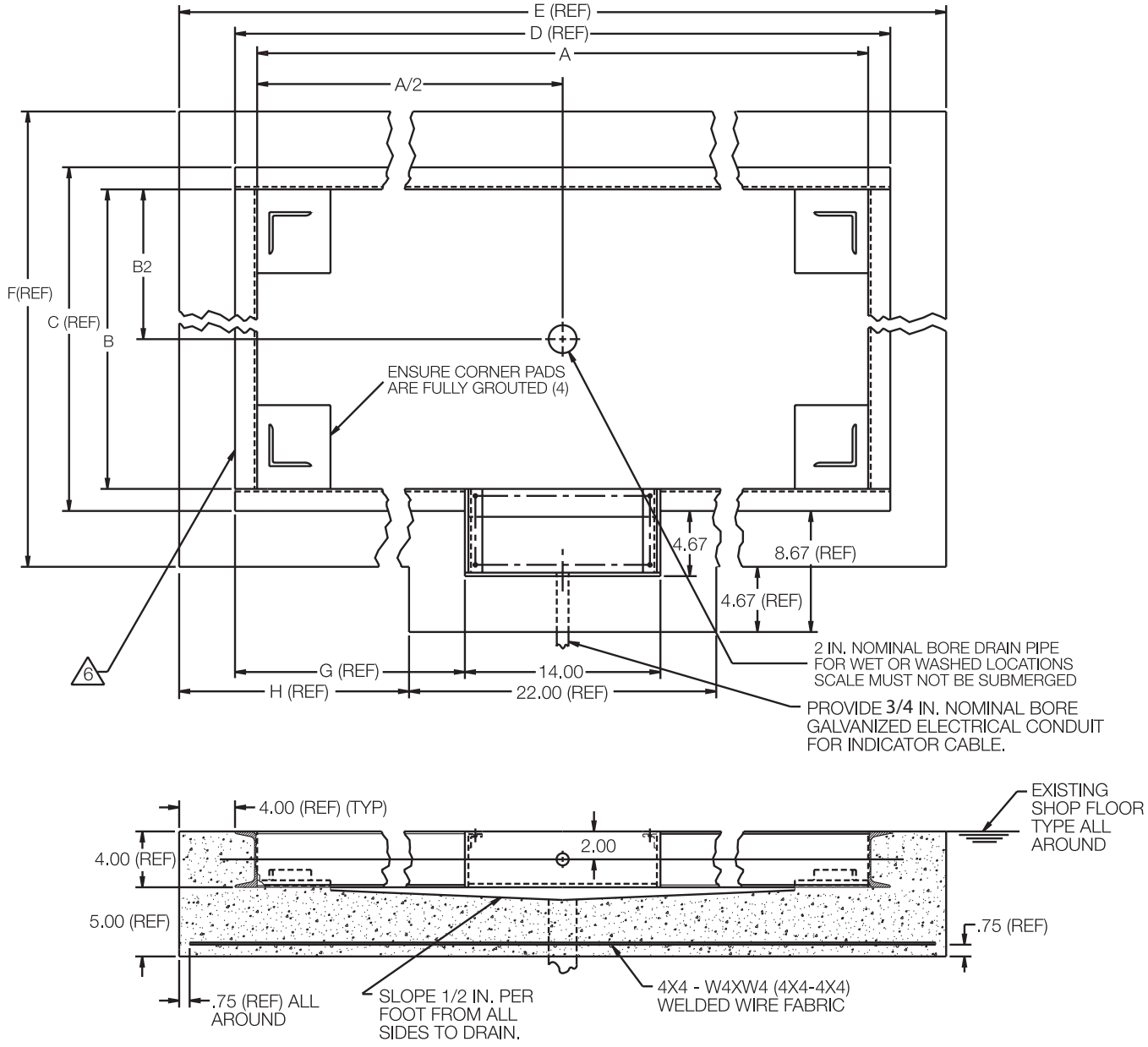
† Floor stand for indicator is not included with frames.

NOTE: Consult factory if you intend on using with a pallet jack to confirm modifications are not required.

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RoughDeck® HP, SS & HE

Pit Frame Concrete Details*



1. Use concrete of minimum yield strength 5,000 PSI or six-bag mix
2. Allow seven days to cure (wet concrete periodically during this time).
3. Dimensions shown assume firm, stable soil conditions. When soil conditions are not adequate, place foundation at sufficient depth.
4. In wet or washdown applications, we recommend the use of hermetically sealed load cells, and that j-box be mounted remotely in a dry location.
5. Wire mesh to have minimum 0.75in cover bottom and sides.
6. On stainless steel versions, two pieces of 2in angle will be substituted for 4in channel.

Scale Size	A	B	C	D	E	F	G	H
2.5ft x 2.5ft	30.75	30.75	33.92	33.92	41.92	41.92	9.96	9.96
3ft X 3ft	36.75	36.75	39.92	39.92	47.95	47.95	12.96	12.96
4ft X 4ft	48.75	48.75	51.92	51.92	59.92	59.92	18.96	18.96
5ft X 5ft	60.75	60.75	63.92	63.92	71.92	71.92	24.96	24.96
4ft X 5ft	60.75	48.75	51.92	63.92	71.92	59.92	24.96	24.96
4ft X 6ft	72.75	48.75	51.92	75.92	83.92	59.92	30.96	30.96
5ft X 6ft	72.75	60.75	63.92	75.92	83.92	71.92	30.96	30.96
5ft X 7ft	84.75	60.75	63.92	87.92	95.92	71.92	36.96	36.96

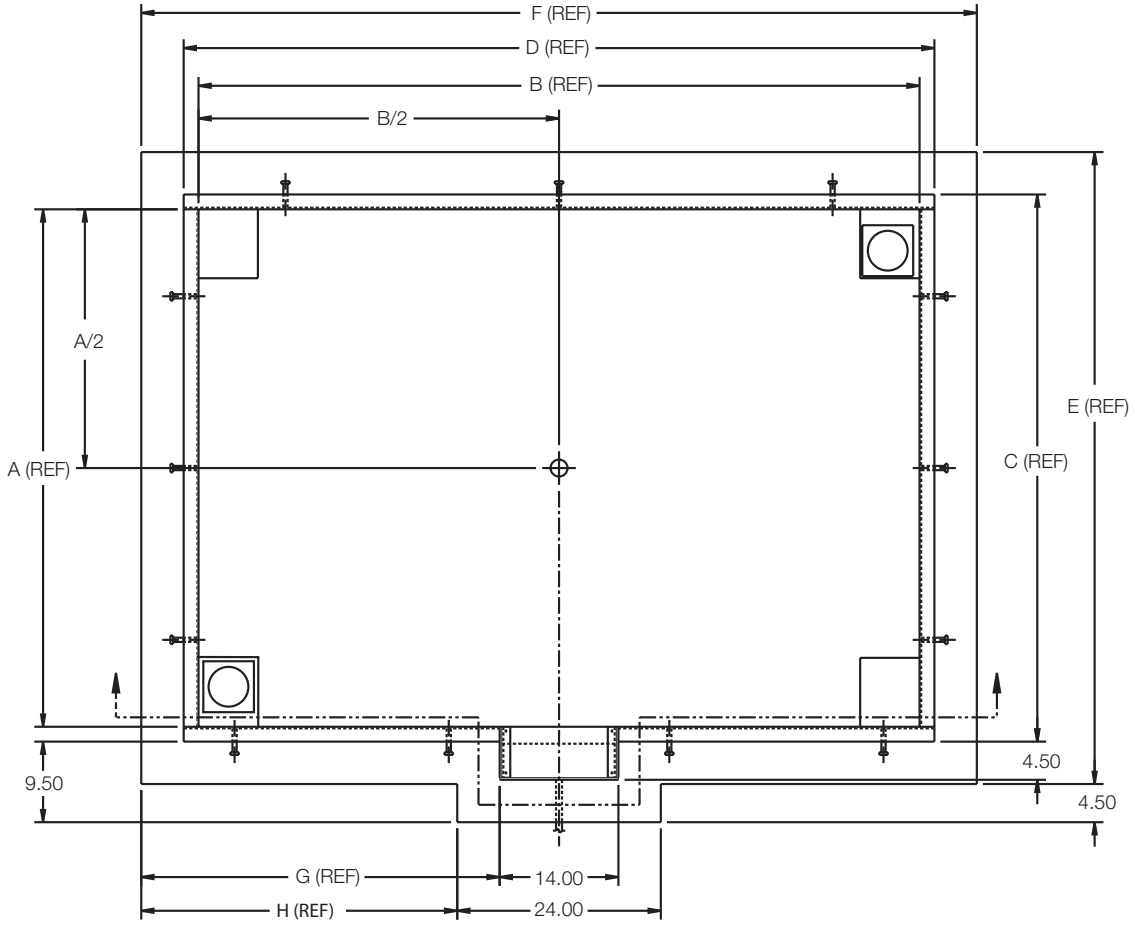
All dimensions are shown in inches. Drawing #S2944–Rev. D

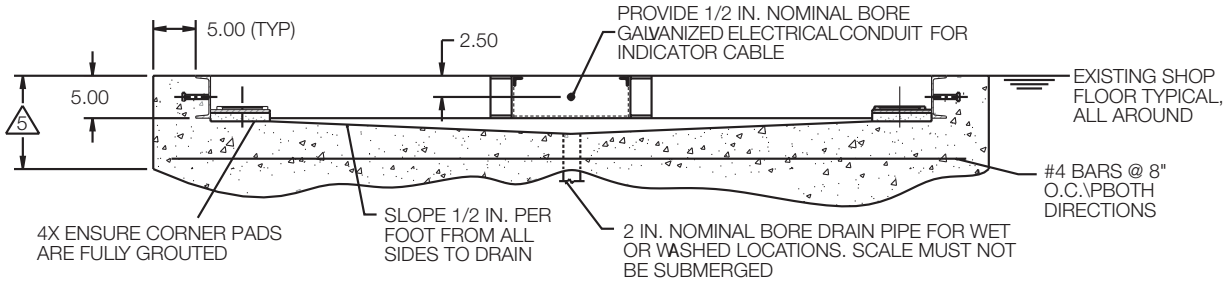
* Drawings are for standard catalog part numbered scales.

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RoughDeck® HP-H

Pit Frame Concrete Details* – 20,000 lb Capacity





Scale Size	A	B	C	D	E	F	G	H
4ft x 4ft	49.00	49.00	52.50	52.50	62.50	62.50	24.25	19.25
4ft x 5ft	49.00	61.00	52.50	64.50	62.50	74.50	30.25	25.25
4ft x 6ft	49.00	73.00	52.50	76.50	62.50	86.50	36.25	31.25
4ft x 7ft	49.00	85.00	52.50	88.50	62.50	98.50	42.25	37.25
5ft x 5ft	61.00	61.00	64.50	64.50	74.50	74.50	30.25	25.25
5ft x 6ft	61.00	73.00	64.50	76.50	74.50	86.50	36.25	31.35
5ft x 7ft	61.00	85.00	64.50	88.50	74.50	98.50	42.25	37.25

Scale Size	A	B	C	D	E	F	G	H
6ft x 6ft	73.00	73.00	76.50	76.50	86.50	86.50	36.25	31.25
6ft x 7ft	73.00	85.00	76.50	88.50	86.50	98.50	42.25	37.25
6ft x 8ft	73.00	97.00	76.50	100.50	86.50	110.50	48.25	43.25
7ft x 9ft	85.00	109.00	88.50	112.50	98.50	122.50	54.25	49.25
7ft x 10ft	85.00	121.00	88.50	124.50	98.50	134.50	60.25	55.25
8ft x 10ft	97.00	121.00	100.50	124.50	110.50	134.50	60.25	55.25

All dimensions are shown in inches. Drawing #S2944A–Rev. A

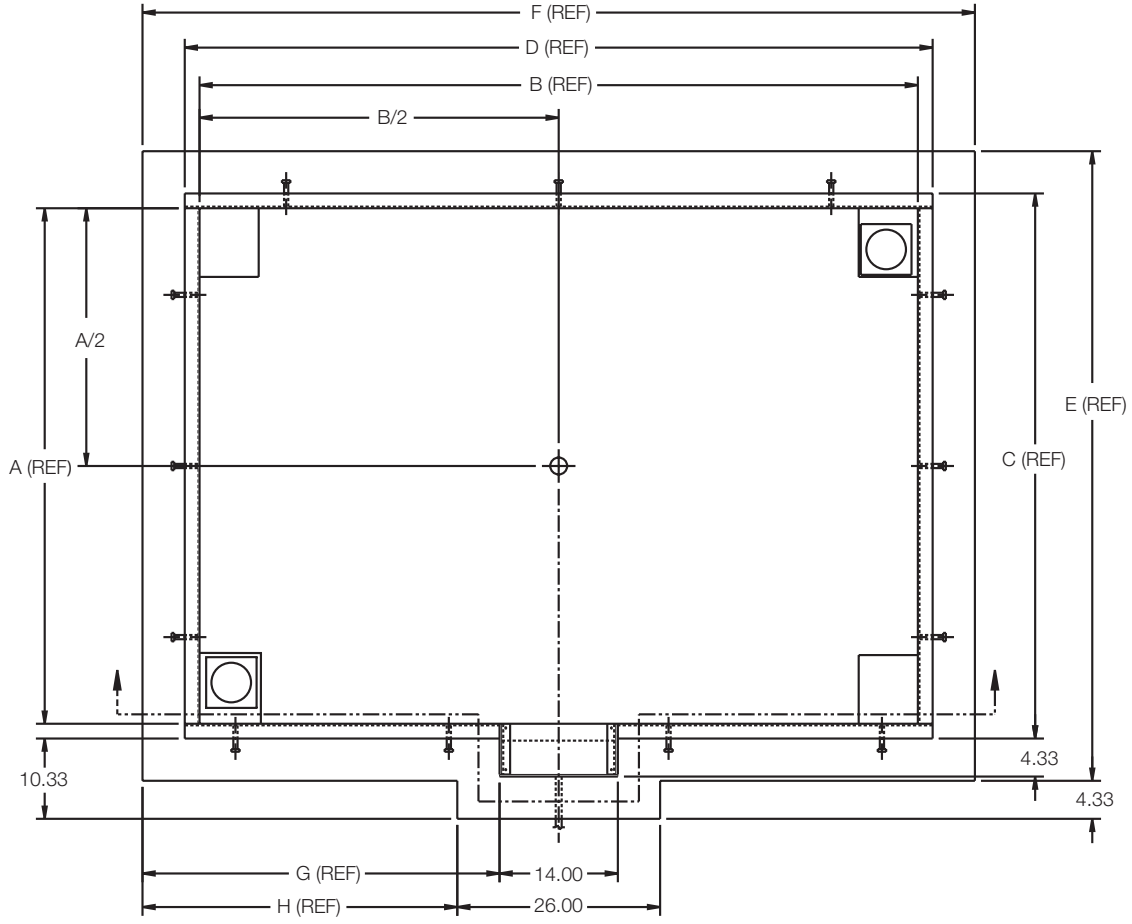
* Drawings are for standard catalog part numbered scales.

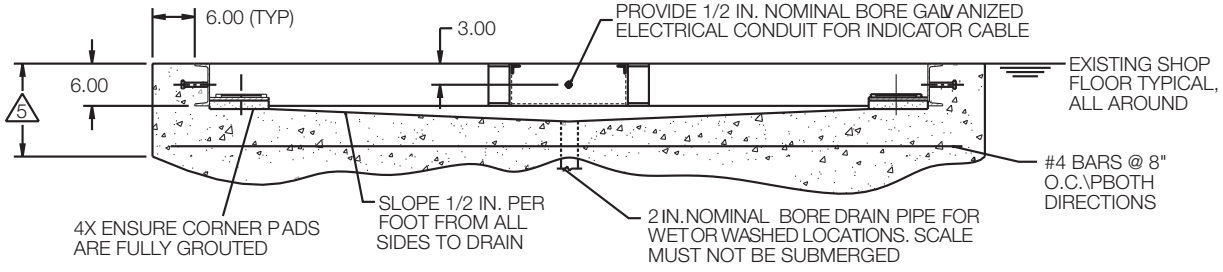
1. Use concrete of minimum yield strength 5,000 PSI or six-bag mix.
2. Allow seven days to cure (wet concrete periodically during this time).
3. Before installing pit frame, ensure that proper sand (or soil) base is available under either existing concrete or new installation.
4. In wet or washdown applications, we recommend use of hermetically sealed load cells, and that j-box be mounted remotely in a dry location.
5. For required depth of slab, or rebar requirements specific to your application, proper engineering consultation is recommended.

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RoughDeck® HP-H

Pit Frame Concrete Details* – 30,000 lb Capacity





Scale Size	A	B	C	D	E	F	G	H
4ft x 4ft	49.00	49.00	52.84	52.84	64.84	64.84	25.42	19.42
4ft x 5ft	49.00	61.00	52.84	64.84	64.84	76.84	31.42	25.42
4ft x 6ft	49.00	73.00	52.84	76.84	64.84	88.84	37.42	31.42
4ft x 7ft	49.00	85.00	52.84	88.84	64.84	100.84	43.42	37.42
5ft x 5ft	61.00	61.00	64.84	64.84	76.84	76.84	31.42	25.42
5ft x 6ft	61.00	73.00	64.84	76.84	76.84	88.84	37.42	31.42
5ft x 7ft	61.00	85.00	64.84	88.84	76.84	100.84	43.42	37.42

Scale Size	A	B	C	D	E	F	G	H
6ft x 6ft	73.00	73.00	76.84	76.84	88.84	88.84	37.42	31.42
6ft x 7ft	73.00	85.00	76.84	88.84	88.84	100.84	43.42	37.42
6ft x 8ft	73.00	97.00	76.84	100.84	88.84	112.84	49.42	43.42
7ft x 9ft	85.00	109.00	88.84	112.84	100.84	124.84	55.42	49.42
7ft x 10ft	85.00	121.00	88.84	124.84	100.84	136.84	61.42	55.42
8ft x 10ft	97.00	121.00	100.84	124.84	112.84	136.84	61.42	55.42

All dimensions are shown in inches. Drawing #S2944B–Rev. A

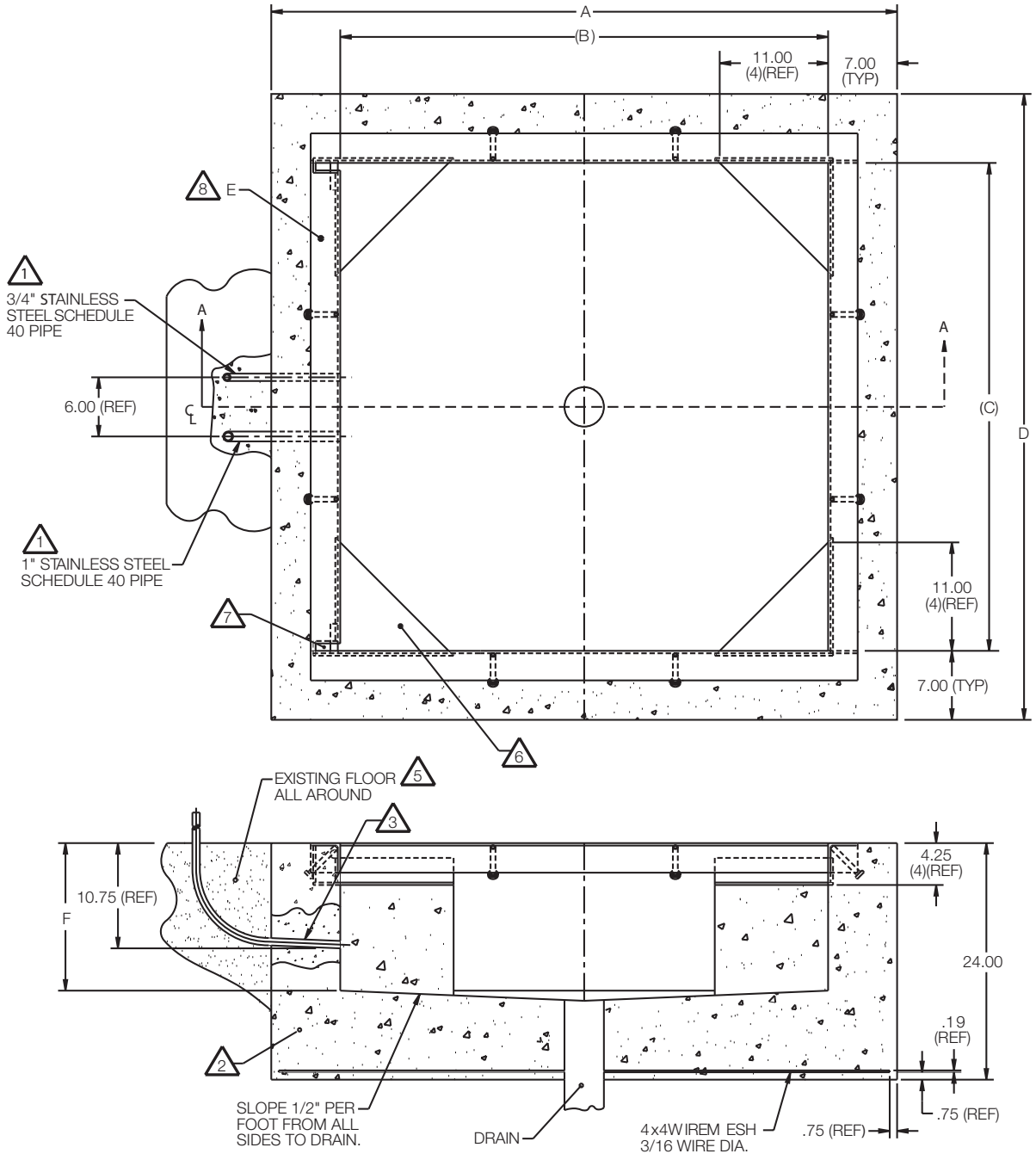
** Drawings are for standard catalog part numbered scales.*

1. Use concrete of minimum yield strength 5,000 PSI or six-bag mix.
2. Allow seven days to cure (wet concrete periodically during this time).
3. Before installing pit frame, ensure that proper sand (or soil) base is available under either existing concrete or new installation.
4. In wet or washdown applications, we recommend the use of hermetically sealed load cells, and that j-box be mounted remotely in a dry location.
5. For required depth of slab, or rebar requirements specific to your application, proper engineering consultation is recommended.

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AutoLift HE

Pit Frame Concrete Details*



1. Length of pipe is determined on site.
2. Use concrete of minimum yield strength 5,000 PSI or six-bag mix.
3. Slope pipe slightly for water drainage.
4. Allow concrete seven days to cure (wet concrete periodically during this time).
5. Tie pit in with existing floor with rebar if required.
6. Ensure underside is supported with concrete or grout (plate is an integral part of frame).
7. Keep pocket free of concrete.
8. Coping must sit level in floor to allow proper operation of scale.

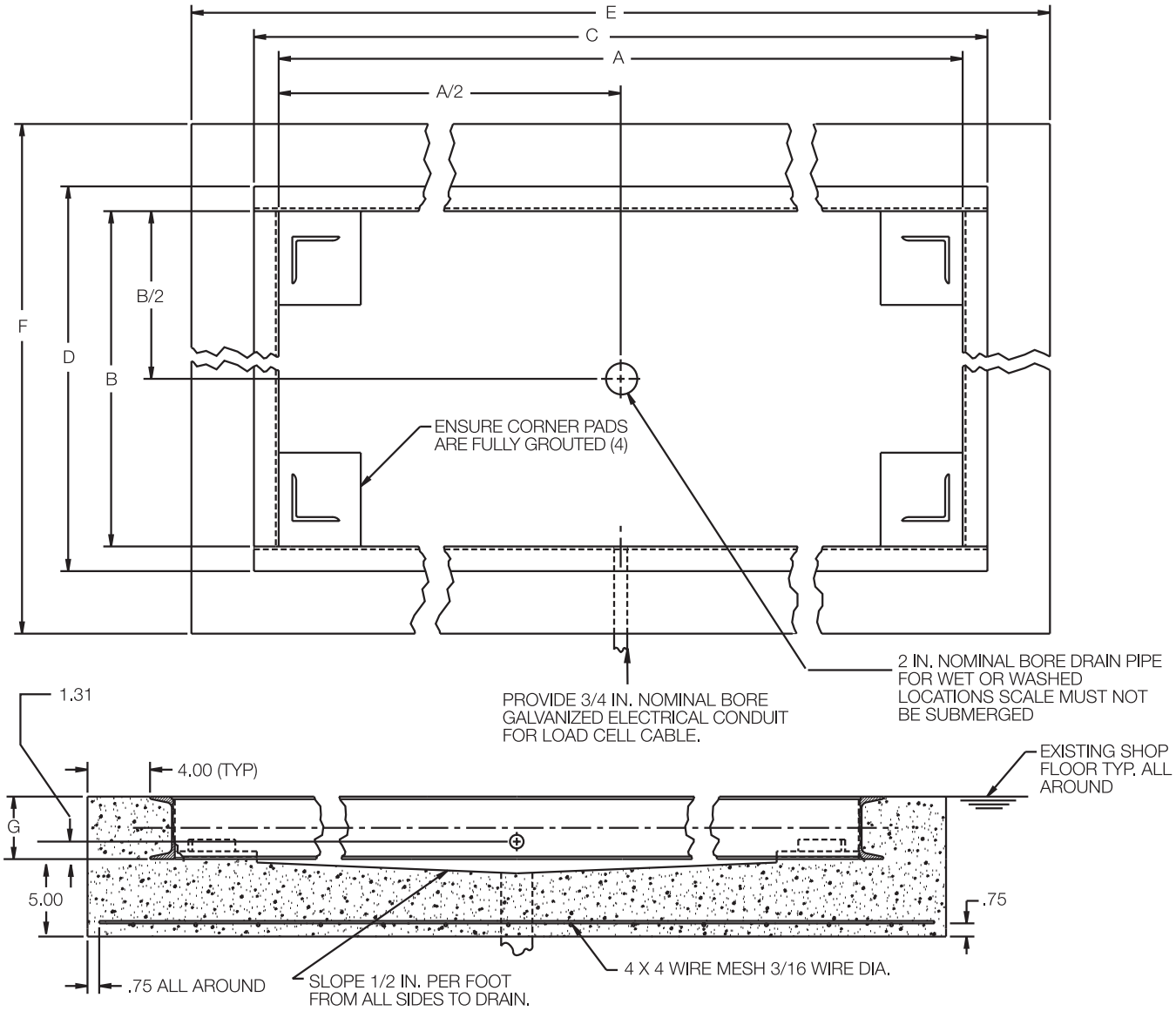
Scale Size	A	B	C	D	E (PN)	F
4 ft x 4 ft	63.06	(49.06)	(49.00)	63.00	41936	15.00
5 ft x 5 ft	75.06	(61.06)	(61.06)	75.00	41397	16.75

All dimensions are shown in inches. Drawing #S5158–Rev. B

* Drawings are for standard catalog part numbered scales.

RoughDeck® QC

Pit Frame Concrete Details*



Scale Size	A	B	C	D	E	F	G
2.5ft x 2.5ft - 2K	30.75	31.00	34.75	35.00	42.75	43.00	4.00
3ft x 3ft - 2K	36.75	37.00	40.75	41.00	48.75	49.00	4.00
4ft x 4ft - 2K	48.75	49.00	52.75	53.00	60.75	61.00	4.00
4ft x 4ft - 5K	48.75	49.00	52.75	53.00	60.75	61.00	4.00
4ft x 4ft - 10K	48.75	49.00	53.75	54.00	61.75	62.00	5.00
4ft x 5ft - 2K	60.75	49.00	64.75	53.00	72.75	61.00	4.00
4ft x 5ft - 5K	60.75	49.00	65.75	54.00	73.75	62.00	5.00
4ft x 5ft - 10K	60.75	49.00	65.75	54.00	73.75	62.00	5.00
4ft x 6ft - 2K	72.75	49.00	77.75	54.00	85.75	62.00	5.00

Scale Size	A	B	C	D	E	F	G
4ft x 6ft - 5K	72.75	49.00	77.75	54.00	85.75	62.00	5.00
4ft x 6ft - 10K	72.75	49.00	78.75	55.00	86.75	63.00	6.00
5ft x 5ft - 2K	60.75	61.00	65.75	66.00	73.75	74.00	5.00
5ft x 5ft - 5K	60.75	61.00	65.75	66.00	73.75	74.00	5.00
5ft x 5ft - 10K	60.75	61.00	65.75	66.00	73.75	74.00	5.00
5ft x 7ft - 2K	84.75	61.00	90.75	67.00	98.75	75.00	6.00
5ft x 7ft - 5K	84.75	61.00	90.75	67.00	98.75	75.00	6.00
5ft x 7ft - 10K	84.75	61.00	90.75	67.00	98.75	75.00	6.00
6ft x 6ft - 5K	72.75	73.00	78.75	79.00	86.75	87.00	6.00
6ft x 6ft - 10K	72.75	73.00	78.75	79.00	86.75	87.00	6.00

All dimensions are shown in inches. Drawing #S6360A–Rev. D

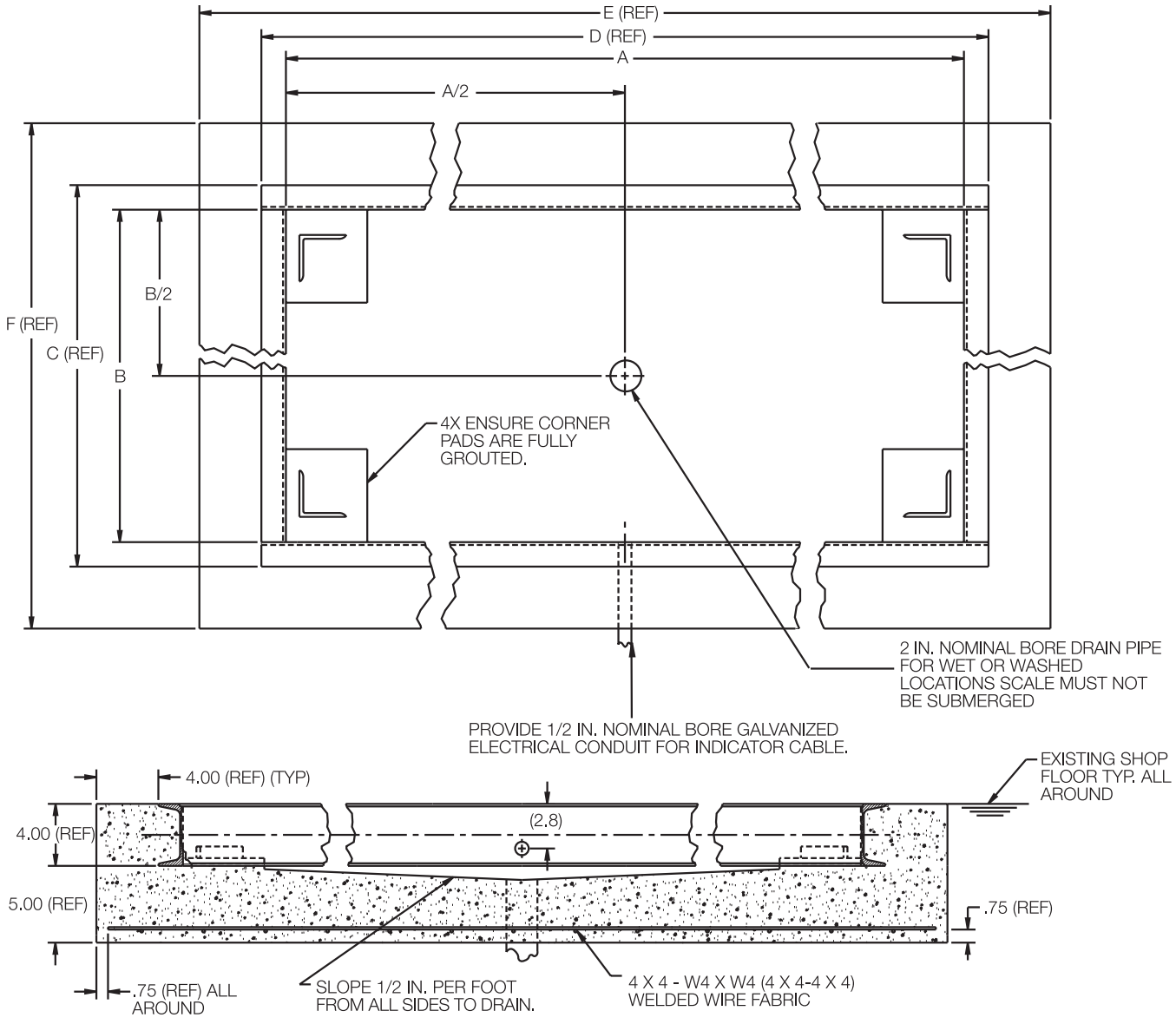
* Drawings are for standard catalog part numbered scales.

1. Use concrete of minimum yield strength 5,000 PSI or six-bag mix.
2. Allow seven days to cure (wet concrete periodically during this time).
3. Dimensions shown assume firm, stable soil conditions. When soil conditions are not adequate, place foundation at sufficient depth.
4. In wet or washdown applications, we recommend the use of hermetically- sealed load cells, and that the j-box be mounted remotely in a dry location.
5. Wire mesh to have minimum 0.75in cover bottom and sides.

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DIGI® Summit® 3000

Pit Frame Concrete Details*



Scale Size	A	B	C	D	E	F
3ft x 3ft	36.75	36.75	39.92	39.92	47.92	47.92
4ft x 4ft	48.75	48.75	51.92	51.92	59.92	59.92
4ft x 5ft	60.75	48.75	51.92	63.92	71.92	59.92
4ft x 6ft	72.75	48.75	51.92	75.92	83.92	59.92
5ft x 5ft	60.75	60.75	63.92	63.92	71.92	71.92

All dimensions are shown in inches. Drawing #S77687

* Drawings are for standard catalog part numbered scales.

1. Use concrete of minimum yield strength 5,000 PSI or six-bag mix.
2. Allow seven days to cure (wet concrete periodically during this time).
3. Dimensions shown assume firm, stable soil conditions. When soil conditions are not adequate, place foundation at sufficient depth.
4. In wet or washdown applications we recommend the use of hermetically sealed load cells and that the j-box be mounted remotely in a dry location.
5. Wire mesh to have minimum 0.75in cover bottom and sides.

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Notes

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Load Cell Mounting Hardware Safety Guidelines

Install only load cell mounting hardware and assemblies that have been specifically designed for use in tank, hopper or hanging scale applications. Often, the use of an inferior-grade product results in component failure which risks equipment damage and personal injury. These simple suggestions are provided to help minimize your exposure to vessel scale installation hazards.

1. Estimating Gross Load

To select the correct load cell or load cell hardware for a given application, it is necessary to know the total weight on the scale—including the net weight of product, the tare weight of the vessel and the weight of the platform, tank or hopper, as appropriate.

2. Safe Load

Do not exceed the safe load figures listed in Rice Lake Weighing Systems' catalog for any load cell hardware. Where shock loads are present, it may be necessary to derate these safe load figures depending on the severity of the shock load.

3. Load Distribution

In multiple load cell applications, the weight must be evenly distributed between all cells.

4. Threaded Connections

Check that all threads of a threaded connection are in engagement. For example, an eye bolt screwed into an S-type load cell should protrude slightly on the opposite side.

5. Jam Nuts

All threaded connections must be locked with jam nuts against inadvertent disassembly. If a load is suspended from a single load cell, it is critical that the load cannot rotate as this may loosen the jam nut.

6. Wire Rope Assemblies

With wire rope assemblies, do not twist the rope during assembly or disassembly. For example, do not remove a frozen nut from one end of a rope assembly by holding the opposite end.

7. Attachment Points of a Load Cell Hardware Assembly

The attachment points of a load cell hardware assembly must be aligned properly and the assembly should be essentially vertical.

8. Swaying in a Suspended Vessel Scale

If there is excessive swaying in a suspended vessel scale, apply horizontal checking to reduce the amplitude.

9. Safety Backup

If failure of one or more load cell hardware assemblies could cause injury or damage, a safety backup (safety chains, safety rods, etc.) must be used. The assemblies should be inspected routinely for damage, excessive wear or corrosion and replaced if necessary.

10. Hopper Scales: Guarding Against Contamination

With hopper scales, guard against contamination of the product being weighed as a result of the failure of the load cell or hardware assembly. For example, do not locate a wire rope assembly over a hopper scale where broken strands of wire could fall into the weighing vessel, contaminating the product being weighed.

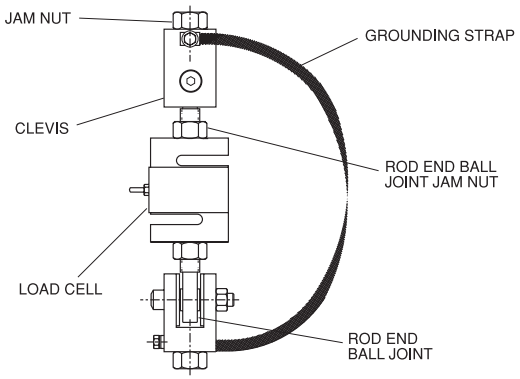
11. Selecting Steel Rod or Any Other Weight-Bearing Components

Select steel rod or any other weight-bearing components so that their minimum tensile strength is at least four times the total weight carried by that component. Note that threaded rod is generally made from a low tensile-strength mild steel which should be checked for tensile strength before use in any suspended vessel scale.

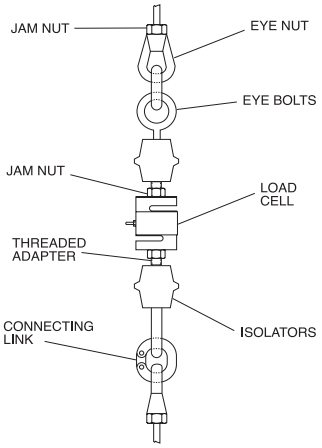
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Mounting Assembly Component Identification

ITCM Isolated Tension Cell Mounting Assembly



Conventional Tension Mounting Assembly



Our popular ITCM Isolated Tension Cell Mounting Assembly and other conventional suspended weighing system assemblies employ a variety of serviceable hardware components. Rice Lake Weighing Systems offers a comprehensive selection of these items for all of your suspended vessel service needs. These drawings are designed to enable you to quickly identify and differentiate components from both of these common designs. All corresponding replacement hardware is located on the following pages.

Jam Nuts

- Mild Steel/Stainless Steel
- Coarse or fine thread
- Zinc-plated mild steel or stainless steel



Important: Read "Load Cell Mounting Hardware Safety Guidelines" at the beginning of this section.

Mild Steel

Thread Size	Part #	Price
Fine Thread:		
1/4-28 NF	14639	$0.20
3/8-24 NF	14651	$0.20
1/2-20 NF	14664	$1.15
3/4-16 NF	14687	$1.15
1-12 NF	14702	$5.05
1-14 NF	14703	$4.00
1 1/4-12 NF	14708	$2.75
1 1/2-12 NF	14711	$4.05
Mild Steel, Coarse Thread:		
1/4-20 NC	14636	$0.20
3/8-16 NC	14649	$1.50
1/2-13 NC	14661	$0.20
5/8-11 NC	14676	$1.50
3/4-10 NC	14686	$0.55
1-8 NC	14701	$0.70
1-1/4-7 NC	14707	$2.55

Stainless Steel

Thread Size	Part #	Price
Stainless Steel, Fine Thread:		
1/4-28 NF	14640	$0.85
1/2-20 NF	14665	$1.30
3/4-16 NF	14688	$1.80
Stainless Steel, Coarse Thread:		
3/8-16 NC	14653	$1.50
1/2-13 NC	14662	$1.30
5/8-11 NC	14680	$1.50
3/4-10 NC	14690	$1.55

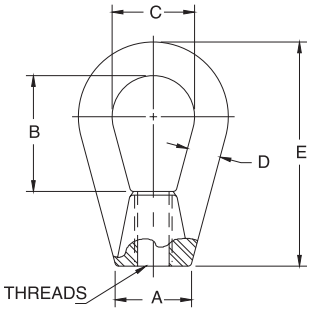
Eye Nuts

• Drop-forged steel, tapped NC right-hand threads

DIMENSIONS - INCHES (mm)

PART #	A	B	C	D	E	THREAD SIZE	SAFE LOAD*	PRICE
17772	0.50 (12.7)	1.06 (26.9)	0.75 (19.1)	0.25 (6.4)	1.68 (42.7)	1/4-20 NC	500 lb (226.8 kg)	$17.00
17773	0.75 (19.1)	1.18 (30.0)	0.87 (22.1)	0.31 (7.9)	2.25 (57.2)	3/8-16 NC	1800 lb (816.5 kg)	$17.00
17774	1.00 (25.4)	1.56 (39.6)	1.12 (28.5)	0.43 (10.9)	3.00 (76.2)	1/2-13 NC	3600 lb (1632.9 kg)	$32.00
17775	1.25 (31.8)	1.93 (49.0)	1.37 (34.8)	0.56 (14.2)	3.75 (95.3)	5/8-11 NC	5800 lb (2630.8 kg)	$37.00
17776	1.75 (44.5)	1.87 (47.5)	1.50 (38.1)	0.75 (19.1)	3.87 (98.3)	3/4-10 NC	10,600 lb (4808.1 kg)	$46.00
17777	2.25 (57.2)	2.12 (53.9)	1.75 (44.5)	1.00 (25.4)	4.75 (120.7)	1-8 NC	18,800 lb (8527.6 kg)	$117.00

** Do not exceed the safe load*





Coupling Nuts

• Heavy hex

PART #	THREAD SIZE	LENGTH INCHES (MM)	FLAT INCHES (MM)	SAFE LOAD*	PRICE
14638	1/4-20 NC	1.75 (44.5)	0.44 (11.2)	500 lb (226.8 kg)	$4.50
14650	3/8-16 NC	1.75 (44.5)	0.62 (15.8)	1500 lb (680.4 kg)	$5.00
14663	1/2-13 NC	1.75 (44.5)	0.87 (22.1)	3000 lb (1360.8 kg)	$5.00
14681	5/8-11 NC	2.12 (53.8)	1.06 (26.9)	7500 lb (3402.0 kg)	$7.85
14691	3/4-10 NC	2.25 (57.1)	1.25 (31.8)	10,000 lb (4535.9 kg)	$8.75

** Do not exceed the safe load*



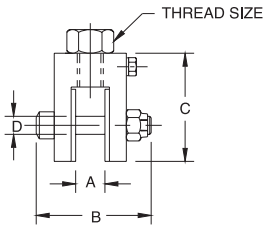
Important: Read "Load Cell Mounting Hardware Safety Guidelines" at the beginning of this section.

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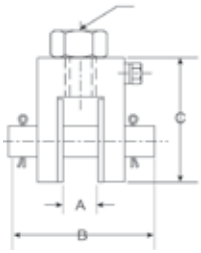
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Clevis Mount Assemblies

- Mild Steel
- Assembly used in the ITCM
- Adapts rod to rod-end ball joint
- Provides electrical isolation for load cell protection
- Elimination of unwanted side loads
- Optional stainless steel provides enhanced corrosion resistance



Clevis Mount with bolt



Clevis Mount with pin

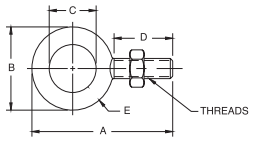
DIMENSIONS - INCHES (mm)

PART #	A	B	C	D	Thread Size	SAFE LOAD*	PRICE
Mild Steel with bolt:							
17792	0.52 (13.2)	2.38 (60.5)	1.94 (49.3)	0.38 (9.5)	3/8-16 NC	300 lb (136.1 kg)	$72.00
17793	0.52 (13.2)	2.38 (60.5)	1.94 (49.3)	0.38 (9.5)	1/2-13 NC	300 lb (136.1 kg)	$72.00
17783	0.39 (9.9)	1.81 (46.0)	1.69 (42.9)	0.25 (6.4)	1/2-13 NC	500 lb (226.8 kg)	$76.00
17784	0.65 (16.5)	2.68 (68.1)	2.31 (58.7)	0.50 (12.7)	3/4-10 NC	4000 lb (1814.4 kg)	$76.00
17785	0.78 (19.8)	3.37 (85.6)	3.00 (76.2)	0.62 (15.8)	1- 8 NC	10,000 lb (4535.9 kg)	$76.00
17786	0.39 (9.9)	1.81 (46.0)	1.69 (42.9)	0.25 (6.4)	3/8-16 NC	500 lb (226.8 kg)	$76.00
17787	0.65 (16.5)	2.68 (68.1)	2.31 (58.7)	0.50 (12.7)	1/2-13 NC	2000 lb (907.2 kg)	$76.00
17788	0.65 (16.5)	2.68 (68.1)	2.31 (58.7)	0.50 (12.7)	5/8-11 NC	2500 lb (1134.0 kg)	$76.00
17789	0.78 (19.8)	3.37 (85.6)	3.00 (76.2)	0.62 (15.8)	3/4-10 NC	5000 lb (2268.0 kg)	$76.00
Mild Steel with pin:							
17790	1.39 (35.3)	4.12 (104.6)	4.50 (114.3)	1.00 (25.4)	1 1/4- 7 NC	15,000 lb (6803.9 kg)	$280.00
17791	1.22 (31.0)	4.12 (104.6)	5.00 (127.0)	1.25 (31.8)	1 1/2- 6 NC	20,000 lb (9071.9 kg)	$280.00
Stainless Steel with pin:							
33644	0.52 (13.2)	2.38 (60.5)	1.94 (49.3)	0.38 (9.5)	1/2-13 NC	300 lb (136.1 kg)	$145.00
33643	0.39 (9.9)	1.81 (46.0)	1.69 (42.9)	0.25 (6.4)	1/2-13 NC	500 lb (226.8 kg)	$145.00
33641	0.39 (9.9)	1.81 (46.0)	1.69 (42.9)	0.25 (6.4)	3/8-16 NC	500 lb (226.8 kg)	$145.00
33658	0.52 (13.2)	2.38 (60.5)	1.94 (49.3)	0.38 (9.5)	3/8-16 NC	500 lb (226.8 kg)	$145.00
33642	0.65 (16.5)	2.68 (68.1)	2.31 (58.7)	0.50 (12.7)	3/4-10 NC	4000 lb (1814.4 kg)	$195.00
33640	0.65 (16.5)	2.68 (68.1)	2.31 (58.7)	0.50 (12.7)	1/2-13 NC	2000 lb (907.2 kg)	$195.00
33639	0.65 (16.5)	2.68 (68.1)	2.31 (58.7)	0.50 (12.7)	5/8-11 NC	2500 lb (1134.0 kg)	$195.00
33638	0.78 (19.8)	3.37 (85.6)	3.00 (76.2)	0.62 (15.8)	3/4-10 NC	5000 lb (2268.0 kg)	$195.00

** Do not exceed the safe load*

Load Cell Eye Bolts

- One jam nut included with each eye bolt





DIMENSIONS - INCHES (mm)

PART #	A	B	C	D	E	Thread Size	SAFE LOAD*	PRICE
Mild Steel:								
17705	2.25 (57.2)	1.25 (31.8)	0.75 (19.1)	1.00 (25.4)	0.25 (6.4)	1/4-28 NF	500 lb (226.8 kg)	$9.50
17707	2.91 (73.9)	1.66 (42.2)	1.00 (25.4)	1.25 (31.8)	0.33 (8.4)	3/8-24 NF	1300 lb 589.7 kg)	$9.50
17709	3.56 (90.4)	2.06 (52.3)	1.19 (30.2)	1.50 (38.1)	0.44 (11.2)	1/2-20 NF	2400 lb (1088.6 kg)	$15.50
17711	4.25 (108.0)	2.50 (63.5)	1.37 (34.8)	1.75 (44.5)	0.56 (14.2)	5/8-18 NF	4000 lb (1814.4 kg)	$21.00
17713	4.81 (122.2)	2.81 (71.4)	1.50 (38.1)	2.00 (50.8)	0.66 (16.8)	3/4-16 NF	5000 lb (2267.9 kg)	$35.00
17715	6.06 (153.9)	3.56 (90.4)	1.81 (46.0)	2.50 (63.5)	0.87 (22.1)	1-12 NF	9000 lb (4082.3 kg)	$51.00
17716	6.06 (153.9)	3.56 (90.4)	1.81 (46.0)	2.50 (63.5)	0.87 (22.1)	1-14 NS	9000 lb (4082.3 kg)	$53.00
17718	7.44 (189.0)	4.44 (112.8)	2.19 (55.6)	3.00 (76.2)	1.12 (28.4)	1 1/4-12 NF	15,000 lb (6803.9 kg)	$59.00
17704	2.25 (57.2)	1.25 (31.8)	0.75 (19.1)	1.00 (25.4)	0.25 (6.4)	1/4-20 NC	500 lb (226.8 kg)	$13.50
17706	2.91 (73.9)	1.66 (42.2)	1.00 (25.4)	1.25 (31.8)	0.33 (8.4)	3/8-16 NC	1300 lb (589.7 kg)	$13.50
17708	3.56 (90.4)	2.06 (52.3)	1.19 (30.2)	1.50 (38.1)	0.44 (11.2)	1/2-13 NC	2400 lb (1088.6 kg)	$11.25
17710	4.25 (108.0)	2.50 (63.5)	1.37 (34.8)	1.75 (44.5)	0.56 (14.2)	5/8-11 NC	4000 lb (1814.4 kg)	$16.25
17712	4.81 (122.2)	2.81 (71.4)	1.50 (38.1)	2.00 (50.8)	0.66 (16.8)	3/4-10 NC	5000 lb (2267.9 kg)	$21.50
17714	6.06 (153.9)	3.56 (90.4)	1.81 (46.0)	2.50 (63.5)	0.87 (22.1)	1-8 NC	9000 lb (4082.3 kg)	$33.00
17717	7.44 (189.0)	4.44 (112.8)	2.19 (55.6)	3.00 (76.2)	1.12 (28.4)	1 1/4-7 NC	15,000 lb (6803.9 kg)	$59.00
17719	4.31 (109.5)	2.81 (71.4)	1.50 (38.1)	1.50 (38.1)	0.66 (16.8)	3/4-10 NC	5000 lb (2267.9 kg)	$21.00

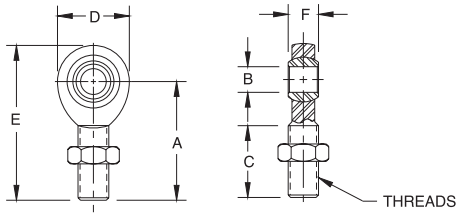
** Do not exceed the safe load*

Important: Read "Load Cell Mounting Hardware Safety Guidelines" at the beginning of this section.

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Rod End Ball Joints

- Used in the ITCM assembly
- One jam nut included with each rod end ball joint
- Standard or Teflon®-lined
- Optional stainless steel provides enhanced corrosion resistance for hostile environments





DIMENSIONS - INCHES (mm)

PART #	A	B	C	D	E	F	THREAD SIZE
Mild Steel:							
17746	1.94 (49.3)	0.37 (9.4)	1.25 (31.8)	1.00 (25.4)	2.43 (61.7)	0.50 (12.7)	3/8-24 NF
17734	1.94 (49.3)	0.37 (9.4)	1.25 (31.8)	1.00 (25.4)	2.43 (61.7)	0.50 (12.7)	3/8-24 NF
17736	2.44 (62.0)	0.50 (12.7)	1.50 (38.1)	1.31 (33.3)	3.09 (78.5)	0.62 (15.8)	1/2-20 NF
17738	2.87 (72.9)	0.75 (19.1)	1.75 (44.5)	1.75 (44.5)	3.75 (95.3)	0.87 (22.1)	3/4-16 NF
17735	2.44 (62.0)	0.50 (12.7)	1.50 (38.1)	1.31 (33.3)	3.09 (78.5)	0.62 (15.8)	1/2-20 NF
17737	2.87 (72.9)	0.75 (19.1)	1.75 (44.5)	1.75 (44.5)	3.75 (95.3)	0.87 (22.1)	3/4-16 NF
17739	1.56 (39.6)	0.25 (6.4)	1.00 (25.4)	0.75 (19.1)	1.93 (49.0)	0.37 (9.4)	1/4-28 NF
17740	2.44 (62.0)	0.50 (12.7)	1.50 (38.1)	1.31 (33.3)	3.09 (78.5)	0.62 (15.8)	1/2-20 NF
17741	2.87 (72.9)	0.62 (15.8)	1.75 (44.5)	1.75 (44.5)	3.75 (95.3)	0.75 (19.1)	3/4-16 NF
17742	4.12 (104.7)	1.00 (25.4)	2.12 (53.9)	2.75 (70.0)	5.50 (139.7)	1.37 (34.8)	1-12 NF
26007	4.12 (104.7)	1.00 (25.4)	2.12 (53.9)	2.75 (70.0)	5.50 (139.7)	1.37 (34.8)	1-14 UNS
17747	4.12 (104.7)	1.00 (25.4)	2.12 (53.9)	2.75 (70.0)	5.50 (139.7)	1.37 (34.8)	1-12 NF
17743	4.12 (104.7)	1.25 (31.8)	2.12 (53.9)	2.75 (70.0)	5.50 (139.7)	1.09 (27.7)	1 1/4-12 NF
17744	5.37 (136.4)	1.50 (38.1)	3.00 (76.2)	3.50 (88.9)	7.12 (180.8)	1.31 (33.3)	1 1/2-12 NF
17745	8.00 (203.2)	2.00 (50.8)	4.62 (117.4)	5.00 (127.0)	10.50 (266.7)	1.75 (44.5)	2-12 NF
Stainless Steel:							
33506	1.94 (49.3)	.37 (9.4)	1.25 (31.8)	1.00 (25.4)	2.43 (61.7)	.50 (12.7)	3/8-24 NF
33505	1.56 (39.6)	.25 (6.4)	1.00 (25.4)	.75 (19.1)	1.93 (49.0)	.37 (9.4)	1/4-28 NF
33507	2.44 (62.0)	.50 (12.7)	1.50 (38.1)	1.31 (33.3)	3.09 (78.5)	.62 (15.8)	1/2-20 NF
33508	2.87 (72.9)	.62 (15.8)	1.75 (44.5)	1.75 (44.5)	3.75 (95.3)	.75 (19.1)	3/4-16 NF

DIMENSIONS - pounds (kg)

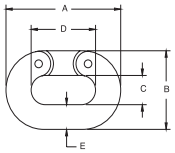
PART #	SAFE LOAD*	BREAKING STRENGTH	TEFLON LINED	PRICE
Mild Steel:				
17746	975 lb (453.6 kg)	3915 lb (1913.3 kg)	YES	$19.00
17734	1200 lb (544.3 kg)	4916 lb (2229.9 kg)	NO	$15.00
17736	4000 lb (1814.4 kg)	16,238 lb (7365.5 kg)	NO	$46.00
17738	7000 lb (3175.2 kg)	28,081 lb (12,737.4 kg)	NO	$75.00
17735	2000 lb (907.2 kg)	8075 lb (3662.8 kg)	NO	$20.00
17737	3250 lb (1474.2 kg)	13,831 lb (6273.7 kg)	NO	$28.00
17739	500 lb (226.8 kg)	2158 lb (978.9 kg)	YES	$25.00
17740	4000 lb (1814.4 kg)	16,238 lb (7365.5 kg)	YES	$46.00
17741	10,000 lb (4535.9 kg)	40,572 lb (18,403.2 kg)	YES	$67.00
17742	10,500 lb (4762.7 kg)	43,541 lb (19,749.9 kg)	NO	$115.00
26007	15,000 lb (6803.9 kg)	76,200 lb (34,563.8 kg)	YES	$252.00
17747	19,000 lb (8618.3 kg)	76,200 lb (34,563.8 kg)	YES	$312.00
17743	20,000 lb (9071.9 kg)	79,728 lb (36,164.1 kg)	NO	$226.00
17744	24,000 lb (10,886.2 kg)	96,510 lb (43,776.3 kg)	NO	$295.00
17745	55,000 lb (24,947.7 kg)	225,457 lb (102,265.9 kg)	NO	$320.00
Stainless Steel:				
33506	1500lb (680.4 kg)	7362 lb (3339.4 kg)	YES	$115.00
33505	500lb (226.8 kg)	2158 lb (978.9 kg)	YES	$115.00
33507	3000lb (1360.8 kg)	16,238 lb (7365.5 kg)	YES	$125.00
33508	7,000lb (3175.2 kg)	40,572 lb (18,403.2kg)	YES	$225.00

** Do not exceed the safe load*

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Connecting Links





- Drop-forged carbon steel, heat-treated, hot-dipped galvanized finish

DIMENSIONS - INCHES (mm)

PART #	A	B	C	D	E	SAFE LOAD*	PRICE
17794	1.50 (38.1)	1.00 (25.4)	0.43 (10.9)	0.87 (22.1)	0.25 (6.4)	1325 lb (601.6 kg)	$20.00
17795	2.06 (52.3)	1.37 (34.8)	0.56 (14.2)	1.12 (28.5)	0.37 (9.4)	2750 lb (1247.4 kg)	$22.00
17796	2.65 (67.3)	1.71 (43.4)	0.65 (16.5)	1.46 (37.1)	0.50 (12.7)	4750 lb (2154.6 kg)	$23.00
17797	3.31 (84.1)	2.09 (53.1)	0.78 (19.8)	1.81 (46.0)	0.62 (15.8)	7250 lb (3288.6 kg)	$35.00
17798	3.87 (98.3)	2.50 (63.5)	0.93 (23.6)	2.12 (53.9)	0.75 (19.1)	10,250 lb (4649.3 kg)	$51.00
17799	5.00 (127.0)	3.31 (84.1)	1.25 (31.8)	2.75 (69.9)	1.00 (25.4)	15,500 lb (7030.7 kg)	$85.00

** Do not exceed the safe load*

Load Cell Isolators

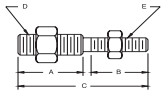


- Power surges such as those caused by welding or electrical shorts frequently damage load cells and indicators. To prevent such damage, these isolators electrically separate the mechanical assembly from its tension-type load cell.

PART #	HEIGHT THREAD SIZE	Max. DIA inches (MM)	Inches (MM)	SAFE LOAD*	PRICE
17722	3/8-16 NC	2.50 (63.5)	2.50 (63.5)	600 lb (272.2 kg)	$27.00
17724	1/2-13 NC	2.50 (63.5)	2.50 (63.5)	600 lb (272.2 kg)	$35.00
17726	1/2-20 NF	2.50 (63.5)	2.50 (63.5)	600 lb (272.2 kg)	$37.00
17725	1/2-13 NC	2.43 (61.7)	2.00 (50.8)	3000 lb (1360.8 kg)	$67.00
17723	3/8-24 NF	2.50 (63.5)	2.50 (63.5)	600 lb (272.2 kg)	$67.00
17728	1/2-13 NC x 1/2-20 NF	2.50 (63.5)	2.50 (63.5)	600 lb (272.2 kg)	$38.00
17732	1/4-20 NC	1.00 (25.4)	1.12 (28.4)	250 lb (113.4 kg)	$31.00

** Do not exceed the safe load*

Threaded Adapters





- For coupling isolators with load cells and steelyard rods
- Supplied with jam nuts
- Now in stronger, more durable stainless steel

DIMENSIONS - INCHES (mm)

PART #	A	B	C	D	E	SAFE LOAD*	PRICE
33561	— —	— —	2.00 (50.8)	1/4-28 NF	1/4-28 NF	300 lb (136.1 kg)	$12.00
33562	0.94 (23.9)	0.94 (23.9)	2.00 (50.8)	1/4-28 NF	1/4-20 NC	300 lb (136.1 kg)	$17.50
33563	0.92 (23.3)	1.02 (25.9)	2.06 (52.3)	1/4-28 NF	3/8-24 NF	300 lb (136.1 kg)	$12.00
33564	0.94 (23.9)	0.94 (23.9)	2.00 (50.8)	1/4-28 NF	3/8-16 NC	300 lb (136.1 kg)	$12.00
33565	1.06 (26.9)	1.06 (26.9)	2.25 (57.2)	1/4-20 NC	3/8-16 NC	300 lb (136.1 kg)	$17.00
33567	1.06 (26.9)	1.06 (26.9)	2.25 (57.2)	1/4-28 NF	1/2-13 NC	300 lb (136.1 kg)	$17.00
33568	— —	— —	2.00 (50.8)	3/8-24 NF	3/8-24 NF	500 lb (226.8 kg)	$17.00
33569	0.91 (23.1)	0.91 (23.1)	2.00 (50.8)	3/8-16 NC	3/8-24 NF	500 lb (226.8 kg)	$19.00
33570	1.06 (26.9)	1.06 (26.9)	2.25 (57.2)	3/8-24 NF	1/2-13 NC	500 lb (226.8 kg)	$17.00
33571	1.31 (33.3)	1.31 (33.3)	2.75 (69.9)	1/2-13 NC	5/8-11 NC	3000 lb (1360.8 kg)	$17.00
33572	0.87 (22.0)	0.87 (22.0)	2.00 (50.8)	1/2-13 NC	1/2-20 NF	3000 lb (1360.8 kg)	$16.00
33573	— —	— —	2.06 (52.3)	1/2-20 NF	1/2-20 NF	3000 lb (1360.8 kg)	$16.00
33574	1.31 (33.3)	1.31 (33.3)	2.75 (69.9)	1/2-20 NF	5/8-11 NC	3000 lb (1360.8 kg)	$17.00
33575	1.31 (33.3)	1.31 (33.3)	3.00 (76.2)	3/4-16 NF	3/4-10 NC	7000 lb (3175.2 kg)	$19.00

** Do not exceed the safe load*

Important: Read "Load Cell Mounting Hardware Safety Guidelines" at the beginning of this section.

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Prices and specifications subject to change without notice. Visit ricelake.com for current prices.

ITCM - Isolated Tension Cell Mount Hardware Kits

APPLICATIONS

- Suspended hoppers
- Mechanical scale conversions
- Replaces traditional eyebolt, isolator configurations

STANDARD FEATURES

- Provides greater safety than traditional/suspension configurations
- Complete package for ease of installation
- Built-in electrical isolation without having to use isolators (not available on 20,000 lb/9071.9 kg version)
- Provides correct load cell loading even in difficult installations
- Dramatically reduces overall length
- Capacities from 100 lb/45.4 kg to 20,000 lb/9071.9 kg
- Clevis mounts with nylon insulating washers
- Teflon®-lined rod end ball joints (not available on 20,000 lb/9071.9 kg version)
- Completely isolates load cell from stray currents
- Grounding strap for electrical continuity
- Zinc plated clevis



Mount only - does not include load cell

The ITCM Isolated Tension Cell Mount is a mounting assembly designed for tension mounting S-beam load cells in suspended hopper assemblies and mechanical scale conversions. The ITCM incorporates clevis and unique rod end ball joint assemblies to reduce the overall length to less than half of the traditional tension cell mounts, while providing correct load alignment. In addition, the load cell is completely electrically isolated from stray currents, a major cause of load cell failure. To complete the design, a grounding strap connects the two clevis assemblies to further guarantee safety to your load cells.

PART #	LOAD RATING	CLEVIS THREAD	ROD END THREAD	*SAFELOAD	PRICE
Mild Steel:					
17968	300 lb (136.1 kg)	3/8-16	3/8-24	300 lb (136.1 kg)	$175.00
17969	300 lb (136.1 kg)	1/2-13	3/8-24	300 lb (136.1 kg)	$175.00
17894	500 lb (226.8 kg)	3/8-16	1/4-28	500 lb (226.8 kg)	$175.00
17895	500 lb (226.8 kg)	1/2-13	1/4-28	500 lb (226.8 kg)	$175.00
17896	2000 lb (907.2 kg)	1/2-13	1/2-20	2000 lb (907.2 kg)	$200.00
17897	2500 lb (1134.0 kg)	5/8-11	1/2-20	2500 lb (1134.0 kg)	$200.00
17898	4000 lb (1814.4 kg)	3/4-10	1/2-20	4000 lb (1814.4 kg)	$200.00
17899	5000 lb (2268.0 kg)	3/4-10	3/4-16	5000 lb (2268.0 kg)	$260.00
17900	10,000 lb (4535.9 kg)	1-8	3/4-16	10,000 lb (4535.9 kg)	$260.00
17958	†15,000 lb (6803.9 kg)	1 1/4-7	1-12	15,000 lb (6803.9 kg)	$995.00
63166	††15,000 lb (6803.9 kg)	1 1/4-7	1-14	15,000 lb (6803.9 kg)	$945.00
17959	**20,000 lb (9071.9 kg)	1 1/2-6	1 1/4-12	20,000 lb (9071.9 kg)	$895.00
Stainless Steel:					
33630	500 lb (226.8 kg)	3/8-16	3/8-24	500 lb (226.8 kg)	$400.00
33631	300 lb (136.1 kg)	1/2-13	3/8-24	300 lb (136.1 kg)	$400.00
33632	500 lb (226.8 kg)	3/8-16	1/4-28	500 lb (226.8 kg)	$400.00
33633	500 lb (226.8 kg)	1/2-13	1/4-28	500 lb (226.8 kg)	$400.00
33634	2000 lb (907.2 kg)	1/2-13	1/2-20	2000 lb (907.2 kg)	$500.00
33635	2500 lb (1134.0 kg)	5/8-11	1/2-20	2500 lb (1134.0 kg)	$500.00
33636	3000 lb (1360.8 kg)	3/4-10	1/2-20	3000 lb (1360.8 kg)	$500.00
33637	5000 lb (2268.0 kg)	3/4-10	3/4-16	5000 lb (2268.0 kg)	$695.00

Hardware kits do not include load cell
** Do not exceed the safe load ** Not electrically isolated*
† For use with RL20000 - 15,000 lb load cell †† For use with RL20001 - 15,000 lb load cell
Important: Read "Load Cell Mounting Hardware Safety Guidelines" at the beginning of this section.
Note: Replacement parts for mounts can be in the Replacement Parts Catalog.

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Grounding Strap

- Used in the ITCM assembly
- Tinned copper braid
- Crimped sleeve on ends with .25" (6.4 mm) hole
- Available in 12" (304.8 mm), 14" (355.6 mm), 16" (406.4 mm), 24" (609.6 mm) or 32" (812.8 mm) lengths

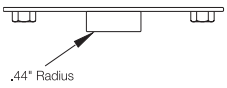


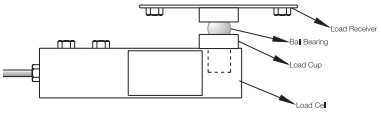
Important: Read "Load Cell Mounting Hardware Safety Guidelines" at the beginning of this section.

Part #	Length - Inches (mm)		Price
17778	12	(304.8)	$10.25
17779	14	(355.6)	$12.00
17780	16	(406.4)	$13.00
17781	24	(609.6)	$13.25
17782	32	(812.8)	$19.50

Ball and Cup Load Introduction

- Design offers accurate point loading
- Self-centering effect built in
- Ease of manufacture for custom applications



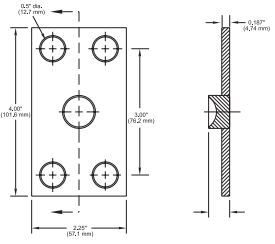


Load Receiver

- Use with load cup and ball bearings to build a custom scale
- Ball and cup load introduction provides point loading for maximum accuracy
- Stainless steel construction

Part #	Price
18832	$41.00 each





Ball Bearings

- Use with load cup and load receiver to build a custom scale
- 52100 chrome alloy steel

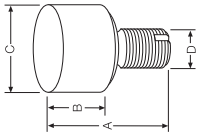
Part #	Dimensions	Price
18815	5/8" diameter crush strength 32,000 lbs	$9.00
18816	7/8" diameter crush strength 59,000 lbs	$11.00
65841	1.25 diameter crush strength 100,00 lbs	$20.00



Load Cups

- Ball and cup load introduction provides point loading for maximum accuracy
- For use with most popular single-ended beams



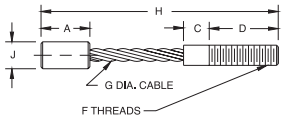


DIMENSIONS - INCHES (mm)

PART #	A	B	C	D	PRICE
31911	1.70 (43.2)	0.54 (13.7)	1.07 (27.2)	1/2-20 NF	$38.00
33654	1.12 (28.4)	0.54 (13.7)	0.78 (19.8)	1/2-20 NF	$25.00
33653	1.50 (38.1)	0.80 (20.3)	1.12 (28.4)	3/4-16 NF	$27.00
33652	2.00 (50.8)	0.85 (21.6)	1.75 (44.5)	1-12 NF	$72.00
33651	2.85 (72.4)	0.85 (21.6)	1.75 (44.5)	1-12 NF	$99.00
33650	2.85 (72.4)	0.85 (21.6)	1.75 (44.5)	1-14 NF	$99.00
33647	2.75 (69.9)	0.50 (12.7)	0.75 (19.1)	1/2-20 NF	$33.00
72364	1.78 (45.2)	0.53 (13.4)	0.78 (19.8)	1/2-20 NF	$47.00
69431	Replacement cup for Cardinal SCA-50 K load cell				$48.00

Wire Rope Assemblies

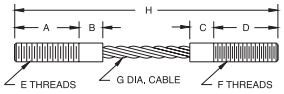
- Wire rope assemblies provide better alignment and greatly increase load cell repeatability. In addition, they act as natural vibration dampeners.





DIMENSIONS - INCHES (mm)

PART #	A	C	D	F	G	H	J	SAFE LOAD*	PRICE
17759	0.81 (20.6)	0.50 (12.7)	0.87 (22.1)	1/4-28 NF-2A	0.12 (3.0)	3.50 (88.9)	0.44 (11.2)	400 lb (181.4 kg)	$37.00





DIMENSIONS - INCHES (mm)

PART #	A	B & C	D	E	F	G	H	SAFE LOAD*	PRICE
17760	0.87 (22.1)	0.50 (12.7)	0.87 (22.1)	1/4-20 NC-2A	1/4-28 NF-2A	0.12 (3.1)	4.00 (101.6)	400 lb (181.4 kg)	$31.00
17762	1.25 (31.8)	0.50 (12.7)	1.25 (31.8)	3/8-16 NC-2A	3/8-24 NF-2A	0.18 (4.6)	5.00 (127.0)	850 lb (385.6 kg)	$47.00
17766	1.62 (41.1)	0.50 (12.7)	1.62 (41.1)	1/2-13 NC-2A	1/2-20 NF-2A	0.25 (6.4)	6.50 (165.1)	1400 lb (635.0 kg)	$47.00
17765	1.62 (41.1)	0.50 (12.7)	1.62 (41.1)	1/2-13 NC-2A	1/2-20 NF-2A	0.25 (6.4)	5.50 (139.7)	1400 lb (635.0 kg)	$47.00
17764	1.00 (25.4)	-	1.37 (34.8)	1/2-20 NF-2A	1/2-20 NF-2A	0.25 (6.4)	4.00 (101.6)	1400 lb (635.0 kg)	$50.00
17768	2.00 (50.8)	-	2.50 (63.5)	3/8-24 NF-2A	3/8-24 NF-2A	0.12 (3.1)	5.50 (139.7)	400 lb (181.4 kg)	$95.00
17769**	1.25 (31.8)	-	0.75 (19.1)	1/4-28 NF-2A	1/4-28 NF-2A	0.12 (3.1)	3.00 (76.2)	400 lb (181.4 kg)	$74.00
17770**	1.25 (31.8)	-	0.75 (19.1)	1/2-20 NF-2A	1/2-20 NF-2A	0.18 (4.6)	3.00 (76.2)	850 lb (385.6 kg)	$55.00
17771**	1.25 (31.8)	-	0.75 (19.1)	1/2-20 NF-2A	1/2-20 NF-2A	0.25 (6.4)	3.00 (76.2)	1400 lb (635.0 kg)	$55.00

** Do not exceed the safe load*

*** Used with Rice Lake Weighing Systems Flexure Bases*

Cardinal Wire Rope Replacement Assemblies

EL208 Cardinal wire rope assembly. Used on 7500 lb (3402.0 kg) capacity FH model and 8000 lb (3628.7 kg) capacity EP model.

EL209 Cardinal wire rope assembly. Used on 20,000 lb (9071.9 kg) capacity FH and EP models. May also be used on 15,000 lb (6803.9 kg) capacity FH and EP models.

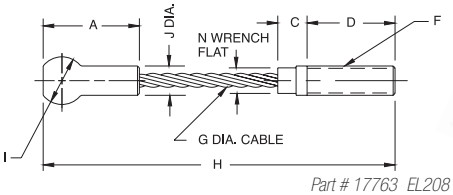
Custom Wire Ropes

- Custom wire ropes are available for your specific applications
- When ordering, please supply us with the specifications listed at right, a sample if possible, the required tension rating and total capacity

Style Wire Rope*

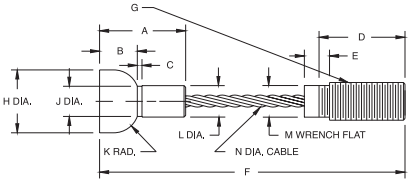
A Thread Length	**F** Threads	**K** Safe Load
B Shank Length	**G** Rope Diameter	**L** Environment
C Shank Length	**H** Overall Length	**M** Application
D Thread Length	**I** Ball Diameter	
E Threads	**J** Shank Diameter	

*Use drawings above for reference





Part # 17763 EL208





Part # 17767 EL209

DIMENSIONS - INCHES (mm)

PART #	A	B	C	D	E	F	G	H	I	J	K	L & M	N	PRICE
17763	1.50	-	0.50	1.50	-	1/2-13 NC	0.25	6.00	0.81	0.43	-	-	0.43	$55.00
	(38.1)	-	(12.7)	(38.1)	-	–	(6.4)	(152.4)	(20.6)	(10.9)	-	-	(10.9)	
17767	1.71	0.75	0.09	2.00	0.43	6.31	3/4-10 UNC-2A	1.25	-	0.60	0.50	0.625	0.375	$64.00
	(43.4)	(19.1)	(2.3)	(50.8)	(10.9)	(160.3)		(31.8)	-	(15.2)	(12.7)	(15.9)	(9.5)	

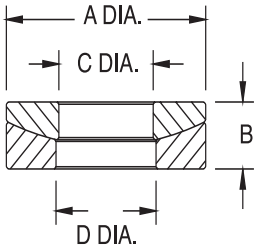
Important: Read "Load Cell Mounting Hardware Safety Guidelines" at the beginning of this section.

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Spherical Washer Sets



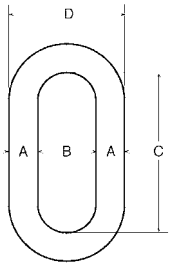


DIMENSIONS - INCHES (mm)

PART #	BOLT SIZE	A	B	C	D	PRICE
Mild Steel:						
15196	0.25 (6.4)	0.62 (15.8)	0.20 (5.1)	0.28 (7.1)	0.31 (7.9)	$6.75
15197	0.38 (9.7)	0.88 (22.4)	0.25 (6.4)	0.41 (10.4)	0.44 (11.2)	$8.75
15198	0.50 (12.7)	1.12 (28.5)	0.31 (7.9)	0.53 (13.5)	0.56 (14.2)	$9.25
15199	0.62 (15.8)	1.38 (35.1)	0.31 (7.9)	0.66 (16.8)	0.69 (17.5)	$10.25
15200	0.75 (19.1)	1.62 (41.1)	0.38 (9.7)	0.78 (19.8)	0.81 (20.6)	$16.50
15201	1.00 (25.4)	2.00 (50.8)	0.50 (12.7)	1.06 (26.9)	1.12 (28.5)	$26.00
15202	1.25 (31.8)	2.62 (66.6)	0.50 (12.7)	1.31 (33.3)	1.38 (35.1)	$55.00
15203	1.50 (38.1)	2.88 (73.2)	0.53 (13.5)	1.56 (39.6)	1.62 (41.1)	$63.00
15204	1.75 (44.5)	3.25 (82.6)	0.69 (17.5)	1.81 (46.0)	1.88 (47.8)	$87.00
15205	2.00 (50.8)	3.88 (98.6)	0.81 (20.6)	2.06 (52.3)	2.12 (53.8)	$95.00
Stainless Steel:						
33218	0.50 (12.7)	1.12 (28.5)	0.31 (7.9)	0.53 (13.5)	0.56 (14.2)	$14.00
33220	0.75 (19.1)	1.62 (41.1)	0.38 (9.7)	0.78 (19.8)	0.81 (20.6)	$24.00

Weldless End Links

- Self colored or hot-dip galvanized
- Forged carbon steel—quenched and tempered





DIMENSIONS - INCHES (mm)

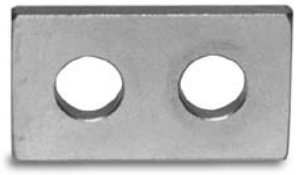
PART #	A	B	C	D	SAFE LOAD*	PRICE
F312L	0.625 (15.9)	1.00 (25.4)	3.25 (82.6)	2.32 (58.9)	9300 lb (4218.4 kg)	$31.00
17810	0.875 (22.2)	2.00 (50.8)	5.13 (130.3)	3.75 (95.3)	12,000 lb (5443.1 kg)	$105.00
21911	1.00 (22.2)	2.25 (57.2)	5.75 (146.1)	4.25 (108.0)	15,200 lb (6894.6 kg)	$250.00
65430	1.25 (31.8)	2.50 (63.5)	7.00 (177.8)	5.00 (127.0)	26,400 lb (11,974.9 kg)	$111.00
21912	1.375 (34.9)	2.75 (69.9)	7.75 (196.9)	5.50 (139.7)	30,000 lb (13,607.8 kg)	$305.00

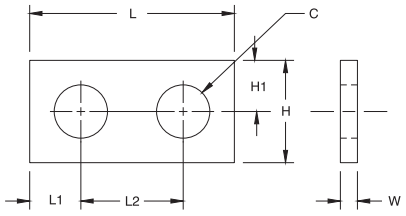
** Do not exceed the safe load*

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Load Cell Spacers

- Use with most popular single-ended beams
- Provides flat mounting surface required for optimum load cell performance
- Zinc-plated mild steel or stainless steel





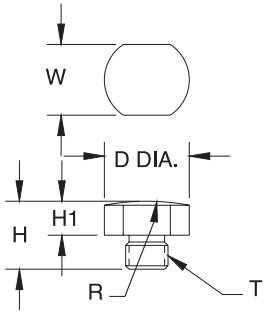
DIMENSIONS - INCHES (mm)

PART #	C	H	H1	L	L1	L2	W	PRICE
Mild Steel:								
17754	0.53 (13.4)	1.25 (31.8)	0.62 (15.7)	2.25 (57.2)	0.62 (15.7)	1.00 (25.4)	0.25 (6.4)	$18.00
17755	0.78 (19.8)	1.50 (38.1)	0.75 (19.1)	3.00 (76.2)	0.75 (19.1)	1.50 (38.1)	0.25 (6.4)	$18.25
17756	1.03 (26.2)	2.00 (50.8)	1.00 (25.4)	4.00 (101.6)	1.00 (25.4)	2.00 (50.8)	0.25 (6.4)	$19.25
18260	0.53 (13.4)	1.25 (31.8)	0.62 (15.7)	2.25 (57.2)	0.62 (15.7)	1.00 (25.4)	0.37 (9.4)	$21.00
Stainless Steel:								
17757	0.78 (19.8)	1.50 (38.1)	0.75 (19.1)	3.00 (76.2)	0.75 (19.1)	1.50 (38.1)	0.25 (6.4)	$26.00
18383	0.53 (13.4)	1.25 (31.8)	0.62 (15.7)	2.25 (57.2)	0.62 (15.7)	1.00 (25.4)	0.37 (9.4)	$22.00
18411	0.53 (13.4)	1.25 (31.8)	0.62 (15.7)	2.25 (57.2)	0.62 (15.7)	1.00 (25.4)	0.25 (6.4)	$21.00

Load Button

- Suitable for use with compression mounting assemblies, canisters, S-beams and single-ended beams
- Hardened alloy steel



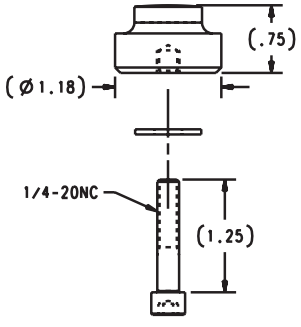


DIMENSIONS - INCHES (mm)

PART #	T	D	H	H1	R	W	PRICE
17750	3/8-24 UNF	0.75 (19.1)	0.60 (15.2)	0.30 (7.6)	2.00 (50.8)	0.63 (16.0)	$18.25
17751	1/2-20 UNF	0.75 (19.1)	0.70 (17.8)	0.30 (7.6)	4.00 (101.6)	0.63 (16.0)	$18.25
17752	3/4-16 UNF	1.50 (38.1)	0.90 (22.9)	0.30 (7.6)	6.00 (152.4)	1.25 (31.8)	$21.00

Load Button Insert Kit - Part

- To be used with RLSSB and RTISSB load cells (1k-5k)
- Hardened alloy steel



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Surefoot™

- Replacement foot, adapts to most floor scales
- Use with single-ended beams to provide large, flat, adjustable introduction surface
- Special neoprene rubber sandwich base gives high accuracy, linearity and repeatability



DIMENSIONS - INCHES (mm)

PART #	MATERIAL	THREAD SIZE	BASE HT.	TOTAL HT.	DIAMETER	PRICE
18756	Stainless Steel	1/2-20 UNF	0.75 (19.1)	2.62 (66.5)	3.47 (88.1)	$45.00
39021	Mild Steel	3/4-16 UNF-2B	0.875 (22.3)	3.25 (82.3)	4.40 (111.76)	$86.00
39022	Mild Steel	3/4-16 UNF-2B	0.0875 (2.2)	4.06 (103.1)	5.40 (137.16)	$125.00
110930	Mild Steel	1-14 UNF	1.0 (25.4)	4.06 (103.1)	5.04	$180.00
110930	Mild Steel	1-14 UNF	1.0 (25.4)	4.06 (103.1)	5.40 (137.16)	$180.00

Flintec Adjustable Rubber Foot

- Designed for platform scales containing Flintec SLB load cell
- Blind hole introduction
- Low profile
- Height adjustable by rotation
- Including spacer



Flintec SLB, SB4, SB5, SB14 and SB6

PART #	Foot DIAMETER INCHES (MM)	Load Cell Capacity	PRICE
46230	2.36 (60)	200-500 lb	$56.00
77561	3.14 (80)	1000-5000 lb	$56.00

Flintec BK2

PART #	Foot DIAMETER INCHES (MM)	Load Cell Capacity	PRICE
87096	3.140 (80)	200 kg-2000 kg	$56.00

Bench Scale Feet

Rubber Pad

- 1/4-20 NC threads



Part #	Price
35128	$12.25 each

Bench Scale Feet

Stainless Steel

- 3/8-16 threads



Part #	Price
19141	$5.50 each

Polyurethane Rubber Leveling

- 3" (76.2 mm) overall height, all diameters
- Stainless steel stem for corrosion resistance
- Heavy-duty construction, low cost replacement feet
- Four standard diameters all with 1/2-20 UNF SS stud, slotted for top-access applications
- Zinc plated carbon steel jam nut provided
- Top of stud is machined undersized 10% for easy alignment into load cell



Part #	Foot Diameter Inches	Height inches	Price
74585	1.87	3	$28.00
74586	2.00	3	$28.00
74587	2.50	3	$28.00
73801	3.00	3	$28.00

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Carbon Steel Captured Ball Floor Scale Leveling Feet



- Bright zinc and clear chromate plating for corrosion-resistance
- Active ball suspension provides ideal load cell loading with maximum side load protection
- Hardened alloy steel with plated finish
- Includes two jam nuts, one for wrench access
- Top of stud is machined undersized 10% for easy alignment into load cell plus slotted for top-access applications

Part #	Foot Diameter Inches	Thread Size Inches	Height Inches	Price
74578	1.87	1/2-20 UNF	3.5	$40.00
74579	2.00	1/2-20 UNF	3.5	$40.00
74580	2.50	1/2-20 UNF	3.5	$40.00
74581	3.00	1/2-20 UNF	3.5	$40.00
74582	3.00	3/4-16 UNF	4.5	$50.00
74583	3.00	1-12 UNF	4.5	$60.00
74584	3.00	1-14 UNF	4.5	$60.00

Stainless Steel Captured Ball Floor Scale Leveling Feet



- Provides outstanding accuracy, repeatability and performance
- Active ball suspension provides optimum load cell performance
- Hardened stainless steel material, welded, with polished finish
- Includes two stainless steel jam nuts, one for wrench access
- Top of stud is machined undersized 10% for easy alignment into load cell plus slotted for top-access applications

Part #	Foot Diameter Inches	Thread Size Inches	Height Inches	Price
74572	1.87	1/2-20 UNF	3.5	$58.00
74573	2.00	1/2-20 UNF	3.5	$58.00
73800	2.50	1/2-20 UNF	3.5	$58.00
74574	3.00	1/2-20 UNF	3.5	$58.00
74575	3.00	3/4-16 UNF	4.5	$68.00
74576	3.00	1-12 UNF	4.5	$88.00
74577	3.00	1-14 UNF	4.5	$88.00
*92380	2.50	1/2-20 UNF	3.5	$58.00

**Stem is fully threaded*

Leveling Pads



- Replacement feet, adapt to most floor scales
- Available in cadmium-plated steel or stainless steel
- Simple "swivel" design
- Use with single-ended shear beams or bending beams to provide a large, flat load introduction surface

Part #	Thread Size	Height Inches	Diameter Inches	Price
Mild Steel:				
18817	1/2-13 NC	1.12	1.87	$25.00
18820	3/4-10 NC	1.50	3.00	$44.00
Stainless Steel:				
18818	1/2-13 NC	1.12	1.87	$59.00
18833	3/4-10 NC	1.50	3.00	$103.00

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Leveling Mount

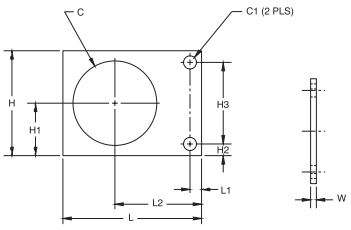
- Designed for use with some floor scales or machinery platforms.
- Can be used as a replacement foot on the "SP" floor scale to limit vibrations transmitted to the scale through the floor
- Provides vibration isolation on most portable platforms

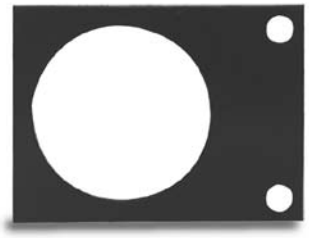


Part #	Thread Size	Height Inches	Diameter inches	Price
18819	1/2-13 NC	1.81	5.00	$100.00

RoughDeck® Scale Base Mounting Plates

- Secures RoughDecks and other popular floor scales
- Prevents movement in horizontal plane
- Useful with Surefoot and other load cell foot assemblies
- Available in stainless steel and mild steel



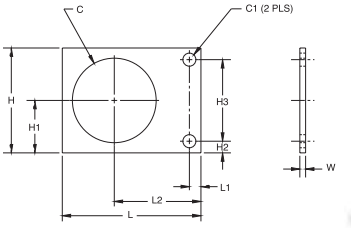


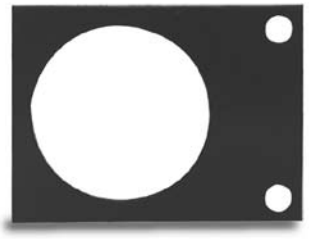
DIMENSIONS - INCHES

PART #	MTL.	C	C1	H	H1	H2	PRICE
19075	MS	3.62	0.56	4.50	2.25	0.50	$15.00
19076	SS	3.62	0.56	4.50	2.25	0.50	$18.00

Summit® 3000 Scale Base Mounting Plates

- Mounting plate for DIGI® Summit® 3000 floor scales
- Available in mild steel painted DIGI® green

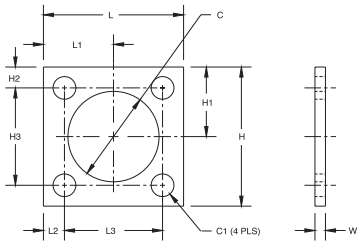




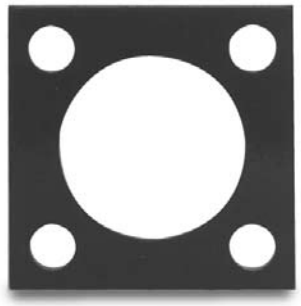
DIMENSIONS - INCHES

PART #	MTL.	C	C1	H	H1	PRICE
76149	MS	3.19	0.56	4.50	2.25	$15.00

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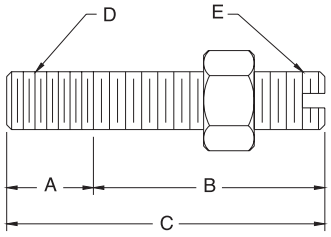


Floor Scale Mounting Plates

- Suitable for use with leveling pads
- Generic mounting plate for popular floor scales
- Fits most floor scale foot assemblies
- Available in stainless steel and mild steel (mild steel parts are zinc plated/painted)

DIMENSIONS - INCHES

PART #	C	C1	H	H1	H2	H3
Mild Steel:						
18737	2.00	0.53	4.00	2.00	0.50	8.00
18738	3.25	0.81	5.00	2.50	0.75	9.00
Stainless Steel:						
18751	2.00	0.53	4.00	2.00	0.50	32.00



Leveling Pad Stems

- For use with leveling pads
- One jam nut included

DIMENSIONS - INCHES (mm)

PART #	A		B		C		D	E	SLOT	MATERIAL	PRICE
Mild Steel:											
17693	0.75	(19.1)	2.00	(50.8)	2.75	(69.9)	3/4-10 NC	3/4-16 NF	NO	1045	$14.50
Stainless Steel:											
17689	0.50	(12.7)	1.50	(38.1)	2.00	(50.8)	1/2-13 NC	1/2-20 NF	YES	SS	$14.50
17695	0.75	(19.1)	2.00	(50.8)	2.75	(69.9)	3/4-10 NC	3/4-16 NF	NO	SS	$27.00

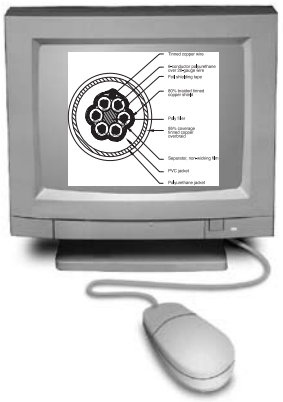
Warning: Do not use to suspend a load

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Complete Custom Cable Services

- Special cable requirements?
- Custom-built cable designed specifically for your application.
- Choose from the following design elements and Rice Lake Weighing Systems will build a cable to your specifications.
- Quick turnaround
- Competitively priced
- 5000 ft minimum purchase
- Call a Rice Lake Weighing Systems sales representative to begin the design process!



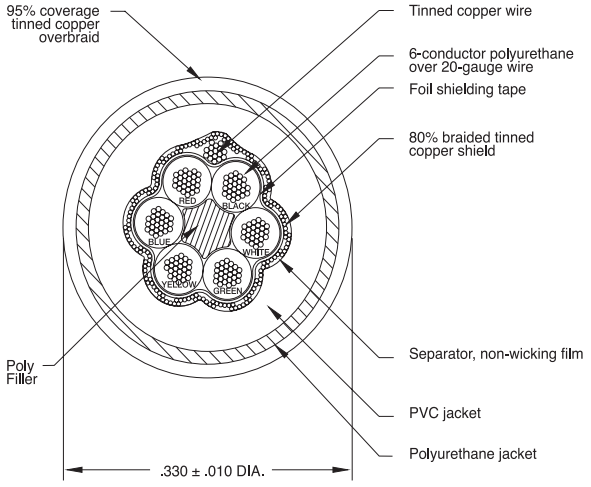
Jacket Material:
PVC
Polyurethane
Double-jacketed
Conductors:
Unlimited number
Twisted pairs
Color code
Gauge
Shielding:
Braided
Foil
Jacket Colors:
Black, brown, green, orange, red, blue, yellow, gray, natural
Ink Colors:
Black, white, silver, orange
Custom logos
Approvals:
UL listed
CSA

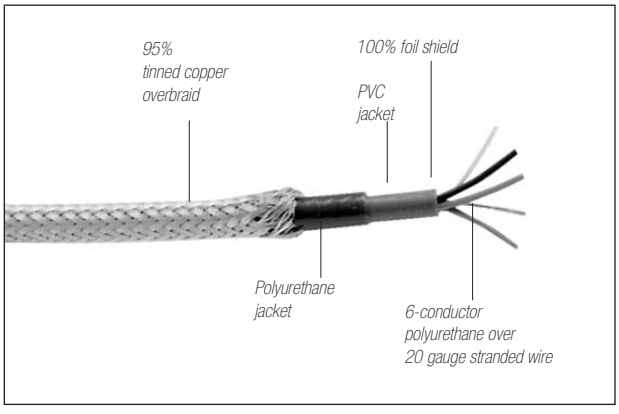
EL147RP Rodent Protection Cable

- Tinned copper overbraid provides superior rodent and abrasion deterrent
- Enhanced EMI/RFI protection
- 6-conductor industry-standard color code
- Ideal for truck and railroad track scales
- Diameter: 0.33" (8.38 mm)
- Temperature rating -30°C (-22°F) to 80°C (126°F)

Part #	Continuous Feet (m)/roll	Description	Price
31475	Custom length	6-Conductor Hostile Environment Cable	$3.40/ft
53204	100 (30.5)	6-Conductor Hostile Environment Cable	$315.00
53206	250 (76.2)	6-Conductor Hostile Environment Cable	$785.00
53207	500 (152.4)	6-Conductor Hostile Environment Cable	$1,565.00
53208	1000 (304.8)	6-Conductor Hostile Environment Cable	$2,895.00

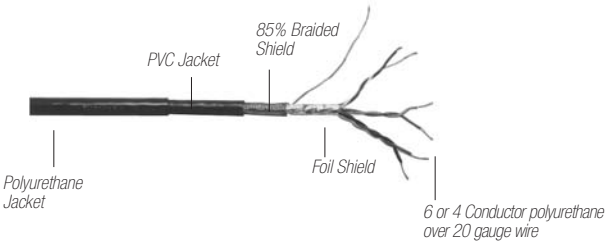
EL147RP

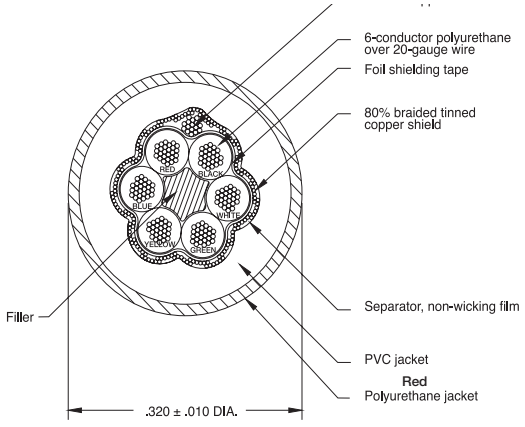




Hostile Environment Load Cell Cable

- EL146HE—4-Wire Load Cell Cable
- EL147HE—6-Wire Load Cell Cable
- Designed for use in hostile environments
- Polyurethane jacketing provides superior chemical and abrasion resistance
- RFI and EMI protected with foil overbraid shield
- Unmatched durability, yet extremely flexible
- All conductors are industry-standard color coded
- Diameter—EL146HE: 0.28" (7.1 mm); EL147HE: 0.32" (8.1 mm)
- The 6-wire cable is best suited for longer runs where remote sense lines can be used
- Use the 4-wire cable for repairing or extending existing cable
- Temperature rating: -30°C (-22°F) to 80°C (126°F)

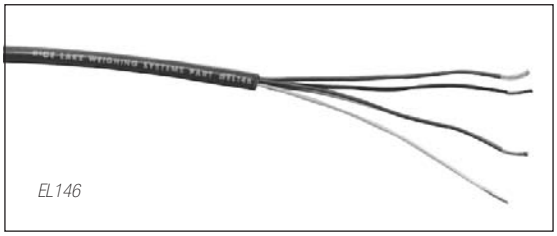


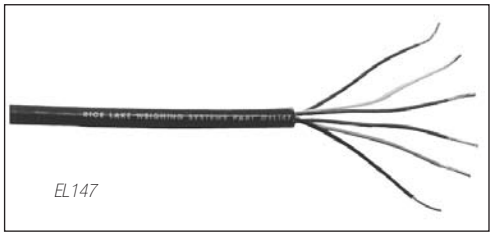


PART #	Continuous Feet (m)/ROLL		Description	Price
15510	100	(30.5)	4-Conductor Hostile Environment Cable	$145.00
15511	250	(76.2)	4-Conductor Hostile Environment Cable	$355.00
15512	500	(152.4)	4-Conductor Hostile Environment Cable	$685.00
15513	1000	(304.8)	4-Conductor Hostile Environment Cable	$1,295.00
15494	Custom Length		4-Conductor Hostile Environment Cable	$1.50/ft
15520	100	(30.5)	6-Conductor Hostile Environment Cable	$210.00
15521	250	(76.2)	6-Conductor Hostile Environment Cable	$495.00
15522	500	(152.4)	6-Conductor Hostile Environment Cable	$950.00
15523	1000	(304.8)	6-Conductor Hostile Environment Cable	$1,795.00
15496	Custom Length		6-Conductor Hostile Environment Cable	$2.30/ft

Standard Load Cell Cable

- EL146—4-Wire Load Cell Cable
- EL147—6-Wire Load Cell Cable
- 20 AWG tinned copper wire stranded for flexibility
- Braided shielding is encased in red PVC
- All conductors are industry-standard color coded
- Diameter—EL146: 0.25" (6.4 mm);EL147: 0.29" (7.4 mm)
- The 6-wire cable is best suited for longer runs where remote sense lines can be used
- Use the 4-wire cable for repairing or extending existing cable
- Temperature rating: -30°C (-22°F) to 80°C (126°F)





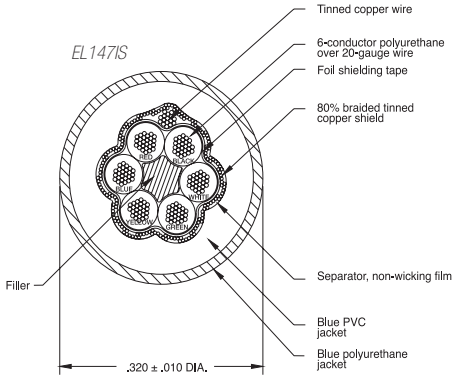
Part #	Continuous Feet (m)/roll		Description	Price
15505	100	(30.5)	4-Conductor Cable	$115.00
15506	250	(76.2)	4-Conductor Cable	$235.00
15507	500	(152.4)	4-Conductor Cable	$495.00
15508	1000	(304.8)	4-Conductor Cable	$795.00
15493	Custom Length		4-Conductor Cable	$1.20/ft
15515	100	(30.5)	6-Conductor Cable	$165.00
15516	250	(76.2)	6-Conductor Cable	$410.00
15517	500	(152.4)	6-Conductor Cable	$755.00
15518	1000	(304.8)	6-Conductor Cable	$1,495.00
15495	Custom Length		6-Conductor Cable	$1.85/ft

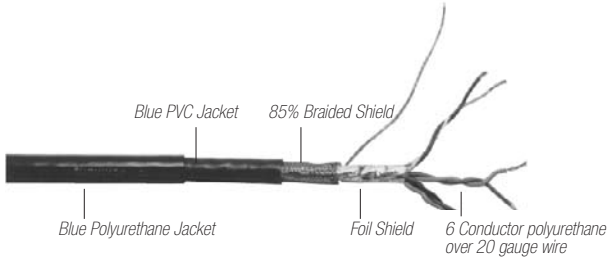
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EL147IS Hazardous Environment Blue Jacket Cable

- Designed for intrinsically safe applications (must be wired according to Factory Mutual System-approved diagram)
- Polyurethane over PVC double jacketing provides superior chemical and abrasion resistance
- Both foil and braided wire shields for added RFI and EMI protection
- 6 conductors are industry-standard color coded (Also available 3 conductor)
- Diameter— 0.32" (8.1 mm)
- Suited for longer runs where remote sense lines can be used
- Temperature rating: -30°C (-22°F) to 80°C (126°F)

Part #	Description	Price
32817	EL147IS, 6 conductor	$2.65/ft
72241	HE blue jacket, shielded 3 conductor	$3.75/ft





EL144 Communications Cable

- 2-conductor with bare ground
- RFI/EMI protected with foil shield
- Perfect for RS-232, 2-wire RS-485, and 20 mA current loop communications
- Diameter: 0.19" (4.8 mm)

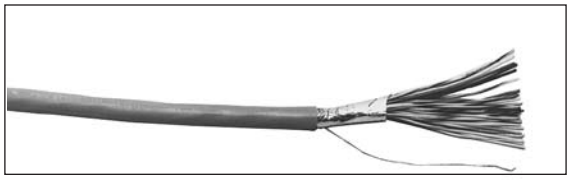
Part #	Description	Price
32803	EL144	$0.70/ft
72072	EL144, 500 ft	$275.00
72693	EL144, 1000 ft	$495.00



BCD Cable

- Sheathed in gray PVC
- Mylar aluminum foil shield with stranded tinned copper drain wire
- Diameter: 0.375" (9.5 mm)

Part #	Description	Price
15497	BCD, 24 AWG, 30-conductor	$18.00/ft



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Fiber Optic Cable

- Duplex cable polyethylene black jacket material
- 4.4 + 0.10 mm outer diameter of duplex cable
- 2.2 + 0.007 mm single cable outer diameter
- Operating temperature: 32°F (-55°C) to 158°F (70°C)



Color Code
Black-TXD
Blue-RXD

Part #	Description	Price
78910	Custom length	$1.30/ft
78026	100 ft cable (30.48 m)	$130.00
78027	200 ft cable (60.96 m)	$260.00
78028	300 ft cable	$387.00
83052*	Fiber optic connector	$38.00
80892	Fiber optic cable cutter	$7.00
85548	Fiber optic hot knife	$45.00

** Duplex fiber cable requires two connectors*
** Maximum guaranteed transmission distance when used with the 320IS/IO Module is 240'*

SURVIVOR® EL620HE High Temperature Cable

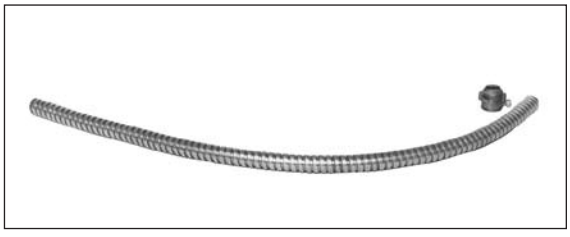
- Multiconductor overall foil and braid shield
- Suitable for high temperatures up to 392°F (200°C)
- Insulation thickness - 0.010" (0.25 mm)
- Jacket thickness - 0.017" (0.43 mm)
- 18 gauge, tinned copper conductors
- 6 wire or 6 conductor
- Teflon® jacket, resistant to chemical corrosion and high temperature
- Beldfoil aluminum-polyester shield with 85% tinned copper braid shield
- 150V NEC 725 Class 2 classified for use in an airplenum non-conduit
- Teflon is a registered trademark of E.I. Dupont.
- 24" diameter cable



Part #	Description	Price
15605	EL620HE	$9.00/ft

SURVIVOR Cable Armor

- Flexible all metal protective armor
- Ideal for protecting load cell cable from mechanical abrasion or rodents
- Available in stainless steel and galvanized steel
- 0.5" (12.7 mm) internal diameter, 2.0" (50.8 mm) minimum bend radius
- Optional end fitting with 1/2" male pipe thread

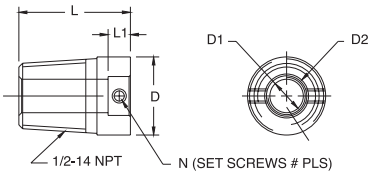


Part #	Description	Price
17808	Galvanized steel	$2.15/ft
17806	Stainless steel	$4.10/ft
17807	Optional end fitting	$1.75 each

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Load Cell Conduit Adapters

- Used to adapt conduit to load cells
- 303 stainless steel

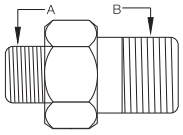




DIMENSIONS - INCHES (mm)

PART #	D	D1	D2	L	L1	PRICE
Clamp-On:						
17680*	1.38 (35.1)	0.44 (11.2)	1.00 (25.4)	1.69 (42.9)	0.72 (18.3)	$47.00
17681	0.85 (21.6)	0.38 (9.7)	0.44 (11.2)	1.25 (31.8)	0.38 (9.7)	$33.00

** Discontinued; limited to quantities on hand*





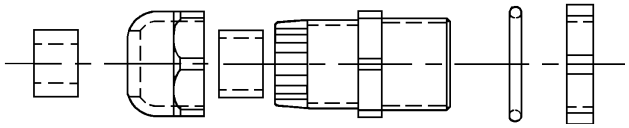
DIMENSIONS

PART #	A	B	PRICE
Thread-On:			
31533	3/8-24 UNF	—	$27.00
31534	—	1/4-18 NPT	$27.00
31535	5/8-18 UNF	1/2-14 NPT	$38.00

Note: 31533 and 31534 are used together to form male-to-male adapter

Cord Grip Assemblies

- Assemblies include cord grip, locknut, "O"-ring seal, gray and black reducer glands
- Fittings are made of weather- and corrosion-resistant nylon

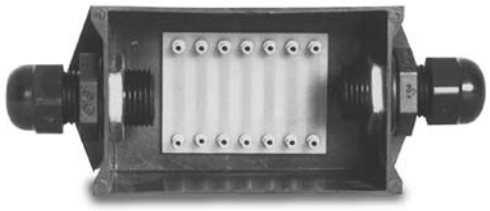


GLAND CABLE RANGES—INCHES (mm)

PART #	THREAD	PANEL HOLE DIAMETER-INCHES (MM)	REGULAR (BLACK)	REDUCER (GRAY)	PRICE
15669	PCN9	0.625 (15.9)	.157 - .314 (4.0 - 8.0)	.118 - .236 (3.0 - 6.0)	$4.25
15670	3/8 NPT	0.687 (17.4)	.157 - .314 (4.0 - 8.0)	.118 - .236 (3.0 - 6.0)	$3.95
15671	1/2 NPT	0.844 (21.4)	.236 - .472 (6.0 - 12.0)	.200 - .354 (5.1 - 9.0)	$4.65

EL214 Cable Splicing Kit

- Designed for a complete, professional transducer cable splice
- Prevents moisture from entering the load cell through the cable connector
- Each kit contains a high-impact plastic splicing box, liquid-tight cable fittings, circuit card, Teflon® sleeving, pre-measured potting compound and complete instructions



SPECIFICATIONS:

Dimensions:	3.00 W x 1.00 H x 1.50 in D (76.2 W x 25.4 H x 38.1 mm D)
Mounting Centers:	2.50 in (63.5 mm)
Number of Connections:	7
Cable Diameter:	0.187-0.312 in (4.7 mm-7.9 mm)
Cure Time For Potting:	Epoxy-Polyamide resin cures in 2 hours at 73°F (23°C)

Teflon is a registered trademark of E.I. Dupont.

Part #	Description	Price
15485	EL214	$115.00

EL214T Cable Splicing Kit

- Designed to accommodate cables larger than the EL214; all other dimensions and performance features are the same



SPECIFICATIONS:

Dimensions:	3.00" W x 1.00" H x 1.50" D (76.2 mm W x 25.4 mm H x 38.1 mm D)
Mounting Centers:	2.50" (63.5 mm)
Number of Connections:	7
Cable Diameter:	0.270"-0.480" (6.9 mm-12.2 mm)
Cure Time For Potting:	Epoxy-Polyamide resin cures in 2 hours at 73°F (23°C)

Part #	Description	Price
15486	EL214T	$125.00

EL215 Cable Splicing Kit

- Designed for use in weather-exposed or direct-burial locations
- Each kit contains plastic splicing tube, circuit board, insulating resin and instructions



SPECIFICATIONS:

Dimensions:	1.375" dia x 6.0" long (34.9 mm dia x 152.4 mm)
Number of Connections:	7
Cable Diameter:	up to .75" (19.1 mm)
Cure Time For Potting:	2 hours at 70°F (21°C)

Part #	Description	Price
15612	EL215	$65.00

Flintec Load Cell Cable Replacement Kits

- Each kit includes cable for four Flintec SB4 or UB1 load cells as listed



Part #	Description	Cable length ea. feet (m)		Price
18412	For SB4, 225-5200lb (102.1-2358.7kg)	10'	(3.1 m)	$310.00
18413	For SB4, 11250 - 22,500 lb	15'	(4.6 m)	$345.00

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EL148 HE Replacement Mettler Toledo® Power Cell® Cable



- 100% stainless steel military connector-electro deposited nickel plating with stainless banding and epoxy heat shrink strain relief
- Stainless steel artic ring precision cut for improved connection
- Textured rubber boot for additional grip
- Standard Mettler Toledo color code
- Custom lengths available including standard lengths listed below cables

Mettler Toledo is a registered trademark of Mettler-Toledo, Inc.

PART #	CABLE LENGTH EA. FEET	PRICE
100268	8'	$295.00
101102	12'	$315.00
104164	15'	$318.00
100269	26'	$365.00
100270	35'	$375.00

Wireless Load Cell Interface



- Works with any basic programmable indicator
- Excitation to load cell(s) provided by the transmitter, not an indicator
- No indicator needed at scale
- Each transmitter/receiver set is individually paired - will not interfere with another set
- Internal rechargeable battery
- Sleep mode

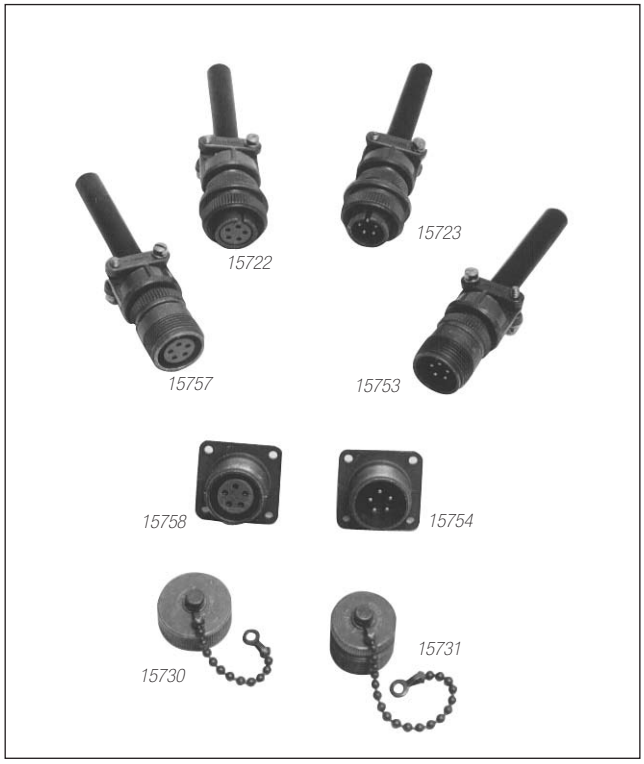
SPECIFICATIONS:

Accuracy	1/5000 for any indicator
Frequency bands	800-928MMHz
Power consumption	270 hrs - 1 350 ohms load cell 120 hrs - 4 350 ohms load cells
Range	90 meters/295 feet default setting - medium power selectable settings - low & high power
Transmitter	Excitation 3.3v Input <12.9mv Source power 4V - 6V
Receiver	Excitation 5-15V Output 2mV/V
Cable connection	+ ....Excitation +.....Signal –.....Signal – ....Excitation Shield... Ground
Enclosure	Anodized Aluminum NEMA 12
Turn on/off	Remote turn on/off through indicator power
Signal	Green LED: Fast flash = strong Slow flash = searching Red LED: Low battery Yellow LED: Re-charging indicator

PART #	DESCRIPTION	PRICE
113774	Two radio kit	$1,295.00

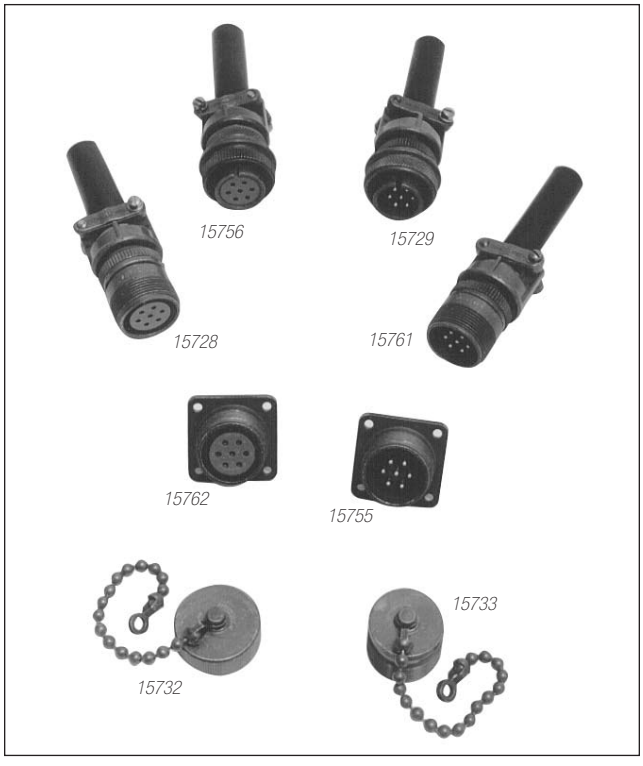
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5-POSITION CONNECTORS, SHELLPLUGS, RECEPTACLES



6-POSITION CONNECTORS, SHELLPLUGS, RECEPTACLES



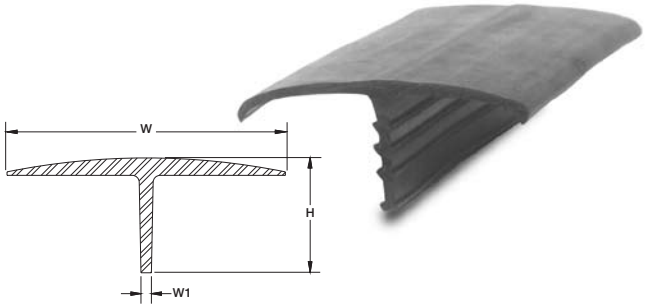


Part #	Description	Price
15753	5-pin, external thread	$26.00
15722	5-socket, internal thread	$27.00
15723	5-pin, internal thread	$26.00
15757	5-socket, external thread	$32.00
15754	5-pin chassis mount, external thread	$18.00
15758	5-socket chassis mount, external thread	$18.00
15730	Dust cap for ext. thread 5-position connector	$9.00
15731	Dust cap for int. thread 5-position connector	$13.00
15759	6-pin, external thread, male	$26.00
60124	6-socket, internal thread connector, female fits Toledo load cells, Condec indicators	$22.00
15727	6-pin, internal thread, male	$25.00
15724	6-socket, external thread	$29.00
15726	6-pin chassis mount, external thread	$18.00
15760	6-socket chassis mount, external thread	$17.00
15730	Dust cap for ext. thread 6-position connector	$9.00
15731	Dust cap for int. thread 6-position connector	$13.00
15761	7-pin, external thread	$27.00
15756	7-socket, internal thread	$29.00
15729	7-pin, internal thread	$29.00
15728	7-socket, external thread	$29.00
15755	7-pin chassis mount, external thread	$18.00
15762	7-socket chassis mount, external thread	$21.00
15732	Dust cap for ext. thread 7-position connector	$14.00
15733	Dust cap for int. thread 7-position connector	$18.00

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T-Grip Molding

- Designed for use in truck scale applications to prevent spill-over into the pit
- Impact-, tear- and weather-resistant EPDM rubber
- Barbed web to hold molding in place
- Available by the foot or in 10.0' (3.1 m), 11.0' (3.4 m), 70.0' (21.34 m), 80.0' (24.4 m) and 100.0' (30.5 m) lengths. Maximum continuous length is 350' (30.5 m)
- Web thickness .22" (5.6 mm)



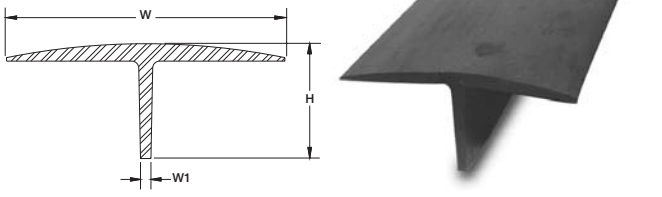
DIMENSIONS - INCHES (mm)

PART #	H	W	W1	Length	PRICE
18799	2.56 (65.0)	5.75 (146.1)	0.22 (5.6)	Sold by the foot	$6.00/ft
18800	2.56 (65.0)	5.75 (146.1)	0.22 (5.6)	10' (3.05m)	$60.00
18801	2.56 (65.0)	5.75 (146.1)	0.22 (5.6)	11' (3.35m)	$65.00
18802	2.56 (65.0)	5.75 (146.1)	0.22 (5.6)	70' (21.34m)	$380.00
33219	2.56 (65.0)	5.75 (146.1)	0.22 (5.6)	80' (24.4m)	$405.00
33222	2.56 (65.0)	5.75 (146.1)	0.22 (5.6)	100' (30.5m)	$500.00

** Maximum continuous length is 350' Call for price and availability*

T-Strip Molding

- Designed for use in truck scale applications to prevent spill-over into the pit
- Impact-, tear- and weather-resistant SBR rubber
- Available by the foot or in 10.0' (3.1 m), 11.0' (3.4 m), 70.0' (21.34 m), 80.0' (24.4 m) and 100.0' (30.5 m) lengths. Maximum continuous length is 350' (30.5 m)
- Web thickness .25" (6.4 mm)



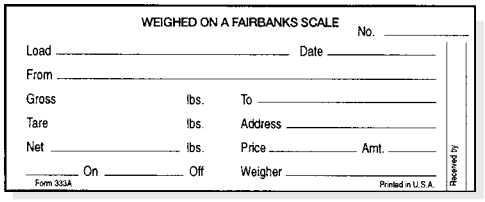
DIMENSIONS - INCHES (Mm)

PART #	H	W	W1	Length	PRICE
18736	2.00 (50.8)	4.50 (114.3)	0.25 (6.4)	Sold by the foot	$5.50/ft
18776	2.00 (50.8)	4.50 (114.3)	0.25 (6.4)	10' (3.05m)	$55.00
18797	2.00 (50.8)	4.50 (114.3)	0.25 (6.4)	11' (3.35m)	$60.00
18798	2.00 (50.8)	4.50 (114.3)	0.25 (6.4)	70' (21.34m)	$350.00
33223	2.00 (50.8)	4.50 (114.3)	0.25 (6.4)	80' (24.4m)	$390.00
33224	2.00 (50.8)	4.50 (114.3)	0.25 (6.4)	100' (30.5m)	$470.00

** Maximum continuous length is 350' Call for price and availability*

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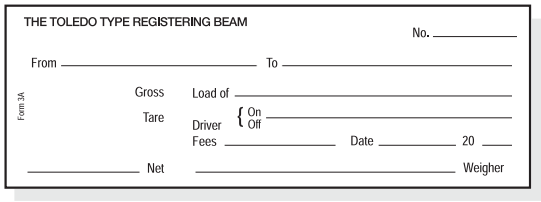
Mechanical Scale Tickets



Carbon triplicate with 2.0" (50.8 mm) tear-off flap

- Size: 1.875" x 4.75" (47.6 mm x 120.7 mm)
- Order quantity: 500 per package

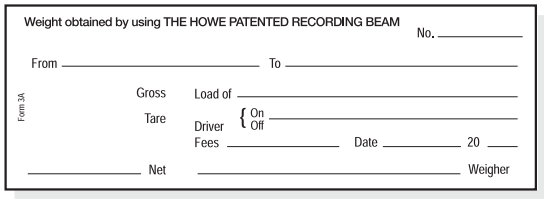
Part #	Description	Price
20260	Fairbanks Scales	$58.00



Carbon duplicate with 2.0" (50.8 mm) tear-off flap

- Size: 1.75" x 5.5" (44.5 mm x 139.7 mm)
- Order quantity: 500 per package

Part #	Description	Price
20262	Toledo Scales	$58.00



Carbon triplicate with 2.0" (50.8 mm) tear-off flap

- Size: 1.75" x 5.5" (44.5 mm x 139.7 mm)
- Order quantity: 500 per package

Part #	Description	Price
20261	Howe Scales	$58.00

Blank Scale Tickets

- 3-part carbonless Attached on the 4.25" side
- Size: 5.5" x 4.25" (139.7 mm x 108 mm)

Part #	Description	Price
22263	Blank Scale Ticket	0.19¢ each



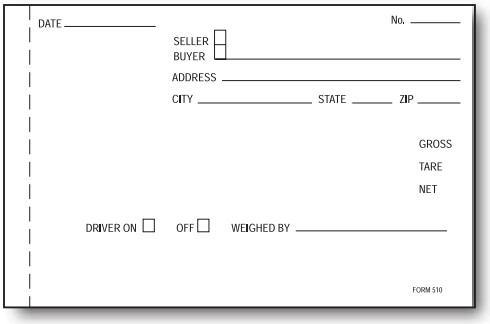
Carbonless Duplicate

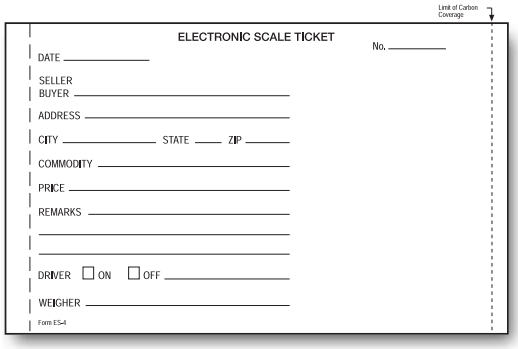
- Size: 4.25" x 7" (108 mm x 177.8 mm) Attached at the top
- Order quantity: 500 per package

Part #	Description	Price
71630	Rice Lake Scales, duplicate	$48.00
105182	Rice Lake Scales, triplicate	$68.00

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Electronic Scale Tickets





Carbon triplicate interleaved

- Size: 5.0" x 7.875" (127.0 mm x 200.0 mm)
- Order quantity: 500 per package

Part #	Description	Price
20266	Hecon printers, EL522 & EL516	$85.00

Carbon triplicate interleaved perforated and glued on one end

- Size: 5.5" x 9.0" (139.7 mm x 228.6 mm)
- Order quantity: 500 per package

Part #	Description	Price
20265	SP2000, SP2200, EL250 & EL500	$89.50

Scale Veils

- Tough, flexible transparent vinyl, constructed with heavy-duty stitching
- Loose fit allows for operation of switches or controls through the scale veil
- Available for most types of scale equipment

Protect your electronic scales, weight indicators and printers with a scale veil. Reduce costly repairs and down time due to moisture penetrating through instrument enclosures during cleanup or operation.



SCALE VEILS AVAILABLE FOR THE FOLLOWING WEIGHING EQUIPMENT:

RICE LAKE	PART #	PRICE
IQ700, UMC600	21213	$60.00
SP2000/SP2200	21210	$75.00
WEIGHTRONIX		
WI 110/120	21194	$58.00
EPSON		
TM290/295	29582	$54.00
TM-300	31277	$54.00
TM-U200 TM-6220	35666	$57.00
OKIDATA		
Okidata 184 Turbo Printer	21208	$65.00
Okidata 320	21226	$65.00
IDS		
IDS150/150A, IDS 152	21221	$65.00

Custom veils and specials available; consult factory.

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Interface Cables for IDS150A, IDS152 & IDS160



Part #	Description	Price
15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable	$55.00

Blunt end cables interface to: UMC444, UMC555, UMC600, IQ700, IQ plus® 310A, IQ plus® 355, IQ plus® 390-DC, IQ plus® 510, IQ plus® 590-DC, IQ plus® 710, IQ plus® 800, and IQ plus® 810, 520 and 920i®

15566	Blunt end, 25-pin D-sub male RS-232 serial interface cable	$50.00

Blunt end cables interface to: UMC444, UMC555, UMC600, IQ700, IQ plus® 310A, IQ plus® 355, IQ plus® 390-DC, IQ plus® 510, IQ plus® 590-DC, IQ plus® 710, IQ plus® 800, and IQ plus® 810, 520 and 920i®

15567	25-pin D-sub male to 25-pin D-sub male 20 mA serial interface cable	$50.00
15568	25-pin D-sub male to 25-pin D-sub male RS-232 serial interface cable	$55.00
Consult	Custom 20 mA/RS-232 serial interface cable	$95.00

Custom cables are designed to interface with your specific equipment. Please specify equipment model number and connector type. Standard cable length is 5' (1.5 m).

Interface Cables for SP-2000, SP-2200, TM-U295, TM-U590, TM-U200, iDP3111 and Star® Printers



Part #	Description	Price
15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable	$55.00

Blunt end cables interface to: UMC444, UMC555, UMC600, IQ700, IQ plus® 310A, IQ plus® 355, IQ plus® 390-DC, IQ plus® 510, IQ plus® 590-DC, IQ plus® 710, IQ plus® 800, and IQ plus® 810, 520 and 920i®

15548	25-pin D-sub male to 25-pin D-sub male 20 mA serial interface cable (SP2200 only)	$55.00
15568	25-pin D-sub male to 25-pin D-sub male RS-232 serial interface cable	$55.00
Consult	Custom 20 mA/RS-232 serial interface cable	$95.00

Custom cables are designed to interface with your specific equipment. Please specify equipment model number and connector type. Standard cable length is 5' (1.5 m).

Interface Cables for Allegro™, Prodigy™, Prodigy™ Plus, Prodigy MAX™ and I-Class



Part #	Description	Price
15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable	$55.00

Blunt end cables interface to: UMC444, UMC555, UMC600, IQ700, IQ plus® 310A, IQ plus® 355, IQ plus® 390-DC, IQ plus® 510, IQ plus® 590-DC, IQ plus® 710, IQ plus® 800, and IQ plus® 810, 520 and 920i

Consult	Custom RS-232 interface cable	$95.00

Custom cables are designed to interface with your specific equipment. Please specify equipment model number and connector type. Standard cable length is 5' (1.5 m).

Interface Cables for Eltron Desktops, E-4203 and M-4206



Part #	Description	Price
41276	DB9 male RS-232 cable to blunt end	$55.00

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Straight Cable

Part #	Description	Price
50749	DB9 female to DB9 male	$45.00
41279	DB25 male to DB9 male	$55.00



USB Cable

Part #	Description	Price
79074	USB-A to USB-B	$20.00



Ethernet Cable/RJ45

Part #	Description	Price
72697	RJ45 to RJ45	$35.00
78860	RJ45 to RJ45, cross over	$35.00
75594	RJ45 to 9-pin	$55.00

RJ45 to RJ45





RJ45 to RJ45, cross over

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Desiccants

- Packets
- Bagged desiccants to protect your enclosed electronic components from moisture and humidity
- Useful in junction boxes, indicators and all scale electronics



Part #	Description	Price
16038	Mini Pax 7g	$1.00
16039	Natra Sorb 20g	$1.90
92240	3g	$1.00

Industrial Corrosion Inhibitor

- Our Best Indicator Protection
- Special chemical combination provides superior protection
- Protects 5 cubic feet/1.4 cubic meters of enclosure volume for approximately 1 year
- Dimensions: 2.5" dia. x 1.5" H (63.5 mm dia. x 38.1 mm H)



Part #	Description	Price
16037	Corrosion Inhibitor	$25.00

Crimper and Lead Seals

CRIMPER

- 5.0" (127.0 mm) seal press with two .5" (12.7 mm) engraving dies
- Chrome finish
- Compound leverage
- Quick delivery on custom dies

LEAD SEALS

- .25" (6.4 mm) heavy duty seal with galvanized steel wire. Length - 16.0" (406.4 mm)





Part #	Description	Price
21111	Crimper & 2 Die Blanks	$120.00
15318	Crimper Die Blank (replacements)	$45.00
15317	100 Seals/pkg	$35.00

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Static Control Table Mat and Floor Mat

An absolute must for every workbench, this kit includes a 3-layer 2' x 4' table mat, 4' x 6' floor mat, ground cord and adjustable wrist strap. Designed specifically for energized circuit work, the static control table and floor mat provide superior protection against ESD.

Part #	Description	Price
34265	Static Control Table Mat & Floor Mat	$795.00



Static Control Wrist Strap

The single most important personal accessory for protecting ESD-sensitive components and circuits, this wrist strap protects against charges from the body. The wrist strap consists of a comfortable elastic cuff or band and a detachable conductive cord for grounding the wrist band.

Part #	Description	Price
34263	Static Control Wrist Strap	$40.00



Static Shielding Bags

This static shield bag offers total ESD protection, whether you're transporting ESD-susceptible products across the room or across the country. The outer layer of the bag consists of an abrasion-resistant polyester, while the antistatic polyethylene inner layer retards triboelectric static charging from inside the bag.

Part #	Description	Price
16150	Static Shielding Bags, 8" x 10"	$1.00 each
16151	Static Shielding Bags, 12" x 18"	$3.00 each



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Static-Safe Service Kit

- Eliminates static for safe board replacement
- Connects a field service technician and the static-safe work surface to the same ground point
- Harmlessly drains static charges from the body and from any conductive objects placed on the mat
- Folds into a compact unit for transport and storage

Part #	Description	Price
32818	Static-Safe Service Kit	$155.00



Portable Megometer

- Load cell insulation tester
- Easy to use, accurate and reliable
- Designed for strain gauge transducer testing

Part #	Description	Price
36253	Portable Megometer	$495.00



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120/120 Plus

Digital Weight Indicator



120



120 Plus

STANDARD FEATURES

120

- Large .8in (20.3mm) Light Emitting Diode (LED) Display
- Configurable analog to digital measurement rate
- Power for four 350Ω load cells
- Primary/secondary units configuration: lb, kg, ounces, grams
- Five-button operation
- Two independent communication ports: (1) full duplex, (1) unidirectional or active 20mA current loop
- Standardized EDP command sets
- Programmable ticket format up to two 180-character printout
- Full front-panel digital calibration and configuration
- Tilt stand
- Three-stage digital filtering
- Consecutive transaction numbering
- Time and date (volatile)

120 Plus

- Large .8in backlit LCD display
- Rechargeable battery and wall adapter
- Power save feature for 700 hours of battery life
- Ten stored tare values
- Display hold (based on 3 second average)
- Time and date

APPROVALS

Measurement Canada Approved

SPECIFICATIONS

POWER:
120/120 Plus:
Line voltages: 115 or 230VAC
Frequency: 50 or 60Hz
120 Plus: (estimated battery life)
60 hours with 1 x 350Ω
40 hours with 4 x 350Ω
Charge time 8 hours

EXCITATION VOLTAGE:
5VDC, 4 x 350Ω or 8 x 700Ω load cells

ANALOG SIGNAL INPUT RANGE:
-0.6mV/V - 3.0mV/V

ANALOG SIGNAL SENSITIVITY:
0.3µV/graduation minimum,
1.5µV/grad recommended

RESOLUTION:
Internal resolution:
1 million internal graduations
Display resolution:
10,000 displayed graduations

MEASUREMENT RATE:
120: 30, 15, 7, 3 per second
120 Plus: 30 per second

SYSTEM LINEARITY:
Within 0.01% of full scale

CIRCUIT PROTECTION:
RFI, EMI, ESD protected

LOAD CELL CONNECTION:
Cord grip entry
Detachable plug (optional)

SERIAL OUTPUT:
EDP port: Full duplex RS-232
Printer port: Output-only RS-232 or active 20mA current loop
Both ports: 9600, 4800, 2400, 1200, 600, 300 bps; 7 or 8 data bits; even, odd or no parity

DISPLAY:
120:
0.8in (20mm), 6-digit Red Light Emitting Diode (LED) display, 7-segment digits
120 Plus:
0.8in (20mm) 6-digit LCD with backlight 7-segment digits

STATUS ANNUNCIATORS:
Designators for: center of zero, stand still, gross, net, lb, kg, oz, g
120 Plus:
*Battery, setpoint 1 & 2, Hold

KEYBOARD:
120:
5-key flat membrane panel, tactile feel
120 Plus:
Zero, tare, present tare, hold, gross/net, units, numeric 0-9, clear, enter/print

DIGITAL I/O:
120 Plus: Requires option card
24 volt source
3 digital inputs
2 digital outputs

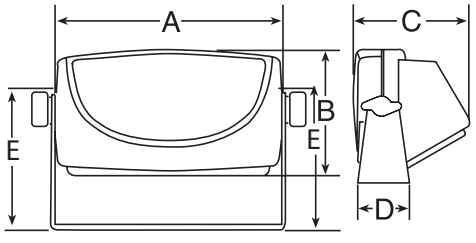
OPERATING TEMPERATURE:
-10°C to 40°C/14°F to 104°F (legal)
-10°C to 50°C/14°F to 122°F (industrial)

WEIGHT:
2.6lb (1.2kg)

RATING/MATERIAL:
Enclosure: heavy gauge ABS

120 AND 120 PLUS APPROVALS:
NTEP -10,000 Divisions, Class III/IIIL, CC# 03-059A1, Measurement Canada AM-5517, Class III/IIIHD at 10,000 Divisions;
OIML approved, TC 7028, TC7628; T 5692 at 10,000 Divisions
CE marked

WARRANTY:
One-year limited warranty



DIMENSIONS			
A	7.32in (1863mm)	**D**	1.65in (42mm)
B	6.06in (154mm)	**E**	4.76in (121mm)
C	3.74in (95mm)		

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120/120 Plus

Digital Weight Indicator

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
120			
92769	120, Desktop 115 VAC†	3 lb	$325.00
92772	120, Desktop 230 VAC, OIML/CE††	3 lb	325.00
120 Plus			
103632	120 Plus, Desktop 115/230 VAC†	3 lb	450.00
107619	120 Plus, Desktop 115/230 VAC† with digital I/O option	3 lb	510.00

OPTIONS/ACCESSORIES

93205	Load cell connector with 6 meter length pigtail (requires 103507)	35.00
82505	6-pin socket external load cell connector (requires 103507)	10.00
103507	External load cell plug replaces cord grip (requires 82505 or cable 93205)	30.00
107620	Digital I/O card for 120 Plus	60.00
105670	15 Pin connector for 120 Plus	10.00
106705	Interface cable for 120 Plus, 2-meter length	30.00
76699	Additional operating manual for 120	25.00
105914	Additional operating manual for 120 Plus	25.00
77925	Revolution® III Scale Software*	35.00
Primary Component Parts for 120		
78609	Board assembly for use with external LC connector	235.00
96293	Board assembly for use with internal LC connector	235.00
78610	Overlay membrane switch	47.00
78611	Power supply, 115 VAC	25.00
78612	Power supply, 230 VAC (2-pin Europe)	36.00
Primary Component Parts for 120 Plus		
103634	CPU/Display board assembly	335.00
103635	Overlay membrane switch	47.00
103636	Power supply, 115 VAC/230 VAC	35.00
103637	Rechargeable Battery	60.00

* Revolution III can be downloaded for FREE at www.ricelake.com

External load cell plug replaces cord grip


†† *CEE 7/7 plug*


† *NEMA 5-15 plug*

Indicators

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IQ plus® 210

Digital Weight Indicator



STANDARD FEATURES

- Piezo switch technology with stainless steel buttons (zero and units)
- Large, bold 0.8in LED display
- NEMA 4X stainless steel enclosure
- Status annunciators: lb, kg, oz, g, negative, motion, center of zero
- Displays units in decimals lb, kg, oz, lb & oz and grams
- One full duplex RS-232 port
- Two digital inputs for remote zero, print and units
- PreVent™ breather vent

APPROVALS

SPECIFICATIONS

DISPLAY:
6-digit Light Emitting Diode (LED) display
7-segment, 0.8in (20mm) digits

EXCITATION:
10VDC 4 x 350Ω load cells

MEASUREMENT RATE:
15, per second

DISPLAY RESOLUTION:
10,000 dd maximum

POWER CONSUMPTION:
115VAC @ 70mA,
or 230VAC @ 35mA, 50-60Hz

DIGITAL INPUTS:
Two inputs, TTL or switch closure, active-low

SERIAL COMMUNICATIONS:
Full duplex RS-232, 9600, 4800, 2400, 1200 bps; 7 or 8 databits, even, off, or no parity

OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C)

STORAGE TEMPERATURE:
14°F to 122°F (-10°C to 50°C)

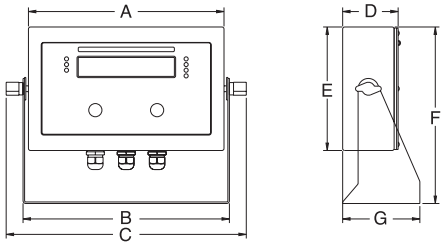
ENCLOSURE DIMENSIONS:
9.5in x 6.0in x 2.75in
(241mm x 152mm x 70mm)

WEIGHT:
10lb (4.5kg)

RATING MATERIAL:
NEMA 4X/IP66, stainless steel

APPROVALS:
NTEP - CC# 00-045 at 10,000 Divisions, Class III/IIL

WARRANTY:
Two-year limited warranty



DIMENSIONS			
A	9.50in (241.22mm)	**E**	6.00in (152.4mm)
B	10.03in (254.7mm)	**F**	8.58in (217.9mm)
C	11.67in (296.4mm)	**G**	3.75 in (95.2mm)
D	2.69in (68.3mm)		

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IQ plus® 210

Digital Weight Indicator

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
65137	IQ plus 210, 115 VAC	10 lb	$550.00
65138	IQ plus 210, 230 VAC	10 lb	550.00

OPTIONS/ACCESSORIES

64640	Additional operating manual	30.00

*If ordering the two non-tactile buttons or column without a scale, refer to the replacement parts catalog for part number and pricing

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IQ plus® 355

Digital Weight Indicator



STANDARD FEATURES

- Large .8in (20.3mm) Light Emitting Diode (LED) Display
- Configurable analog to digital measurement rate
- Power for eight 350Ω load cells or 16, 700Ω load cells
- Primary/secondary units configuration: lb, kg, ounces, short tons, metric tons, grams or none
- Nema 4X/IP66 stainless steel washdown enclosure
- Five button operation
- Two independent communication ports: (1) full duplex, (1) unidirectional or active 20mA current loop
- Standardized EDP command sets
- Programmable ticket formats up to two 300-character printouts
- Full front-panel digital calibration and configuration
- Universal mounting stand
- Three-stage digital filtering
- Consecutive transaction numbering
- Two digital inputs

APPROVALS

SPECIFICATIONS

POWER:
Line voltages: 115 or 230VAC
Frequency: 50 or 60Hz
Power consumption:70mA @ 115VAC (8W)
35mA @ 230VAC (8W)

EXCITATION VOLTAGE:
10VDC, 8 x 350Ω or 16 x 700Ω load cells

ANALOG SIGNAL INPUT RANGE:
-0.6mV/V - 4.5mV/V

ANALOG SIGNAL SENSITIVITY:
0.3µV/graduation minimum,
1.5µV/grad recommended

RESOLUTION:
Internal resolution: 308,000 internal graduations
Display resolution: 100,000 displayed graduations

MEASUREMENT RATE:
30, 15, 7 1/2, 3 3/4 per second

SYSTEM LINEARITY:
Within 0.01% of full scale

DIGITAL INPUTS:
2 inputs with 8 functions to select from

CIRCUIT PROTECTION:
ESD, EMI, RFI protection

SERIAL OUTPUT:
EDP port: Full duplex RS-232
Printer port: Output-only RS-232 or active 20mA current loop
Both ports: 9600, 4800, 2400, 1200, 600, 300 bps; 7 or 8 data bits; even, odd or no parity

DISPLAY:
0.8in (20mm), 6-digit Super Red Light Emitting Diode (LED) display, 7-segment, digits

STATUS ANNUNCIATORS:
Designators for: center of zero, stand still, gross, net center of zero, standstill, lb, kg, oz, g

KEYBOARD:
5-key flat membrane panel, tactile feel

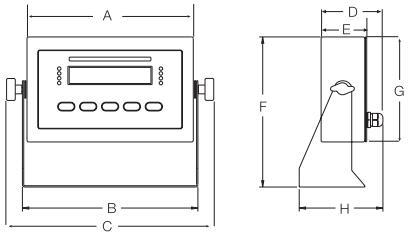
OPERATING TEMPERATURE:
(Legal) -10°C to 40°C/14°F to 104°F
(Industrial) -10°C to 50°C/14°F to 122°F

WEIGHT:
6.4lb (2.9kg)

RATING/MATERIAL:
Enclosure: NEMA 4X/IP66, heavy gauge stainless steel

APPROVALS:
NTEP - at 10,000 Divisions, Class III/IIIL, CC# 97-130, A2,
Measurement Canada approved, AM-5213, Class III/IIIHD at 10,000 Divisions
OIML approved, TC6008; T5692
UL & C-UL listed
CE marked

WARRANTY:
Two-year limited warranty



DIMENSIONS			
A	9.50in (241.3mm)	**E**	2.75in (69.9mm)
B	10.02in (254.5mm)	**F**	8.57in (217.7mm)
C	11.80in (299.7mm)	**G**	6.00in (152.4mm)
D	3.67in (93.2mm)	**H**	3.85in (97.8mm)

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IQ plus® 355

Digital Weight Indicator

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
51968	IQ plus 355, 115 VAC†	10 lb	$575.00
66729	IQ plus 355, 230 VAC, CE marked/OIML approved††	10 lb	575.00
53241	IQ plus 355, uncased, 115 VAC†	4 lb	500.00
91803	IQ plus 355 with analog output, 115 VAC†	10 lb	875.00
53631	IQ plus 355 with quick connect, 115 VAC†	10 lb	625.00
53632	IQ plus 355 with quick connect, 230 VAC††	10 lb	625.00
OPTIONS/ACCESSORIES			
43381	Analog output: selectable 0-10 V, 4-20 mA		300.00
112986	Wireless LAN board 802.11 B/G		550.00
52948	Panel mount kit**		79.00
77925	Revolution™ III scale software*		35.00
66503	Additional operating manual		25.00
83564	Clear protective overlay (package of five)		60.00
92777	Filter, PreVent™ vent kit		25.00
91895	Quick Connect, female connector and cable, 17 inch		7.00
53640	Quick Connect, male connector and cable, 20 feet		36.00
Primary Component Parts			
52211	Board assembly, 115 VAC		415.00
52210	Board assembly, 230 VAC		415.00
50556	Overlay membrane panel		48.00
53848	200 mA TR5 subminiature fuses, 115 VAC		4.00
53881	100 mA TR5 subminiature fuses, 230 VAC		4.00

* Revolution III can be downloaded for FREE at www.ricelake.com

** Panel mount kit is not NEMA rated


†† *CEE 7/7 plug*


† *NEMA 5-15 plug*

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IQ plus® 390-DC

Battery Powered Digital Weight Indicator



STANDARD FEATURES

- NEMA 4X/IP66-rated stainless steel enclosure
- Large 1 in (24.5 mm), six-digit Liquid Crystal Display (LCD)
- Six button operation
- Power for four 350 Ω load cells or eight 700 Ω load cells
- Configurable units multiplier
- Supports 4- and 6-wire load cell connections
- EDP port for full duplex, RS-232 communications
- Powered by 6 “C” cell alkaline batteries for complete portability (batteries not included)
- AC adapter for 115 or 230 VAC power
- Configurable standby mode that saves battery life
- RATTLETRAP® three-stage digital filtering
- Piece count mode

APPROVALS

SPECIFICATIONS

POWER:
9 VDC, provided by 6 “C” cell alkaline batteries or AC adapter
Power consumption: (Estimated battery life) 100 mA (100 hours with 4 x 350 Ω load cells), 25 mA typical (300 hours with 1 load cell)

EXCITATION VOLTAGE:
5 VDC, 4 x 350 Ω or 8 x 700 Ω load cells

ANALOG SIGNAL INPUT RANGE:
-2.5 mV – 22.5 mV or -.5 mV/V – 4.5 mV/V

ANALOG SIGNAL SENSITIVITY:
0.3 µV/graduation minimum
1.5 µV/grad recommended

RESOLUTION:
Internal resolution: 1 million counts
Display resolution: 100,000dd
Counting capacity: 100,000

MEASUREMENT RATE:
30, 15, 7 1/2, 3 3/4 per second

SYSTEM LINEARITY:
Within 0.01% of full scale

SERIAL COMMUNICATIONS:
EDP/Printer port: Full duplex RS-232

DISPLAY:
1.0 in (24.5 mm) 6-digit Liquid Crystal Display (LCD), 7 segment, digits

CIRCUIT PROTECTION:
RFI, EMI, ESD protection

STATUS ANNUNCIATORS:
Designators for: center of zero, standstill, gross, net, lb, kg, piece count

KEYBOARD:
6-key flat membrane panel, tactile feel

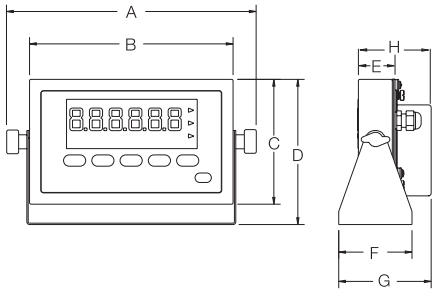
OPERATING TEMPERATURE:
Legal: 14°F to 104°F (-10°C to 40°C)
Industrial: 14°F to 122°F (-10°C to 50°C)

WEIGHT:
3 lb (1.4 kg)

RATING/MATERIAL:
NEMA 4X/IP66, stainless steel

APPROVALS:
NTEP-at 10,000 divisions, Class III/IIIL, CC# 98-203A2
Measurement Canada approved, AM-5300, Class III/IIIHD, III at 10,000 Divisions and IIIHD at 20,000 Divisions
CE marked
UL & CUL listed

WARRANTY:
Two-year limited warranty



DIMENSIONS			
A	11.04 in (280.4 mm)	**E**	1.62 in (41.1 mm)
B	9.0 in (228.6 mm)	**F**	3.24 in (82.3 mm)
C	5.52 in (140.2 mm)	**G**	4.09 in (103.9 mm)
D	6.42 in (163.1 mm)	**H**	3.0 in (76.2 mm)

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IQ plus® 390-DC

Battery Powered Digital Weight Indicator

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
48815	IQ plus 390-DC battery powered with 115 VAC wall adapter†	6 lb	$700.00
50064	IQ plus 390-DC battery powered with 230 VAC wall adapter††	6 lb	700.00
66727	IQ plus 390-DC CE marked (voltage adapter sold separately)	6 lb	675.00
53629	IQ plus 390-DC with 115 VAC wall adapter with quick connect		750.00
53634	IQ plus 390-DC with 230 VAC wall adapter with quick connect		750.00

OPTIONS/ACCESSORIES

65738	Livestock weighing option, AW 1.02 (not NTEP Certified)	95.00
77925	Revolution™ III scale software*	35.00
48820	Additional operating manual	25.00
83565	Clear protective overlay (package of five)	60.00
92777	Filter, PreVent™ vent kit	25.00
91895	Quick Connect, female connector and cable, 17 inch	7.00
53640	Quick Connect, male connector and cable, 20 feet	36.00
Primary Component Parts		
49978	Power supply, 115 VAC	20.00
49977	Power supply, 230 VAC (2-pin Europe)	30.00
48790	Overlay membrane panel	53.00
49954	Board assembly	445.00

* Revolution III can be downloaded for FREE at www.ricelake.com


†† *CEE 7/7 plug*


† *NEMA 5-15 plug*

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SURVIVOR® 390HE

Hostile Environment Digital Weight Indicators



STANDARD FEATURES

- NEMA 4X Fiberglass-Reinforced Polyester (FRP) enclosure
- Bold 1 in Liquid Crystal Display (LCD)
- Universal mounting tabs (replaceable)
- Up to 30 updates/second
- Selectable display update rate
- Five button operation, environmentally protected mechanical switches
- Selectable units
- One communication port, full duplex RS-232
- RATTLETRAP® vibration control

APPROVALS

Measurement Canada Approved

SPECIFICATIONS

EXCITATION VOLTAGE:
5 VDC
Load current: 60 mA maximum
(4 x 350 Ω load cells)

ANALOG SIGNAL INPUT RANGE:
0.5 mV/V - 3.5 mV/V

ANALOG SIGNAL SENSITIVITY:
0.3 microvolts/graduations minimum

MEASUREMENT RATE:
30, 15, 7 1/2, 3 3/4 updates second

SYSTEM LINEARITY:
Within 0.01% of FS

RESOLUTION:
Internal resolution: 1 million counts
Display: Selectable up to 100,000 dd

DISPLAY:
1 in (25 mm) LCD Display,
Decimal point available at each digit

STATUS ANNUNCIATORS:
Tare, entered tare, standstill, net, gross, center of zero, minus sign, lb, kg

FRONT-PANEL:
5-button rubber-booted SURVIVOR® watertight switches

CIRCUIT PROTECTION:
ESD, EMI, RFI protected

SERIAL OUTPUT:
Printer port: RS-232 full duplex
7 or 8 data bits; even, odd or no parity
Baud rates: 300 to 19200

POWER:
Line voltages: 115 or 230 VAC
Frequency: 50/60 Hz
Power consumption: 25 W maximum

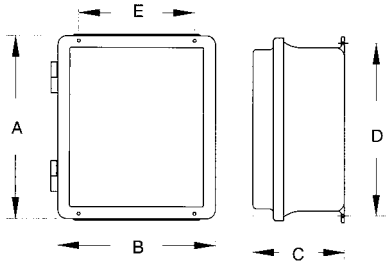
OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C)

RATING/MATERIAL:
NEMA 4X FRP

WEIGHT:
Approximately 17 lb (7.2 kg)

APPROVALS:
390HE: NTEP - at 10,000 Divisions, Class III/IIIL, CC# 98-203A2.
Measurement Canada approved, AM-5300

WARRANTY:
Two-year limited warranty



DIMENSIONS			
A	10.50 in (267 mm)	**D**	10.00 in (254 mm)
B	8.50 in (216 mm)	**E**	8.00 in (203 mm)
C	6.00 in (152 mm)		

RICE LAKE WEIGHING SYSTEMS

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SURVIVOR® 390HE

Hostile Environment Digital Weight Indicators

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
53517	SURVIVOR 390HE 115 VAC	17 lb	$900.00

OPTIONS/ACCESSORIES

30911	Additional mounting tabs (set of 4)	30.00
92777	Filter, PreVent™ vent kit	25.00
Primary Component Parts		
76205	Board assembly, CPU/display	445.00
53543	AC power supply	155.00

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Prices and specifications subject to change without notice. Visit ricelake.com for current prices.

420 Plus

HMI Digital Weight Indicator



APPROVALS

NTEP c UL us LISTED OIML Measurement Canada Approved CE

STANDARD FEATURES

- Large .8in (20.3mm) Light Emitting Diode (LED) Display
- Full numeric keypad
- NEMA 4X/IP66 stainless steel washdown enclosure
- Power for eight 350Ω load cells or 16, 700Ω load cells
- Configurable analog to digital measurement rate
- Primary/secondary units configuration: lb, kg, ounces, short tons, metric tons, grams or none
- Two independent communication ports: (2) full duplex, (1) unidirectional active 20mA current loop
- Standardized EDP command sets
- Programmable ticket formats up to three 300-character printouts
- Full front-panel digital calibration and configuration
- Universal mounting stand
- Three-stage digital filtering
- Consecutive transaction numbering
- Two digital inputs, two digital outputs
- Time and date
- Count mode
- Two setpoints
- Keyed tare
- Accumulator

SPECIFICATIONS

POWER - AC:
Line voltages: 115/230VAC
Frequency: 50 or 60Hz
Power consumption: 1.5A @ 115VAC (8W)
0.75A @ 230VAC (8W)

POWER - DC:
Line voltages: 9-36VDC DC input
Power consumption: 1.5A Max

EXCITATION VOLTAGE:
+5VDC 8 x 350Ω or 16 x 700Ω load cells

ANALOG SIGNAL INPUT RANGE:
-0.5mV/V - 4.5mV/V

ANALOG SIGNAL SENSITIVITY:
0.3µV/graduation minimum,
1.5µV/grad recommended

RESOLUTION:
Internal resolution: 8 million internal graduations
Display resolution: 100,000 displayed graduations

MEASUREMENT RATE:
60, 30, 15, 7 1/2, per second

SYSTEM LINEARITY:
Within 0.01% of full scale

DIGITAL INPUTS:
2 inputs with 8 functions
2 outputs, 250mA max sink

CIRCUIT PROTECTION:
RFI, EMI, ESD protection

SERIAL OUTPUT:
EDP port: Full duplex RS-232
Printer port: Full duplex RS-232 or simplex active 20mA current loop
Both ports: 38400, 19200, 9600, 4800, 2400, 1200, 600, 300 bps; 7 or 8 data bits; even, odd, or no parity

DISPLAY:
0.8in (20mm), 6-digit Super Red Light Emitting Diode (LED) display, 7-segment, digits

STATUS ANNUNCIATORS:
Designators for: center of zero, stand still, gross, net, lb, kg, count, tare

KEYBOARD:
21-key flat membrane panel

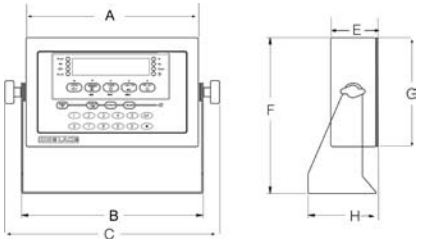
OPERATING TEMPERATURE:
Legal: 14°F to 104°F (-10°C to 40°C)
Industrial: 14°F to 122°F (-10°C to 50°C)

WEIGHT:
6.1lb (2.8kg)

RATING/MATERIAL:
Enclosure: NEMA 4X/IP66, heavy gauge stainless steel

APPROVALS:
NTEP Certified per H-44 at 10,000 Divisions, Class III/IIIL, CC# 04-076A5
Measurement Canada, AM-5554, Class III/IIIHD at 10,000 Divisions
OIML approval at 10,000 divisions, TC7004
UL & CUL listed
CE marked

WARRANTY:
Two-year limited warranty



DIMENSIONS			
A	9.50in (24mm)	**F**	8.57in (217mm)
B	10.02in (254mm)	**G**	6.00in (152mm)
C	11.80in (299mm)	**H**	3.25in (82mm)
E	3.12in (79mm)		3.0in (76.2mm)

RICE LAKE WEIGHING SYSTEMS

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420 Plus

HMI Digital Weight Indicator

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
85124	420, 115 VAC†	10 lb	$700.00
85125	420, 230 VAC†	10 lb	700.00
85126	420, 230 VAC†† CE marked/OIML approved	10 lb	700.00
85656	420, 9-36 VDC nominal	10 lb	800.00
88652	420 Plus, 115 VAC w/quick connect	10 lb	750.00
88653	420 Plus, 230 VAC w/quick connect	10 lb	750.00

OPTIONS/ACCESSORIES

85659	Analog output: selectable 0-10V, 4-20 mA	300.00
112986	Wireless LAN card 802.11 B/G	550.00
102525	DC/DC connector kit, 9-36 VDC (factory installed option)	150.00
52948	Panel mount kit**	79.00
77925	Revolution® III scale software*	35.00
85127	Additional operating manual	25.00
92777	Filter, PreVent™ vent kit	25.00
91895	Quick Connect, female connector and cable, 17 inch	7.00
53640	Quick Connect, male connector and cable, 20 feet	36.00
Primary Component Parts		
85123	Board assembly	470.00
84397	Overlay membrane panel	58.00
76556	Power supply, auto switching	50.00
97475	DC/DC converter, 9-36 VDC	150.00
85791	Fuse, 2.5 A, 5 x 20 mm	3.15

* Revolution III can be downloaded for FREE at www.ricelake.com

** Panel mount kit is not NEMA rated, consult factory for modifications.


†† *CEE 7/7 plug*


† *NEMA 5-15 plug*

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SURVIVOR® 420HE

Hostile Environment Digital Weight Indicators



STANDARD FEATURES

- NEMA 4X Fiberglass-Reinforced Polyester (FRP) enclosure
- Bright, 2 in LED display
- Universal mounting tabs (replaceable)
- Up to 60 updates/second
- Selectable display update rate
- Five button operation, environmentally protected mechanical switches
- Two communication ports, full duplex RS-232
- RATTLETRAP® vibration control

APPROVALS

Measurement Canada Approved

SPECIFICATIONS

EXCITATION VOLTAGE:
5 VDC
Load current: 115 mA maximum
(8 x 350 Ω load cells)

ANALOG SIGNAL INPUT RANGE:
0.5 mV/V - 3.5 mV/V

ANALOG SIGNAL SENSITIVITY:
0.3 microvolts/graduations minimum

MEASUREMENT RATE:
60,30,15,7 1/2 updates second

SYSTEM LINEARITY:
Within 0.01% of FS

RESOLUTION:
Internal resolution: 8 million counts
Display resolution: Selectable up to 100,000dd

DISPLAY:
2 in (50 mm) LED Display,
Decimal point available at each digit

STATUS ANNUNCIATORS:
Tare, entered tare, standstill, net, gross, center of zero, minus sign, lb, kg

FRONT-PANEL:
5-button rubber-booted SURVIVOR® watertight switches

CIRCUIT PROTECTION:
ESD, EMI, RFI protected

SERIAL OUTPUT:
Printer port: RS-232 full duplex 20 mA simplex
EDP Port: RS-232 full duplex
Baud rates: 300 to 38,400
7 or 8 data bits; even, odd or no parity

POWER:
Line voltages: 115 or 230 VAC
Frequency: 50/60 Hz
Power consumption: 25 W maximum

DIGITAL INPUTS:
2 inputs, TTL or switch closure, active low

DIGITAL OUTPUTS:
2 outputs, 250 mA max sink

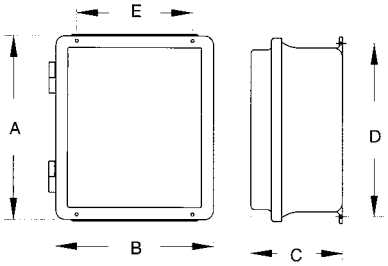
OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C)

RATING/MATERIAL:
NEMA 4X FRP

WEIGHT:
Approximately 18 lb (8.2 kg)

APPROVALS:
NTEP - certified at 10,000 Divisions, Class III/IIIL
CC# 04-076A5 Measurement Canada approved
AM-5554

WARRANTY:
Two-year limited warranty



DIMENSIONS			
A	12.50 in (317.5 mm)	**D**	14.94 in (379.4 mm)
B	10.50 in (266.7 mm)	**E**	10.00 in (254 mm)
C	8.28 in (210.3 mm)		

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SURVIVOR® 420HE

Hostile Environment Digital Weight Indicators

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
87959	SURVIVOR 420HE 115 VAC†	18 lb	$1,595.00
87960	SURVIVOR 420HE 230 VAC†	18 lb	1,595.00

OPTIONS/ACCESSORIES

30911	Additional mounting tabs (set of 4)	30.00
92777	Filter, PreVent™ vent kit	25.00
87972	Additional operating manual	25.00
Primary Component Parts		
87958	Board assembly, CPU	500.00
72996	AC power supply	90.00
87808	Board display, 2 in LED	350.00
87971	Switch assembly, 6 pushbutton	125.00
87968	Front panel overlay	53.00

† *NEMA 5-15 plug*

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520

HMI Digital Weight Indicator



Panel mount

Desktop

REVOLUTION III SCALE SOFTWARE

APPROVALS

NTEP c UL us LISTED OIML Measurement Canada Approved CE

STANDARD FEATURES

- 0.75in (19mm), seven-digit Vacuum Fluorescent Display (VFD)
- 16-character 0.25in (6.3mm) VFD prompting display
- Eight configurable operator prompts
- Three digital inputs and four digital outputs
- Selectable A/D measurement rates up to 120/second
- Two communication ports:
  EDP port—full duplex, RS-232 and RS-485
  Printer port—full duplex, RS-232 or 20mA current loop
- Five programmable ticket formats for Gross, Net, Setpoints, Count, and EDP format
- Eight setpoint kinds
- Programmable stream print format
- Time and date
- Push-button or scrolled tare entry
- Over/accept/under checkweigh mode
- Front panel or serial configuration/calibration
- Five point linearization calibration
- Millivolt calibration
- Gravitational compensation calibration
- Power for eight 350Ω load cells or 16, 700Ω load cells**
- Expansion port for option card
- Key functions: zero, gross/net, tare, units, print
- Desktop model with panel mount kit can be mounted in existing UMC2000 cutouts
- Peak hold
- Accumulator

SPECIFICATIONS

POWER:
Line voltages:115 or 230VAC
Power consumption: 200mA @ 115VAC
160mA @ 230VAC
Frequency: 50 or 60Hz

EXCITATION VOLTAGE:
10VDC, 8 x 350Ω or 16 x 700Ω load cells

ANALOG SIGNAL INPUT RANGE:
0.3mV/V – 4mV/V

ANALOG SIGNAL SENSITIVITY:
0.3µV/graduation @ 7.5Hz,
1.5µV/graduation @ 120Hz

A/D SAMPLE RATE:
7.5 – 120Hz, software selectable

RESOLUTION:
Internal resolution: Approximately 8 million counts
Display resolution:100,000 dd

SYSTEM LINEARITY:
0.01% of full scale

DIGITAL I/O
Digital inputs: 3 inputs, TTL or switch closure, active-low
Digital outputs: 4 outputs, current limited with TTL pull-up

UPDATE RATE:
60 times/seconds

CIRCUIT PROTECTION:
RFI, EMI, ESD protection

SERIAL OUTPUT:
EDP port: Full duplex RS-232 or RS-485
Printer port: Full duplex RS-232 or active 20mA current loop output, 2 wire
Both ports: 300 to 19,200 bps; 7 or 8 data bits; even, odd or no parity

DISPLAY:
Vacuum Fluorescent Display (VFD), 7-digit,
14-segment primary weight display. 2 character unit descriptions
16-character dot matrix display for additional symbols, user prompts

KEYBOARD:
5-key membrane panel, tactile feel

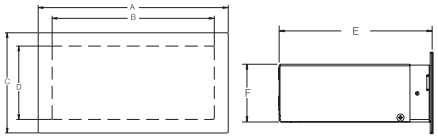
OPERATING TEMPERATURE:
Legal: 14°F to 104°F (-10°C to 40°C)
Industrial: 14°F to 122°F (-10°C to 50°C)

WEIGHT:
6lb (2.7kg)

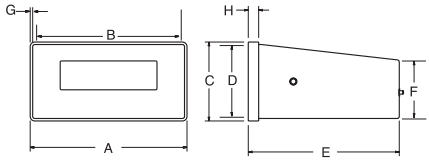
RATING/MATERIAL:
NEMA 4X/IP66 exterior panel surface, stainless steel (panel mount only)
Non-NEMA, painted steel (desktop)

APPROVALS:
NTEP - certified at 10,000 Divisions, Class III/IIIL, CC# 01-087
Measurement Canada approved, AM-5425; Class III/III HD at 10,000 divisions
OIML at 10,000 divisions (GB-1160)
Desktop CUL listed
Panel mount RU recognized
CE marked

WARRANTY:
Two-year limited warranty



DIMENSIONS - PANEL MOUNT			
A	7.36in (186.9mm)	**D**	2.84in (72.1mm)
B	6.22in (157.9mm)	**E**	7.35in (186.6mm)
C	3.88in (98.5mm)	**F**	2.75in (69.8mm)
Dashed line represents cutout in panel			



DIMENSIONS - DESKTOP			
A	7.55in (191.7mm)	**E**	7.27in (184.6mm)
B	7.34in (186.4mm)	**F**	2.75in (69.8mm)
C	3.80in (96.5mm)	**G**	0.12in (3.05mm)
D	3.56in (90.4mm)	**H**	0.50in (12.7mm)

** Option cards reduce the number of load cells that can be powered

(Specifications continued on next page)

RICE LAKE WEIGHING SYSTEMS

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520

HMI Digital Weight Indicator

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
115 VAC			
68715	520 panel mount*, stainless steel	7 lb	$900.00
100386	520 panel mount* (68715) with analog output (78068)	7 lb	1,200.00
100387	520 panel mount* (68715) with DeviceNet (78290)	7 lb	1,550.00
100389	520 panel mount* (68715) with A-B remote I/O (78371)	7 lb	1,550.00
100392	520 panel mount* (68715) with Ethernet IP (93010)	7 lb	1,700.00
103206	520 panel mount* (68715) with Ethernet TCP/IP (77205)	7 lb	1,295.00
79734	520 desktop, painted steel with panel mount†	7 lb	900.00
70153	520 desktop, painted steel with tilt stand†	7 lb	900.00
100396	520 desktop (70153) with Analog output (78068)†	7 lb	1,200.00
100397	520 desktop (70153) with Ethernet IP (93010)†	7 lb	1,700.00
96969	520 desktop (70153) with Ethernet TCP/IP (77205)†	7 lb	1,300.00
230 VAC			
71873	520 panel mount*, stainless steel	7 lb	900.00
71876	520 desktop, painted steel w/USA 3-pin plug†	7 lb	900.00
79735	520 desktop, painted steel with panel mount†	7 lb	900.00
230 VAC for Europe			
71868	520 panel mount*, stainless steel	7 lb	900.00
71869	520 desktop, painted steel w/Euro 2-pin plug††	7 lb	900.00
79736	520 desktop, painted steel with panel mount††	7 lb	900.00

OPTIONS/ACCESSORIES

78068	Analog output: selectable 0-10V, 0-20 mA, 4-20 mA	300.00
77205	Ethernet TCP/IP 10 Base-T module	400.00
65383	Ethernet TCP/IP 10 Base-T module (external)	395.00
93010	Ethernet/IP (internal) for A-B PLC	800.00
104011	ControlNet Interface (modified enclosure, side access)	800.00
78290	DeviceNet™ interface	650.00
78371	Allen-Bradley Remote I/O interface	650.00
78305	Profibus® DP interface	650.00
68386	BCD output	300.00
78433	Wall mount bracket (desktop)	50.00
78425	Panel mount kit, UMC2000 replacement (desktop)	50.00
15436	Power cord, NEMA 5-15 plug pattern (panel mount)	17.00
105382	Power cord, CEE 7/7 plug pattern (panel mount)	17.00
77925	Revolution® III scale software*	35.00
68973	Additional operating manual	25.00
83567	Clear protective overlay for panel mount (package of five)	60.00
92777	Filter, PreVent™ vent kit	25.00

Relay Products Can Be Found on Page 39

Primary Component Parts

75063	CPU board, 115 VAC	570.00
75064	CPU board, 230 VAC, fused for USA	570.00
75065	CPU board, 230 VAC, fused for Europe	570.00
69024	Display board	160.00
68718	Membrane switch panel (panel mount)	48.00
77198	Membrane switch panel (desktop)	48.00

* Revolution III can be downloaded for FREE at www.ricelake.com

* Does not include power cord


†† *CEE 7/7 plug*


† *NEMA 5-15 plug*

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IQ plus® 590-DC

Battery Powered Digital Weight Indicator



REVOLUTION III SCALE SOFTWARE

STANDARD FEATURES

- Full numeric keypad
- Keyboard entry of piece weight, tare weight, calibration and sample size
- Display tare button
- Powered by 6 “C” cell alkaline batteries for complete portability (batteries not included)
- Three 300-character print ticket formats
- Power for four 350Ω load cells or eight 700Ω load cells
- Supports 4- and 6-wire load cell connections
- EDP port for full duplex, RS-232 communications
- NEMA 4X/IP66-rated stainless steel enclosure
- Large 1in (24.5mm), six-digit Liquid Crystal Display (LCD)
- AC adapter for 115 or 230VAC power
- Configurable standby mode to prolong battery life
- RATTLETRAP® three-stage digital filtering
- Configurable units multiplier
- Configurable analog-to-digital measurement rate
- Self-resetting thermal fuse

APPROVALS

NTEP c UL us LISTED Measurement Canada Approved CE

SPECIFICATIONS

POWER:
9VDC, provided by 6 C-cell alkaline batteries or AC adapter

POWER CONSUMPTION:
100mA (100 hours with 4 load cells)
25mA (300 hours with 1 load cell)

EXCITATION VOLTAGE:
5VDC, 4 x 350Ω or 8 x 700Ω load cells

ANALOG SIGNAL INPUT RANGE:
-2.5mV – 22.5mV

ANALOG SIGNAL SENSITIVITY:
0.3µV/graduation minimum
1.5µV/grad recommended

RESOLUTION:
Internal resolution: 1 million counts
Display resolution: 100,000 dd

COUNTING CAPACITY:
100,000 pieces

MEASUREMENT RATE:
30, 15, 7 1/2, 3 3/4 per second

SYSTEM LINEARITY:
Within 0.01% of full scale

SERIAL COMMUNICATIONS:
EDP/Printer port: Full duplex RS-232

DISPLAY:
1in (24.5mm) 6-digit Liquid Crystal Display (LCD)

CIRCUIT PROTECTION:
RFI, EMI, ESD protection

ANNUNCIATORS:
Units (lb/kg), piece count mode (PC), gross, net, standstill, center of zero, tare, low battery

KEYBOARD:
19-key flat membrane panel, tactile feel

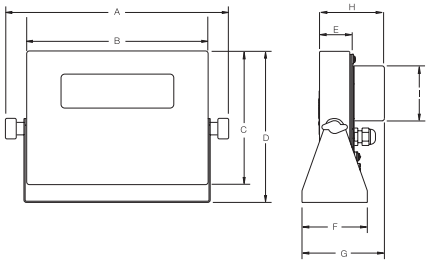
OPERATING TEMPERATURE:
Legal: 14°F to 104°F (-10°C to 40°C)
Industrial: 14°F to 122°F (-10°C to 50°C)

WEIGHT:
6.5lb (2.95kg)

RATING/MATERIAL:
NEMA 4X/IP66, stainless steel

APPROVALS:
NTEP - certified at 10,000 Divisions, Class III/IIIL, CC# 98-203A2;
Measurement Canada approved, AM-5300, Class III at 10,000 Divisions, Class IIIHD at 20,000 Divisions;
CE marked,
UL & C-UL listed

WARRANTY:
Two-year limited warranty



DIMENSIONS			
A	11.0in (280mm)	**F**	3.2in (82mm)
B	9.0in (229mm)	**G**	4.1in (104mm)
C	6.5in (166mm)	**H**	2.9in (73mm)
D	7.5in (190mm)	**I**	2.9in (73mm)
E	1.6in (41mm)		

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IQ plus® 590-DC

Battery Powered Digital Weight Indicator

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
52486	IQ plus 590-DC, battery powered w/115 VAC wall adapter†	6.5 lb	$750.00
52485	IQ plus 590-DC battery powered w/230 VAC wall adapter††	6.5 lb	750.00
66728	IQ plus 590-DC, CE marked (voltage adapter sold separately)	6.5 lb	725.00
53630	IQ plus 590-DC with 115 VAC wall adapter with quick connect		800.00
53633	IQ plus 590-DC with 230 VAC wall adapter with quick connect		800.00

OPTIONS/ACCESSORIES

77925	Revolution™ III scale software*	35.00
51778	Additional operating manual	25.00
83566	Clear protective overlay (package of five)	50.00
92777	Filter, PreVent™ vent kit	25.00

Primary Component Parts

49978	Power supply, 115 VAC	20.00
49977	Power supply, 230 VAC (2-pin Europe)	30.00
51972	Overlay membrane panel	57.00
52469	Board assembly	445.00

* Revolution III can be downloaded for FREE at www.ricelake.com


†† *CEE 7/7 plug*


† *NEMA 5-15 plug*

Indicators

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IQ plus® 710

Digital Weight Indicator



Sloped face model shown

REVOLUTION III SCALE SOFTWARE

STANDARD FEATURES

- Stainless steel NEMA 4X/IP66 washdown enclosure
- Large 0.75 in (19 mm) Vacuum Fluorescent Display (VFD) with 16 characters for operator prompting
- Selectable analog to digital measurement rate
- Five-point linearization calibration
- Four macros, 30 steps each, ability to interconnect macros with setpoints (macro can start batch setpoints)
- Eight digital inputs plus eight digital outputs
- 60 16-character/programmable fields for display prompts
- Power for eight 350 Ω load cells or 16, 700 Ω load cells
- Expanded 29-key alphanumeric keyboard
- Full alphanumeric keyboard for entering truck ID, numbering, prompts and more
- 300-ID truck in/out programs (six modes), seven characters
- Batching and continuous mode setpoint functions
- Programmable consecutive numbering
- Two communication ports: (1) EDP port, full duplex RS-232 or RS-485, (1) printer port, simplex RS-232 or 20 mA
- Operate, configure, and calibrate via two interfaces: front panel (keyboard and display) or EDP serial command port (RS-232, RS-485)
- Six 300-character programmable output formats, independent transmission to EPD or printer port
- 300-character alphanumeric "title block" for custom printouts
- Completely menu driven
- Angled/sloped keypad for user comfort
- Time and date
- Accumulator

APPROVALS

NTEP c UL LISTED us OIML Measurement Canada Approved CE

SPECIFICATIONS

POWER:
Line voltages: 115 or 230 VAC
Frequency: 50 or 60 Hz
Power consumption: -100 mA @ 115 VAC (11.5 W) 50 mA @ 230 VAC (11.5 W)

LOAD CELL EXCITATION:
10 VDC, 8 x 350 Ω load cells or 16 x 700 Ω load cells

ANALOG SIGNAL INPUT RANGE:
-0.5 – 4.5 mV/V (max)

RESOLUTION:
Internal resolution: - More than 1 million internal graduations
External resolution: -100,000 displayed graduations

MEASUREMENT RATE:
30, 15, 7 1/2, 3 3/4 per second

ANALOG SIGNAL SENSITIVITY:
.3 µV with digital filters at 4

SERIAL PORTS:
Two ports, RS-232, full duplex. EPD Port has an additional RS-485 transceiver; RS-485 is used if an RS-485 address is configured. Printer Port simplex also has a 20 mA active transceiver

CIRCUIT PROTECTION:
RFI, EMI, ESD protection

SYSTEM LINEARITY:
Within 0.01% of FS

DIGITAL INPUTS/OUTPUTS:
8 digital inputs, 8 digital open collector outputs

DISPLAY:
Large 0.75 in (19 mm) Vacuum Fluorescent Display (VFD), 7-digit, 2 unit descriptors, 16 5x7 VFD dot matrix secondary display

KEYBOARD:
Full 29-key alphanumeric flat membrane panel

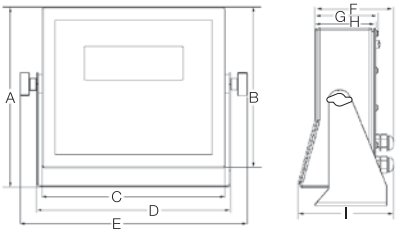
OPERATING TEMPERATURE:
Legal: 14°F to 104°F (-10°C to 40°C)
Industrial: 14°F to 122°F (-10°C to 50°C)

RATING/MATERIAL:
NEMA 4X/IP66, stainless steel

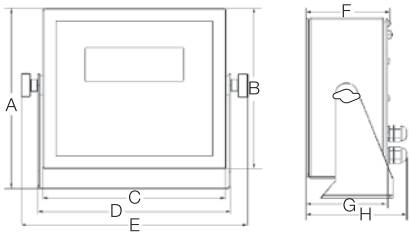
WEIGHT:
Sloped: 7.4 lb (3.3 kg)
Flat: 7.8 lb (3.5 kg)

APPROVALS:
NTEP - certified at 10,000 Divisions, Class III/IIIL, CC#98-081;
Measurement Canada approved, AM-5253, Class III/IIIHD, III at 10,000 Divisions and IIIHD at 20,000 Divisions;
OIML approved, TC5678 rev. 1
CE marked
UL & C-UL listed

WARRANTY:
Two-year limited warranty



SLOPED FACE DIMENSIONS			
A	9.88 in (250 mm)	**F**	4.07 in (103 mm)
B	8.38 in (212 mm)	**G**	3.30 in (83 mm)
C	9.50 in (241 mm)	**H**	3.15 in (80 mm)
D	10.02 in (254 mm)	**I**	4.95 in (125 mm)
E	11.78 in (299 mm)		



FLAT FACE DIMENSIONS			
A	9.88 in (250 mm)	**E**	11.78 in (299 mm)
B	8.38 in (212 mm)	**F**	4.36 in (110 mm)
C	9.50 in (241 mm)	**G**	4.25 in (107 mm)
D	10.02 in (254 mm)	**H**	5.25 in (133 mm)

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IQ plus® 710

Digital Weight Indicator

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
44545	IQ plus 710, 115 VAC, sloped face†	10 lb	$1,050.00
44544	IQ plus 710, 230 VAC, sloped face†	10 lb	1,050.00
45527	IQ plus 710, 115 VAC, flat face, deep enclosure†	10 lb	1,050.00
45528	IQ plus 710, 230 VAC, flat face, deep enclosure†	10 lb	1,050.00
52052	IQ plus 710, 230 VAC, CE marked/OIML approved, sloped face††	10 lb	1,050.00
52051	IQ plus 710, 230 VAC, CE marked/OIML approved, flat face, deep enclosure††	10 lb	1,050.00

OPTIONS/ACCESSORIES

43381	Analog output: selectable 0-10 V, 4-20 mA	300.00
45408	4-channel internal relay board, relays sold separately (requires two for eight relays)	150.00
45410	Panel mount kit** (flat face only)	75.00
78445	NEMA 4X panel mount kit (flat face only)	100.00
19369	Batching start/stop switch box	300.00
77925	Revolution® III scale software*	35.00
64505	Additional operating manual	25.00
83568	Clear protective overlay (package of five)	60.00
92777	Filter, PreVent™ vent kit	25.00
45409	Allen-Bradley Remote I/O interface (internal)	650.00
49976	Profibus DP interface (internal)	650.00

Relay Products can be found on page 39

Primary Component Parts

64956	Board assembly, 115 VAC	625.00
64960	Board assembly, 230 VAC	625.00
41386	Switch panel membrane	68.00
45484	160 mA TR5 subminiature fuses, 115 VAC	3.15
45107	80 mA TR5 subminiature fuses, 230 VAC	3.15

* Revolution III can be downloaded for FREE at www.ricelake.com

** Panel mount kit is not NEMA rated


†† *CEE 7/7 plug*


† *NEMA 5-15 plug*

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720i™

Programmable HMI Indicator/Controller



Panel Mount
(CPU Enclosure Not Shown)



Universal

REVOLUTION II SCALE SOFTWARE

STANDARD FEATURES

- LCD display size: panel mount (3.8in x 1.2in) universal (5.3in x 1.5in)
- Four soft keys
- Truck in/out, 1,000-ID memory
- Process control engine ProAction PCE define conditions and actions
- Data storage onboard, ProAction DBE user-defined
- (Eight Digital I/O (expandable)
- One option slot for pluggable options
- (20) Auxiliary print formats
- Time & date
- Audit trail tracking and alibi storage
- Peak hold
- Rate of change
- Accumulator
- Multi-range/interval
- Local/remote
- Two full duplex serial ports
- One PS-2 keyboard port
- Header for fiber optic, Ethernet or USB

APPROVALS

NTEP c UL us LISTED OIML (pending) Measurement Canada Approved CE

SPECIFICATIONS

POWER:
Line voltages: 115 or 230VAC,
Frequency: 50 or 60Hz
Power consumption: 25 watts maximum

EXCITATION VOLTAGE:
10VDC, 16 x 350Ω or 32 x 700Ω load cells

ANALOG SIGNAL INPUT RANGE:
-10mV to +45mV

ANALOG SIGNAL SENSITIVITY:
0.3µV/graduation minimum @ 7.5Hz
1.0µV/graduation typical @ 120Hz
4.0µV/graduation typical @ 960Hz

A/D SAMPLE RATE:
7.5 to 960Hz, software selectable

RESOLUTION:
Internal resolution: 8 million counts/8,000,000 23 bit
Weight display resolution: 9,999,999

SYSTEM LINEARITY:
± 0.01% full scale

DIGITAL I/O:
Eight channels on CPU board; optional 24-channel I/O

CIRCUIT PROTECTION:
RFI, EMI, ESD protection

SERIAL PORTS:
Two ports on CPU board support up to 115,200 bps; optional dual-channel serial expansion boards available
Port 2: Full duplex RS-232 with handshaking
Port 4: Full duplex RS-232, simplex 20mA output
PS-2 Keyboard port hard wired (Scan Code 1)

OPTIONAL COMMUNICATION:
Ethernet TCP/IP
RS-485-4 wire
Fiber optic
USB

DISPLAY:
Viewable area:
Panel mount 3.8in x 1.2in (96mm x 30mm)
Universal 5.3in x 1.5in (133mm x 39mm)
240 x 64 pixel, Transflective VGA Liquid Crystal Display (LCD) module with adjustable contrast

KEYBOARD:
10-key (panel mount) membrane panel,
22- key (universal mount) membrane panel tactile feel,
720i will support an external keyboard

OPERATING TEMPERATURE:
Legal: 14°F to 104°F (-10°C to +40°C)
Industrial: 14°F to 122°F (-10°C to +50°C)

DIMENSIONS (W X H X D):
Universal: 10.5in x 7.5in x 3.4in
Panel Mount Display: 7.6in x 3.9in x 1.5in
CPU: 6in x 11in x 2.2in

WEIGHT:
Universal enclosure: 9.5lb (4.3kg)
Panel Mount enclosure: 8.5lb (3.9kg)

RATING/MATERIAL:
NEMA 4X/IP66, stainless steel

APPROVALS:
NTEP - certified at 10,000 divisions, Class III/IIIL CC# 08-022
Measurement Canada-10,000 divisions, Class III/IIIHD (Pending)
OIML-6,000/10,000 divisions (Pending)
CE marked
UL /CUL listed (universal)
UL recognized (panel mount)
ROHS compliant

WARRANTY:
Two-year limited warranty

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720i™

Programmable HMI Indicator/Controller

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
101230	720i Universal 115/230 VAC †	12 lb	$1,100.00
103459	720i Universal 115/230 VAC, †† CE/OIML marked	12 lb	1,100.00
107708	720i Universal, 9-36 VDC Nominal	12 lb	1,200.00
101229	720i Panel Mount 115/230, CUL/NTEP, CE/OIML marked**	12 lb	1,100.00
107710	720i Panel Mount, 9-36 VDC Nominal	12 lb	1,200.00

OPTIONS/ACCESSORIES

Option Cards		
67601	Digital I/O, 24-channel	250.00
67602	Analog output: selectable 0-10 V, 0-20 mA	300.00
67604	Serial, dual channel	300.00
93245	USB Port (PC connection only-replaces serial port 2)	125.00
Network Cards		
77142	Ethernet TCP/IP Port (replaces serial port 2)	400.00
71986	Ethernet TCP/IP module (installed in option slot)	400.00
108671	Wireless LAN Card 802.11 A/B	550.00
68539	Allen-Bradley Remote I/O interface	650.00
68540	Profibus® DP interface	650.00
68541	DeviceNet™ interface	650.00
87803	Ethernet IP for A-B PLC (internal)	800.00
Hardware		
102526	DC/DC converter kit*, 9-36 VDC nominal	150.00
15436	Power cord for panel mount NEMA 5-15 plug	17.00
105382	Power cord for panel mount CEE 7/7 plug	17.00
96736	Fiber optic board (replaces serial port 2)	300.00
93359	PS/2 Keyboard	35.00
92777	Filter PreVent™ vent kit	25.00
19369	Start/stop switch box	300.00
83570	Clear protective overlay (package of five)	60.00
Manuals & Software		
103121	Installation manual	25.00
104033	720i toolkit CD	N/A
107622	720i ProAction Simulator CD	295.00
Relay Products can be found on page 39		
Primary Component Parts		
106788	CPU board assembly	750.00
101244	LCD Display (panel mount)	125.00
102888	LCD Display (universal)	125.00
101239	Display board (with display for panel mount)	300.00
102887	Display board (w/o display for universal)	250.00
67613	AC power supply	130.00
97474	DC/DC converter 9-36 nominal, 25 watt	150.00
101256	Switch membrane for panel mount	55.00
101257	Switch membrane for universal	65.00

*DC/DC converter installed option, requires serial tag charge, not UL approved

**Power cord sold separately

†††Requires 50-pin flat or round ribbon cable


†† *CEE 7/7 plug*


† *NEMA 5-15 plug*

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820i®

Programmable HMI Indicator/Controller



STANDARD FEATURES

- Large (4.6in W x 2.2in H, 320 x 156 pixel) LED back-lit LCD display
- Weight display from .5in to .75in
- Display up to two scales (scale 1, scale 2 and total)
- Five user-defined soft keys
- Weight or millivolt calibration with linearization and geographical compensation
- NEMA 4X/IP66 stainless steel enclosure
- Selectable A-D measurement rate up to 960/second
- Power for 16, 350 ohm load cells
- 100 setpoints, latched or free-running
- Multi-range/Internal
- Peak Hold, Rate of Change
- Audit Trail Tracking and Alibi Software
- One option slot for pluggable options
- 1000 - ID truck register for in/out weighing
- User programmable 256K flash memory
- Onboard data storage 190K
- Downloadable programs
- Visual programming for easily creating custom programs
- Eight digital I/O

APPROVALS

NTEP c UL us LISTED OIML Measurement Canada Approved CE

SPECIFICATIONS

POWER:
Line voltages: 115 or 230VAC,
Frequency: 50 or 60Hz
Power consumption: 25 watts maximum

EXCITATION VOLTAGE:
10VDC, 16 x 350Ω or 32 x 700Ω load cells

ANALOG SIGNAL INPUT RANGE:
-10mV to +45mV

ANALOG SIGNAL SENSITIVITY:
0.3µV/graduation minimum @ 7.5Hz
1.0µV/graduation typical @ 120Hz
4.0µV/graduation typical @ 960Hz

A/D SAMPLE RATE:
7.5 to 960Hz, software selectable

RESOLUTION:
Internal resolution: 8 million counts/8,000,000 23 bit
Weight display resolution: 9,999,999

SYSTEM LINEARITY:
± 0.01% full scale

DIGITAL I/O:
Eight channels on CPU board; optional 24-channel I/O expansion boards available

CIRCUIT PROTECTION:
RFI, EMI, ESD protection

SERIAL PORTS:
Two ports on CPU board support up to 115,200 bps; optional dual-channel serial expansion boards available
Port 2: Full duplex RS-232 with handshaking
Port 4: Full duplex RS-232, 2-wire, RS-485, 20mA output
External keyboard port

OPTIONAL COMMUNICATION:
Ethernet TCP/IP
RS-485-4 wire
Fiber optic
USB

DISPLAY (W X H):
Viewable area: 4.6in x 2.2in (116mm x 55mm), 320 x 156 pixel VGA Liquid Crystal Display (LCD) module with adjustable contrast

KEYBOARD:
28-key membrane panel, tactile feel, 820i will support an external keyboard connection

OPERATING TEMPERATURE:
Legal: 14°F to 104°F (-10°C to +40°C)
Industrial: 14°F to 122°F (-10°C to +50°C)

DIMENSIONS (W X H X D):
Universal: 10.5in x 11.2in x 4.5in (266mm x 217mm x 114mm)
Panel Mount: 11.6in x 9.2in x 5.2in (294mm x 231mm x 127mm)

WEIGHT:
Universal enclosure: 9.5lb (4.3kg)
Panel Mount enclosure: 8.5lb (3.9kg)

RATING/MATERIAL:
NEMA 4X/IP66, stainless steel

APPROVALS:
NTEP - certified at 10,000 divisions, Class III/IIL, CC#01-088A5
Measurement Canada-10,000 divisions, Class III/IIIHD AM-5426
OIML-6,000/10,000 divisions UK 2658
CE marked
UL /CUL listed (universal)
UL recognized (panel mount)
ROHS compliant

WARRANTY:
Two-year limited warranty

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820i®

Programmable HMI Indicator/Controller

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
Single Channel			
91995	820i Universal, 115 VAC†	10 lb	$1,425.00
91996	820i Universal, 230 VAC†	10 lb	1,425.00
91997	820i Universal, 230 VAC†† CE/OIML	10 lb	1,425.00
107711	820i Universal, 9-36 VDC Nominal	10 lb	1,525.00
93424	820i Panel Mount, 115 VAC†	9 lb	1,425.00
98280	820i Panel Mount, 230 VAC††, CE/OIML	9 lb	1,425.00
107712	820i Panel Mount, 9-36 VDC Nominal	9 lb	1,525.00
Dual Channel			
93011	820i Universal, 115 VAC†	10 lb	1,575.00
93012	820i Universal, 230 VAC†	10 lb	1,575.00
93013	820i Universal, 230 VAC†† CE/OIML	10 lb	1,575.00
93425	820i Panel Mount, 115 VAC†	9 lb	1,575.00
98281	820i Panel Mount, 230 VAC††, CE/OIML	9 lb	1,575.00

OPTIONS/ACCESSORIES

Option Cards		
67601	Digital I/O, 24-channel	250.00
67602	Analog output: selectable 0-10V, 0-20 mA	300.00
103138	Analog output, dual channel 0-10V, 0-20 mA (requires version 1.04)	500.00
67604	Serial, dual channel	300.00
87697	Analog input +/-10 VDC, 0-20 mA & thermocouple	400.00
93245	USB Port (PC connection only-replaces serial port)	125.00
Network Cards		
77142	Ethernet TCP/IP Port (serial port 2 header)	400.00
65383	Ethernet Thin Server (external)	395.00
71986	Ethernet TCP/IP module (installed in option slot)	400.00
98057	Wireless LAN card 802.11 B/G (installed in option slot)	650.00
108671	Wireless LAN card 802.11 A/B (serial port 2 header)	550.00
68539	Allen-Bradley Remote I/O interface	650.00
68540	Profibus® DP interface	650.00
68541	DeviceNet™ interface	650.00
87803	Ethernet IP for A-B PLC	800.00
103136	ControlNet interface	800.00
Hardware		
96925	Scanner, MS-3204, RS232	425.00
102526	DC/DC converter kit*, 9-36 VDC nominal (factory installed option)	150.00
96736	Fiber optic board	300.00
87608	Reinforcing plate for panel mount	30.00
93359	PS/2 Keyboard	35.00
83569	Clear protective overlay (package of five)	60.00
92777	Filter PreVent™ vent kit	25.00
19369	Start/stop switch box	300.00
100758	Sunlight viewable display, transflective installed option, replaces transmission display	265.00

*DC/DC convertor installed option, requires serial tag change, not UL approved

Manuals and Software		
93018	Installation manual	25.00
77925	Revolution® III scale software	35.00
93019	IRITE IDE software (version 1.0 included with indicator)	95.00

Relay Products can be found on page 39

Primary Component Parts		
102331	CPU board assembly-single channel	850.00
102333	CPU board assembly-dual channel	995.00
93246	Display board assembly	265.00
67613	Power supply assembly, 25 watt	130.00
97474	DC/DC converter, 9-36 VAC, nominal, 25 watt	150.00
93247	Switch panel membrane	68.00

†††Requires 50-pin flat or round ribbon cable


†† *CEE 7/7 plug*


† *NEMA 5-15 plug*

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920i®

Programmable HMI Indicator/Controller



STANDARD FEATURES

- Large (4.6in W x 3.4in H, 320 x 240 pixel) back-lit LCD graphical display
- Selectable character sizes from .25in to 1.2in
- 60 configurable operator prompts
- Display up to four scale channels per screen with required legal-for-trade information
- 32 scale accumulators
- Five soft keys with 10 user-defined, 14 preset functions per screen
- Ten programmable display screens
- Millivolt calibration, 5-point linearization and geographical calibration
- NEMA 4X/IP66 stainless steel enclosure
- Selectable A/D measurement rate up to 960/second
- 100 setpoints, 30 configurable setpoint types
- Two slots for option cards
- 1,000-ID truck register for in/out weighing
- 64K user on-board NV RAM
- User programmable 128K flash memory
- Reflash memory to upgrade firmware
- Power for 16, 350Ω load cells per A/D board
- Local-remote indicators
- Multi range/interval
- Alibi storage
- Audit trail tracking
- Peak hold
- Rate of change

APPROVALS

Measurement Canada Approved

SPECIFICATIONS

POWER:
Line voltages: 115 or 230VAC
Frequency: 50 or 60Hz
Power consumption: 340mA, maximum @ 115VAC (26W) 240mA @ 230VAC (26W)

EXCITATION VOLTAGE:
10 ± VDC, 16 x 350Ω or 32 x 700Ω load cells per A/D card

ANALOG SIGNAL INPUT RANGE:
-10mV to +45mV

ANALOG SIGNAL SENSITIVITY:
0.3µV/graduation minimum @ 7.5Hz
1.0µV/graduation typical @ 120Hz
4.0µV/graduation typical @ 960Hz

A/D SAMPLE RATE:
7.5 to 960Hz, software selectable

RESOLUTION:
Internal resolution: 8 million counts
Weight display resolution: 9,999,999

SYSTEM LINEARITY:
± 0.01% full scale

DIGITAL I/O:
Four I/O channels on CPU board; optional 24-channel I/O expansion boards available

CIRCUIT PROTECTION:
RFI, EMI, ESD protection

SERIAL PORTS:
Four ports on CPU board support up to 115,200 bps; optional dual-channel serial expansion boards available
Port 1: Full duplex RS-232
Port 2: RS-232 with CTS/RTS; PS/2 keyboard interface via DB-9 connector
Port 3: Full duplex RS-232, 20mA output
Port 4: Full duplex RS-232, 2-wire RS-485, 20mA output

DISPLAY (W X H):
4.6in x 3.4in (116 W x 86mm H), 320 x 240 pixel VGA Liquid Crystal Display (LCD) module with adjustable contrast

KEYBOARD:
27-key membrane panel, tactile feel, PS/2 port for external keyboard connection

OPERATING TEMPERATURE:
Legal: 14°F to 104°F (-10°C to +40°C)
Industrial: 14°F to 122°F (-10°C to +50°C)

DIMENSIONS (W X H X D):
Universal: 10.5in x 11.2in x 4.5in (266mm x 217mm x 114mm)
Wall Mount: 14.3in x 18.0in x 6.75in (355mm x 457mm x 171mm)
Panel Mount: 11.6in x 9.2in x 5.2in (294mm x 231mm x 127mm)
Deep Universal: 10.75in x 10.75in x 5.4in (273mm x 273mm x 137mm)

WEIGHT:
Universal enclosure: 9.5lb (4.3kg)
Wall Mount enclosure: 23.0lb (10.4kg)
Panel Mount enclosure: 8.5lb (3.9kg)
Deep Universal: 11lb (5.0kg)

RATING/MATERIAL:
NEMA 4X/IP66, stainless steel

APPROVALS:
NTEP - at 10,000 Divisions, Class III/IIIL, CC# 01-088A5
Measurement Canada at 10,000 Divisions, Class III/III HD AM-5426
OIML approved 6,000/10,000, UK 2658
CE marked
UL & C-UL listed (Universal, Deep and Wall Mount Enclosure)
Custom Wall Mount approved for 508A (Optional)
Panel Mount UL recognized
Panel Mount 810 style not UL recognized

WARRANTY:
Two-year limited warranty

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920i®

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PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
Single Channel - 115 VAC†			
67527	920i Universal	10 lb	$1,800.00
82455	920i Deep Universal	12 lb	2,000.00
69763	920i Wall Mount, stainless steel	2 lb	2,400.00
69764	920i Panel Mount, stainless steel bezel	9 lb	1,800.00
106264	920i Panel Mount, Replace IQ + 810 Panel Mount	12 lb	1,800.00
Single Channel - 230 VAC†			
67615	920i Universal	10 lb	1,800.00
82457	920i Deep Universal	12 lb	2,000.00
69765	920i Wall Mount	23 lb	2,400.00
69766	920i Panel Mount	9 lb	1,800.00
Single Channel - 230 VAC with Euro plug ††			
69522	920i Universal	10 lb	1,800.00
82459	920i Deep Universal	12 lb	2,000.00
72133	920i Wall Mount	23 lb	2,400.00
72137	920i Panel Mount...	9 lb	1,800.00
Single Channel - 9-36 VDC			
107713	920i Universal, 25 watt	10 lb	1,900.00
107714	920i Deep Universal, 25 watt	12 lb	2,100.00
107715	920i Wall Mount, 25 watt	23 lb	2,500.00
107716	920i Panel Mount, 25 watt	9 lb	1,900.00
Dual Channel - 115 VAC†			
69767	920i Universal	10 lb	1,950.00
82456	920i Deep Universal	12 lb	2,150.00
69770	920i Wall Mount	23 lb	2,550.00
69771	920i Panel Mount	9 lb	1,950.00
106265	920i Panel Mount, Replaces IQ + 810 Panel Mount	12 lb	1,950.00
Dual Channel - 230 VAC†			
69772	920i Universal	10 lb	1,950.00
82458	920i Deep Universal	12 lb	2,150.00
69776	920i Wall Mount	23 lb	2,550.00
69777	920i Panel Mount	9 lb	1,950.00
Dual Channel - 230 VAC with Euro plug††			
69774	920i Universal	10 lb	1,950.00
82460	920i Deep Universal	12 lb	2,150.00
72134	920i Wall Mount	23 lb	2,550.00
72138	920i Panel Mount...	9 lb	1,950.00
No A-D Channel - 115 VAC†			
77790	920i Universal, without A/D channel	10 lb	1,650.00
93243	920i Deep Universal, without A/D channel	12 lb	1,850.00
77794	920i Wall Mount, without A/D channel	23 lb	2,250.00
77792	920i Panel Mount, without A/D channel	9 lb	1,650.00
No A-D Channel - 230 VAC††			
77791	920i Universal, without A/D channel	10 lb	1,650.00
93244	920i Deep Universal, without A/D channel	12 lb	1,850.00
77795	920i Wall Mount, without A/D channel	23 lb	2,400.00
77793	920i Panel Mount, without A/D channel	9 lb	1,650.00

OPTIONS/ACCESSORIES

Option Cards		
68532	A/D, single channel	250.00
68533	A/D, dual channel	400.00
67600	Memory, 1 MB NV RAM	250.00
67601	Digital I/O, 24-channel TTL output	250.00
67602	Analog output: selectable 0-10V, 0-20 mA	300.00
103138	Analog output, dual channel 0-10V, 0-20 mA	500.00
67603	Pulse input, single channel	250.00
67604	Serial, dual channel	300.00

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920i®

Programmable HMI Indicator/Controller

PART # DESCRIPTION **PRICE**

OPTIONS/ACCESSORIES

Option Cards (continued)

87697..... Analog input +/-10 VDC, 0-20 mA and thermocouple $400.00

†† *CEE 7/7 plug* † *NEMA 5-15 plug*

Network Cards

65383 ..... Ethernet Thin Server (external) 395.00
71986..... Ethernet TCP/IP 10/100 Base-T module (internal) 400.00
98057..... Ethernet TCP/IP, wireless 650.00
68539 ..... Allen-Bradley Remote I/O interface 650.00
68540 ..... Profibus® DP interface 650.00
68541 ..... DeviceNet™ interface 650.00
87803..... Ethernet IP for A-B PLC (internal) 800.00
103136..... ControlNet interface 800.00

Expansion Cards

69782***..... Two-slot expansion board (wall mount) 245.00
71743**..... Two-slot expansion board (panel mount & deep universal) 245.00
69783***..... Six-slot expansion board (wall mount) 375.00

Hardware

96925..... Scanner, MS-3204, RS232 ..... 425.00
102526..... DC/DC convertor kit, 9-36 VDC, nominal 25 watt* (factory installed option) 150.00
81217..... Sun shield 79.00
83569..... Clear protective overlay (package of five) 60.00
70056..... Cable, DB9M to DB9F, Straight Cable 29.00
93359..... PS/2 Keyboard 35.00
77788..... Fiber optic board, installed in 920i 300.00
87608..... Reinforcing plate for panel mount 30.00
92777..... Filter, PreVent™ vent kit PG 7 cord grip 25.00
19368..... Start/stop controls 300.00
100759..... Sunlight viewable display, transflective installed option, replaces transmission display 265.00

*DC/DC convertor installed option, requires serial tag change, not UL approved

Manuals and Software

69781..... iRev™ Scale Software 95.00
72809..... 920i interchange® database software 295.00
67887..... Additional installation manual 25.00

Manuals

102653..... Germany 25.00
105794..... French 25.00
106585..... Spanish 25.00
105793..... Italian 25.00
67888..... Additional programming reference 55.00

Relay Products can be found on page 39

OPTIONS/ACCESSORIES

Primary Component Parts

70912..... CPU board assembly 825.00
67614..... Display board assembly Transmission Blue 265.00
100759..... Display board assembly, Transflective Gray, sunlight viewable 265.00
67613..... Power supply assembly, 25 watt 130.00
71333..... Power supply, 65 watt used in Deep, Panel Mount and Wall Enclosures 160.00
97474..... DC/DC converter 9-36 nominal, 25 watt 150.00
66502..... Switch panel membrane 68.00
72339..... 3.15A TR5 subminiature fuses, 230 VAC 3.15
71462..... 3.15A TR5 subminiature fuses, 115 VAC 3.15

* Requires 50-pin flat or round ribbon cable
** Includes flat ribbon cable and power supply cable to CPU board (panel mount)
*** Includes flat ribbon cable and power supply cable to CPU board (wall mount)

RICE LAKE WEIGHING SYSTEMS

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CONDEC™ UMC600

Digital Weight Indicator



STANDARD FEATURES

- Surge protection board
- Auto/manual batching modes
- 80,000 display graduations available
- RFI/EMI shielded
- Easy digital configuration and calibration
- Four control inputs/outputs
- Truck in/out weighing mode, 300 truck ID storage
- One 10-digit accumulator
- Five point linearization
- Keyboard customized serial output
- Time and date
- Front panel key lockout
- Temperature compensated - 18ºF to 104ºF (-10ºC to 40ºC)

APPROVALS

Measurement Canada Approved

SPECIFICATIONS

EXCITATION VOLTAGE:
10 VDC, fixed, short-circuit proof
Load cell current: 240 mA maximum (8 350 Ω load cells)

ANALOG SIGNAL INPUT RANGE:
0.7 mV/V - 2.0 mV/V "high span"
1.7 mV/V - 3.2 mV/V "low span"

CONVERSION RATE AT FULL SCALE:
10 updates per second, no averaging

RESOLUTION:
10,000 displayed graduations, expanded 80,000 (max.), 100,000 internal graduations

DISPLAY:
6-digit , 0.6 in (15.2 mm) red Light Emitting Diode (LED) Display

FRONT-PANEL CONTROL SWITCHES:
Zero, Gross/Net, Tare, Print, Tare Recall, SP1, SP2, Data Entry Keys

FRONT-PANEL ANNUNCIATORS:
Center Zero, Net, lb, kg, Motion (Red bar LEDs)

SERIAL OUTPUT:
Port 1: Full duplex RS-232*, 20 mA current loop (optional RS-485)
Port 2: Simplex RS-232*, 20 mA current loop
*Floating ground may require isolation

SETPOINT OUTPUT CONTROL:
4 bi-polar 5 VDC logic levels

KEYBOARD:
21 key overlay, pushbuttons switches

REMOTE CONTROL INPUTS:
4, 5 VDC logic levels

POWER INPUT:
115/20 VAC, 50/60 Hz, or external DC

POWER CONSUMPTION:
14 watts
Battery option run time approx. 8 hours

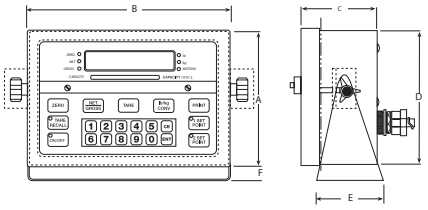
OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C)

RATING/MATERIAL:
NEMA 4x stainless steel

OVERALL DIMENSIONS:
9.12 in L x 6.62 in H x 4.18 in W
(251 mm L x 168 mm H x 106 mm W)
Weight: Approximately 9.5 lb 4.3 kg)

APPROVALS:
NTEP Certified, CC# 00-004A1; Measurement Canada Approved S-WA-4131

WARRANTY:
Two-year limited warranty



DIMENSIONS			
A	6.62 in (168.1 mm)	**D**	6.34 in (161.0 mm)
B	9.12 in (231.6 mm)	**E**	3.94 in (100 mm)
C	4.18 in (106.2 mm)	**F**	0.90 in (22.9 mm)

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RICE LAKE WEIGHING SYSTEMS

CONDEC™ UMC600

Digital Weight Indicator

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
115 VAC			
19198	UMC600AAAC, w/tilt stand	11 lb	$1,095.00
55623	UMC600BAAC, w/panel mount brackets	11 lb	1,095.00
61652	UMC600DAAC, flange mount	11 lb	1,195.00
59659	UMC600ACAC, w/tilt stand, w/battery	11 lb	1,170.00
56231	UMC600BCAC, w/panel mount brackets, w/battery	11 lb	1,170.00
54117	UMC600AFAC, w/tilt stand, analog 0-10 VDC, 4-20 mA	11 lb	1,490.00
57186	UMC600BFAC, w/panel mount brackets, analog 0-10 VDC; 4-20 mA output	11 lb	1,490.00
55622	UMC600AKAC, w/tilt stand, analog 0-10 VDC; 4-20 mA output; 4 SS relays	11 lb	1,615.00
54722	UMC600AHAC, w/tilt stand, relay output	11 lb	1,360.00
62337	UMC600DHAC, flange mount, relay output	11 lb	1,460.00
62723	UMC600CAAC, uncased	6 lb	850.00
12 VDC (external input)			
62934	UMC600AEAC, w/tilt stand, 12 VDC	11 lb	1,095.00
61196	UMC600AEAC-44, w/tilt stand, 12 VDC w/power conditioning circuit	11 lb	1,235.00
56864	UMC600BEAC, w/panel mount brackets, 12 VDC	11 lb	1,095.00
61893	UMC600DEAC, flange mount, 12 VDC	11 lb	1,195.00
230 VAC			
59318	UMC600ABAC, w/tilt stand	11 lb	1,095.00
55960	UMC600BBAC, w/panel mount brackets	11 lb	1,095.00
58514	UMC600BJAC, w/panel mount brackets, relay output	11 lb	1,360.00
59295	UMC600BLAC, w/panel mount brackets, analog 0-10 VDC; 4-20 mA output; 4 SS relays	11 lb	1,615.00

All other part number configurations are available as special order units.

OPTIONS/ACCESSORIES

55649	Battery, KBT7116-14	90.00
55653	Relay board with four solid state relays (new style), KBT7116-16	265.00
55658	Analog kit (no board), KBT7116-17 (requires part #55653)	290.00
55660	Analog output board, KBT7116-18	395.00
55662	Relay and analog output board, KBT7116-19	520.00
16815	Technical manual	89.00
30261	Additional installation manual	35.00
30352	Panel mount brackets	47.00

UMC600PART NUMBERING GUIDE

UMC600 (__) (__) (__) (__)

ENCLOSURE
A = Stainless steel with tilt stand
B = Stainless steel with panel mount kit
D = Flange mount

INPUT POWER
A = 115 VAC, 60 Hz
B = 230 VAC, 50 Hz
C = 115 VAC, 60 Hz with battery option (part #55649)
D = 230 VAC, 50 Hz with battery option (part #55649)
E = 12 VDC (external input)
F = 115 VAC with analog output option 0-10 VDC; 4-20 mA (part #55660)
G = 230 VAC with analog output option 0-10 VDC; 4-20 mA (part #55653)
H = 115 VAC with relay output option (solid state) (part #55653)
J = 230 VAC with relay output option (solid state) (part #55660)
K = 115 VAC with analog & relay output option 0-10 VDC; 4-20 mA output, 4 SS relays (part #55662)
L = 230 VAC with analog & relay output option 0-10 VDC; 4-20 mA, 4 SS relays (part #55662)

DISPLAY
A = Light Emitting Diode (LED)

LOAD CELL TERMINATION
C = RFI - shielded 6-wire connector

* Panel mount kit is not NEMA rated

RICE LAKE WEIGHING SYSTEMS

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IQ 700

Digital Weight Indicator



APPROVALS

Measurement Canada Approved

STANDARD FEATURES

- Bright Light Emitting Diode (LED) display
- AC power
- Stainless steel NEMA 4X enclosure
- Front panel digital calibration
- Automatic zero and span temperature compensation
- Excitation for eight 350Ω load cells at 10VDC
- Two fully programmable setpoints with “Zero Band”
- Two serial ports offering bidirectional RS-232 and simplex RS-232 or 20mA current loop
- Gross/Tare/Net computation
- Time and date
- Accumulator
- 300-truck ID memory
- Versatile tilt stand
- Setup parameters printout

SPECIFICATIONS

EXCITATION VOLTAGE:
10VDC, fixed, short-circuit proof
Load cell current: 240mA maximum (8 x 350Ω load cells)

ANALOG SIGNAL INPUT RANGE:
-0.6mV/V - 3.33mV/V

ANALOG SENSITIVITY:
0.3 microvolts/graduation minimum

CONVERSION RATE AT FULL SCALE:
10 updates per second, typical

RESOLUTION:
80,000 displayed graduations 100,000 internal graduations

DISPLAY:
Six red Light Emitting Diode (LED) digits, 0.6in (15.2mm)

KEYBOARD:
21 key overlay; pushbutton switches

* Floating ground may require isolation

FRONT-PANEL CONTROL SWITCHES:
Zero, Gross/Net, Auto Tare, lb/kg conversion, Print, Tare Recall, SP1, SP2 and Data Entry Keys

FRONT-PANEL ANNUNCIATORS:
Center Zero, Net, Gross, lb, kg and Motion (LED)

SERIAL OUTPUTS:
Port 1: Bidirectional RS-232* or 20mA.
Port 2: Simplex RS-232* or 20mA current loop; truck IN/OUT only on port 2

SETPOINTS:
2 bi-polar setpoint outputs, TTL compatible equipped with “zero band” which operates at a programmable number of graduations around zero

POWER:
Power input: 115VAC at 20 watts at 50/60Hz (Optional 230VAC, 50Hz)
Power consumption: 20 watts typical

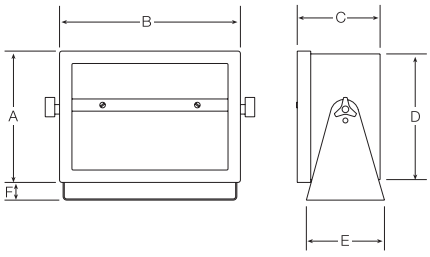
OPERATING TEMPERATURE:
Legal: 14°F to 104°F (-10°C to 40°C)

RATING/MATERIAL:
NEMA 4X stainless steel

WEIGHT:
9.5lb (4.3kg)

APPROVALS:
NTEP - certified at 10,000 Divisions, Class III/IIIL, CC# 89-023A2
Measurement Canada approved, S.WA-4131

WARRANTY:
Two-year limited warranty



DIMENSIONS			
A	6.62in (168mm)	**D**	6.34in (161mm)
B	9.12in (231mm)	**E**	3.94in (100mm)
C	4.18in (106mm)	**F**	0.90in (22mm)

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IQ 700

Digital Weight Indicator

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
19191	IQ 700 LED display, 115 VAC†	14 lb	$1,095.00
34752	IQ 700 LED display, 230 VAC†	14 lb	1,095.00

OPTIONS/ACCESSORIES

30352	KBT7116-5 Panel mount kit*	47.00
15959	Unlatched dry contact 4-relay board	235.00
19576	BCD output (external)	565.00
19578	Analog output, 0-10 VDC or 4-20 mA (external mount)	565.00
22922	Analog output, 0-10 VDC or 4-20 mA (internal mount)	565.00
55660	Analog output, 0-10 VDC or 4-20 mA (internal mount, 16-bit new version)	395.00
55662	Combination relay and analog board	520.00
16815	Technical manual	89.00
16821	Additional installation manual	36.00
Primary Component Parts		
19571	CPU board, 115 VAC	650.00
19601	CPU board, 230 VAC	650.00
56897	Surge suppressor board	55.00
19573	LED display board	290.00
19404	Overlay front panel	31.00
19539	Overlay red display	16.00
16444	250 mA fuse	2.65
92777	Filter, Gortex vent kit	25.00

* Panel mount kit is not NEMA rated

† *NEMA 5-15 plug*

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DIGI DI®-300SS

Digital Weight Indicator



STANDARD FEATURES

- NEMA 4X/IP67 stainless steel construction
- Universal enclosure with tilt stand
- Large 1 in (25 mm) six digit LED (green)
- 15 segment bar graph for under, accept, over
- Hard coated soft touch inductive keys
- RS232 with handshaking RTS/CTS
- Five setpoints and five digital inputs
- Setpoints are latched with selectable on and off times
- Function keys for setpoints, counting, lot entry
- 100 product memory (PLU)
- Accumulators with addition/subtraction
- Peak hold
- Time and date

SPECIFICATIONS

INTERNAL RESOLUTION:
1,000,000 counts

DISPLAY RESOLUTION:
40,000 counts

DISPLAY DIVISION:
1,2,5,10,20,50

INDICATOR MARKS:
Net, COZ, motion, setup, and 2 setup determined

INPUT SENSITIVITY:
0.4 - 2.25 mV/V

ZERO ADJUST RANGE
50% full scale

A/D CONVERSION RATE:
Selectable to 60 Hz

NON LINEARITY:
0.01% full scale

EXCITATION VOLTAGE:
5 VCD, 230 mA (8 x 350 Ω load cells)

POWER:
115/230 VAC, 50/60 Hz

OPERATION TEMPERATURE:
14 to 104°F (-10 to 40°C)

OPERATING HUMIDITY:
85% non-condensing

DIMENSIONS:
(250 x 150 x 65 mm)

EST. SHIP WEIGHT:
10 lb (5 kg)

WARRANTY:
Two-year limited warranty

DI-300SS

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
103640	DI-300SS with RS232 & setpoints, 115 VAC/230 VAC		$800.00
103641	DI-300SS with Ethernet TCP/IP, 115 VAC/230 VAC		1,050.00

OPTIONS/ACCESSORIES

103642	Ethernet RS232 board (TWB-10741)	250.00
103643	Ethernet cable (TCW-0722) with external RJ 45 connector	45.00
74414	Load cable (TCW-0730)	45.00
32375	14-pin load cell connector, amphenol	20.00
103643	Additional operation manual	30.00

*Batteries not included

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CW-90

Checkweigher Indicator Only



APPROVALS

Pending

STANDARD FEATURES

- Membrane, keypad consisting of ZERO, UNITS, PRINT, TARE, OVER, UNDER, ID, TARGET, 0-9, CLEAR, DECIMAL, ENTER, MENU, POWER
- 304 stainless steel, IP66 rated
- Prevent breather vent
- Storage for up to 50 IDs
- Unit of measure: kg, gm, lb, oz, lb/oz
- High intensity LED display
- Time and date
- Two full duplex serial ports
- Configurable print formats
- Audit trail tracking
- Optional communications: Ethernet, USB or Fiber Optic
- Four configurable digital I/O
- Reflash memory to upgrade firmware

SPECIFICATIONS

POWER - AC:
Line voltages: 115/230 VAC
Frequency: 50/60 Hz

POWER CONSUMPTION:
1.5 A @ 115 VAC (8 W),
0.75 A @ 230 VAC (8 W)

EXCITATION VOLTAGE:
+5 VDC 8 x 350 Ω or
16 x 700 Ω load cells

ANALOG SIGNAL INPUT RANGE:
-0.5 mV/V - 4.5 mV/V

ANALOG SIGNAL SENSITIVITY:
0.3 uV/graduation minimum, 1.5 uV/ graduation recommended

MEASUREMENT RATE:
960,480, 240, 120, 60, 30, 15, 7.5 per second

SYSTEM LINEARITY:
+/- 0.01% full scale

CIRCUIT PROTECTION:
RFI, EMI, ESD protection

DIGITAL I/O:
4 channels on CPU board

DISPLAY:
Large 0.8 in 14 segment, 6 digit high-intensity red LED display

STATUS ANNUNCIATORS:
Designators for %, kg, gm, lb, oz, center of zero, G/B, N, T, PT, neg, motion

OPERATING TEMPERATURE:
Legal: 14ºF to 104ºF
(-10ºC to +40ºC)

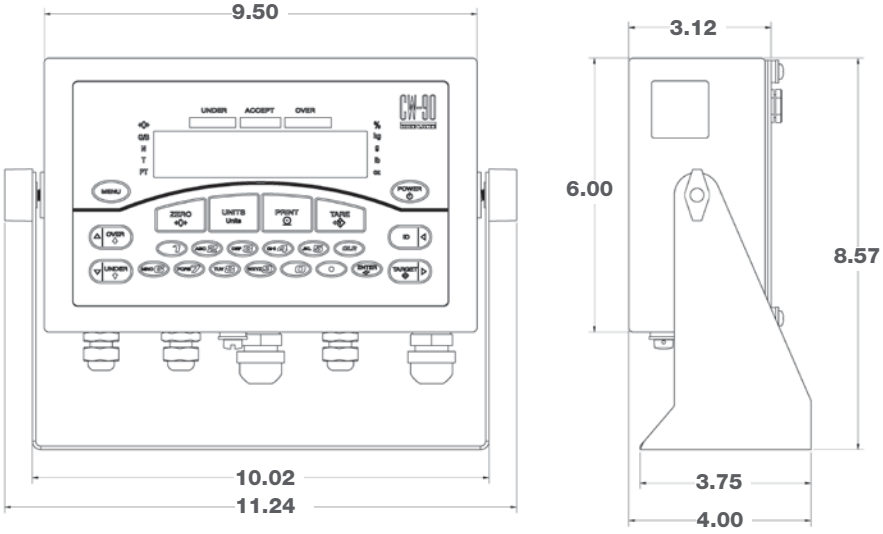
RATING/MATERIAL:
IP66, stainless steel

KEYBOARD:
Membrane keypad, 23 keys with International symbols

DISPLAY RESOLUTION:
100,000 graduations maximum

APPROVALS:
NTEP - 08-092
Measurement Canada AM-5710
OIML (pending)
UL & CUL listed
CE marked

WARRANTY:
Two-year limited warranty



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CW-90

Checkweigher Indicator Only

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
105970	CW-90, 115 VAC	7 lb	$750.00
105971	CW-90, 230 VAC	7 lb	750.00

OPTIONS/ACCESSORIES

77142	Ethernet TCP/IP	400.00
108671	Wireless LAN card WiFi 802.11 A/B	550.00
93245	USB Port (PC connection only)	125.00
95357	USB cable, Type A to mini-B, 1 meter	5.00
96736	Fiber optic board	300.00
78026	Fiber optic, duplex cable 100 ft	130.00
80892	Fiber optic cutter	7.00

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CW-90X

Checkweigher Indicator Only



REVOLUTION III SCALE SOFTWARE

STANDARD FEATURES

- Piezo keypad consisting of ZERO, UNITS PRINT, TARE, UNDER, ID, TARGET, ENTER, MENU, POWER
- 304 stainless steel, IP69K rated
- Prevent breather vent
- Storage for up to 50 IDs
- Unit of measure: kg, gm, lb, oz, lb/oz
- High intensity LED display
- Battery backed time and date
- Two full duplex serial ports
- Configurable print formats
- Audit trail tracking and alibi storage
- Optional communications: Ethernet, USB or Fiber Optic
- Four configurable digital I/O
- Reflash memory to upgrade firmware

APPROVALS

NTEP Pending | cULus LISTED Pending | OIML Pending | Measurement Canada Approved Pending | CE Pending

SPECIFICATIONS

POWER - AC:
Line voltages: 115/230 VAC
Frequency: 50/60 Hz

POWER CONSUMPTION:
1.5 A @ 115 VAC (8 W),
0.75 A @ 230 VAC (8 W)

EXCITATION VOLTAGE:
+5 VDC 8 x 350 Ω or
16 x 700 Ω load cells

ANALOG SIGNAL INPUT RANGE:
-0.5 mV/V - 4.5 mV/V

ANALOG SIGNAL SENSITIVITY:
0.3 uV/graduation minimum, 1.5 uV/ graduation recommended

MEASUREMENT RATE:
960,480, 240, 120, 60, 30, 15, 7.5 per second

SYSTEM LINEARITY:
+/- 0.01% full scale

DIGITAL I/O:
4 channels on CPU board

CIRCUIT PROTECTION:
RFI, EMI, ESD protection

DISPLAY:
Large 0.8 in 14 segment, 6 digit high-intensity red LED display

STATUS ANNUNCIATORS:
Designators for %, kg, gm, lb, oz, center of zero, G/B, N, T, PT, neg, motion

OPERATING TEMPERATURE:
Legal: 14ºF to 104ºF
(-10ºC to +40ºC)

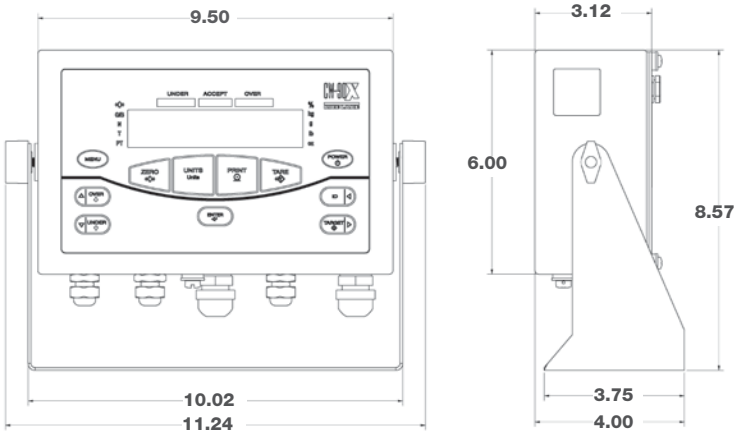
RATING/MATERIAL:
IP69K, stainless steel

DISPLAY RESOLUTION:
100,000 graduations maximum

KEYBOARD:
Piezo keypad, 11 keys with International symbols

APPROVALS:
NTEP 08-092
Measurement Canada AM-5710
OIML (pending)
UL & CUL listed
CE marked

WARRANTY:
Three-year limited warranty



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CW-90X

Checkweigher Indicator Only

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
105972	CW-90X, 115 VAC	7 lb	$795.00
105973	CW-90X, 230 VAC	7 lb	795.00

OPTIONS/ACCESSORIES

77142	Ethernet TCP/IP	400.00
108671	Wireless LAN card WiFi 802.11 A/B	550.00
93245	USB Port (PC connection only)	125.00
95357	USB cable, Type A to mini-B, 1 meter	5.00
96736	Fiber optic board	300.00
78026	Fiber optic, duplex cable 100 ft	130.00
80892	Fiber optic cutter	7.00

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VIRTUi®/VIRTUi®2

PC-Based HMI for iQUBE/iQUBE2



VIRTUi is a Windows®-based desktop application that works with iQUBE™/iQUBE^2 to replicate the IQ plus® 355 indicator Ideal for system integrators and OEMs wanting to provide a PC-based solution, VIRTUi provides the functionality of a basic weight indicator. Load cells are individually monitored and calibrated, making setup easy.

STANDARD FEATURES

- Web browser-based iQUBE® cell status
- Configurable display options
- Virtual front panel consists of display and five button keypad
- Up to eight digital I/O (provided by iQUBE)
- Primary/secondary units configuration (lb, kg, short tons, metric tons, none)
- RS-232 communications at up to 57.6 Kbps
- Electronic data processing (EDP) port over RS-232 and TCP/IP
- Printer port for output-only, simplex communications
- Two print formats
- Provides for iQUBE configuration
- Supports iQUBE diagnostics with configurable error reporting
- Peak weight history
- Recalibration notification
- Provides local and remote reporting of diagnostics and error conditions
- NTEP Certified for Classes III and IIIL at 10,000 divisions
- Concentrated load capacity (CLC)
- Section capacity

SPECIFICATIONS

MINIMUM SYSTEM REQUIREMENTS:

Windows® 2000™ or greater
Internet Explorer 6.0 SP1
.NET Framework 1.1
128 MB Ram
30 MB free hard drive space
Serial port for connection to iQUBE
Additional serial ports are required for connections to printers/remote displays

STATUS ANNUNCIATORS:

Units (lb, kg, short tons (tn), metric tons (t), NONE) Gross/Net, Motion, Center of Zero

Windows is a registered trademark of Microsoft Corporation

PART #	DESCRIPTION	PRICE
86762	VIRTUi Virtual Indicator DEMO CD for iQUBE®	N/A
85107	Activation Part Number requires machine ID and customer email address	$495.00
108435	VIRTUi^2 Virtual Indicator DEMO CD for iQUBE®^{2}	N/A
108436	Activation Part Number Requires Machine ID and Customer's email address	495.00

See page JB-15 and JB-16 for iQUBE^2 pricing

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Input/Output Components

Relays



OPTO 22 G4 Relays and Relay Board
(available in 3.25 x 3.25 in and 6.1 x 1.2 in)



Dayton multi-function relay

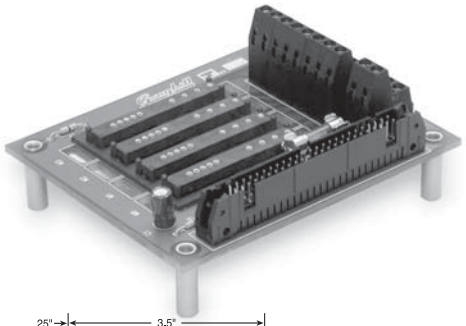


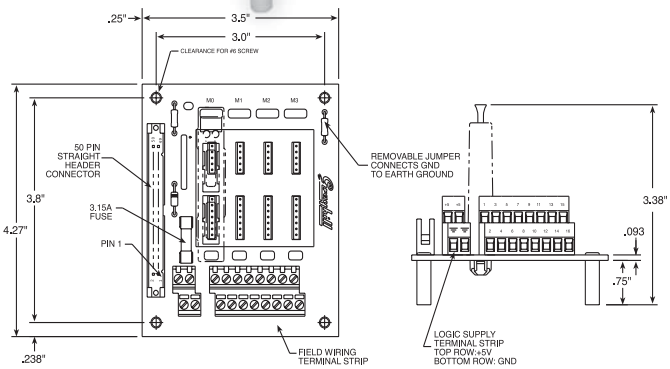
Allen-Bradley® multi-function relay with digital display

Allen-Bradley is a registered trademark of Rockwell Automation, Inc.

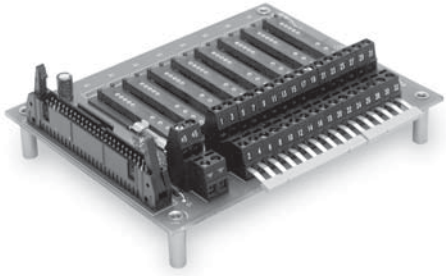
Grayhill Relays and Racks

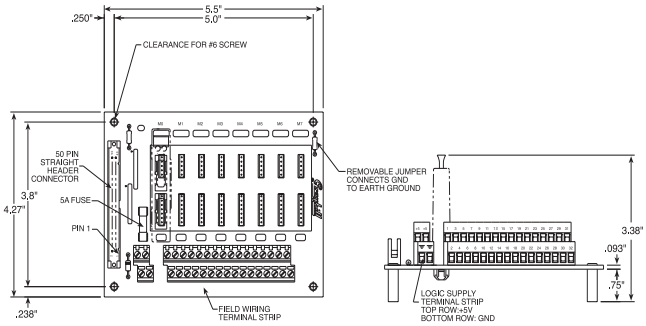
8-channel relay rack



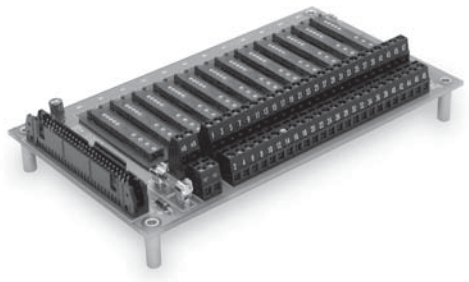


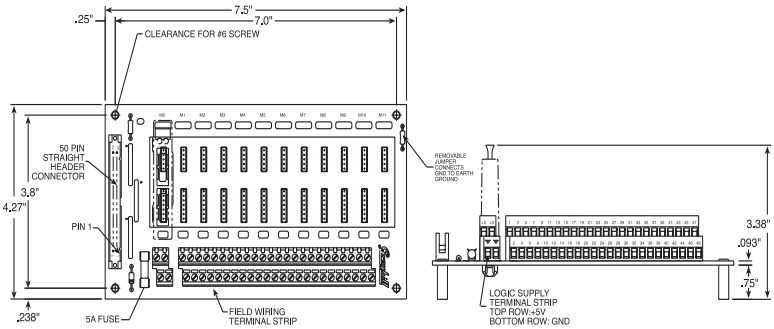
16-channel relay rack





24-channel relay rack





Indicators

Input/Output Component

PART #	DESCRIPTION	PRICE
43942	Allen-Bradley® multi-function relay with digital display	$395.00
29616	Dayton multi-function relay	195.00
Other Relays		
15952	8-pin octal relay, AC/DC output, 10A, 120 VAC coil	54.00
15960	8-pin octal relay, AC/DC output, 10A, 6 VDC coil	30.00
15961	8-pin octal socket	20.00

Allen-Bradley is a registered trademark of Rockwell Automation, Inc.

Grayhill Relays and Racks

52332	2-channel input relay, 2.5-28 VDC	$40.00
52318	2-channel input relay, 120 VAC	40.00
52319	2-channel input relay, 240 VAC	40.00
52331	2-channel input relay, 10-32 VDC	40.00
52316	2-channel output relay, 120-140 VAC @ 2 amp	40.00
52317	2-channel output relay, 240-280 VAC @ 7 amp	40.00
71376	2-channel output relay, 3-60 VDC @ 1 amp	60.00
71377	2-channel output relay, 0-200 VDC/VAC @ 1.5 A/10 W (dry contact)	80.00
52331	2-channel input relay, 10-32 VDC	40.00
84698	2-channel output relay, inductive load, 120-140 VAC @ 2 A	60.00
84699	2-channel output relay, inductive load, 240-280 VAC @ 2 A	60.00
52312	8-channel relay rack, panel mount, requires 50 -Pin connector (4 slots)	115.00
52314	16-channel relay rack, panel mount, requires 50 -Pin connector (8 slots)	165.00
52315	24-channel relay rack, panel mount, requires 50 -Pin connector (12 slots)	260.00
76644	8-channel relay rack, DIN rail mount, requires 50 -Pin connector (4 slots)	145.00
76645	16-channel relay rack, DIN rail mount, requires 50 -Pin connector (8 slots)	225.00
76646	24-channel relay rack, DIN rail mount, requires 50 -Pin connector (12 slots)	395.00
46189	Jumper strap, 10 position for Grayhill	3.25
52320	Jumper strap, 6 position for Grayhill	15.00
108396	Digital input 5VDC, 15-30 VAC/10-32VDC	30.00
108397	Digital output 5VDC, 3-60VDC	30.00
70780	Cable, 50-Pin flat ribbon for digital I/O	49.00
70779	Cable, 50-Pin round ribbon for digital I/O with cord grip	145.00
72442	Cable, 50-Pin round ribbon for digital I/O without cord grip	145.00

OPTO 22 Relays and Racks

15969	G4IDC5 10-32 VDC Input relay module, white (N/O)	30.00
15970	G40DC5R Dry contact 100 VDC/1.5 A output, red (N/O)	30.00
22848	G40DC5R5 Dry contact 100 VDC/1.5 A output, red (N/C)	30.00
15971	G40AC5 115 VAC Output relay module, black (N/O)	30.00
15972	G4IAC5 115 VAC Input relay module, yellow (N/O)	30.00
22847	G40AC5A5 115/230 VAC Output relay module, black (N/C)	30.00
36632	G40AC5A 115/230 VAC Output relay module, black (N/O)	30.00
36631	G4IAC5A 230 VAC Input relay module, yellow (N/O)	30.00
16478	Quencharc arc suppressor	11.00
101923	FRP Enclosure with Opto 4-channel rack	195.00
15973	4-channel relay rack, 3.25 x 3.25 in	80.00
45408	4-channel relay rack 6.1 x 1.2 in	150.00
99032	Adapter plate, for 4-channel Opto rack 33490	5.00

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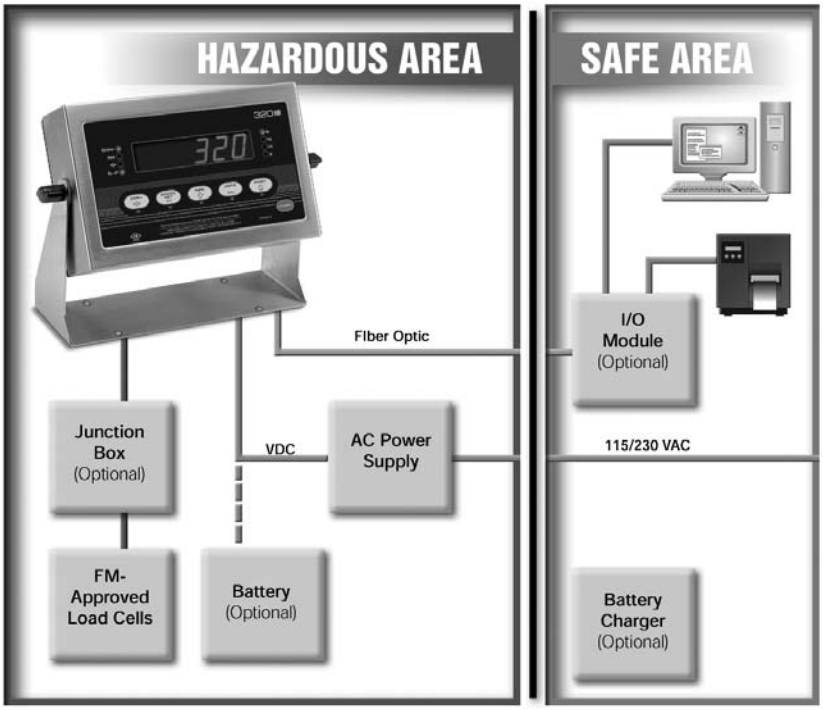
Explosive Environment Equipment Policy

> ⚠ ***Caution*** *The equipment contained within this Explosive Environment section requires greater attention to specification and installation guidelines. Improper specification, installation or service of these products can result in loss of equipment or serious injury.*

Rice Lake Weighing Systems has assembled the very best in Intrinsically Safe and Explosion-Proof equipment. In order to properly specify, install and service this equipment, it is necessary that our distributors understand and appreciate the possible risks involved.

In an effort to educate our customers on some of the precautions required, we created an Explosive Environment Review. Available upon request, this booklet reviews the following:

- Explosive environment designations: Class, Division and Group
- Standards and Codes applicable to hazardous environment equipment
- Equipment liability
- Theory of Intrinsically Safe, Explosion-Proof and Purged systems
- Equipment specification guidelines
- Proper installation procedures
- Service precautions



The Explosive Environment Product Review booklet also includes the resource information listed below:

- NFPA 70, "National Electrical Code (NEC) Handbook"
- NFPA 496, "Classification of Gases, Vapors, and Dusts for Electrical Equipment in Hazardous (Classified) Locations"
- ANSI/UL 913, "Standard for Intrinsically Safe Apparatus and Associated Apparatus for use in Class I, II and III, Division 1 Hazardous Locations"
- ANSI/ISA RP 12.6, "Installation of Intrinsically Safe Instrument Systems for Hazardous (Classified) Locations"
- FM Approval Standard 3610, "Approval Standard, Intrinsically Safe Apparatus and Associated Apparatus for use in Class I, II and III, Division 1 Hazardous Locations"
- FM Approval Standard 3615, "Approval Standards, Explosion Proof Electrical Equipment"
- "Electrical Installations in Hazardous Locations"

Plant Safety Engineers and Certified Electricians should always be involved in the specification and installation of any Explosive Environment Equipment.

Please see the next page for assistance in selecting Hazardous Area Control Equipment for your application requirements.

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For assistance in selecting Hazardous Area Control Equipment for your application requirements, please complete this form and submit, along with a description of the application, to:

Rice Lake Weighing Systems
Attn: Hazardous Environment
230 West Coleman Street
Rice Lake, WI 54868
Telephone: 715-234-9171 • Fax: 715-234-6967

RLWS File #: _____ Date: _____

Sales Order #: _____ Checked By: _____

Equipment PN#(s) & Serial Number(s): _____

Factory Mutual Not Applicable _____ (International Orders Only) _____

For RLWS Office Use Only

RLWS CUSTOMER INFORMATION:

RLWS Customer Name: _____ **Customer Number:** _____

Address: _____

City: _____ State: _____ Zip: _____

Telephone: (_____) _____ Fax: (_____) _____

Contact Name: _____
(Printed name) (Signature) (Date)

Authorized Signature: _____
(Printed name) (Signature) (Date)

END USER INFORMATION:

End User Company Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Telephone: (_____) _____ Fax: (_____) _____

Contact Name: _____
(Printed name) (Signature) (Date)

Authorized Signature: _____
(Printed name) (Signature) (Date)

Title: _____

(The following information is to be defined and completed by the END USER'S Plant Safety Engineer or other authorized party)

Hazardous Area Classification: Class _____, Division _____ , Group _____

Specific Hazard/Material (please print): _____

Defining Individual: _____
(Printed name) (Signature) (Date)

Defining Authority (Title): _____

Please retain a copy of this completed form for your records.

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Explosive Environment Solutions

> ⚠ ***Caution*** *The equipment contained within this Explosive Environment section requires greater attention to specification and installation guidelines. Improper specification, installation or service of these products can result in loss of equipment or serious injury.*

EXPLOSION PROOF, PURGED, AND INTRINSICALLY SAFE SYSTEMS

EXPLOSION PROOF

What is an explosion-proof indicator? It's simply a digital weight indicator enclosed in a special case. The purpose of an explosion-proof indicator is not, as the name suggests, to protect the indicator. Instead, the case prevents any explosion WITHIN the case from causing subsequent fire or explosion in the surrounding atmosphere.

For example, in a grain elevator application, combustible dusts (Class II hazardous atmosphere) may be present. A spark in a non-explosion-proof indicator could ignite an elevator-wide explosion. However, with an explosion-proof indicator, the spark (or even an explosion) is contained within the case. The hazardous atmosphere cannot be ignited, and the elevator is protected.

EXPLOSION PROOF ADVANTAGES

- Explosion containment
- Requires low maintenance
- No electronics
- No moving parts

EXPLOSION PROOF DISADVANTAGES

- Cannot indicate failure of containment capability
- Cost of protection per cubic foot increases with enclosure size
- Promotes condensation
- Cumbersome, limited access
- Causes harmful heat build-up
- Limited sizes
- Bulky designs
- Excessive weight

PURGE

Purged systems are ideal for hazardous environments and use positive pressure to prevent particles, gases and fibers from entering the controller enclosure. As an added safeguard, a differential pressure switch automatically cuts off power when the pressure falls below the acceptable level. Type X, Y and Z purging hardware is available that meets National Fire Protection Association (NFPA) article 496 guidelines.

The three configurations are as follows:

Type X Pressurizing: Reduces the classification within the protected enclosure from Division 1 to Safe.

Type Y Pressurizing: Reduces the classification within the protected enclosure from Division 1 to Division 2.

Type Z Pressurizing: Reduces the classification within the protected enclosure from Division 2 to Safe.

PURGE ADVANTAGES

- Reduces heat build-up
- Inhibits metal corrosion
- Requires low maintenance
- Increases equipment longevity
- Allows fast access to equipment
- Reduces moisture and dust build-up
- Reduces classification within enclosure
- Continuous system status indication
- Protects enclosures up to 450 cubic feet
- Allows use of any enclosure shape
- Cost of protection per cubic foot decreases with enclosure size

PURGE DISADVANTAGES

- Contains moving parts
- Requires instrument air supply
- Some systems contain electronics
- Some systems require electrical power

INTRINSICALLY SAFE

Intrinsically safe load cells and safety barriers take the explosion proof principle a step further. Intrinsic safety ensures that the indicator's electrical wiring and components are, by design, incapable of releasing enough energy to ignite flammable or combustible atmospheric mixtures in their most easily ignitable concentrations. In short, an intrinsically safe device eliminates the conditions for an explosion, no matter what the circumstances.

INTRINSICALLY SAFE ADVANTAGES

- Limits energy to device
- Requires low maintenance
- No moving parts
- Ideal for sensors

INTRINSICALLY SAFE DISADVANTAGES

- One barrier is required for each conductor
- Project cost increases with number of conductors
- Offers no protection against heat, moisture and dust
- Requires protection or installation in nonclassified area
- 24 VDC, 50 mA maximum power and signal strength limit

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Hazardous Atmospheres (for reference only)

Hazardous atmospheres are divided into three general classes and two divisions:
CLASS I: Flammable Gases or Vapors
CLASS II: Combustible Dusts
CLASS III: Ignitable Fibers or Flyings
DIVISION 1: Hazard exists under normal conditions.
DIVISION 2: Hazardous material is handled, processed or stored. Hazard is not normally present, but may be released due to accident or equipment malfunction.

CLASS I:
Flammable Gases or Vapors
CLASS I, GROUP A: (d)
acetylene

CLASS I, GROUP B: (d)
acrolein (inhibited)
arsine
butadiene
ethylene oxide
hydrogen
manufactured gases containing more than 30% hydrogen by volume
propylene oxide
propylnitrate

CLASS I, GROUP C: (c, d)
acetaldehyde
allyl alcohol
n-butyraldehyde
carbon monoxide
crotonaldeghyde
cyclopropane
diethyl ether
diethylamine
epichlorohydrin
ethylene
ethylenimine
ethyl mercaptan
ethyl sulfide
morpholine
2-nitropropane
tetrahydrofuran
unsymmetrical dimethyl hydrazine (UMDH 1, 1-dimethyl hydrazine)

CLASS I, GROUP D: (c, d)
acetic acid
acetone
acrylonitrile
ammonia
benzene
butane
1-butanol (butyl alcohol)
2-butanol (secondary butyl alcohol)
n-butyl acetate
isobutyl acetate
di-isobutylene
ethane
ethanol (ethyl alcohol)
ethyl acetate
ethyl acrylate (inhibited)
ethylene diamine (anhydrous)
ethylene dichloride
ethylene glycol monomethyl ether
gasoline
heptanes
hexanes
isoprene
isopropyl ether
mesityl oxide
methane (natural gas)
methanol (methyl alcohol)
3-methyl 1-butanol (isoamyl alcohol)
methyl ethyl ketone
2-methyl 1-propanol (isobutyl alcohol)
2-methyl 2-propanol (teriary butyl alcohol)
petroleum naptha
pyridine
octanes
pentanes
1-pentanol (amyl alcohol)
propane
1-propanol (propyl alcohol)
2-propanol (isopropyl alcohol)
propylene
styrene
toluene
vinyl acetate
vinyl chloride
xylenes

CLASS II:
Combustible Dusts (c)
CLASS II, GROUP E (c, d)
Atmospheres containing metal dust, including aluminum, magnesium, and their commercial alloys, as well as other metals of similarly hazardous characteristics with a resistivity of 100 ohms per centimeter.

CLASS II, GROUP F (c, d)
Atmospheres containing carbon black, charcoal, coal or coke dusts that have more than 8 percent total volatile material, or atmospheres containing these dusts sensitized by other materials so that they present an explosion hazard. They will also have a resistivity greater than 100 ohms per centimeter and equal to or less than 100 megohms per centimeter.

CLASS II, GROUP G (c, d)
Atmospheres containing flour, starch or grain as well as combustible plastics or chemical dusts having resistivity greater than 1 megohm per centimeter.

CLASS III:
Ignitable Fibers or Flyings (c, d)
Atmospheres containing parts of rayon, cotton and other textiles. Combustible fiber manufacturing and processing plants such as cotton gins, cottonseed mills, flax processing plants, clothing manufacturing plants, sawmills and other woodworking locations.

Easily ignitable fibers and flyings include rayon, cotton (including cotton linters and cotton wastes), sisal or henequen, istle, jute, hemp, tow, cocoa, oakum, baled waste kapok, Spanish moss, excelsior, sawdust, wood chips and other similar materials.

d) Rice Lake Weighing Systems' intrinsically safe systems may be used in these atmospheres.

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320IS

Intrinsically Safe Digital Weight Indicator



CAUTION! The equipment contained within this Explosive Environment section requires greater attention to specification and installation guidelines. Improper specification, installation or service of these products can result in loss of equipment or serious injury.

APPROVALS

Measurement Canada Approved

FM Entity Approved for use in hazardous locations per Rice Lake Weighing Systems control drawing file number 72717.

STANDARD FEATURES

- Bright Light Emitting Diode (LED)
- Stainless steel NEMA 4X/IP66 enclosure
- T4 temperature rating
- Front-panel digital calibration
- Automatic zero and span temperature compensation
- Excitation for four 350Ω or eight 700Ω load cells
- Gross/Tare/Net computation
- Tilt stand
- Factory Mutual (FM) Entity approved
- Duplex fiber optic interface 200ft
- Power ON/OFF; battery save mode
- I/O Module Option: duplex 2 serial ports, 2 analog outputs, 4 digital inputs, 4 relay contact outputs.
- Factory Mutual (FM) entity approved for Classes I, II, and III, Divisions I and 2, Groups A, B, C, D, E, F, and G
- 300 character serial string
- Set point capabilities using the I/O module option

***Exclusions: The following load cells cannot be used with the 320IS:** RL71000HE, RL8000HE, RL8000KM, RLBEAM, and RL32155.

SPECIFICATIONS

LOAD CELL EXCITATION:
3.0VDC @ 87.5Ω
4.6VDC @ 700Ω

LOAD CELL CURRENT:
34mA (4 x 350Ω load cells) or (8 x 700Ω load cells)

LOAD CELL CABLING:
4 and 6-wire with remote sensing (recommended)

ANALOG SIGNAL INPUT RANGE:
0.6mV/V - 4.0mV/V

ANALOG SIGNAL SENSITIVITY:
0.2µV/graduation minimum
1.5µV/graduation recommended

CONVERSION RATE:
60 updates/second

INTEGRATION TIME:
20 m Sec typical

RESOLUTION:
10,000 displayed graduations (NTEP), 100,000 expanded
The maximum number of allowed graduations will vary by application

DISPLAY INCREMENTS:
1, 2, 5

DISPLAY:
Six-digits, Light Emitting Diode (LED); 16-segment, 0.8in (20mm) digits

DECIMAL POINT:
Configurable with dead zeros

UNIT SWITCHING:
Configurable for two units of measurement with front panel operation with conversion for tare and setpoint values

FRONT PANEL CONTROL SWITCHES:
Zero, Gross/Net, Tare, Print, Units Conv

FRONT PANEL:
6-button flat membrane panel

FRONT-PANEL LED ANNUNCIATORS:
Center Zero, Gross, Net, Motion, lb, kg, oz, g

MOTION BAND:
Configurable to ±1 or ±3 graduations, 1 second delay (or Off)

POWER INPUT:
5.8 - 7.9VDC,100 - 175mA
Maximum power consumption 0.25 watts

OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C) legal

RATING/MATERIAL:
Stainless steel NEMA 4X/IP66 enclosure

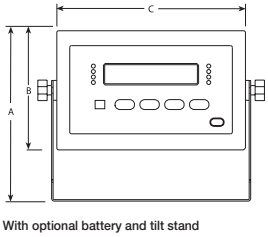
OPTIONAL BATTERY:
Operating times: 4 x 350Ω = 35-40 hrs
1 x 350Ω =40-50 hrs
8 x 700Ω = 35-40 hrs
Charging Times: 10 hours for dead battery, 14 hours for initial charge

WEIGHT:
6.1lb (2.8kg)

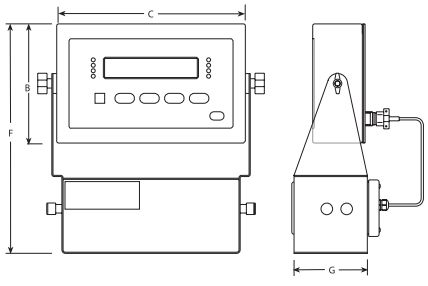
APPROVALS:
NTEP 03-078A1
(TUV, C (UL), FM Entity)
Measurement Canada Approved: AM-5560

WARRANTY:
One-year limited warranty

Without battery



With optional battery and tilt stand

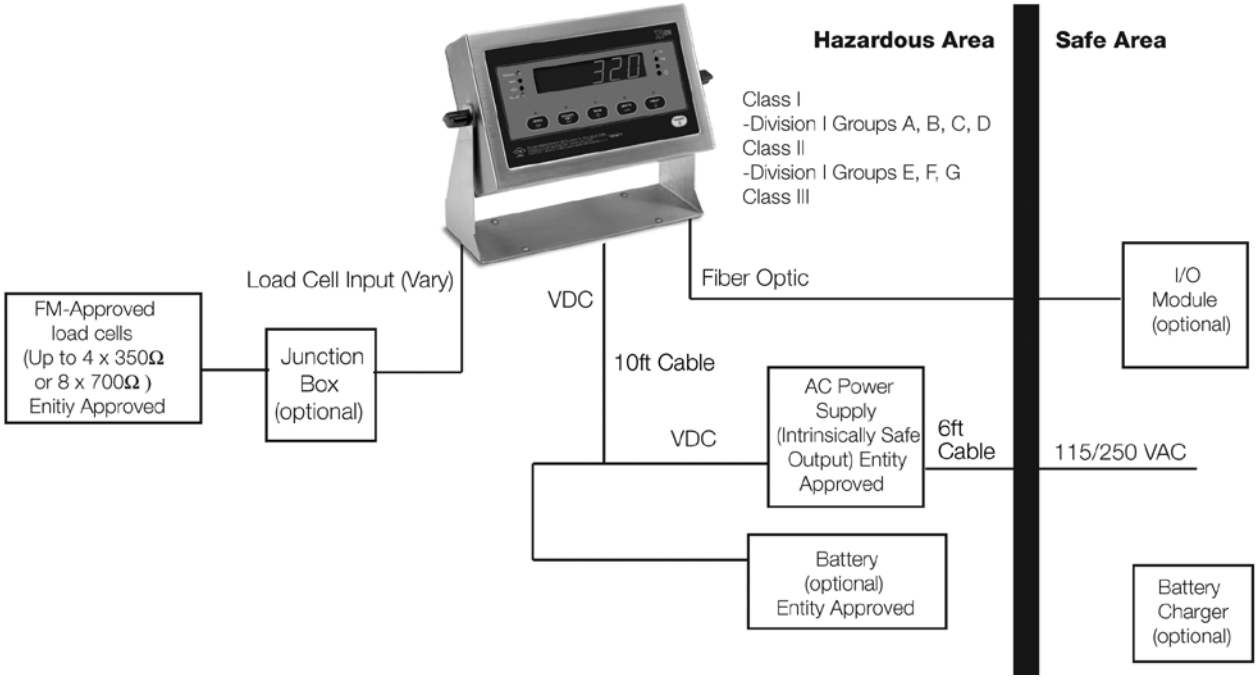


DIMENSIONS WITHOUT BATTERY			
A	8.56in (217.4mm)	**D**	2.64in (67.1mm)
B	6.00in (152.4mm)	**E**	3.75in (95.2mm)
C	9.50in (241.3mm)		
WITH OPTIONAL BATTERY AND TILT STAND			
F	11.56in (293.6mm)	**G**	4.75in (120.7mm)
OPTIONAL I/O MODULE			
12.90in x 11.63in x 6.25in (327.7mm x 295.4mm x 158.8mm)			
OPTIONAL POWER SUPPLY			
7.00in x 5.13in x 3.125in (177.8mm x 130.0mm x 79.375mm)			

320IS

Intrinsically Safe Digital Weight Indicator

SPECIFICATIONS (CONTINUED)



**I/O module required for anything besides basic weighing*

PART #	DESCRIPTION	PRICE
91233	320IS Intrinsically-Safe Digital Weight Indicator five button keypad with battery pack and charger & tilt stand	$1,727.00
91234	320IS Instriniscally-Safe Digital Weight Indicator five button with A/C power supply	1,740.00
86241	320IS indicator only	995.00
Hazardous Environment Cable		
32817	EL147IS hazardous environment cable	2.65/ft
72241	Hazardous environment 3 conductor	3.75/ft

OPTIONS/ACCESSORIES

72713	Power supply, IS-EPS-100-240VAC	745.00
72725	IS-6V battery option with cable adapter	535.00
74001	Battery charger, 115VAC	145.00
74002	Battery charger, 115/230VAC	535.00
80869	Fuse, 1.25A, 250V TR5 time-lag (replacement part for the I/O Module)	2.50
72726	Tilt stand (required for battery model)	57.00
*89239	I/O Module, stainless steel NEMA 4 enclosure, safe area option (requires fiber optic cable, AC power required)	995.00
83388	Timer relay kit includes din rail, timer relay for latching and mount	370.00
78026	Fiber optic, duplex cable 100ft	130.00
78027	Fiber optic, duplex cable 200ft	260.00
74612	Installation manual	35.00
78076	I/O Module manual	30.00

* Includes relays

Rice Lake Weighing Systems® warrants that all Rice Lake Weighing Systems Intrinsically Safe (IS) equipment and systems installed by a distributor or Original Equipment Manufacturer (OEM) will operate per written specifications as confirmed by the Distributor/OEM and accepted by Rice Lake Weighing Systems. All systems and components are warranted against defects in materials and workmanship for one year.

All Rice Lake Weighing Systems Intrinsically Safe equipment carries a Factory Mutual approval and is documented on various control drawings. Each device is manufactured Rice Lake Weighing Systems factory authorized personnel. To preserve the warranty and Factory Mutual approval, all repairs or replacement of circuit boards or components housed within the enclosures must be performed by Rice Lake Weighing Systems factory authorized personnel.

CAUTION! The equipment contained within this Explosive Environment section requires explicit attention to specification and installation guidelines. Improper specification, installation or service of these products can result in loss of equipment and/or serious injury.

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320IS Plus

Intrinsically Safe Digital Weight Indicator



CAUTION! The equipment contained within this Explosive Environment section requires greater attention to specification and installation guidelines. Improper specification, installation or service of these products can result in loss of equipment or serious injury.

APPROVALS

Measurement Canada Approved

FM Entity Approved for use in hazardous locations per Rice Lake Weighing Systems control drawing file number 72717.

STANDARD FEATURES

- Bright Light Emitting Diode (LED)
- Stainless steel NEMA 4X/IP66 enclosure
- T4 temperature rating
- Front panel digital calibration
- Automatic zero and span temperature compensation
- Excitation for four 350Ω or eight 700Ω load cells
- Gross/Tare/Net computation
- Tilt stand
- Factory Mutual (FM) Entity approved
- Duplex fiber optic interface
- Power ON/OFF; battery save mode
- I/O Module Option: two serial ports, two analog outputs, four digital inputs, four relay contact outputs.
- Eight setpoint (requires I/O module)
- Factory Mutual (FM entity approved for classes I, II, and III; Divisions 1 and 2; Groups A, B, C, D, E, F, and G
- Time & Date (requires I/O module)

***Exclusions: The following load cells cannot be used with the 320IS:** RL71000HE, RL8000HE, RL8000KM, RLBEAM, and RL32155.

SPECIFICATIONS

LOAD CELL EXCITATION:
3.0VDC @ 87.5Ω
4.6VDC @ 700Ω

LOAD CELL CURRENT:
34mA (4 x 350Ω load cells) or (8 x 700Ω load cells)

LOAD CELL CABLING:
4 and 6-wire with remote sensing (recommended)

ANALOG SIGNAL INPUT RANGE:
0.6mV/V - 4.0mV/V

ANALOG SIGNAL SENSITIVITY:
0.2µV/graduation minimum
1.5µV/graduation recommended

CONVERSION RATE:
60 updates/second

INTEGRATION TIME:
20 mSec typical

RESOLUTION:
10,000 displayed graduations (NTEP), 100,000 expanded
The maximum number of allowed graduations will vary by application

DISPLAY INCREMENTS:
1, 2, 5

DISPLAY:
Six digits, Light Emitting Diode (LED); 16-segment, 0.8in (20mm) digits

DECIMAL POINT:
Configurable with dead zeros

UNIT SWITCHING:
Configurable for two units of measurement with front panel operation with conversion for tare and setpoint values

FRONT-PANEL CONTROL SWITCHES:
Zero, Gross/Net, Tare, Print, Units Conv, Start, Stop, Accum, Tare Display

FRONT PANEL:
24-button flat membrane panel

FRONT-PANEL LED ANNUNCIATORS:
Center Zero, Gross, Net, Motion, lb, kg, oz, g

MOTION BAND:
Configurable to ±1 or ±3 graduations, 1 second delay (or Off)

POWER INPUT:
5.8 - 7.9VDC,100 - 175mA
Maximum power consumption 0.25 watts

OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C) legal

RATING/MATERIAL:
Stainless steel NEMA 4X/IP66 enclosure

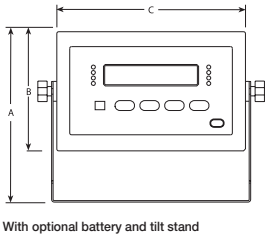
OPTIONAL BATTERY:
Operating Times: 4 x 350Ω = 35-40 hrs.
1 x 350Ω = 40-50 hrs.
Charging Times: 10 hours for dead battery, 14 hours for initial charge

WEIGHT:
6.1lb (2.8kg)

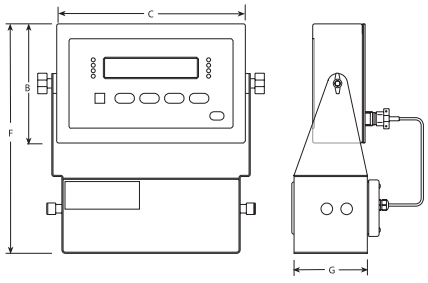
APPROVALS:
NTEP pending (TUV, C (UL), FM Entity 03-078A1)
Measurement Canada Approved: AM-5560

WARRANTY:
One-year limited warranty

Without battery



With optional battery and tilt stand



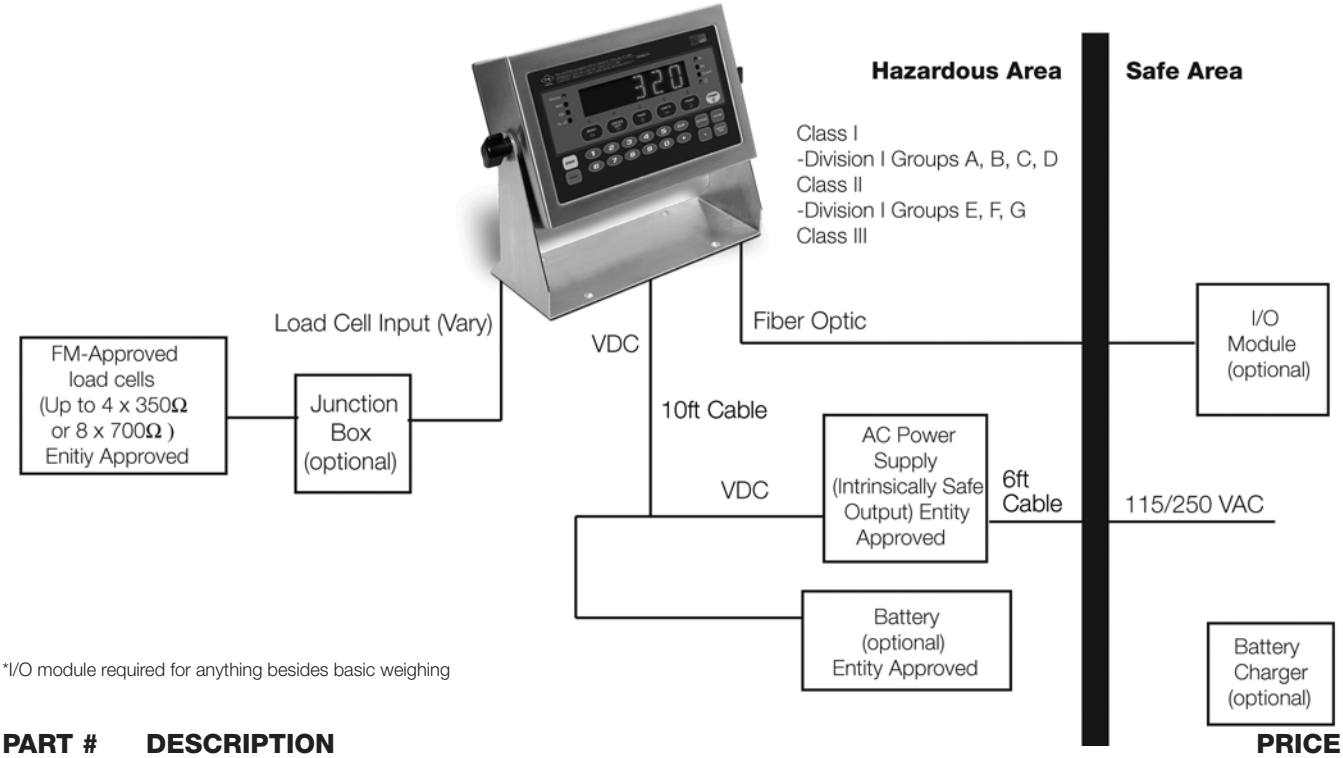
DIMENSIONS WITHOUT BATTERY			
A	8.56in (217.4mm)	**D**	2.64in (67.1mm)
B	6.00in (152.4mm)	**E**	3.75in (95.2mm)
C	9.50in (241.3mm)		
WITH OPTIONAL BATTERY AND TILT STAND			
F	11.56in (293.6mm)	**G**	4.75in (120.7mm)
OPTIONAL I/O MODULE			
12.90in x 11.63in x 6.25in (327.7mm x 295.4mm x 158.8mm)			
OPTIONAL POWER SUPPLY			
7.00in x 5.13in x 3.125in (177.8mm x 130.0mm x 79.375mm)			

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320IS Plus

Intrinsically Safe Digital Weight Indicator

SPECIFICATIONS (CONTINUED)



*I/O module required for anything besides basic weighing

PART #	DESCRIPTION	PRICE
91235	320IS Plus Intrinsically-Safe Digital Weight Indicator full keypad with battery pack and charger & tilt stand	$1,927.00
91236	320IS Plus Intriniscally-Safe Digital Weight Indicator full keypad with A/C power supply	1,940.00
86240	320IS Plus indicator only	1,195.00
Hazardous Environment Cable and Fiber Optic Cable		
32817	EL147IS hazardous environment cable	2.65/ft
72241	Hazardous environment 3 conductor	3.75/ft
78026	Fiber optic, duplex cable 100 ft	130.00
78027	Fiber optic, duplex cable 200 ft	260.00

OPTIONS/ACCESSORIES

72713	Power supply, IS-EPS-100-240 VAC	745.00
72725	IS-6V battery option with cable adapter	535.00
74001	Battery charger, 115 VAC	145.00
74002	Battery charger, 115/230 VAC	535.00
80869	Fuse, 1.25 A, 250 V TR5 time-lag (replacement part for the I/O Module)	2.50
72726	Tilt stand (required for battery model)	57.00
89239	I/O Module, stainless steel NEMA 4 enclosure, safe area option (requires fiber optic cable, AC power required)	995.00
83388	Timer relay kit includes din rail, timer relay for latching and mount	370.00
85353	Installation manual	35.00
78076	I/O Module manual	30.00

Rice Lake Weighing Systems® warrants that all Rice Lake Weighing Systems Intrinsically Safe (IS) equipment and systems installed by a distributor or Original Equipment Manufacturer (OEM) will operate per written specifications as confirmed by the Distributor/OEM and accepted by Rice Lake Weighing Systems. All systems and components are warranted against defects in materials and workmanship for one year.

All Rice Lake Weighing Systems Intrinsically Safe equipment carries a Factory Mutual approval and is documented on various control drawings. Each device is manufactured Rice Lake Weighing Systems factory authorized personnel. To preserve the warranty and Factory Mutual approval, all repairs or replacement of circuit boards or components housed within the enclosures must be performed by Rice Lake Weighing Systems factory authorized personnel.

CAUTION! The equipment contained within this Explosive Environment section requires explicit attention to specification and installation guidelines. Improper specification, installation or service of these products can result in loss of equipment and/or serious injury.

RICE LAKE WEIGHING SYSTEMS

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IQ 700IS

Intrinsically Safe Digital Weight Indicator



STANDARD FEATURES

- Bright Light Emitting Diode (LED)
- Stainless steel NEMA 4X enclosure
- Front panel digital calibration
- Automatic zero and span temperature compensation
- Excitation for four 350Ω load cells at 5VDC
- Gross/Tare/Net computation
- Time and date
- Tilt stand
- Setup parameters printout
- Bidirectional 20mA current loop communication port

APPROVALS

Measurement Canada Approved

FM APPROVED

FM Entity Approved for use in hazardous locations per Rice Lake Weighing Systems' control drawing file number 72717.

SPECIFICATIONS

LOAD CELL EXCITATION:
1 - 350Ω load cell @ 4.56VDC
2 - 350Ω load cell @ 4.28VDC
3 - 350Ω load cell @ 4.06VDC
4 - 350Ω load cell @ 3.82VDC

LOAD CELL CURRENT:
57mA (4 x 350Ω load cells)

LOAD CELL CABLING:
6-wire with remote sensing

ANALOG SIGNAL INPUT RANGE:
0.7mV/V - 3.2mV/V

ANALOG SIGNAL SENSITIVITY:
0.3µV/graduation

CONVERSION RATE:
10 updates/second

INTEGRATION TIME:
20 mSec typical

RESOLUTION:
10,000 displayed graduations (NTEP), 80,000 expanded
The maximum number of allowed graduations will vary by application

DISPLAY INCREMENTS:
1, 2, 5, 10, 20, 50, 100

UNDERRANGE COUNT CAPACITY:
(–) 400 graduations, typical

LEAD ZERO BLANKING:
Standard per NBS Handbook H-44

DISPLAY:
Six digits, Light Emitting Diode (LED); 0.6in (15.2mm), 7-segment display digits

POLARITY INDICATION:
" – " sign

DECIMAL POINT:
Configurable to 0, 0.0, 0.00, 0.000, 0.0000

LB/KG SWITCHING:
Configurable for front panel operation with conversion for tare and setpoint values

FRONT-PANEL CONTROL SWITCHES:
Zero, Gross/Net, Tare, Tare Recall, Print, lb/kg conv

5-POINT LINEARIZATION:
Allows up to 5 entry points when selected

NUMERIC KEYBOARD:
0-9 keys plus ENT (Enter) and CE (Clear Entry) keys

FRONT-PANEL LED ANNUNCIATORS:
Center Zero, Gross, Net, Motion, lb, kg

AZM: (ZERO TRACK)
"Gross" mode only; operable over ±5 grads, ±1.0 grads, ±3.0 grads (or Off)

PAZ AND AZM APERTURE:
Configurable to ±1.9% Full Scale or 100% Full Scale

MOTION BAND:
Configurable to ±1 or ±3 graduations, 1 second delay (or Off)

POWER INPUT:
115/230VAC; 50/60Hz, 6VDC battery option

OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C)

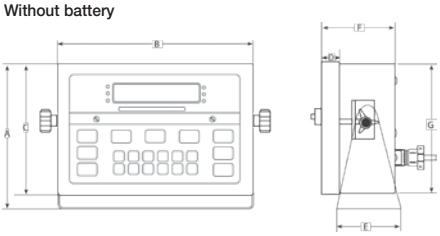
RATING/MATERIAL:
NEMA 4X polished stainless steel housing

WEIGHT:
9.5lb (4.31kg)

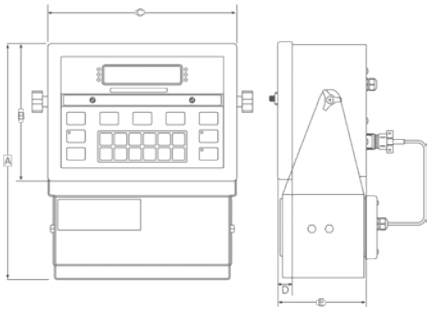
APPROVALS:
NTEP Certified per H-44 at 10,000 Divisions, Class III/IIIL, CC# 89-023A2
Measurement Canada approved, S.WA-4131 Add.1.
Factory Mutual approved, #0Z0A2.AX

WARRANTY:
One-year limited warranty

Without battery



With optional battery and tilt stand



DIMENSIONS WITHOUT BATTERY			
A	7.36in (186.9mm)	**E**	3.94in (100.1mm)
B	9.12in (231.6mm)	**F**	4.14in (105.2mm)
C	6.62in (168.1mm)	**G**	6.35in (161.3mm)
D	.70in (17.8mm)		
WITH OPTIONAL BATTERY AND TILT STAND			
A	11.35in (288.3mm)	**D**	0.70in (17.8mm)
B	6.62in (168.1mm)	**E**	4.25in (107.9mm)
C	9.12in (231.6mm)		

NOTE: The following load cells can not be used with IQ 700 IS or Condec™ UMC 600 IS: RL71000HE, RLBEAM, RL32155 and RL8000, RL8000KM

Intrinsically Safe

IQ 700IS

Intrinsically Safe Digital Weight Indicator

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
32708	IQ 700 IS Hazardous Environment Digital Weight Indicator	14 lb	$1,620.00
System Hardware			
31222	115 VAC EP/IS power supply w/6 ft AC cable (needs PS cable B)	9 lb	745.00
31221	230 VAC EP/IS power supply w/6 ft AC cable (needs PS cable B)	9 lb	775.00
31215*	IS battery option w/12 in cable w/connector	8 lb	565.00
A-Load Cell Cable Assembly: Required with Junction Box			
36444	Load cell cable, 10 ft		68.75
44313	Load cell cable, 25 ft		100.00
44314	Load cell cable, 50 ft		145.00
44315	Load cell cable, 75 ft		187.00
44316	Load cell cable, 100 ft		232.00
B-Power Supply Cable Assembly: Required with AC supply			
31212	Power supply cable, 10 ft		95.00
48690	Power supply cable, 25 ft		125.00
48691	Power supply cable, 100 ft		195.00

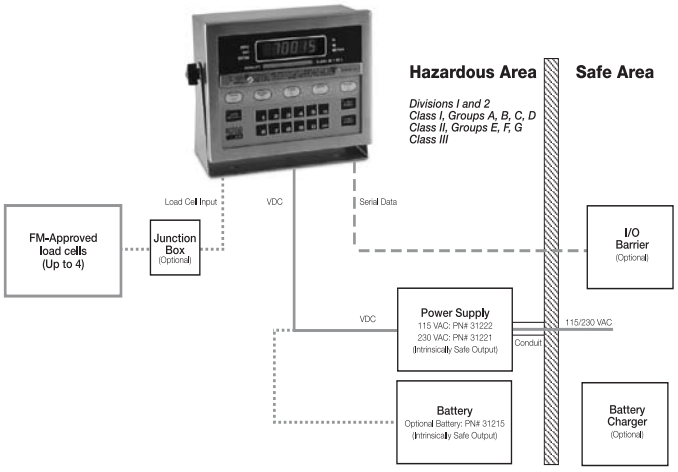
* Tilt stand #52216 and battery charger required for indicator with battery

For custom cable lengths add $1.50 per foot to the standard lengths listed above

OPTIONS/ACCESSORIES

51966	Battery charger, 115 VAC	145.00
63027	Battery charger, 230 VAC	432.00
52216	Tilt stand, required for indicator with battery	75.00
44061	I/O barrier assembly	370.00
36528	Additional operating manual	35.00
C-Serial Output Cable (required with I/O barrier):		
36448	Serial output cable, 10 ft	62.50
48687	Serial output cable, 25 ft	95.00
48688	Serial output cable, 100 ft	225.00

NOTE: Consult factory for information on intrinsically safe indicator repair/exchange program



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All Rice Lake Weighing Systems/Condec Intrinsically Safe equipment carries a Factory Mutual approval and is documented on various control drawings. Each device is manufactured and sealed at the Rice Lake Weighing Systems/Condec factory authorized personnel. Breaking the enclosure seal on these devices will void both the warranty and Factory Mutual approval. This includes circuit board and component replacement. To preserve the warranty and Factory Mutual approval, all repairs or replacement of circuit boards or components housed within the enclosures must be performed by Rice Lake Weighing Systems/Condec factory authorized personnel.

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EL232 XPCD

Explosion Proof Remote Serial Display



STANDARD FEATURES

- 20mA current loop or RS-232 input
- Compatible with all IQ plus® series indicators
- NEMA 4, 7CD, 9EFG enclosure

SPECIFICATIONS

DISPLAY:
High-intensity, red LED, 0.8in (20.3mm) high digits

INPUT VOLTAGE:
115VAC, 60Hz

WEIGHT:
Approximately 25lb (11.3kg)

NEC CLASSIFICATIONS:
Class I, Division 1, Groups C & D; Class II, Division 1, Groups E, F & G and Class III hazardous environments

BAUD RATE:
1200, 2400, 4800 and 9600

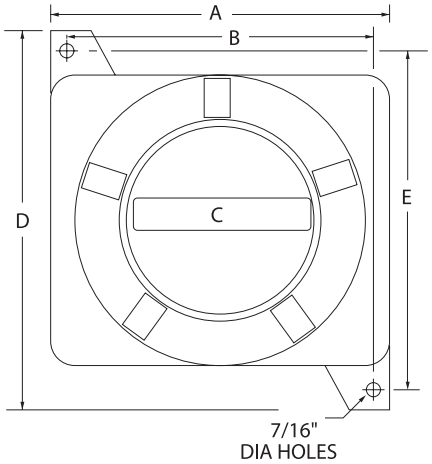
INTERFACES:
20mA CL and RS-232 standard. The EL232 XPCD can communicate, as shipped, with 12 of the most common scale indicator families currently available. Please consult factory for model numbers and interface requirements.

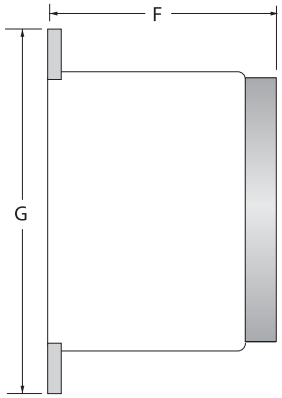
WARRANTY:
One-year limited warranty

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
20904	EL232 XPCD Explosion Proof Remote Serial Display	25lb	$2,995.00

NOTE: The IQ plus® 310, UMC555 XPCD, and IQ® plus 810 XPCD have been discontinued. The same functionality, plus an increased feature set of 520 and 920i, are available as special order XPCD enclosures. All explosion-proof devices are now built-to-order, so please coordinate purchase of these items with one of our application specialists.

CAUTION! The equipment contained within this Explosive Environment section requires greater attention to specification and installation guidelines. Improper specification, installation or service of these products can result in loss of equipment or serious injury.





DIMENSIONS			
A	10.50in (266.7mm)	D	11.75in (298.5mm)
B	9.50in (241.3mm)	E	10.50in (266.7mm)
C	5.81in (147.7mm)	F	7.50in (190.5mm)
G	(Glass Diameter) 11.75in (298.5mm)		

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Intrinsic Safety Barriers



STANDARD FEATURES

- Each system features excitation, sense and signal barriers
- Available in an enclosure for external mounting or in a chassis mount version
- R Stahl® or equivalent barriers that are approved by Factory Mutual
- 9002 Dual Channel

SPECIFICATIONS

PART #31201:
+ Excitation 9001/01-158-390-101
VOLTAGE RANGE:
+12 VDC
INTERNAL RESISTANCE:
55 Ω
OPEN CIRCUIT VOLTAGE:
15.7 VDC
SHORT CIRCUIT CURRENT:
390 mA
CLASSIFICATIONS:
FM approved, UL listed, CSA certified, SA, CE marked

PART #31202:
± Excitation 9002/10-187-270-001
VOLTAGE RANGE:
±6 VDC
INTERNAL RESISTANCE:
46 Ω
OPEN CIRCUIT VOLTAGE:
18.7 VDC
SHORT CIRCUIT CURRENT:
278.8 mA
CLASSIFICATIONS:
FM approved, UL listed, CSA- certified, SA, CE marked

PART #31540:
+ Excitation 9001/01-083-442-10
VOLTAGE RANGE:
+6 VDC
INTERNAL RESISTANCE:
48 Ω
OPEN CIRCUIT VOLTAGE:
8.4 VDC
SHORT CIRCUIT CURRENT:
442 mA
CLASSIFICATIONS:
FM approved, UL listed, CSA- certified, SA, CE marked

PART #30263:
± Signal 9002/77-093-040-001
VOLTAGE RANGE:
±6 VDC
INTERNAL RESISTANCE:
482 Ω
OPEN CIRCUIT VOLTAGE:
9.6 VDC
SHORT CIRCUIT CURRENT:
40.9 mA
CLASSIFICATIONS:
FM approved, UL listed, CSA-certified, SA, CE marked

PART #31542:
RS-232 9002/22-093-300-001
VOLTAGE RANGE:
±6 VDC
INTERNAL RESISTANCE:
75.8 Ω
OPEN CIRCUIT VOLTAGE:
9.6 VDC
SHORT CIRCUIT CURRENT:
297.5 mA
CLASSIFICATIONS:
FM approved, UL listed, CSA- certified, SA, CE marked

PART #30264:
± Sense 9002/10-187-020-001
VOLTAGE RANGE:
±6 VDC
INTERNAL RESISTANCE:
482 Ω
OPEN CIRCUIT VOLTAGE:
18.7 VDC
SHORT CIRCUIT CURRENT:
22 mA
CLASSIFICATIONS:
FM approved, UL listed, CSA- certified, SA, CE marked

PART #69491:
- Excitation 9001/02-016-150-111
VOLTAGE RANGE:
±0.7 VDC
INTERNAL RESISTANCE:
12.8 Ω
OPEN CIRCUIT VOLTAGE:
1.64 VDC
SHORT CIRCUIT CURRENT:
127.4 mA
CLASSIFICATIONS:
FM approved, UL listed, CSA- certified, SA, CE marked

PART #69492:
+ Sense 9001/01-168-020-101
VOLTAGE RANGE:
±12 VDC
INTERNAL RESISTANCE:
898 Ω
OPEN CIRCUIT VOLTAGE:
16.8 VDC
SHORT CIRCUIT CURRENT:
18.7 mA
CLASSIFICATIONS:
FM approved, UL listed, CSA- certified, SA, CE marked

PART #69493:
- Sense 9001/02-016-015-101
VOLTAGE RANGE:
+0.7 VDC
INTERNAL RESISTANCE:
127 Ω
OPEN CIRCUIT VOLTAGE:
1.64 VDC
SHORT CIRCUIT CURRENT:
13.7 mA
CLASSIFICATIONS:
FM approved, UL listed, CSA certified, SA, CE marked

PART #70723:
- Excitation 9001/00-083-442-101
VOLTAGE RANGE:
-6 VDC
INTERNAL RESISTANCE:
26 Ω
OPEN CIRCUIT VOLTAGE:
-8.4 VDC
SHORT CIRCUIT CURRENT:
442 mA
CLASSIFICATIONS:
FM approved, UL listed, CSA certified, SA, CE marked

PART #70724:
+ Sense 9001/01-086-020-101
VOLTAGE RANGE:
+6 VDC
INTERNAL RESISTANCE:
470 Ω
OPEN CIRCUIT VOLTAGE:
8.6 VDC
SHORT CIRCUIT CURRENT:
18.3 mA
CLASSIFICATIONS:
FM approved, UL listed, CSA certified, SA, CE marked

PART #72396:
- SENSE 9001/00-086-020-101
VOLTAGE RANGE:
+6 VDC
INTERNAL RESISTANCE:
480 Ω
OPEN CIRCUIT VOLTAGE:
8.6 VDC
SHORT CIRCUIT CURRENT:
18.3 mA
CLASSIFICATIONS:
FM approved, UL listed, CSA-certified, SA, CE marked

PART #3066:
+ Excitation 9001/00-086-390-101
VOLTAGE RANGE:
+0.6 VDC
INTERNAL RESISTANCE:
30 Ω
OPEN CIRCUIT VOLTAGE:
8.6 VDC
SHORT CIRCUIT CURRENT:
377.6 mA
CLASSIFICATIONS:
FM approved

PART #72521:
- Excitation 9001/01-199-390-101
VOLTAGE RANGE:
+16 VDC
INTERNAL RESISTANCE:
67 Ω
OPEN CIRCUIT VOLTAGE:
-19.9 VDC
SHORT CIRCUIT CURRENT:
382.7 mA
CLASSIFICATIONS:
FM approved, CSA-certified, CE marked

PART #30265:
+ excitation 9001/01-086-390-101
VOLTAGE RANGE:
+6 VDC
INTERNAL RESISTANCE:
30 Ω
OPEN CIRCUIT VOLTAGE:
8.6 VDC
SHORT CIRCUIT CURRENT:
377.6 mA
CLASSIFICATIONS:
FM approved

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Intrinsic Safety Barriers

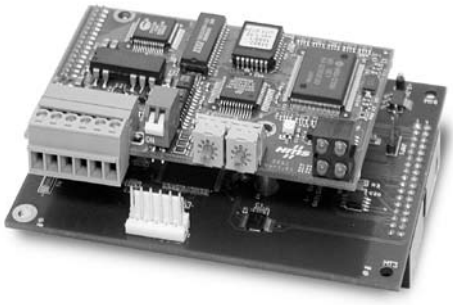
PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
Barrier Kit #1			
General purpose (UL applications - STAHL control drawing 9000-6UL). RL20000B, RL20001-T10, RL30000, RL35023-N5, RL90000, RL35023S, RL1521, RL35023, RL70000C, RL75016, RL75040, RL75058B, RL75223B, RL75016SS load cells.			
For use with indicators that have ±5 Volt power supplies			
31202	9002/10-187-270-001, ± Excitation barrier	1 lb	$450.00
30264	9002/10-187-020-001, ± Sense barrier	1 lb	475.00
30263	9002/77-093-040-001, ± Signal barrier	1 lb	475.00
Barrier Kit #2:			
RL1010, RL1040, RL1140, RL1250 and RLETO load cells.			
For use with indicators that have ±5 Volt power supplies			
31540	9001/01-083-442-101, + Excitation barrier	1 lb	295.00
70723	9001/00-083-442-101, - Excitation barrier	1 lb	295.00
70724	9001/01-086-020-101, + Sense barrier	1 lb	295.00
72396	9001/00-086-020-101, - Sense barrier	1 lb	325.00
30263	9002/77-093-040-001, ± Signal barrier	1 lb	475.00
Barrier Kit #3:			
RL20000B, RL20001-T10, RL30000, RL35023-N5, RL90000, RL35023S, RL1521, RL35023, RL70000C, RL75016, RL75040, RL75058B, RL75223B, RL90000, RL75016SS, RL1010, RL1040, RL1140, RL1250 and RLETO load cells.			
For use with indicators that have 10 Volt power supplies			
31201	9001/01-158-390-101, + Excitation barrier	1 lb	385.00
69491	9001/02-016-150-111, - Excitation barrier	1 lb	350.00
69492	9001/01-168-020-101, + Sense barrier	1 lb	325.00
69493	9001/002-016-015-101, - Sense barrier	1 lb	375.00
30263	9002/77-093-040-001, ± Signal barrier	1 lb	475.00
Barrier Kit #4:			
RL20000A, RL20001HE, RL30000A, RL30001A, RL30002A, RL39123, RL35082, RL35083, RL50210, RL35023S, RLETB, RLETS, RLSSB, RLHSS, RLSB250, RL70000B, RL70000SS, RL75223, RL8C2P1, RL39523, RLHTC,RL20000SS, RL8C2P1, RL30000B load cells.			
For use with indicators that have 10 Volt power supplies			
31201	9001/01-158-390-10, + Excitation barrier	1 lb	385.00
69491	9001/02-016-150-11, - Excitation barrier	1 lb	350.00
69492	9001/01-168-020-00, + Sense barrier	1 lb	325.00
69493	9001/002-016-015-10, - Sense barrier	1 lb	375.00
30263	9002/77-093-040-001, ± Signal barrier	1 lb	475.00
31542	9002/77-093-300-001, RS-232	1 lb	425.00
30266	9001/00-086-390-101, - Excitation barrier		325.00
30265	9001/01-086-390-101, -Excitation barrier		325.00
72521	9001-01-199-390-101, + Excitation barrier		425.00

OPTIONS & ACCESSORIES:

33531	DIN rail, 6 in length	6.00
35815	IS barrier installation manual	5.00
110424	FRP enclosure, up to 4 barriers (not included)	225.00

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Profibus® DP Interface



STANDARD FEATURES

- DP intelligent slave
- Open configuration permits plug & play
- Standard GSD file on disk
- 128 selectable addresses
- Selectable baud rate up to 56K
- Four word, 8-bit format
- Generates up to 20-bit word
- Complies with EN50170 standard
- Registered with Profibus Trade Organization

SPECIFICATIONS

520, 720i™, 820i® and 920i®

POWER REQUIREMENTS:

Bus adapter card with DeviceNet Module, DC power

Supply voltage 6 VDC, supplied by 520 and 920i bus

Typical current draw: 370 mA

Power consumption: 2.22 W

COMMUNICATIONS:

Twisted-pair cabling at 9.6 K, 19.2 K, 93.75 K, 187.5 K, 500 K, 1.5 M, 3 M, 6 M, or 12 Mbps

Update rate is dependent on the configured baud rate and the number of network modes

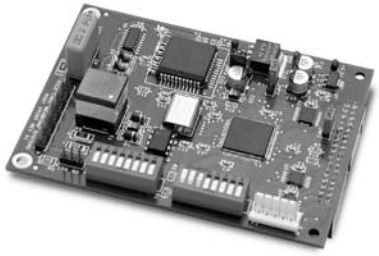
OPERATING TEMPERATURE:

14°F to 104°F (-10°C to 40°C)

WARRANTY:

One-year limited warranty

Allen-Bradley® Remote I/O



STANDARD FEATURES

- 115 or 230 VAC operation
- Discrete data transfer

SPECIFICATIONS

520, 720i, 820i and 920i

ELECTRICAL:

DC power

Supply voltage: 6 VDC supplied by 520, 720i, 820i and 920i bus

Typical current draw: 137 mA

Power consumption: 126 mA

COMMUNICATIONS:

Twin axial cable attachment to network at 57.6, 115.2 or 230.4 Kbps

Update rate is dependent on the configured baud rate and the number of network modes

OPERATING TEMPERATURE:

14°F to 104°F (-10°C to 40°C)

WARRANTY:

One-year limited warranty

RICE LAKE WEIGHING SYSTEMS

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Profibus® DP Interface

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
49976	Profibus DP interface kit (internal), for use with IQ plus 510 and IQ plus 710	3 lb	$650.00
78305	Profibus DP interface kit (internal), for use with 520	3 lb	650.00
68540	Profibus DP interface kit (internal), for use with 720i/820i/920i	3 lb	650.00

OPTIONS/ACCESSORIES

73754	Additional GSD file	25.00
52579	Additional operating manual, internal version (IQ plus 510 and IQ plus 710)	40.00
69948	Additional operating manual, (520 and 720i/820i/920i)	40.00

NOTE: Because Profibus DP option boards interface with programs written by non-RLWS parties, please consult factory for latest technical updates before quoting.

Allen-Bradley® Remote I/O

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
35888	Allen-Bradley Remote I/O, 115 VAC (external)	5 lb	$995.00
36593	Allen-Bradley Remote I/O, 230 VAC (external)	5 lb	995.00
45409	Allen-Bradley Remote I/O (internal), for use with IQ plus 510 and IQ plus 710	1 lb	650.00
78371	Allen-Bradley Remote I/O (internal), for use with 520	3 lb	650.00
68539	Allen-Bradley Remote I/O (internal), for use with 720i/820i/920i	3 lb	650.00

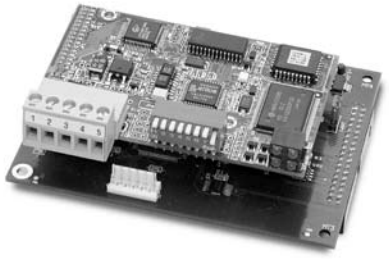
OPTIONS/ACCESSORIES

36254	Additional operating manual, external version	35.00
45775	Additional operating manual, internal version (IQ plus® 510 and IQ plus® 710)	35.00
69950	Operating manual, (520/720i/820i/920i)	35.00

NOTE: Because A-B Remote I/O option boards interface with programs written by non-RLWS parties, please consult factory for latest technical updates before quoting.

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DeviceNet™ Interface



STANDARD FEATURES

- DeviceNet communication adapter
- Compact size for internal installation in 520, 720i, 820i, and 920i® indicators
- Polled I/O connection
- 125 Kbps, 250 Kbps, and 500 Kbps baud rate
- On-board LED diagnostics
- Device master places eight bytes in the output format and reads eight bytes from the input format
- Floating-point commands support decimal points

SPECIFICATIONS

POWER REQUIREMENTS:
Bus adapter card with DeviceNet Module, DC power
Supply voltage 6 VDC, supplied by 520, 720i, 820i and 920i bus
Typical current draw: 270 mA
Power consumption: 1.62 W
The bus shall be supplied with 24 V DC ±10% on the fieldbus connector

FIELD BUS INTERFACE:
Pluggable screw connector

OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C)

DIAGNOSTIC LED:
Network status, module status

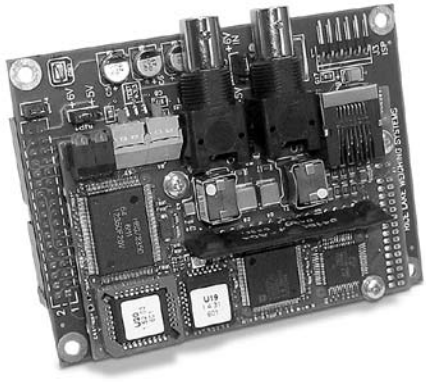
POWER CONSUMPTION:
Inmod:
Typical supply current, module electronics: 170 mA
Maximum supply current, module electronics: 200 mA
Inbus:
Typical supply current, bus interface 25 mA
Maximum supply current, bus interface: 30 mA

COMMUNICATIONS:
Twisted-pair cabling at 125, 250, or 500 Kbps
Update rate is dependent on the configured baud rate and the number of network modes

GALVANIC ISOLATION:
Bus power is separated from other electronics via DC/DC converter. The send and receive signals are isolated via opto couplers

WARRANTY:
One-year limited warranty

Control Net Interface



STANDARD FEATURES

- Option for 520, 820i and 920i
- Polled I/O connection
- On-board LED diagnostics
- Floating-point commands support decimal points

SPECIFICATIONS

POWER REQUIREMENTS:
Supply voltage 6 VDC, supplied by 520, 820i, and 920i bus

FIELD BUS INTERFACE:
BNC connector

OPERATING TEMPERATURE
14 - 104ºF (-10 - 40ºC)

DIAGNOSTIC LEDS:
Tx/Rx data, good link, status, diagnostics

POWER CONSUMPTION:
5 V regulated, 350 mA

COMMUNICATIONS:
5mbit/sec, parallel interface

DIAGNOSTIC LEDS:
Link status, module status, network status, activity

FIELD BUS INTERFACE:
RJ 45

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DeviceNet™ Interface

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
78290	DeviceNet interface for use with 520	3 lb	$650.00
68541	DeviceNet interface for use with 820i/920i	3 lb	650.00

OPTIONS/ACCESSORIES

72779	Additional EDS CD	25.00
69949	Additional operating manual	40.00

Control Net Interface

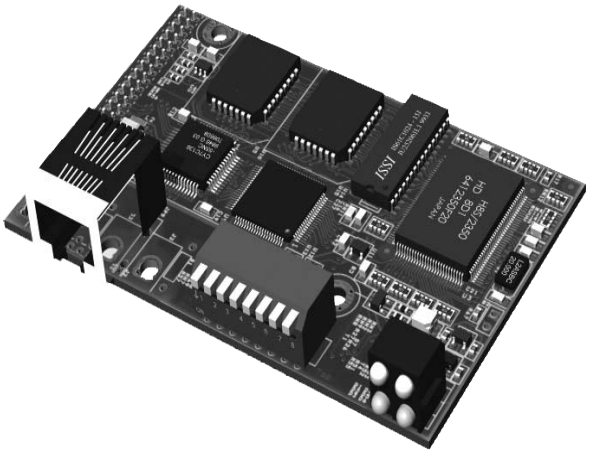
PART #	DESCRIPTION	PRICE
104011	ControlNet interface for use with 520	$800.00
103136	ControlNet interface for use with 820i/920i	800.00

Cables

Consult factory for coaxial cable with cord grips

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EtherNet/IP Protocol Card for A-B PLC



STANDARD FEATURES

- Industrial Protocol for A-B PLC
- Dual port (DPRAM) parallel interface
- IP address settings configurable with on-board DIP switched, Web page, or ARP or DHCP
- Supports Rockwell Automation® Ethernet/IP level 2 I/O server CIP (ControlNet and DeviceNet™)
- Transparent TCP/IP socket interface
- Transformer isolated Ethernet interface
- Included IT functions such as e-mail, dynamic web server, FTP
- Supports FLASH field upgrades
- CE marked and UL conformance

IT-Functionality

- Integrated FTP server provides easy file management using standard FTP clients
- Telnet server featuring a command line interface similar to MS-DOS™ environment
- Web server with SSI script support
- E-mail client capability with SSI script support

Control Protocols

- Supports the Modbus/TCP protocol and conforms to Modbus/TCP specification 1.0
- Ability to act as a group two and three server on Ethernet/IP based network
- Other protocols can be implemented on top of TCP/IP or UDP/IP using the transparent socket interface

SPECIFICATIONS

PHYSICAL SPECIFICATIONS:
Length: 2.13 in (86 mm)
Width: 3.38 in (54 mm)
Height: 0.59 in (15 mm)

POWER REQUIREMENTS:
+5 VDC ± 5%

POWER CONSUMPTION:
350 mA on the 5 V power connection

OPERATING TEMPERATURE:
14° to 158°F (-10° to 70°C)

NON-OPERATING TEMPERATURE:
-13° to 185°F (-25° to 85°C)

RELATIVE HUMIDITY:
5 - 95% non-condensing

DIAGNOSTIC LEDS:
Link status, module status, network status, activity

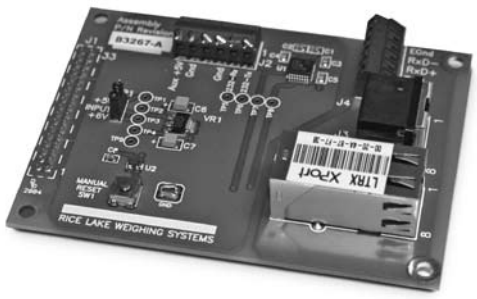
FIELD BUS INTERFACE:
RJ 45

PART #	DESCRIPTION	PRICE
87803	Ethernet/IP Protocol Card for 720i/820i/920i	$800.00
93010	Ethernet/IP Protocol Card for 520	800.00

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Ethernet TCP/IP Interface



STANDARD FEATURES

- Supports any serial devices with seven or eight data requiring Ethernet access
- Compact size for internal installation in 520, 720i™, 820i® and 920i® indicators
- Can be used in other applications requiring five-volt power supplied
- 10/100 megabyte through RJ-45 connector or wireless option
- HTTP, serial, telnet, and SNMP management

SPECIFICATIONS

SUPPORTED PROTOCOLS:
ARP, UDP, TCP, Telnet, SNMP, ICMP, HTTP, BOOTP, DHCP, and TFTP

COMPATIBILITY:
Ethernet: Version 2.0/IEEE 802.3

NETWORK INTERFACE:
Ethernet: RJ-45 (10/100 Base-T) or AUI (transformer and resistors/capacitors required)

SERIAL INTERFACE:
2 TTL serial interfaces
Reset line
RxD/TxD
RTS/CTS/DCD
DTR line (for disconnect)
Three status lines (for LEDs)

DATA RATES:
300 bps to 115.2 Kbps

SERIAL LINE FORMATS:
Characters: seven or eight data bits
Stop bits: one or two
Parity: odd, even, none

MODEM CONTROLS:
DTR (TTL level)

FLOW CONTROL:
XON/XOFF
CTS/RTS
None

MANAGEMENT:
Internal Web server
SNMP (read only)
Serial login, Telnet login

SYSTEM SOFTWARE:
Flash ROM standard: new software can be downloaded from a TCP/IP host (TFTP) or over serial port

DIAGNOSTIC LEDS:
TX/RX Data
Good Link
Status
Diagnostics

POWER REQUIREMENTS:
5 V regulated
250 mA (Ethernet model)

OPERATING TEMPERATURE:
41°F to 122°F (5°C to 50°C)

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
77205	Ethernet TCP/IP Interface for use with 520	3 lb	$400.00
71986	Ethernet TCP/IP Interface for use with 720i/820i/920i	3 lb	400.00
98057	Wireless Ethernet TCP/IP interface for use with 520, 720i, 820i and 920i	3 lb	650.00

OPTIONS/ACCESSORIES

72763	Ethernet CD	20.00
72117	Operating manual	10.00
Cables		
72697	RJ-45 to RJ-45, straight	35.00
78860	RJ-45 to RJ-45, cross over	35.00

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ConnexLink™

Wireless Radio 900 MHZ Transceivers



STANDARD FEATURES

- Durable industrial-grade enclosure with mounting flanges
- Transmits around corners and through walls
- Reliable communications up to 115200 kbps
- Supports point-to-point and point-to-multipoint applications

SPECIFICATIONS

FREQUENCY BAND:
902-928 MHz

MODULATION:
FHSS FSK

STANDARD INTERFACE:
RS232 (DB9 Male) or RS485 (6-pin terminal block)

SERIAL INTERFACE DATA RATE:
up to 115200 kbps

OUTPUT POWER:
5 mW-1000 mW variable

INPUT POWER:
7 VDC-18 VDC

CURRENT DRAW (@ 12 VDC):
400 mA TXD, 40 mA RXD

POWER SUPPLY:
AC transformer via 6 ft cable (183 cm)

ELECTRICAL REQUIREMENTS:
Line voltage 100-120 V; frequency 50-60 Hz (240 V outside the US)

CHANNELS:
Up to 32

SECURITY:
1-byte system ID, DES

SENSITIVITY:
-99dB @ full RF data rate

RANGE (LINE-OF-SIGHT):
Up to 20 miles (32 km)

TEMPERATURE:
-40 to 80 degrees Celsius

HUMIDITY (NON-CONDENSING):
10% to 90%

WEIGHT:
<6 oz (<170 g)

DIMENSIONS:
4.75 in x 2.75 in x 1.17 in
(121 mm x 70 mm x 30 mm)

ANTENNA CONNECTOR:
Reverse polarity SMA jack (female)

PART #	DESCRIPTION	PRICE
86134	ConnexLink RF device 900MHz RF device server/client	$325.00
105776	ConnexLink PRO 900MHz 1W, wireless Transceiver with large buffer	395.00

OPTIONS/ACCESSORIES

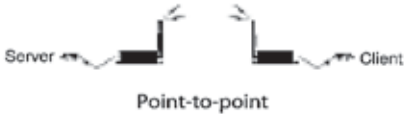
78827	Power supply, 115 VAC input/6 VDC output	55.00
103979	Antenna 1/2 Wave, 2 dbi, 7" for 900MHz radios	45.00
110538	ConnexLink FRP enclosure	1,195.00
110539	ConnexLink Pro enclosure	1,395.00

When operating multiple sets of ConnexLinks radios in range of each other, "Sync To Channel" must be configured so that the multiple Servers stay in sync with each other to guarantee that data is never transmitted on the same frequency. The first server needs to be set to Channel 16 and the remaining Server(s) need to be set to different channels. Make sure the Clients match their respective Servers with channel # and System ID #.

Sync to Channel must be enabled on all Servers that have a channel number greater than 16. No other configuration modifications are required for the Clients. In order to enable "Sync To Channel" user will be required to download the latest software at: http://www.aerocomm.com/rf_documents_software/lock_software.htm, then select Development Kit Software.

Once downloaded, launch the software and select "PC Settings." In the Product Field select Connex4490. Also select the appropriate COM port and Baud Rate. Click the About button and left-click the cursor. Type "showframe," then Enter. Your typing will not appear in the window. Click OK and select Show All Options. Click on the configure tab and follow the directions on the screen.

WIRELESS NETWORK



Point-to-point



Point-to-multipoint

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Monicor

Wireless Radio Modem



STANDARD FEATURES

- Two-way error free data transfer
- Aluminum case
- RS-232 serial interface
- Operate in point-to-point or point-to-multipoint configurations
- Modem has a buffer, a send queue and a receive queue, each queue having space for two packets of data (maximum packet size can vary from 16 to 128 characters, user selectable)
- UHF band from 450 to 470 MHz
- 2-millisecond turn-on response time
- 520 characters per second–4800 bps, 260 characters per second–2400 bps
- Helical antenna
- Power supply and communication cable (not included)

SPECIFICATIONS

FREQUENCY:
450-470 MHz, 406-420 MHz available

TURN-ON RESPONSE TIME:
2 milliseconds

DATA THROUGHPUT:
Up to 260 characters per second with 2400 bps radios
Up to 520 characters per second with 4800 bps radios (consult factory)

CHANNELS:
1 Channel/Half duplex

OPERATING TEMPERATURE:
-22°F to 140°F (-30°C to 60°C)
Expanded range: -40°F to 165°F (-40°C to 74°C)

STORAGE TEMPERATURE:
-22°F to 140°F (-30°C to 60°C)

HUMIDITY:
0-90% non-condensing

HOUSING:
Aluminum enclosure

RF CONNECTOR:
BNC

RS-232 INTERFACE:
DB-9 female

MESSAGE TRANSMISSION:
Synchronous variable length x.25 packets with error detection and correction

DIMENSIONS:
6.9 in x 2.9 in x 1.7 in
(175.26 x 73.66 x 43.18 mm)

POWER, VOLTAGE:
External Source, 12 to 24 VDC

WEIGHT:
1 lb (0.45 kg)

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
79267	IC-15ME remote modem, 2400 bps	1.5 lb	$1,495.00
79266	IC-210AME controller, 2400 bps	1.5 lb	1,895.00
79265	IC-15ME-48 remote modem, 4800 bps	1.5 lb	1,895.00
79264	IC-210AME-48 controller, 4800 bps	1.5 lb	2,195.00
78978	Point-to-point, IC-15ME, point “A”, 2400 bps	1.5 lb	1,095.00
78979	Point-to-point, IC-15ME, point “B”, 2400 bps	1.5 lb	1,095.00
79262	Point-to-point, IC-15ME-48, point “A”, 4800 bps	1.5 lb	1,695.00
79263	Point-to-point, IC-15ME-48, point “B”, 4800 bps	1.5 lb	1,695.00

OPTIONS/ACCESSORIES

78983	Additional hellcal antenna	95.00
78982	Additional manual	25.00

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NEW XTend-PKG™ RF Modems



STANDARD FEATURES

- Indoor/urban range up to 3000 feet
- Outdoor line-of-sight range up to 40 miles (with high gain antenna)
- Outdoor line-of-sight range up to 14miles (with 2.1 dB dipole antenna)
- Outstanding receiver sensitivity (-110 dBm @ 9600 bps)
- Adjustable power output from 1mW to 1 W; up to 4 W EIRP (with 6 dB antenna)
- Interface data rate: 10 - 230,400 bps (including non-standard baud rates)
- Throughput data rate (software selectable) 9,600 or 115,200 bps
- FR data rate: 10,000 bps @ 9,600 throughput data rate 125,000 bps @ 115,200 bps
- Low power consumption for power-sensitive applications (Pin, serial port and cyclic sleep modes available)
- Streaming, acknowledged and multi-transmit modes supported
- Easy out of the box operation (no configuration necessary)
- Durable industrial grade enclosure

SPECIFICATIONS

CONNECTION OPTIONS:
RS-232/422/485, DB-9 (XTend PKG-R)
USB (XTend PKG-U)
RS-232/422/482, DB-9/screw terminal (XTend PKG-NEMA)

DIMENSIONS:
XTend PKG-R/PKG-U:
- Length: 2.75 in (6.99 cm)
- Width: 5.50 in (13.97 cm)
- Depth: 1.13 in (2.86 cm)
- Weight: 7.10 oz (200 g)

XTend NEMA:
- Length: 5.13 in (13.02 cm)
- Width: 7.13 in (18.10 cm)
- Depth: 1.50 in (3.81 cm)
- Weight: 12.30 oz (348.70 g)

ENVIRONMENTAL:
XTend PKG-R/NEMA
-40°C to 85°C (industrial)
XTend PKG-U
0°C to 70°C (commercial)

POWER REQUIREMENTS:
XTend PKG-R
- Receive current: 110mA
- Power supply voltage: 7-28V
- Pin sleep power-down: 17mA
- Serial port sleep down: 45 mA
- Idle current: 19-39 mA
- Transmit current: 110 - 900 mA

XTend PKG-U
- Receive current: 110mA (self power)
- Power supply voltage: 7-28V
- Pin sleep power-down: 17mA
- Serial port sleep down: 45 mA
- Idle current: 21-35 mA (self power)
- Transmit current: 88-480 mA

XTend NEMA
- Receive current: 100mA
- Power supply voltage: 7-28V
- Pin sleep power-down: 17mA
- Serial port sleep down: 45 mA
- Idle current: 19-39 mA (self power)
- Transmit current: 110-900 mA

ANTENNA:
XTend PKG-R/PKG-U
- Connector: RPSMA (Reverse Polarity SMA)
- Impedance: 50 ohms unbalanced

XTend NEMA - weatherproof
- External antenna version:
  Connector: RPTNC
  Impedance: 50 ohms unbalanced
- Internal antenna version:
  Connector: MMCX
  Impedance: 50 ohms unbalanced

CERTIFICATIONS:
XTend PKG-R/PKG-U
- FCC part 15.247: OUR-9XTEND
- Industry Canada (IC): 4214A-9XTEND

XTend NEMA
- FCC part 15.247: OUR-9XTEND
- Industry Canada (IC): 4214A-9XTEND
- IP66/67, IP66
- IK 08
- NEMA 1, 4, 4X, 6 (12 and 13)
- UL 94-5V, UL 508

NETWORKING AND SECURITY:
- Frequency: ISM 902 MHz
- Spread spectrum: FHSS (Frequency Hopping Spread Spectrum)
- Modulation: FSK (Frequency Shift Keying)
- Supported Network Topologies:
  Peer to peer (no master/slave dependencies)
  point-to-point, point-to-mulitpoint and multidrop
- Channel capacity: 10 hop sequences share 50 frequencies
- Encryption: 256-bit AES Encryption
- AES algorithm meets Federal Information Processing Standard-197 (FIPS-197)

PART #	DESCRIPTION	PRICE
112979	XTend-PKG RF Modem	$895.00

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NEW Wireless Load Cell Interface



STANDARD FEATURES

- Works with any basic programmable indicator
- Excitation to load cell(s) provided by the transmitter, not an indicator
- No indicator needed at scale
- Each transmitter/receiver set is individually paired - will not interfere with another set
- Internal rechargeable battery
- Sleep mode

SPECIFICATIONS

ACCURACY:
1/5000 for any indicator

FREQUENCY BANDS:
800-928MMHz

POWER CONSUMPTION:
270 hrs - 1 350 ohms load cell
120 hrs - 4 350 ohms load cells

RANGE:
90 meters/295 feet
default setting - medium power
selectable settings - low & high power

TRANSMITTER:
Excitation 3.3v
Input <12.9mv
Source power 4V - 6V

RECEIVER:
Excitation 5-15V
Output 2mV/V

CABLE CONNECTION:
+....Excitation
+....Signal
–.....Signal
–....Excitation
Shield... Ground

ENCLOSURE:
Anodized Aluminum NEMA 12

TURN ON/OFF:
Remote turn on/off through indicator power

SIGNAL:
Green LED: Fast flash = strong
Slow flash = searching
Red LED Low battery
Yellow LED: Re-charging indicator

PART #	DESCRIPTION	PRICE
113774	Two radio kit	$1,295.00

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Accessories

QWERTY Style Keyboards and Aluminum Keypads

For Use With:

- Rice Lake V400 controllers
- Any system using RS-232 communications
- IQ plus® 810, with custom software
- Kiosk systems
- 920i with custom software



VISIBLE LIGHTS AND AUDIBLE ALARMS





DIN RAIL TRANSIENT PROTECTOR & FUSE



Surge Suppressor



Terminal Block

SER-PRO SERIAL PROTOCOL CONVERTER



- Elevated current loop drive voltage of 13VDC allows six or more passive devices to be connected in series
- Compatible with all devices transmitting in RS-232, 20 mA current loop and RS-422 protocol
- RS-422 transmitter is fully bus compatible Tri-state output accesses the RS-422 buss only when the data source sends data

EL226 TRANSIENT PROTECTION BOARD



- Protects sensitive microprocessor-based equipment against spikes and short-duration surges while providing RFI/EMI protection

Consult factory for standard features



MANUAL PUSHBUTTONS/PUSHBUTTON SWITCHES

- Key switches
- Lighted pushbuttons
- Pilot lights
- 2- and 3-position switches
- Colored pushbuttons
- Emergency stop mushroom switches
- Custom legend plates

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Accessories

QWERTY Style Keyboards and Aluminum Keypads

PART #	DESCRIPTION	PRICE
99149	Waterproof 80-key keyboard USB with PS/2 connector	$495.00
36914	Vandal-proof cast aluminum keypad*	145.00
38472	Keypad encoder	395.00
99149	Flexible keyboard	495.00

*Requires Part #38472

VISIBLE LIGHTS AND AUDIBLE ALARMS

PART #	DESCRIPTION	PRICE
22838	Buzzer, 80 dB, steady	$130.00
22839	Buzzer, 80 dB, pulse	130.00
43931	Strobe lights, red	145.00
43930	Strobe lights, amber	145.00
43929	Strobe lights, blue	145.00

SER-PRO SERIAL PROTOCOL CONVERTER

PART #	DESCRIPTION	PRICE
21057	SER-PRO, board only	$445.00

OPTIONS/ACCESSORIES

20980	SER-PRO with NEMA 4X stainless steel enclosure	745.00

Consult factory for NEMA 7CD, 9EFG explosion-proof enclosure

DIN RAIL TRANSIENT PROTECTOR AND FUSE

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
62965	Terminal Block	1 lb	$25.00
53895	Surge Suppressor	1 lb	195.00

MANUAL PUSHBUTTONS/PUSHBUTTON SWITCHES

PART #	DESCRIPTION	PRICE
N/A	N/A	Consult Factory for operator and contact block combinations starting at $12.00

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Allen-Bradley® Components





Example of Rice Lake-manufactured Allen-Bradley controller system

STANDARD FEATURES

- Capable of addressing material handling, HVAC control and assembly operations
- Advanced instruction set based on PLC-5 mid-size processors
- DH-485 communication for programming and remote monitoring
- Broad line of discrete digital and analog and intelligent I/O modules
- Displays/user interface elements—consult factory

CONTROLLER SPECIFICATIONS

I/O CAPACITY:
SLC-5/03 = up to 960 I/O
SLC-5/04 = up to 905 I/O

I/O MODULE TYPES:
4-I/O, 8-I/O, 12-I/O, 16-I/O, and 32-I/O modules
Input-only, output-only and combination input/output modules
Analog and digital I/O circuits

MEMORY CAPACITY:
SLC-5/03 = 12K instructions, plus 4K data table
SLC-5/04 = 20K instructions, plus 4K data table

MEMORY TYPE:
Battery-backed RAM, EPROM, or EEPROM

POWER-SUPPLY LOADING:
SLC-5/03 = 0.500 A @ 5 VDC, 0.175 A @ 24 VDC
SLC-5/04 = 800 mA @ 5 VDC, 60 mA @ 24 VDC

WARRANTY:
One-year limited warranty

POWER SUPPLY SPECIFICATIONS

LINE VOLTAGE:
85-132/170-265 VAC, 47-63 Hz

LINE POWER REQUIREMENT:
165 VA @ 120 VAC, 180 VA @ 240 VAC

MAXIMUM INRUSH CURRENT:
20 A

INTERNAL CURRENT CAPACITY:
5 A @ 5 VDC, 0.96 A @ 24 VDC

FUSE PROTECTION:
1746-F2 or equivalent; 250 V-3 A fuse, Sano Soc Sd4 or Bussmann AGC 3

24 VDC USER POWER CURRENT CAPACITY:
200 mA

24 VDC USER POWER VOLTAGE RANGE:
18-30 VDC

AMBIENT OPERATING TEMPERATURE RANGE:
32°F to 140°F (0°C to 60°C)
(Current capacity derated 5% above 55°C)

STORAGE TEMPERATURE:
-40°F to 185°F (-40°C to 85°C)

HUMIDITY RATING:
5-95% non-condensing

WIRING:
2 #14 AWG wires per terminal, max

APPROVALS:
UL, CSA

WARRANTY:
One-year limited warranty

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Allen-Bradley® Components

PART #	A-B PART #	DESCRIPTION	PRICE
49593	1746-PS	Power supply SLC 500	$795.00
49592	1746-A13	Chassis 13-slot SLC 500	995.00
49591	1746-A10	Chassis 10-slot SLC 500	925.00
49590	1746-A7	Chassis 7-slot SLC 500	575.00
49589	1746-A4	Chassis 4-slot SLC 500	395.00
49588	1747-L542	Processor SLC 5/04 32K	3,895.00
49587	1747-SN	Module, remote I/O scanner SLC 500	1,795.00
49586	1726-IA16	Module, input 120 VAC, 16-channel	495.00
49585	1746-OW16	Module, output, relay, 16-channel SLC 500	545.00
49584	1746-NIO4I	Module, analog, two selectable inputs, two 0–10 VDC voltage outputs	1,295.00
49583	1746-NIO4V	Module, analog, two selectable inputs, two 0–20 mA current outputs	1,295.00
49582	ABO-2711K6C8	PanelView 600 color display	4,295.00
49579	6180-BFCBEGAZCBZ	Industrial computer 11.3 TFT display (NEMA 4)	11,895.00
81022	1794-0W8	Flex I/O, digital contact output module, 8 N.O. relay contact outputs	1,120.00
81023	1794-IA8	Flex I/O, digital AC input module, 8 74-132 VAC inputs	895.00
81024	1794-TBN	Flex I/O, terminal base, 20 terminal, cover for terminals	245.00
81026	1794-TBNF	Flex I/O, terminal base, 20 terminal, fused connection points for the I/O	345.00
81027	1794-PS13	Flex I/O, power supply, 85-265 VAC, 47-63 Hz	295.00
81028	1794-ASB	Flex I/O, universal remote I/O adapter module	1,095.00

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X-Purge Components



OPTIONS/ACCESSORIES

- Vents
- Explosion-proof audible alarm
- Explosion-proof strobe light
- Fittings
- Tubing
- Operational bypass switch
- Rapid Exchange® purging technology

Rapid Exchange is a registered trademark of Bebco Industries, Inc.

Many custom panels can utilize purge technology to bring high-level control to hazardous areas. Call a Rice Lake Sales Engineer for more information.

Z-Purge Components



OPTIONS/ACCESSORIES

- Vents
- Explosion-proof audible alarm
- Explosion-proof strobe light
- Fittings
- Tubing

Many custom panels can utilize purge technology to bring high-level control to hazardous areas. Call a Rice Lake Sales Engineer for more information.



Explosion-proof audible alarm



Explosion-proof strobe light



Vent

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Tripp-Lite USB to Serial Converter

Serial Adapter



STANDARD FEATURES

- Portable design—no AC power required
- Simple plug-and-play setup
- Supports data transfer rates of more than 500 kbps
- Hot swappable

SPECIFICATIONS

DATA TRANSFER RATE:
More than 500 kbps

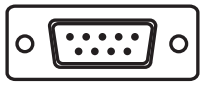
LED:
Data transfer/handshaking (orange)

POWER CONSUMPTION:
450 mW

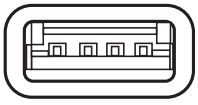
USB SPECIFICATION:
V1.1 compliant

DB-9 PIN ASSIGNMENTS:	
PIN	**Assignment**
1	CD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

DB9 (Male) Connector:



A (Male) Connector:



PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
72704	USB to Serial Converter	1 lb	$70.00

Industrial Control Products

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NEW 112548 Bridgesensor



STANDARD FEATURES

- Low cost
- Din Rail Mount
- Load cell or single ended application
- 0-30mVDC input
- 4-20mA output

PART #	DESCRIPTION	PRICE
112548	Load cell to 4-20 mA bridgesensor with Din Rail Mount	$230.00

NEW 112549 Bridgesensor



STANDARD FEATURES

- Low cost
- Din Rail Mount
- Load cell or single ended application
- 0-30mVDC input
- 0-10VDC output

PART #	DESCRIPTION	PRICE
112549	Load cell to Analog bridgesensor, 10 VDC excitation, 0-30 mV	$230.00

NEW 112550 Bridgesensor



STANDARD FEATURES

- Low cost
- Din Rail Mount
- Load cell or single ended application
- 0-15mVDC input
- 0-10VDC output
- 5 VDC excitation

PART #	DESCRIPTION	PRICE
112550	Load cell to Analog bridgesensor, 5 VDC excitation, 0-30 mV	$230.00

NEW 112551 Bridgesensor



STANDARD FEATURES

- Low cost
- Din Rail Mount
- Load cell or single ended application
- 0-15mVDC input
- 4-20mA output
- 5 VDC excitation

PART #	DESCRIPTION	PRICE
112551	Load cell to Analog bridgesensor, 5 VDC excitation, 0-30 mV	$230.00

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430 Bridgesensor

4-20 mA Load Cell Signal Conditioner



STANDARD FEATURES

- 4-20 mA, 0-20 mA or ±12 mA output
- Potentiometer-adjustable excitation, zero offset and span gain
- 115 VAC: ±10% 50/60 Hz at 6.5 VA
  230 VAC: ±20% 50/60 Hz at 6.5 VA
- Screw terminal connections
- Single-point component design
- Epoxy-encapsulated, sealed enclosure
- Remote sensing for line voltage drop compensation

SPECIFICATIONS

EXCITATION:
4 – 15 VDC adjustable

LOAD CURRENT:
0 – 100 mA maximum (4 350 Ω load cell @ 8.5 VDC; external 15 ohm, 1/2 watt load resistor required)

TRANSDUCER CABLING:
6-wire with remote sensing, 4-wire with sense jumpers

ANALOG SIGNAL INPUT RANGE:
10 – 50 mV

LINEARITY:
±0.1% of full scale output @ 25°C (77°F)

TEMPERATURE STABILITY:
59°F to 93°F (15°C to 35°C)
.02% F.S.O./°C @ 320 mA/V maximum
.02% F.S.O./°C @ 1600 mA/V maximum
Hysteresis 0.1% maximum

OUTPUT CURRENT:
0-20 mA with adjustable zero and span, 25 mA maximum,
zero stability 6 µA/°C maximum

OUTPUT LOOP RESISTANCE:
0-500 ohms

OUTPUT RESPONSE TIME:
To 1% of final value—200 mS, typical
To 0.1% of final value—300 mS, typical

POWER INPUT:
115 VAC: ±10% 50/60 Hz @ 6.5 VA maximum
230 VAC: ±20% 50/60 Hz @ 6.5 VA maximum

OPERATING TEMPERATURE RANGE:
32°F to 131°F (0°C to 55°C)

PACKAGING:
Epoxy potted plastic enclosure with exposed screw terminal connections

WEIGHT:
18 oz (510 g)

WARRANTY:
One-year limited warranty

See table on next page for electrical connections

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
20975	430 Bridgesensor, 115 VAC	2 lb	$495.00
35276	430 Bridgesensor, 230 VAC	2 lb	495.00

430 ELECTRICAL CONNECTIONS

Screw Terminal	Function	Screw Terminal	Function
1	-Sense	8	Current Output
2	-Excitation	9	Amplifier CMN
3	+Sense	10	+Signal
4	+Excitation	11	-Signal
5	Not Used	12	Ext. Gain
6	AC	13	Ext. Gain
7	AC		

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437 Bridgesensor

Signal Conditioner



STANDARD FEATURES

- Complete strain gage bridge signal conditioner
- 4-20mA or 0-20mA output
- Output capable of driving 1000Ω loop
- Bridge balance with 68% tare offset capability
- High gain amplifier; can accept live load signals as low as 3mV and provide 16mA output span
- Sufficient excitation current for five load cells
- Powered by 10 to 36VDC unregulated
- Rugged epoxy encapsulated design

SPECIFICATIONS

OUTPUT CURRENT SPAN:
4 to 20mA; 0 to 20mA

INPUT FOR 16 mA SPAN:
3mV to 62mV

ZERO ADJUST:
12mA

AMPLIFIER:
Cell sensitivity (10 volts excitation): 0.3mV/V to 6.2mV/V

OUTPUT:
Current: 0 to 20mA

BRIDGE EXCITATION SUPPLY:
Adjustment range: 5 to 15 Volts

POWER REQUIREMENTS:
Input Voltage: 10 to 36 Volts DC
Input current with 150mA B+ load: 0.17A @ 36V to 0.7A @ 10V
Input current with one 350Ω bridge: 0.1A @ 36V to 0.35A @ 10V

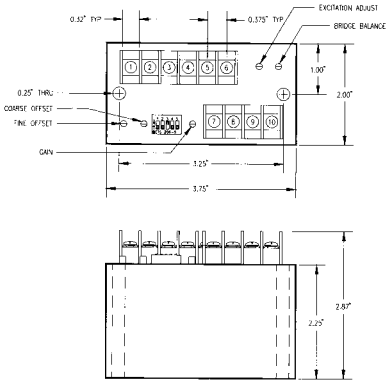
OPERATING TEMPERATURE RANGE:
-13°F to 131°F (-25°C to 55°C)

PACKAGING:
Epoxy potted plastic enclosure with exposed screw terminal connections

WEIGHT:
2lb (0.9kg)

WARRANTY:
One-year limited warranty

CASE DIMENSIONS:



PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
46719	437 Bridgesensor, 4-20mA/0-20mA, 10-36VDC	2lb	$695.00

437 ELECTRICAL CONNECTIONS

Screw Terminal	Function	Screw Terminal	Function
1	+DC Power	6	+ Excitation
2	-DC Power	7	Current Output
3	-Sense	8	Amplifier CMN
4	-Excitation	9	-Input
5	+Sense	10	+Input

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463 Bridgesensor

Signal Conditioner



STANDARD FEATURES

- Complete strain gauge bridge signal conditioner
- Isolated 10 volt output
- Bridge balance with 80% tare offset capability
- Excitation supply capable of driving four load cells
- AC powered
- Rugged epoxy encapsulated design

SPECIFICATIONS

INPUT FOR 10V OUTPUT:
5mV to 50mV

TARE ADJUSTMENT RANGE:
Bridge balance: -3mV to +25mV
Referred to input: Equals 80% F.S. of 3mV/V to +25mV/V

ZERO ADJUST:
0 or +2 Volts

OUTPUT VOLTAGE RANGE:
-3 to +10 Volts

BRIDGE SUPPLY:
Voltage adjustment range: 5 to 10 Volts

LOAD CURRENT:
0 to 120mA

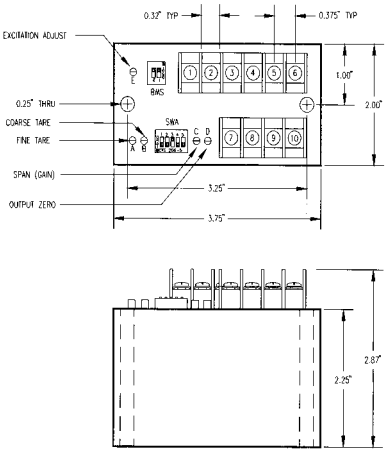
OPERATING TEMPERATURE RANGE:
-13°F to 131°F (-25°C to 55°C)

PACKAGING:
Epoxy potted plastic enclosure with exposed screw terminal connections

WEIGHT:
18oz (510g)

WARRANTY:
One-year limited warranty

CASE DIMENSIONS:



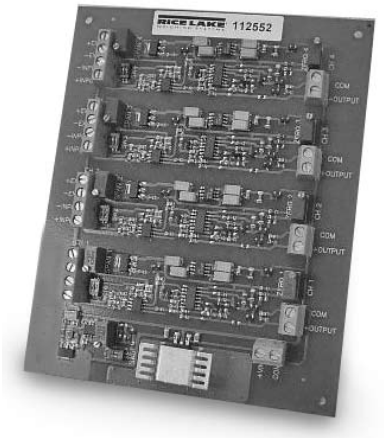
PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
46720	463 Bridgesensor, 0-10VDC, 115VAC	2lb	$695.00

463 ELECTRICAL CONNECTIONS

Screw Terminal	Function	Screw Terminal	Function
1	-Sense	6	AC
2	-Excitation	7	+Signal
3	+Sense	8	-Signal
4	+Excitation	9	Output
5	AC	10	Common

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NEW 112552 Bridgesensor Board



STANDARD FEATURES

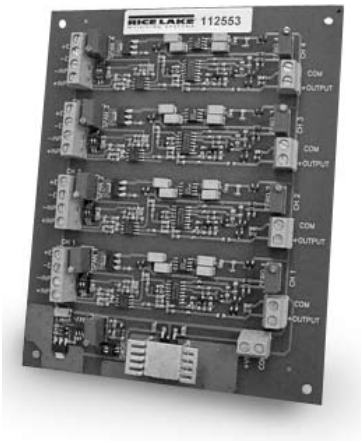
- Low cost
- Load cell or single ended application
- 4 individual channels
- 0-30mVDC input per channel
- 0-10VDC output per channel
- Adjustable excitation supply

Option

- (-W4) to model number to be mounted in a NEMA enclosure

PART #	DESCRIPTION	PRICE
112552.....	Load cell to Analog bridgesensor, 5 - 10 VDC adjustable excitation	$645.00

NEW 112553 Bridgesensor Board



STANDARD FEATURES

- Low cost
- Load cell or single ended application
- 4 individual channels
- 0-30mVDC input per channel
- 4-20mA output per channel
- Adjustable excitation supply

Option

- (-W4) to model number to be mounted in a NEMA enclosure

PART #	DESCRIPTION	PRICE
112553.....	Load cell to Analog bridgesensor, 5 - 10 VDC adjustable excitation	$645.00

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API 4058G - 441/442 Bridgesensors Load Cell Signal Conditioners



API 4058G Bridgesensor



441/442 Bridgesensor

STANDARD FEATURES

API 4058G Bridgesensor:

- User-selectable input/output ranges and excitation voltages
- Convenient setup via rotary and slide switches
- Excitation voltage at 115mA (10V) drives four 350-ohm load cells
- LED input/output signal indicators
- Selectable voltage or current outputs
- Functional test pushbutton

441/442 Bridgesensor:

- Input/output ranges and excitation voltage are selectable by easy-access rotary switches
- Non-interactive zero and span control
- Offset switch allows cancelling or "taring" of non-zero deadweights
- Excitation voltage of 115mA (10V) drives up to four 350-ohm bridges
- Input/output LoopTracker™ LEDs show input/output status
- Functional test push-button with fixed level output to facilitate setup and troubleshooting
- Full isolation (input/output power) eliminates the effects of ground loops and noise

API 4058G SPECIFICATIONS

INPUT/OUTPUT RANGES:
See table on next page. Other switch-selectable ranges possible. See calibration instructions for more complete information, or consult factory.

INPUT IMPEDANCE:
1 Megohm minimum

OUTPUT CAPABILITY:
Voltage: ±10VDC; ± 10mA
Current: 25mA DC; 20V compliance

ZERO/SPAN CONTROLS:
Top-accessible, multi-turn
Range: ±15% of span typical

EXCITATION:
10VDC maximum @ 115mA nominal; switch-selectable, 0-10VDC in 1 Volt increments; fine adjust; ±2.5% via multi-turn

EXCITATION STABILITY:
±0.1% per degree Celsius

RESPONSE TIME:
70 mS standard

COMMON MODE REJECTION:
Better than .02% of span per degree Celsius

OPERATING TEMPERATURE RANGE:
14 to 140°F (-10 to 60°C)

POWER:
Standard: 115VAC, ±10%, 50/60Hz, 2.5W max
Optional: 230VAC, ±10%, 50/60Hz, 2.5W max
12VDC versions available; consult factory for availability

APPROVALS:
Model API 4058G: UL listed; consult factory for numbers

WEIGHT:
Approximately 2lb (0.9kg)

DIMENSIONS:
1.75 W x 2.75 H x 2.38in D (not including socket)

WARRANTY:
One-year limited warranty

BRIDGESENSOR 441/442 SPECIFICATIONS

INPUT/OUTPUT RANGES:
See table on next page. Other switch-selectable ranges possible.

INPUT IMPEDANCE:
200K ohm typical

OUTPUT CAPABILITY:
Voltage: ±10VDC; @ ± 10mA
Current: 25mA DC; 20V compliance

ZERO/SPAN CONTROLS:
Top-accessible, multi-turn, non-interactive
Range: ±15% of span typical

EXCITATION:
Switch-selectable, 0-10VDC
in 1 Volt increments
Fine adjust: ±5% via multi-turn potentiometer

EXCITATION CURRENT CAPABILITY:
120mA DC @ 10VDC excitation; drives up to four 350-ohm load cells @ 10VDC

EXCITATION STABILITY:
±.01% per degree Celsius

RESPONSE TIME:
70 mS standard; faster responses available

SENSE LEAD COMPENSATION:
Better than 0.01% per 1 ohm change in leadwire resistance

LEADWIRE RESISTANCE:
10 ohm max for 10VDC excitation/350-ohm bridge

COMMON MODE REJECTION:
100 dB minimum

ISOLATION:
2000V RMS minimum

OPERATING TEMPERATURE RANGE:
14°F to 140°F (-10°C to 60°C)

POWER:
441: 115VAC, ±10%, 50/60Hz, 2.5W max
441 Optional: 230VAC, ±10%, 50/60Hz, 2.5W max
442: 9-30VDC @ 200mA typical

DIMENSIONS:
1.75 W x 2.75 H x 2.38in D (not including socket)

WARRANTY:
Lifetime

API 4058G - 441/442 Bridgesensors Load Cell Signal Conditioners

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
22778	API 4058G Bridgesensor	2 lb	$595.00
38902	441 Bridgesensor, 115 VAC	2 lb	695.00
38904	442 Bridgesensor, 9-30 VDC	2 lb	795.00

API 4058G INPUT/OUTPUT RANGES

Input Spans		Outputs	Voltage	Current
0-5 mV	0-100 mV	0-1 V	0-8 V	0-2 mA
0-10 mV	0-200 mV	0-2 V	2-10 V	0-10 mA
0-20 mV	0-250 mV	0-4 V	0-10 V	2-10 mA
0-25 mV	0-300 mV	0-5 V		0-16 mA
0-30 mV	0-400 mV	1-5 V		4-20 mA
0-40 mV	0-1000 mV	±5 V		0-20 mA
0-50 mV	0-1200 mV	±10 V		

441/442 Input/Output Ranges

Input Spans		Outputs Voltage	Current
0-5 mV	0-50 mV	0-1 V	0-20 mA
0-10 mV	0-100 mV	0-5 V	4-20 mA
0-20 mV	0-200 mV	1-5 V	
0-25 mV	0-250 mV	0-10 V	
0-30 mV	0-300 mV	±5 V	
0-40 mV	0-400 mV	±10 V	

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Amphenol® RJF 544

Harsh Environment Ethernet Connection System









STANDARD FEATURES

- Allows an Ethernet Class D/Category 5e connection for 10Base-T, 100Base-TX, or 1000Base-T networks in harsh environments
- Sealed against fluids and dusts (IP67)
- Shock, vibration and traction resistant
- No cabling operation in the field
- No tools required
- Improved EMI protection
- Uses a standard RJ-45 cordset in protective composite plug to protect from shocks, dust and fluids
- In-field cabling and grounding not necessary

SPECIFICATIONS

DATA TRANSMISSION:

10Base-T, 100Base-TX and 1000Base-T networks Category 5e per TIA/EIA 568B and ClassD per ISO/IEC 11801

MECHANICAL:

Quick push/pull coupling

RJ-45 cordset retention in the plug: 100N in the axis

Mating cycles: 500 min

ENVIRONMENTAL PROTECTION:

Sealing: IP67

Salt Spray > 1000h

Fire retardant/low smoke: UL94 V0 and NFF 16 16102, DIN 5510-2

Vibrations: 10-500 Hz, 10g, 3 axes: no discontinuity > 10 nano s

Thermal Shock: 5 cycles at -40° C / +100° C

OPERATING TEMPERATURE:

-40°F to 185°F (-40°C to 85°C)

APPLICATIONS:

Telecom equipment, video control, robotics, industrial process control, CNC machines, motion control,

tele-maintenance

PART #	DESCRIPTION	PRICE
87326	RJF 544 kit	$150.00
87285	Square flange female connector	35.00
87286	Dust cap for harsh environment receptacles	35.00
87287	Gasket for harsh environment receptacles	5.00
87288	Ethernet plug	35.00
87289	Dust cap for harsh environment plugs	35.00

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Notes

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MotoWeigh®

In-Motion Checkweigher and Case Weigher



CHECKWEIGHER PACKAGES

NTEP and Non-NTEP certified packages available in stainless steel and aluminum for food and non-food grade applications.

Checkweigher Packages Include

- Single speed (non-adjustable)110 VAC single phase conveyor system drive or three phase motors
- Common framework for mounting conveyor scale on same frame as in-feed conveyor and indicator
- Basic control enclosure to interconnect wiring from photo eyes, divert solenoid and conveyor on/off/E-stop

STANDARD FEATURES

- Customized prompts guide operator through functions
- Real-time graphic representation of inventory
- Graphic icons and messages show function status
- Convenient navigation pad increases efficiency and accuracy
- Large 4.6in W x 3.4in H, 320 x 240 pixel, back-lit LCD graphical display
- Front panel or serial configuration/calibration
- NEMA 4X/IP66 stainless steel enclosure
- Four bidirectional communication ports

Optional Features:

- Rejection system
- Drop beds
- Pneumatic pushers
- Portability packages
- Air blasts
- Diverters
- Drop chutes
- Stop belt
- Custom programs
- UL 508 / 508A certification
- Stainless steel shrouds
- Guide rails on infeed
- Metal detection
- Three or five zone stack-light bars
- Light post
- Remote display
- Audible reject alarm
- Draft shields
- Emergency stops
- Networking
- Bar code scanner

APPROVALS

on select models

SPECIFICATIONS

CONSTRUCTION:
Stainless steel food grade, stainless steel non-food grade or aluminum

CONFIGURATIONS:
One to four conveyor belts

SPEED:
Up to 200 products per minute

CONTAINER TYPES:
Boxes, bags, pouches, trays, tubs, cups, blister packs, display packs, clam shells

CONTAINER SIZES:
Random package, uniform trays

CONTAINER WEIGHTS:
Up to 200lb

BELTS:
Flat and Interlox® washdown

POWER CONSUMPTION:
110 VAC single phase, 60Hz
230/440 VAC 3 phase, 60Hz

APPROVALS:
NTEP: Food grade stainless steel
Non-food grade aluminum
Non-NTEP: Food grade stainless steel
Non-food grade aluminum

WARRANTY:
Two-year limited warranty (excludes power train)

Intralox® is a registered trademark of Laitram, L.L.C.

OPTIONS/ACCESSORIES

- Second separate framework for out-feed conveyor (includes single divert mechanism)
- Electronic conveyor speed manual adjustment
- Indicator controlled variable conveyor speed
- Food grade aluminum or stainless steel reject with conveyor
- Non-food grade aluminum or stainless steel reject with conveyor
- Filling machine feedback
- Network interface for PLU downloads and product uploads
- Single error light post
- Host computer database and statistical data package
- Metal detector input for reject mechanism
- Pacer belt in-feed
- Variable speed/multi-voltage, three phase input package

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MotoWeigh®

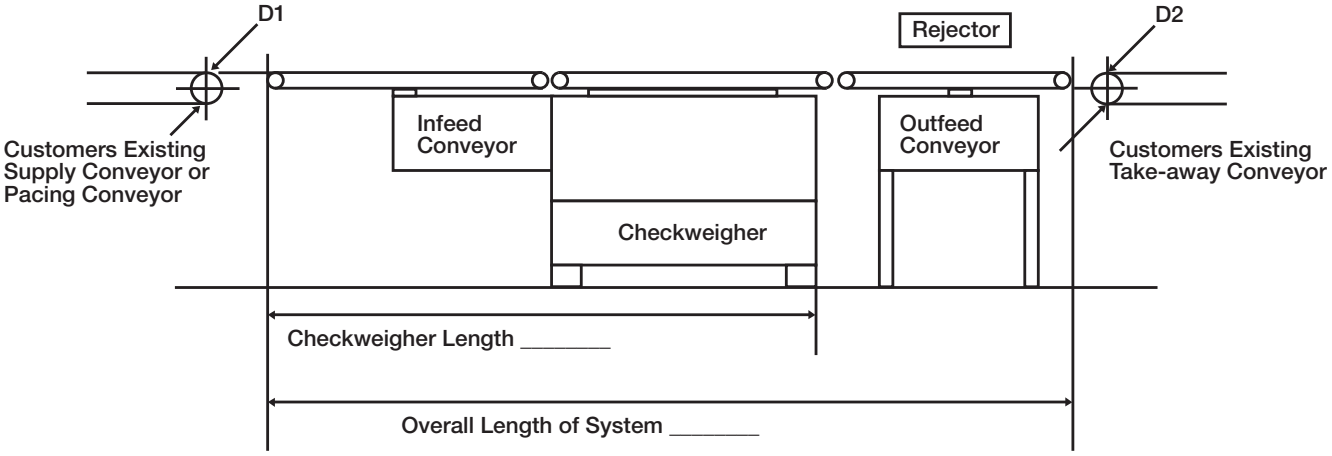
In-Motion Checkweigher and Case Weigher

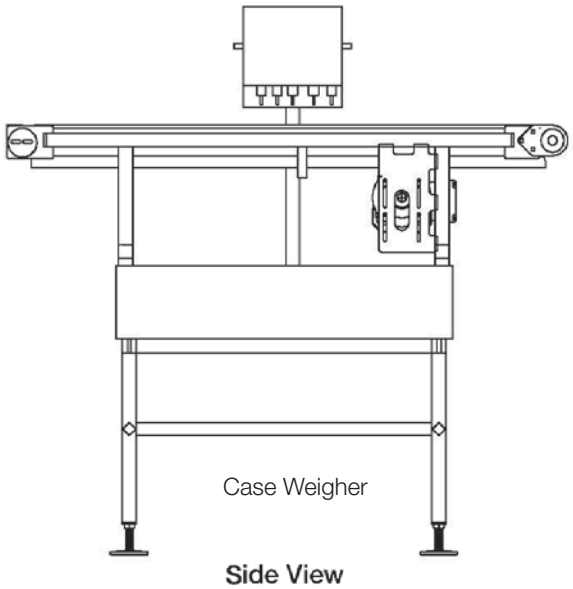
STANDARD SIZES (OPTIONAL SIZES AVAILABLE AT NO EXTRA CHARGE)

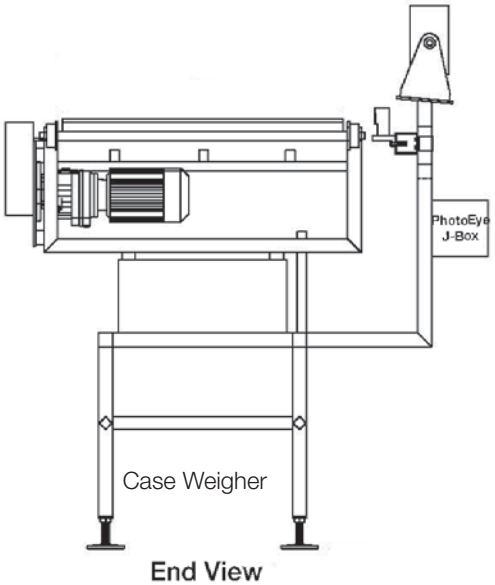
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6	x	48	18	x	48	30	x	48
6	x	60	18	x	60	30	x	60
12	x	12	24	x	12	36	x	12
12	x	24	24	x	24	36	x	24
12	x	36	24	x	36	36	x	36
12	x	48	24	x	48	36	x	48
12	x	60	24	x	60	36	x	60

Due to the variety of configurations, please consult the factory to discuss application requirements and for complete specifications and price quotations.

Video and quest available at www.ricelake.com/motoweigh



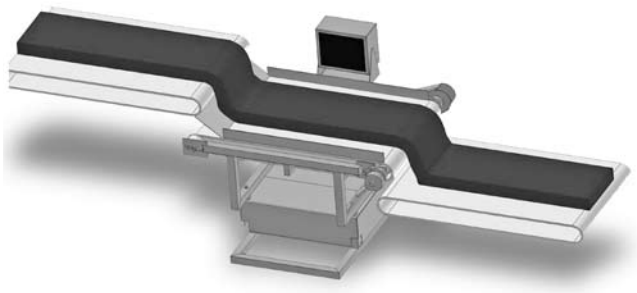




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MotoWeigh®

Single Conveyor Flow Scales



STANDARD FEATURES

- Weighs with accuracy of + or - 1% error
- Weighs granular, non-spaced product
- Eliminates the need to transfer product to a remote floor scale
- Bulk material handling
- Reduces labor required in determining accurate bulk weights
- Direct food contact belting
- Washdown and chemical tolerant
- Food grade and non-food grade versions available
- Fill point shutoff capable

Applications

- Small food products, granular materials, legumes, nuts, cereals, dry chemicals and bulk material handling of small product

SPECIFICATIONS*

POWER:
Line voltages: 115 or 230 VAC
Frequency: 50 or 60 Hz
Power consumption: 340 mA, maximum @ 115 VAC (26 W) 240 mA @ 230 VAC (26 W)

EXCITATION VOLTAGE:
10 ± VDC, 16 x 350 Ω or 32 x 700 Ω load cells per A/D card

ANALOG SIGNAL INPUT RANGE:
-10 mV to +45 mV

ANALOG SIGNAL SENSITIVITY:
0.3 µV/graduation minimum @ 7.5 Hz
1.0 µV/graduation typical @ 120 Hz
4.0 µV/graduation typical @ 960 Hz

A/D SAMPLE RATE:
7.5 to 960 Hz, software selectable

RESOLUTION:
Internal resolution: 8 million counts
Weight display resolution: 9,999,999

SYSTEM LINEARITY:
± 0.01% full scale

**Indicator/Controller specifications*

DIGITAL I/O:
Four I/O channels on CPU board; optional 24-channel I/O expansion boards available

CIRCUIT PROTECTION:
RFI, EMI, ESD protection

SERIAL PORTS:
Four ports on CPU board support up to 115,200 bps; optional dual-channel serial expansion boards available
Port 1: Full duplex RS-232
Port 2: RS-232 with CTS/RTS; PS/2 keyboard interface via DB-9 connector
Port 3: Full duplex RS-232, 20 mA output
Port 4: Full duplex RS-232, 2-wire RS-485, 20 mA output

DISPLAY (W X H):
4.6 in x 3.4 in (116 W x 86 mm H), 320 x 240 pixel VGA Liquid Crystal Display (LCD) module with adjustable contrast

DIMENSIONS:
Universal: 10.5 in W x 10.9 in H x 4.5 in D
(266 W x 215 H x 114 mm D)
Deep Universal: 10.75 in W x 10.75 in H x 5.4 in D
(273 W x 273 H x 137 mm D)

WEIGHT:
Universal enclosure: 9.5 lb (4.3 kg)
Panel Mount enclosure: 8.5 lb (3.9 kg)
Deep Universal: 11 lb (5.0 kg)

KEYBOARD:
27-key membrane panel, tactile feel, PS/2 port for external keyboard connection

OPERATING TEMPERATURE:
Legal: 14°F to 104°F (-10°C to +40°C)
Industrial: 14°F to 122°F (-10°C to +50°C)

RATING/MATERIAL:
NEMA 4X/IP66, stainless steel

APPROVALS:
CE marked
UL & C-UL listed (Universal, Deep & Wall Mount)
Custom Wall Mount approved for 508A (optional)
Panel Mount UL recognized

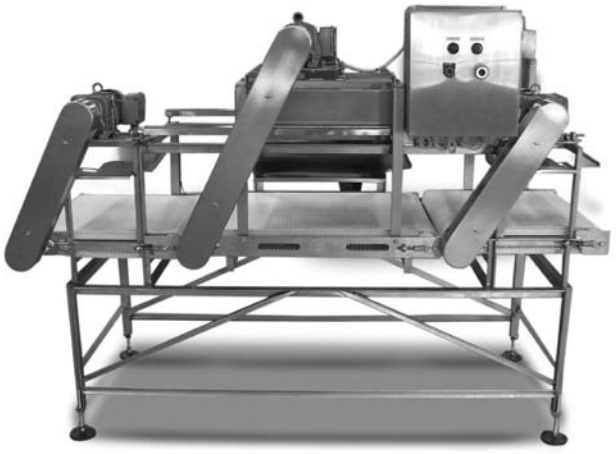
WARRANTY:
Two-year limited warranty

Due to the variety of configurations, please consult the factory to discuss application requirements and for complete specifications and price quotations.

RICE LAKE WEIGHING SYSTEMS
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MotoWeigh®

Three Conveyor Flow Scales



STANDARD FEATURES

- Weighs with accuracy of + or - .5% error
- Accurately weighs inconsistently spaced products
- Eliminates the need to transfer product to a remote floor scale
- Configured for application specifications
- Reduces the manual labor needed to determine wight of product transferred between departments
- Direct food contact belting
- Easily cleanable design
- Food grade and non-food grade versions available
- Stainless steel construction for harsh operating environments

Applications

- Small food products, granular materials, legumes, nuts, cereals, dry chemicals and bulk material handling of small product

SPECIFICATIONS*

POWER:
Line voltages: 115 or 230 VAC
Frequency: 50 or 60 Hz
Power consumption: 340 mA, maximum @ 115 VAC (26 W) 240 mA @ 230 VAC (26 W)

EXCITATION VOLTAGE:
10 ± VDC, 16 x 350 Ω or 32 x 700 Ω load cells per A/D card

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-10 mV to +45 mV

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1.0 µV/graduation typical @ 120 Hz
4.0 µV/graduation typical @ 960 Hz

A/D SAMPLE RATE:
7.5 to 960 Hz, software selectable

RESOLUTION:
Internal resolution: 8 million counts
Weight display resolution: 9,999,999

SYSTEM LINEARITY:
± 0.01% full scale

DIGITAL I/O:
Four I/O channels on CPU board; optional 24-channel I/O expansion boards available

CIRCUIT PROTECTION:
RFI, EMI, ESD protection

SERIAL PORTS:
Four ports on CPU board support up to 115,200 bps; optional dual-channel serial expansion boards available
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Panel Mount enclosure: 8.5 lb (3.9 kg)
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KEYBOARD:
27-key membrane panel, tactile feel, PS/2 port for external keyboard connection

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Legal: 14°F to 104°F (-10°C to +40°C)
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RATING/MATERIAL:
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APPROVALS:
CE marked
UL & C-UL listed (Universal, Deep & Wall Mount)
Custom Wall Mount approved for 508A (optional)
Panel Mount UL recognized

WARRANTY:
Two-year limited warranty

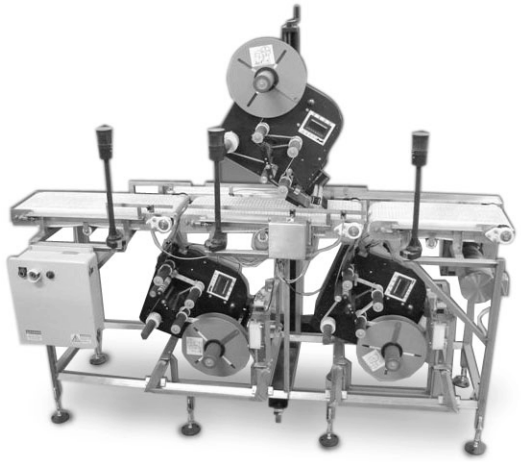
**Indicator/Controller specifications*

Due to the variety of configurations, please consult the factory to discuss application requirements and for complete specifications and price quotations.

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MotoWeigh® WPL

Weigh Price Labeler



STANDARD FEATURES

- Pre-printed labels or on-demand label printing
- Digital display
- Easy to find off the shelf components
- Current statistics reporting
- Error reporting with recommended solution
- Adjustable conveyor speeds
- Applicators mounted on slide out brackets

Multiple label applicator choices:

- Passive wipe-on
- Tamp applicator
- Tamp-blow
- Blow-on
- Corner wrap
- Swing arm
- Active wipe-on
- Up to three labels on top of product
- Up to two labels on bottom of product

SPECIFICATIONS*

POWER:
Line voltages: 115 or 230 VAC
Frequency: 50 or 60 Hz
Power consumption: 340 mA, maximum @ 115 VAC (26 W) 240 mA @ 230 VAC (26 W)

EXCITATION VOLTAGE:
10 ± VDC, 16 x 350 Ω or 32 x 700 Ω load cells per A/D card

ANALOG SIGNAL INPUT RANGE:
-10 mV to +45 mV

ANALOG SIGNAL SENSITIVITY:
0.3 µV/graduation minimum @ 7.5 Hz
1.0 µV/graduation typical @ 120 Hz
4.0 µV/graduation typical @ 960 Hz

A/D SAMPLE RATE:
7.5 to 960 Hz, software selectable

RESOLUTION:
Internal resolution: 8 million counts
Weight display resolution: 9,999,999

SYSTEM LINEARITY:
± 0.01% full scale

DIGITAL I/O:
Four I/O channels on CPU board; optional 24-channel I/O expansion boards available

CIRCUIT PROTECTION:
RFI, EMI, ESD protection

SERIAL PORTS:
Four ports on CPU board support up to 115,200 bps; optional dual-channel serial expansion boards available
Port 1: Full duplex RS-232
Port 2: RS-232 with CTS/RTS; PS/2 keyboard interface via DB-9 connector
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4.6 in x 3.4 in (116 W x 86 mm H), 320 x 240 pixel VGA Liquid Crystal Display (LCD) module with adjustable contrast

DIMENSIONS:
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Universal enclosure: 9.5 lb (4.3 kg)
Panel Mount enclosure: 8.5 lb (3.9 kg)
Deep Universal: 11 lb (5.0 kg)

KEYBOARD:
27-key membrane panel, tactile feel, PS/2 port for external keyboard connection

OPERATING TEMPERATURE:
Legal: 14°F to 104°F (-10°C to +40°C)
Industrial: 14°F to 122°F (-10°C to +50°C)

RATING/MATERIAL:
NEMA 4X/IP66, stainless steel

APPROVALS:
CE marked
UL & C-UL listed (Universal, Deep & Wall Mount)
Custom Wall Mount approved for 508A (optional)
Panel Mount UL recognized

WARRANTY:
Two-year limited warranty

**Indicator/Controller specifications*

Due to the variety of configurations, please consult the factory to discuss application requirements and for complete specifications and price quotations.

RICE LAKE WEIGHING SYSTEMS

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MotoWeigh® Grading and Sorting

Classifying Systems



STANDARD FEATURES

- Stainless steel construction options with food grade belting for harsh environments
- Designed for easy daily washdown and cleanup
- Hardware and software configured to your application needs
- Divert accuracy accomplished with distance-based encoding (not time based)
- Pull off diverts
- Multiple bin options
- Multiple slide options
- User friendly interface with multiple reports and sorting configurations

SPECIFICATIONS*

POWER:
Line voltages: 115 or 230 VAC
Frequency: 50 or 60 Hz
Power consumption: 340 mA, maximum @ 115 VAC (26 W) 240 mA @ 230 VAC (26 W)

EXCITATION VOLTAGE:
10 ± VDC, 16 x 350 Ω or 32 x 700 Ω load cells per A/D card

ANALOG SIGNAL INPUT RANGE:
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ANALOG SIGNAL SENSITIVITY:
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4.0 µV/graduation typical @ 960 Hz

A/D SAMPLE RATE:
7.5 to 960 Hz, software selectable

RESOLUTION:
Internal resolution: 8 million counts
Weight display resolution: 9,999,999

SYSTEM LINEARITY:
± 0.01% full scale

DIGITAL I/O:
Four I/O channels on CPU board; optional 24-channel I/O expansion boards available

CIRCUIT PROTECTION:
RFI, EMI, ESD protection

SERIAL PORTS:
Four ports on CPU board support up to 115,200 bps; optional dual-channel serial expansion boards available
Port 1: Full duplex RS-232
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Panel Mount enclosure: 8.5 lb (3.9 kg)
Deep Universal: 11 lb (5.0 kg)

KEYBOARD:
27-key membrane panel, tactile feel, PS/2 port for external keyboard connection

OPERATING TEMPERATURE:
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Industrial: 14°F to 122°F (-10°C to +50°C)

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NEMA 4X/IP66, stainless steel

APPROVALS:
CE marked
UL & C-UL listed (Universal, Deep & Wall Mount)
Custom Wall Mount approved for 508A (optional)
Panel Mount UL recognized

WARRANTY:
Two-year limited warranty

**Indicator/Controller specifications*

Due to the variety of configurations, please consult the factory to discuss application requirements and for complete specifications and price quotations.

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MotoWeigh®

Easy To Clean™ Conveyors



STANDARD FEATURES

- Clean in place applications
- Easily expandable sections
- Stainless direct food contact
- Food grade quality
- Angle iron leg construction for better sanitation practices
- Large opening and spacers for easy cleaning around belts and sprockets
- Minimized flat surfaces to prevent water or moisture build up
- Increased cleaning efficiencies
- Labor saving
- Height adjustable feet to +/- 3 inches
- Robust construction
- "L" shaped outer side sliders to contain modular belting
- Return shoulder rollers keep belt centered
- Multiple sections added together to form any length of conveyor

Options

- Belt washers
- Belt lifters for clean-while-running capability or liftable belt slackening ends
- Non-food grade versions available
- Optional side rails

Applications

- Food, meat, dairy products, fruits and vegetables, bottled fluids, canned products, raw or packaged product

Due to the variety of configurations, please consult the factory to discuss application requirements and for complete specifications and price quotations.

MotoWeigh®

Transport Conveyors



STANDARD FEATURES

- Labor saving
- Easy expandable sections
- Square tube legs
- Height adjustable feet to +/- 3 inches
- "L" shape outer side sliders to contain modular belting
- Return shoulder rollers keep belt centered
- Multiple sections added together to form any length of conveyor

Options

- Side rails
- Wheels

Applications

- Boxes, crates, cases, bottled fluids, canned products, any packaged products

Due to the variety of configurations, please consult the factory to discuss application requirements and for complete specifications and price quotations.

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MotoWeigh®

Automatic Barcode Labeling



STANDARD FEATURES

- Infeed pacing belt
- In-motion NTEP approved conveyor scale
- Outbound labeling conveyor
- Automatic label printer/applicator
- Automatic reject

Options

- Automatic case indexing (product dependent)
- Pre ID scanning
- Verification scanning
- Multiple sorting diverts

Applications

- Boxed, crated, cased products, barcode labeling, and RFID capable

SPECIFICATIONS*

POWER:
Line voltages: 115 or 230 VAC
Frequency: 50 or 60 Hz
Power consumption: 340 mA, maximum @ 115 VAC (26 W) 240 mA @ 230 VAC (26 W)

EXCITATION VOLTAGE:
10 ± VDC, 16 x 350 Ω or 32 x 700 Ω load cells per A/D card

ANALOG SIGNAL INPUT RANGE:
-10 mV to +45 mV

ANALOG SIGNAL SENSITIVITY:
0.3 µV/graduation minimum @ 7.5 Hz
1.0 µV/graduation typical @ 120 Hz
4.0 µV/graduation typical @ 960 Hz

A/D SAMPLE RATE:
7.5 to 960 Hz, software selectable

RESOLUTION:
Internal resolution: 8 million counts
Weight display resolution: 9,999,999

SYSTEM LINEARITY:
± 0.01% full scale

DIGITAL I/O:
Four I/O channels on CPU board; optional 24-channel I/O expansion boards available

CIRCUIT PROTECTION:
RFI, EMI, ESD protection

SERIAL PORTS:
Four ports on CPU board support up to 115,200 bps; optional dual-channel serial expansion boards available
Port 1: Full duplex RS-232
Port 2: RS-232 with CTS/RTS; PS/2 keyboard interface via DB-9 connector
Port 3: Full duplex RS-232, 20 mA output
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WEIGHT:
Universal enclosure: 9.5 lb (4.3 kg)
Panel Mount enclosure: 8.5 lb (3.9 kg)
Deep Universal: 11 lb (5.0 kg)

KEYBOARD:
27-key membrane panel, tactile feel, PS/2 port for external keyboard connection

OPERATING TEMPERATURE:
Legal: 14°F to 104°F (-10°C to +40°C)
Industrial: 14°F to 122°F (-10°C to +50°C)

RATING/MATERIAL:
NEMA 4X/IP66, stainless steel

APPROVALS:
CE marked
UL & C-UL listed (Universal, Deep & Wall Mount)
Custom Wall Mount approved for 508A (optional)
Panel Mount UL recognized

WARRANTY:
Two-year limited warranty

**Indicator/Controller specifications*

Due to the variety of configurations, please consult the factory to discuss application requirements and for complete specifications and price quotations.

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MotoWeigh® Stainless Steel Carts



STANDARD FEATURES

- 304 stainless construction
- Continuous TIG welds
- Locking casters with plus or minus three inches of adjustment
- Built to your needs
- Easy rolling cushioned wheels

Applications

- Manual labeling, Printers, Computers, human machine interfacing, various mobile workstations, environmentally sensitive equipment

Due to the variety of configurations, please consult the factory to discuss application requirements and for complete specifications and price quotations.

MotoWeigh® Stainless Steel Tables



STANDARD FEATURES

- Clean-in-place
- Food grade quality
- 304 stainless steel construction for better sanitation practices
- Continuous TIG welds
- Built to your specifications

Options

- Sizes
- Casters

Applications

- Trim, deboning and cutting lines; product preparation; work tables

Due to the variety of configurations, please consult the factory to discuss application requirements and for complete specifications and price quotations.

MotoWeigh® Enclosures



STANDARD FEATURES

- NEMA 4X rating
- 304 stainless steel construction
- Continuous TIG welds
- Washdown rain gutter-style door seal
- Quick open latch
- Smooth finish

Options

- 270° swing top-hinged door
- Bottom, right or left side hinge
- Plexi-glass window in door
- Stainless steel shelves and dividers
- Pull-out drawer for quick access to equipment

Applications

Protects: monitors, printers, computers, mouse, keyboards, scanners, weight indicators, and other electronic equipment

Due to the variety of configurations, please consult the factory to discuss application requirements and for complete specifications and price quotations.

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UPA II

Labeling Systems



STANDARD FEATURES

- Programmable Logic Controller (PLC) enhances operational interface capabilities
- "Quick change" tamp head
- Removable tamp assembly for easy access to print engine
- Ribbon and label low/out indicators
- Photoelectric product sensor
- 12in roll capacity, 3in core
- Product ON delay
- RFID (optional)

Options

- Label on head detection
- Light tree system fault indicators
- External signal output
- Tamp/blow applicator
- Wipe-on applicator

SPECIFICATIONS

PRINTER TYPE:
Direct thermal/thermal transfer

PRINT SPEED:
Sato 84XXSE Series & Zebra Pax Series:
12ips (203dpi)
8ips (300dpi)
Datamax A Class:
12ips (203dpi), 10ips (300dpi)
8ips (406dpi), 6ips (600dpi)
Avery DPM Series: 14ips (300dpi)

PRINT RESOLUTION:
Sato 84XXSE Series & Zebra Pax Series:
203/300dpi
Datamax A Class:
203/300/406/600dpi
Avery DPM Series: 300dpi

RIBBON SAVER:
Sato 84XXSE Series & Zebra Pax Series: N/A
Datamax A Class: optional
Avery DPM Series: standard

MEDIA SIZE
Sato 84XXSE Series:
Max. 6.5in W x 14in L
Zebra Pax Series & Datamax A Series: Max. 7.1in W x 14in L
Avery DPM Series: Max. 7.5in W x 14in L

MAXIMUM PRINT AREA:
Sato 84XXSE Series: 6in wide
Zebra Pax Series & Datamax A Series:
6.6in wide
Avery DPM Series: 6.3in wide

FONTS:
Sato 84XXSE Series: 12 internal
Zebra Pax Series & Datamax A Series:
9 internal
Avery DPM Series: 17 internal

BAR CODE SYMBOLOGY:
Sato 84XXSE Series & Avery DPM Series: 18, incl. 2-D codes
Zebra Pax Series: 26, incl. 2-D codes
Datamax A Class: 27, incl. 2-D codes

COMMUNICATION:
RS-232, Parallel (Centronics), Ethernet (optional), Wireless (optional)

ENVIRONMENT:
Operating 41-104ºF
85% relative humidity

RFID:
Optional

DESCRIPTION	PRICE
UPA II Modular Label Applicator	Consult Factory

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Notes

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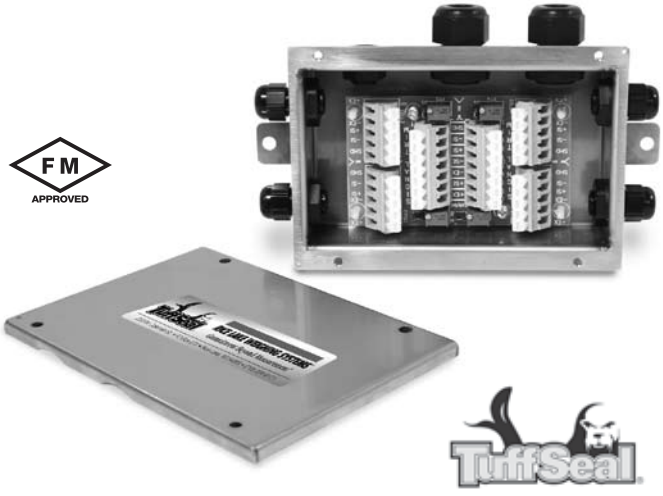
JB4SS
TuffSeal® Signal Trim **JB-2**
JB4ES
TuffSeal® Excitation Trim **JB-3**
JB4SP and JB4SPT
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EL504
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TuffSeal® Signal Trim **JB-8**
JB8SPT
TuffSeal® Signal Trim **JB-9**
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JB1010
Signal/Excitation Trim with Transient Protection **JB-11**
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TP75 DC
Transient Protection **JB-18**
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TP232 RS-232
High Energy Serial Protection **JB-20**

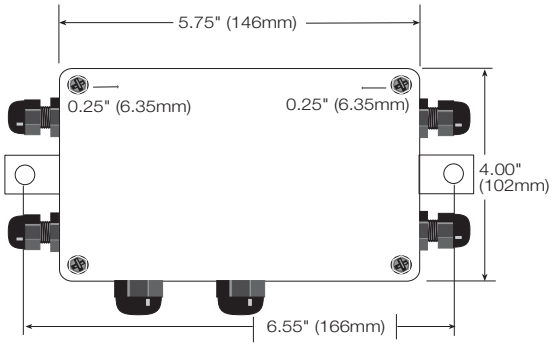
SIMULATORS

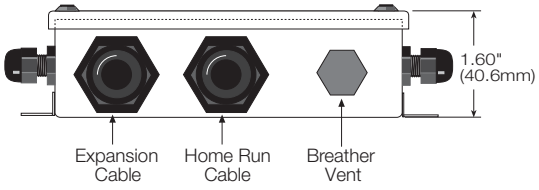
Ranger 1
Variable Range **JB-21**
Ranger 3
Calibration **JB-21**
Ranger 5
Calibration/Transducer **JB-22**
Transducer Simulator **JB-22**

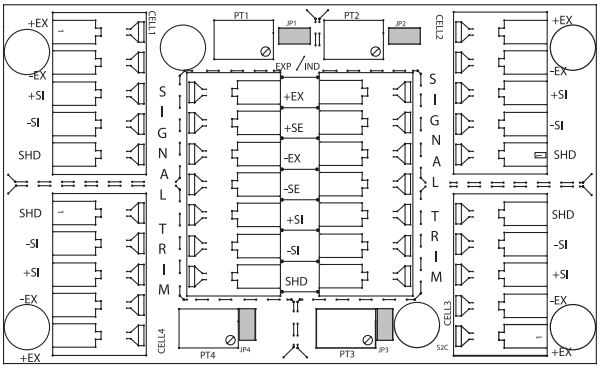
JB4SS

TuffSeal® Signal Trim Junction Box









APPLICATIONS:

Floor, tank, hopper scales

STANDARD FEATURES:

Stainless steel, NEMA 4X enclosure
Shunt jumpers to disable a load cell
Prevent™ breather vent
Conformal coated circuit board
Number of cells: 2 to 4 single cells
Expansion port

SPECIFICATIONS:

Cable Fittings:	(4) PG7 0.118-0.255 strain relief (2) PG11 0.197-0.394 strain relief (1) Prevent™ breather vent
Enclosure:	Stainless Steel NEMA 4X
Connectors:	Spring clamp screwless, 12-28 AWG
Trimming:	Individual cell, signal trim, ranges zero trim 12.49K-100K ohms with 2.49K ohms isolation resistors
Potentiometers:	100K ohm, 25 turn cermet
Circuit Board:	3.8" x 2.3" (96.5mm x 58.4mm), with conformal coating
Warranty:	One-year limited warranty

JB4SS Order Information

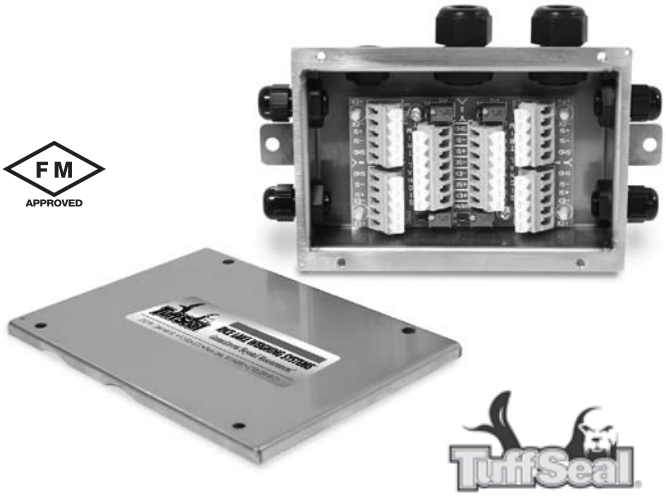
Part #	Description	Price
88956	JB4SS signal trim junction box	$235.00
88958	Board only	$150.00

Please refer to page 389-390 for replacement board

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JB4ES

TuffSeal® Excitation Trim Junction Box



APPLICATIONS:

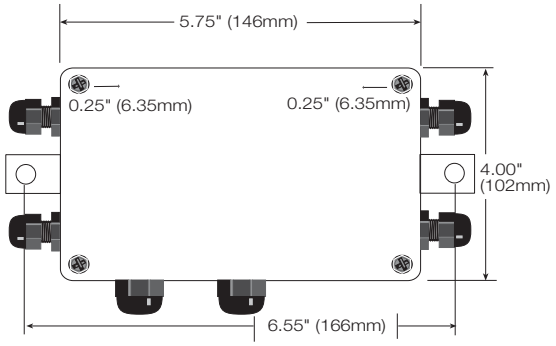
Floor, tank, hopper scales

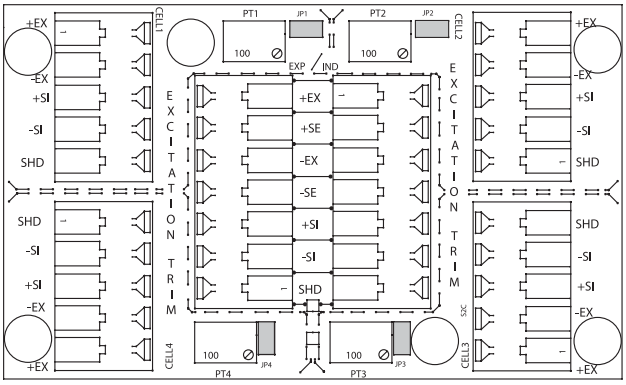
STANDARD FEATURES:

Stainless steel, NEMA 4X enclosure
Shunt jumpers to disable a load cell
Prevent™ breather vent
Conformal coated circuit board
Number of cells: 2 to 4 single cells
Expansion port

SPECIFICATIONS:

Cable Fittings:	(4) PG7 0.118-0.255 strain relief (2) PG11 0.197-0.394 strain relief (1) Prevent™ breather vent
Enclosure:	Stainless Steel NEMA 4X
Connectors:	Spring clamp screwless, 12-28 AWG
Trimming:	Individual cell, excitation trim, ranges zero trim 0-37 ohms, 0-100 ohms
Potentiometers:	100 ohm, 25 turn cermet
Circuit Board:	3.8" x 2.3" (96.5mm x 58.4mm), with conformal coating
Warranty:	One-year limited warranty





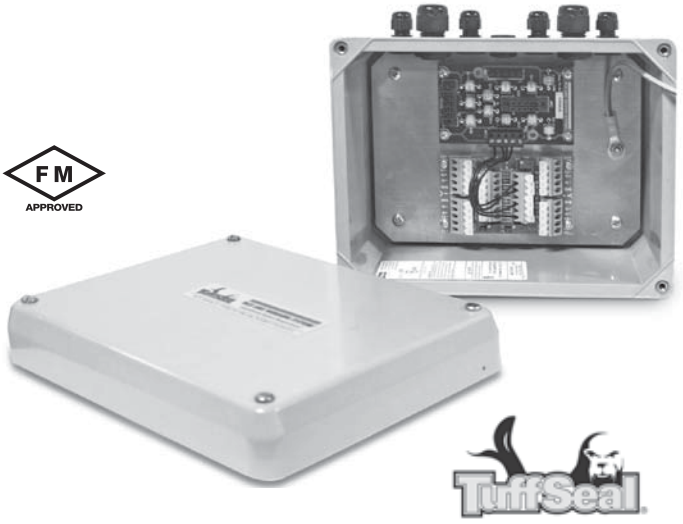
JB4ES Order Information

Part #	Description	Price
91779	JB4ES excitation trim junction box	$235.00
89446	Board only	$150.00

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JB4SP and JB4SPT

TuffSeal® Signal Trim Junction Box



APPLICATIONS:

Tank and hopper scales

STANDARD FEATURES:

Fiberglass Reinforced Polyester (FRP) (NEMA 4X) enclosure with stainless steel cover screws

Shunt jumpers to disable a load cell

Prevent™ breather vent

Conformal coated circuit board

Number of cells: 2 to 4 single cells

Expansion port

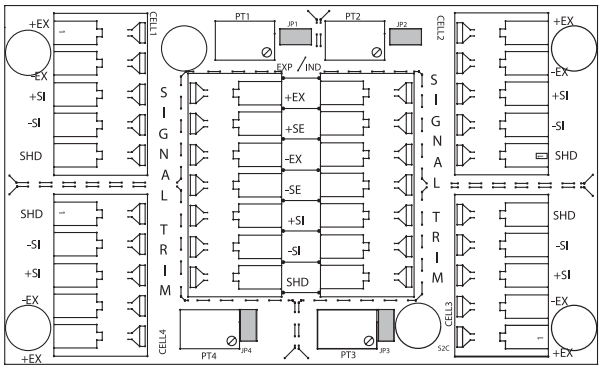
SPECIFICATIONS:

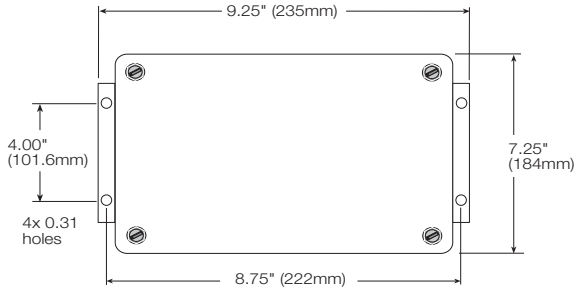
Cable Fittings:	(4) PG7 0.118-0.255 strain relief (2) PG11 0.197-0.394 strain relief (1) Prevent™ breather vent
Enclosure:	Molded FRP (NEMA 4X) enclosure with overlapping solid cover, stainless steel screws
Connectors:	Spring clamp screwless, 12-28 AWG
Trimming:	Individual cell, signal trim, ranges zero trim 12.49K-100K ohms with 2.49K ohms isolation resistors
Potentiometers:	100K ohm, 25 turn cermet
Circuit Board:	3.8" x 2.3" (96.5mm x 58.4mm), with conformal coating
Warranty:	One-year limited warranty

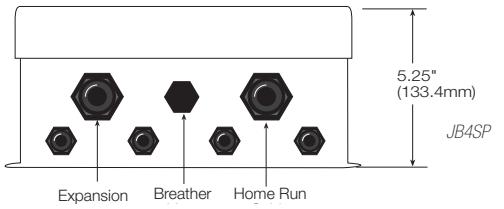
JB4SP and JB4SPT Order Information

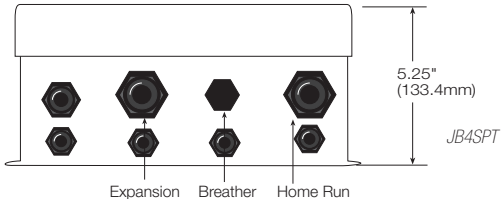
Part #	Description	Price
91780	JB4SP signal trim 4-channel w/expansion	$255.00
92762	JB4SPT signal trim with transient protection	$445.00
88958	Board only	$150.00
89894	Transient board	$215.00

Please refer to page 389-390 for replacement board





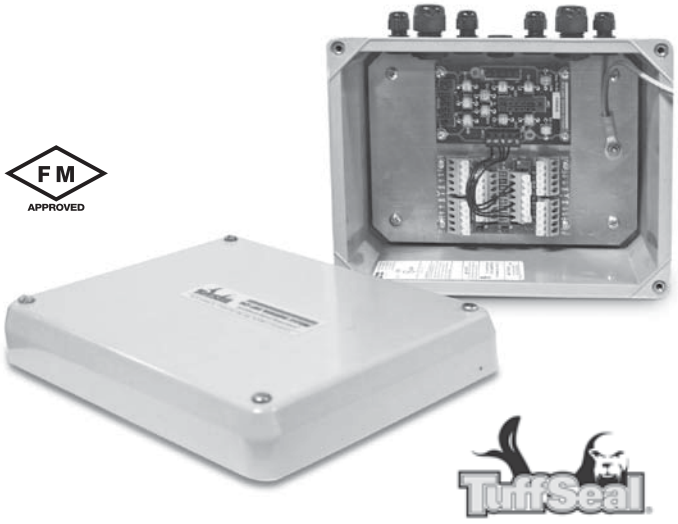




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JB4EP and JB4EPT

TuffSeal® Excitation Trim Junction Box



APPLICATIONS:

Tank and hopper scales

STANDARD FEATURES:

Fiberglass Reinforced Polyester (FRP) (NEMA 4X) enclosure with stainless steel cover screws

Shunt jumpers to disable a load cell

Prevent™ breather vent

Conformal coated circuit board

Number of cells: 2 to 4 single cells

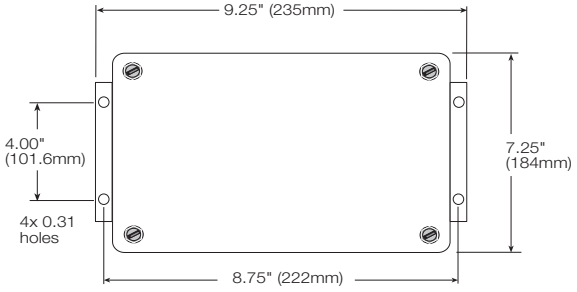
Expansion port

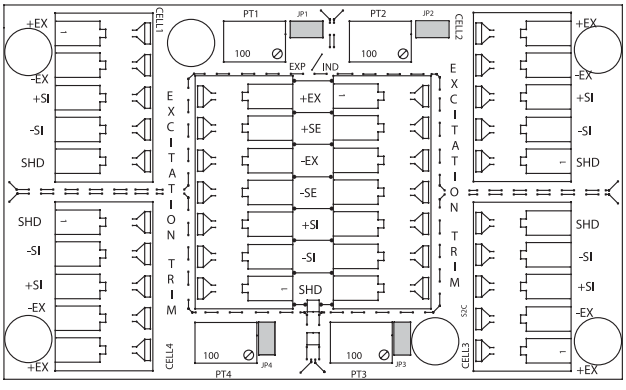
SPECIFICATIONS:

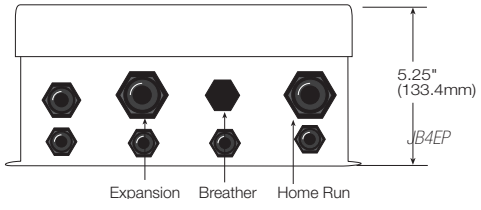
Cable Fittings:	(4) PG7 0.118-0.255 strain relief (2) PG11 0.197-0.394 strain relief (1) Prevent™ breather vent
Enclosure:	Molded FRP (NEMA 4X) enclosure with overlapping solid cover, stainless steel screws
Connectors:	Spring clamp screwless, 12-28 AWG
Trimming:	Individual cell, excitation trim, ranges zero trim 0-37 ohms, 0-100 ohms
Potentiometers:	100 ohm, 25 turn cermet
Circuit Board:	3.8" x 2.3" (96.5mm x 58.4mm), with conformal coating
Warranty:	One-year limited warranty

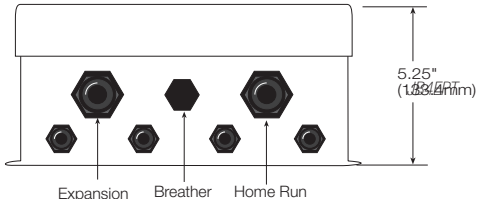
JB4EP and JB4EPT Order Information

Part #	Description	Price
91781	JB4EP excitation trim junction box	$255.00
92763	JB4EPT excitation trim junction box w/ transient protection	$445.00
89446	Board only	$150.00
89894	Transient board	$215.00





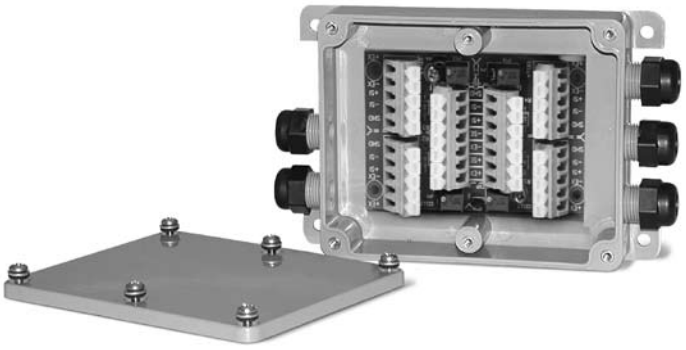




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EL204

Signal Trim Junction Box



APPLICATIONS:

Floor, hopper, tank or livestock applications

STANDARD FEATURES:

ABS enclosure with molded-in cable fittings

Premium screw terminals

Dale 3296 25-turn cermet potentiometers

6-screw attachment to lid, die cut gasket for superior environment protection

Number of cells: 2 to 4 single cells

SPECIFICATIONS:

Cable Fittings: Five water tight nylon compression fittings, 0.210"–0.280" (5.3 mm x 7.1 mm)

Connectors: Spring clamp screwless, 12-28 AWG

Trimming: Individual cell trim, signal trim, ranged zero trim 12.49K-100K ohms with 2.49K ohms isolation resistors

Potentiometers: 100K ohm, 25 turn cermet

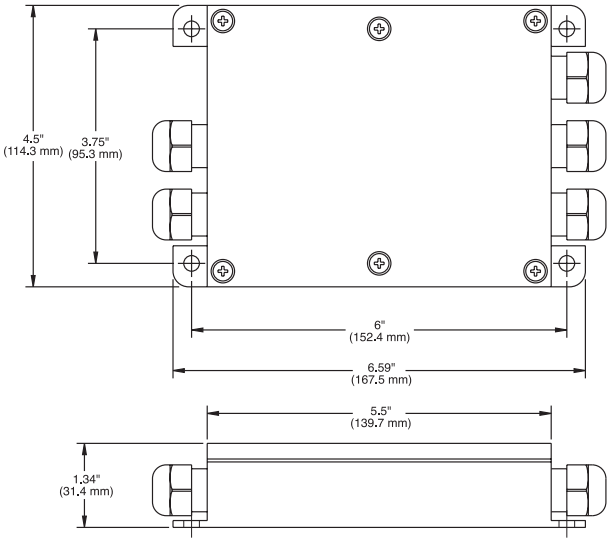
Enclosure: ABS with molded through-fittings, sealed 6-screw lid

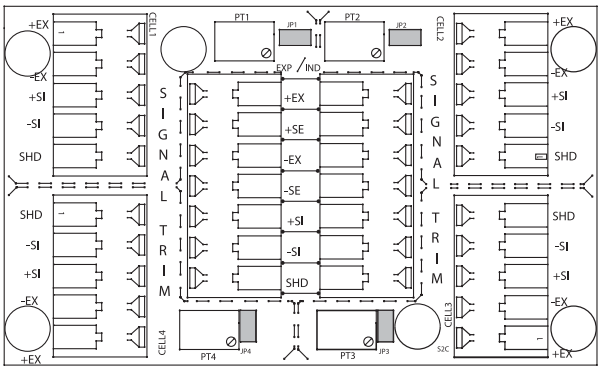
Circuit Board: 3.8" x 2.3" (96.5mm x 58.4mm); with conformal coating

Warranty: One-year limited warranty

EL204 Order Information

Part #	Description	Price
73428	EL204 junction box	$185.00



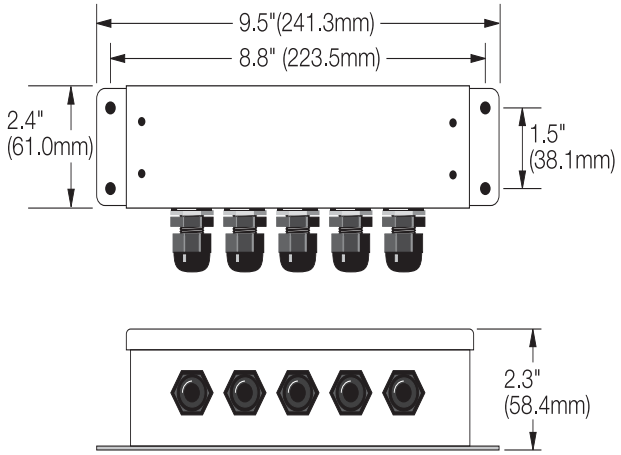


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EL504

Signal Trim Junction Box





APPLICATIONS:

Truck scales
Floor scales
Limited space installations

STANDARD FEATURES:

Stainless steel, NEMA 4X enclosure
Strain relief cable fittings
Removable connectors for easy wiring
Number of cells: 2 to 4 single cells (even number of cells only)
Any unused channels require modification

SPECIFICATIONS:

Cable Fittings:	(5) nylon 0.187"-0.312" (4.7 mm-7.9 mm) cable strain reliefs
Connectors:	Electrovert 0.197" (5.0 mm) miniature two piece connectors. Maximum wire size #14 AWG, connectors are removable for easy wiring.
Trimming:	Individual cell trim, signal trim, 2.5K ohms isolation resistors with a 10K limiting resistor
Potentiometers:	100K ohms, 25-turn cermet
Enclosure:	Stainless steel NEMA 4X, 40 PSI washdown
Circuit Board:	6.5" x 1.5" (165.1 mm x 38.1 mm) with anti-fungal coating

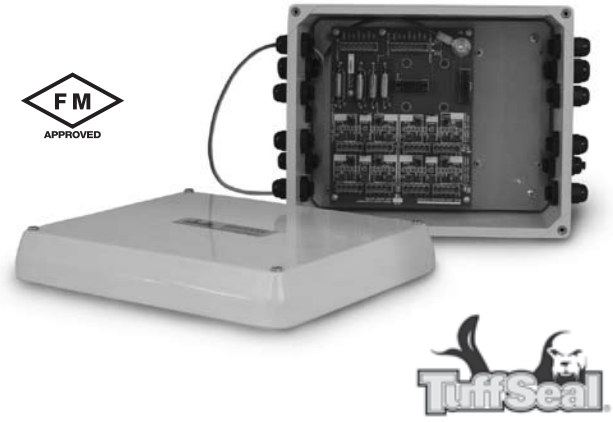
EL504 Order Information

Part #	Description	Price
21165	EL504 signal trim junction box	$325.00
21296	Board only	$255.00

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JB8SP

TuffSeal® Signal Trim Junction Box



APPLICATIONS:

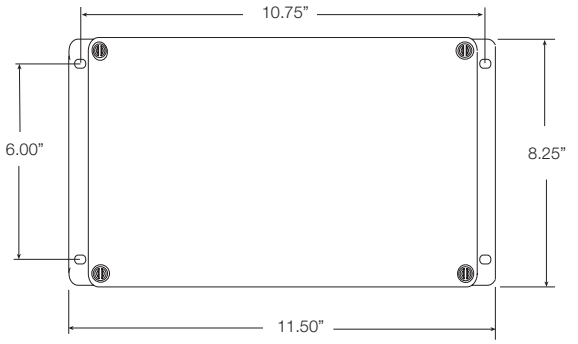
Truck, livestock and railroad scales

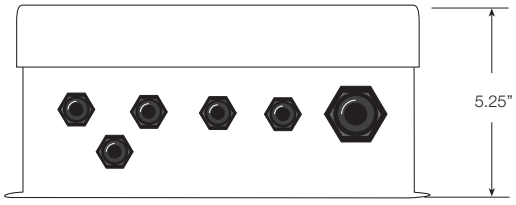
STANDARD FEATURES:

Fiberglass Reinforced Polyester (FRP) (NEMA 4X) enclosure
Shunt jumpers to disable a load cell
Prevent™ breather vent
Conformal coated circuit board
Removable load cell connectors
Section and individual cell trim capability
Number of cells: 2, 4, 6 or 8 single load cells (even number only
Expansion port

SPECIFICATIONS:

Cable Fittings:	(9) 3/8" NPT 0.157"-0.314" (2) 1/2" NPT 0.272"-0.472" (1) Prevent™ breather unit
Enclosure:	Molded FRP (NEMA 4X) enclosure with overlapping solid cover, stainless steel screws
Connectors:	Pluggable screw type, 12-28 AWG
Trimming:	Individual cell trim, range 24.9K - 124.9K ohms, 9.8K ohm isolation Section trim, range 24K-124K ohms, 4.98K ohm isolation
Potentiometers:	100K ohm, 25 turn cermet
Circuit Board:	5.7" x 7.2" with conformal coating
Warranty:	1-year warranty



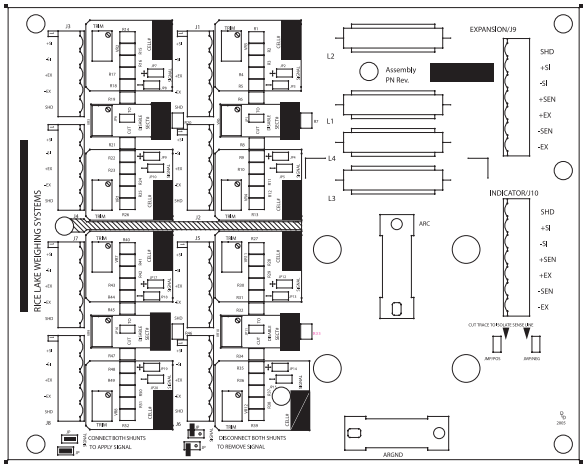


JB8SP Order Information

Part #	Description	Price
91782	JB8SP signal trim 8-channel w/expansion	$425.00
89889	Board only	$365.00

OPTIONS/ACCESSORIES

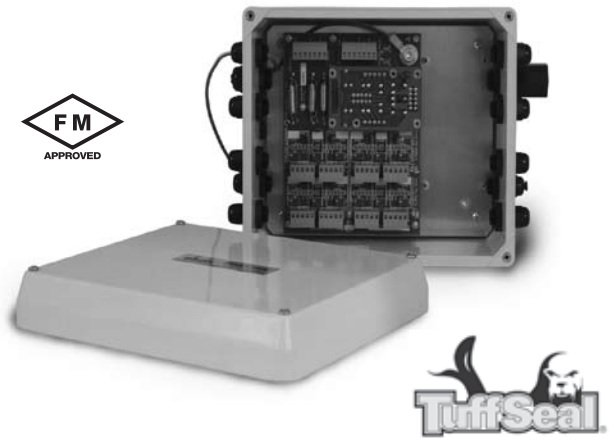
Part #	Description	Price
92734	Coupling, 1/2" NPT cord grip to 3/4" NPT conduit fitting	$25.00
92735	Coupling, 3/8" NPT cord grip to 3/4" NPT conduit fitting	$25.00



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JB8SPT

TuffSeal® Signal Trim Junction Box



APPLICATIONS:

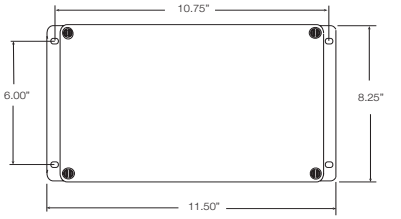
Truck, livestock and railroad scales

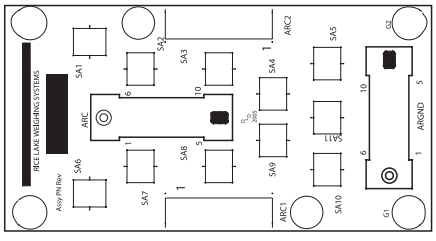
STANDARD FEATURES:

Fiberglass Reinforced Polyester (FRP) (NEMA 4X) enclosure
Shunt jumpers to disable a load cell
Prevent™ breather vent
Conformal coated circuit board
Removable load cell connectors
Section and individual cell trim capability
Field replaceable transient protection
(1) coupling, 1/2 NPT cord grip to 3/4" NPT conduit fitting for homerun cable
Number of cells: 2,4,6 or 8 single load cells (even number only)
Expansion board

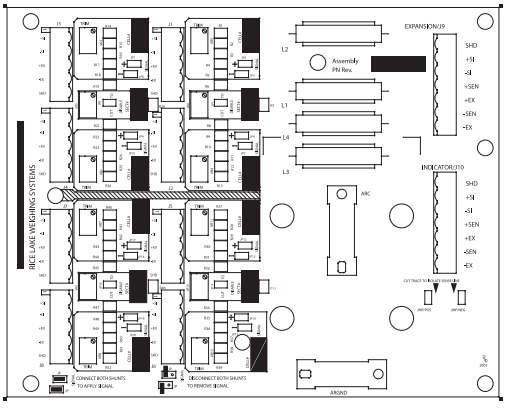
SPECIFICATIONS:

Cable Fittings:	(9) 3/8" NPT 0.157"-0.314" (2) 1/2" NPT 0.272"-0.472" (1) Prevent™ breather unit
Enclosure:	Molded FRP (NEMA 4X) enclosure with overlapping solid cover, stainless steel screws
Connectors:	Pluggable screw type, 12-28 AWG
Trimming:	Individual cell trim, range 24.9K - 124.9K ohms, 9.8K ohm isolation Section trim, range 24K-124K ohms, 4.98K ohm isolation
Potentiometers:	100K ohm, 25 turn cermet
Circuit Board:	5.7" x 7.2" with conformal coating
Warranty:	1-year warranty





Transient Board



Load Cell Board

JB8SPT Order Information

Part #	Description	Price
91783	JB8SPT signal trim junction box with transient protection	$625.00
89889	Board only	$365.00
89894	Transient board	$215.00

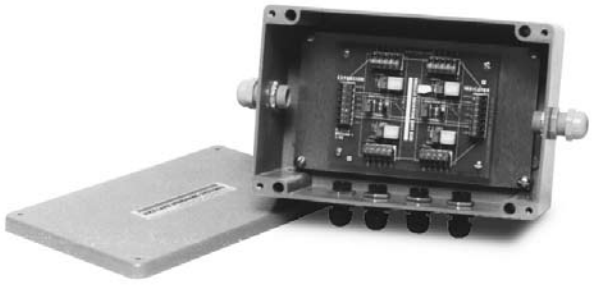
OPTIONS/ACCESSORIES

Part #	Description	Price
92734	Coupling, 1/2" NPT cord grip to 3/4" NPT conduit fitting	$25.00
92735	Coupling, 3/8" NPT cord grip to 3/4" NPT conduit fitting	$25.00

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EL304A

Signal Trim Junction Box



APPLICATIONS:

Livestock scales
Tank and vessel weighing
Corner and/or section trim applications

STANDARD FEATURES:

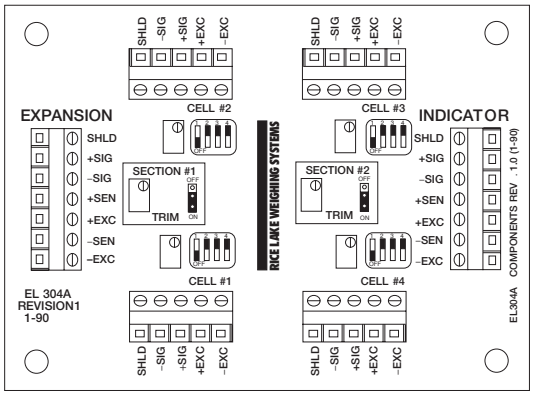
NEMA 4X Fiberglass-Reinforced Polyester (FRP) enclosure
Strain relief cable fittings
Individual cell signal disconnect switches
Number of cells: 2 to 4 single cells (even number of cells only)
Expansion port

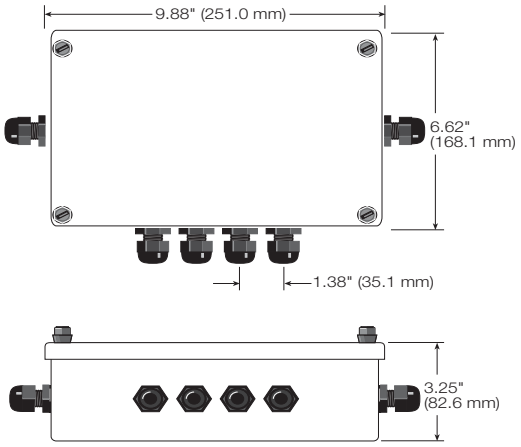
SPECIFICATIONS:

Cable Fittings:	4 nylon cable strain reliefs 0.079"-0.236" (2.0 mm-6.0 mm) 2 nylon cable strain reliefs 0.236"-0.354" (6.0 mm-9.0 mm)
Connectors:	Electrovert 0.197" (5.0 mm) miniature screw terminals. Maximum wire size #14 AWG
Trimming:	Individual cell & section, signal trim, 2.5K ohms isolation resistors, switch selectable limiting resistors
Potentiometers:	100K ohms, 25-turn cermet
Enclosure:	FRP NEMA 4X, 40 psi washdown
Circuit Board:	5.5" x 4" (139.7 mm x 101.6 mm) with anti-fungal coating
Warranty:	One-year limited warranty

EL304A Order Information

Part #	Description	Price
21169	EL304A signal trim 4-channel junction box	$295.00
21301	Board only	$215.00





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JB1010

Signal/Excitation Trim Junction Box with Transient Protection



APPLICATIONS:

Tank, truck, railroad, hopper and floor scales
Universal field replacement of existing boxes
Paralleling load cells
Expansion of existing scales

STANDARD FEATURES:

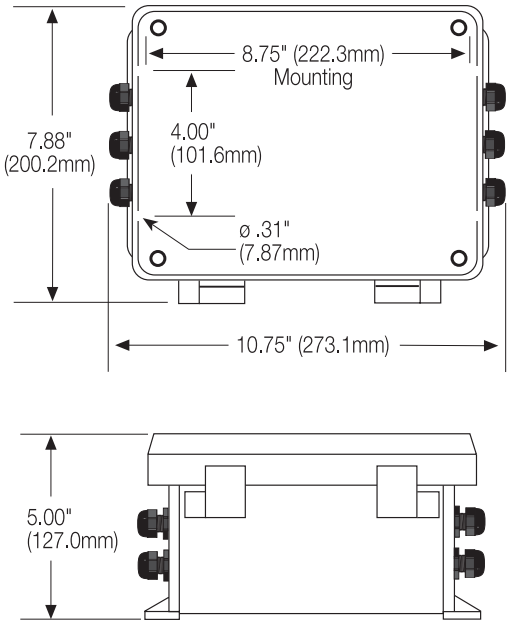
NEMA 4X Fiberglass-Reinforced Polyester (FRP) enclosure
Load cell transient protection
Signal or excitation trim
Front panel mounting
Strain relief cable fittings
Number of cells: 1 through 10 with expansion
Trims odd numbers of cells without modification

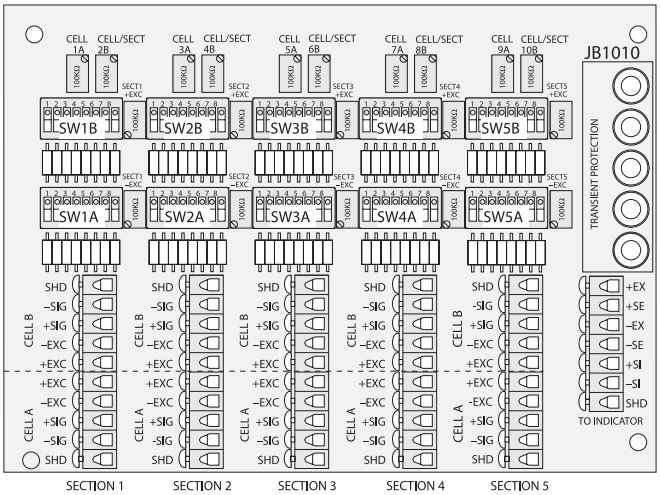
SPECIFICATIONS:

Mounting Centers:	3.75" x 2.31" (95.2 mm x 58.7 mm)
Cable Fittings:	Nylon waterproof strain-relief type
Cable Diameter:	0.079"-0.314" (2.0 mm-8.0 mm)
Terminal Block:	Rated 300 V/15A; 7-position screw terminal can each accommodate up to #16 AWG
Warranty:	One-year limited warranty

JB1010 Order Information

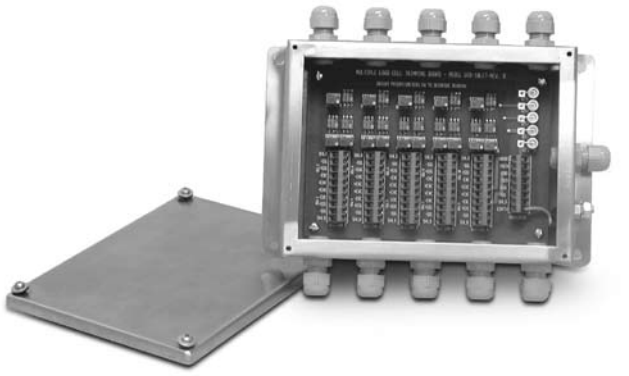
Part #	Description	Price
36231	JB 1010 signal/excitation trim junction box	$650.00
36351	Board only	$455.00





JB1010ST

Signal Trim Junction Box with Transient Protection



APPLICATIONS:

Tank, truck and railroad scales

Summing 10 load cells with individual and section trimming capability

STANDARD FEATURES:

NEMA 4X stainless steel enclosure

Transient protection using gas discharge tubes

Section and individual cell trim capability

Compact enclosure only 1.75" deep

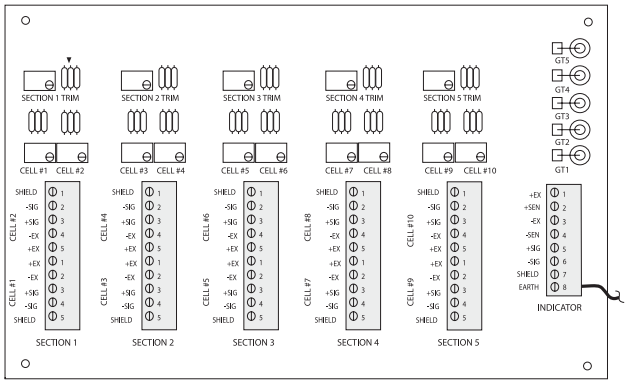
Strain relief cable fitting

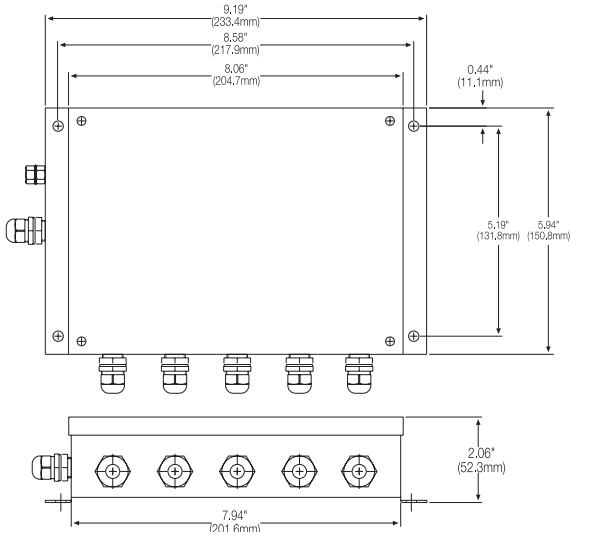
Number of cells: 2, 4, 6, 8 or 10 single load cells

Any unused channels require modification)

SPECIFICATIONS:

Cable Fittings:	11 nylon cable strain relief for cable dimension range: 0.079 to 0.314
Connectors:	Electrovert 0.197 miniature screw terminals, 5-positions
	Maximum wire size: #14 AWG
	External enclosure ground stud
Trimming:	Individual cell & section signal trim, 2.5 K Ω isolation resistors
Potentiometers:	100K Ω, 25 turns cermet
Enclosure:	Stainless steel
Circuit Board:	6.5" x 4.5" (165.1 mm x 114.3 mm)
Warranty:	One-year limited warranty





JB1010ST Order Information

Part #	Description	Price
68813	JB 1010ST signal trim junction box	$575.00
68811	Board only	$435.00

Please refer to page 389-390 for replacement board

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Replacement Junction Boxes, Boards or Components

Model	Complete Junction Box Replacement	Price Replacement J-boxes	Replacement Board Only	Price For Replacement Board Only	Replacement Cord Grips	Price For Cord Grips	Replacement Pressure & Condensation Vent	Price For Replacement Pressure & Calibration Vent	Desiccant Packs	Price Desiccant Packs
JB4SS	88956	$235.00	88958	$150.00	58983=PG7, 59001=PG11	$4.00 $3.70	88733 Prevent™ breather (vent) & 88734 (vent nut)	$22.00 $1.05	92240	$1.00
JB4ES	91779	$235.00	89446	$150.00	58983=PG7, 59001=PG11	$4.00 $3.70	88733 Prevent™ breather (vent) & 88734 (vent nut)	$22.00 $1.05	92240	$1.00
JB4SP **JB4SPT**	91780 92762	$255.00 $445.00	88958 (load cell) & 89894 (transient protection)	$150.00 $215.00	58983=PG7, 59001=PG11	$4.00 $3.70	88733 Prevent™ breather (vent) & 88734 (vent nut)	$22.00 $1.05	16039	$1.90
JB4EP **JB4EPT**	91781 92763	$255.00 $445.00	89446 (load cell) & 89894 (transient protection)	$150.00 $215.00	58983=PG7, 59001=PG11	$4.00 $3.70	88733 Prevent™ breather (vent) & 88734 (vent nut)	$22.00 $1.05	16039	$1.90
EL204	73428	$185.00	88958	$150.00	N/A	-	N/A	-	N/A	-
JB8SP	91782	$425.00	89889	$365.00	15655(cordgrip)& 15656 (nut)=3/8" NPT15628 (cord grip) & 15630 (nut)=1/2" NPT	$2.10 $1.05 $4.00 $3.00	88733 Prevent™ breather (vent) & 88734 (vent nut)	$22.00 $1.05	16039	$1.90
JB8SPT	91783	$625.00	89889 (load cell) & 89894 (transient protection)	$365.00 $215.00	15655(cordgrip)& 15656 (nut)=3/8" NPT 15628 (cord grip) & 15630 (nut)=1/2"NPT	$2.10 $1.05 $4.00 $3.00	88733 Prevent™ breather (vent) & 88734 (vent nut)	$22.00 $1.05	16039	$1.90
EL304A	21169	$295.00	21301	$215.00	N/A	-	N/A	-	N/A	-
JB1010	36231	$650.00	36351	$455.00	N/A	-	N/A	-	N/A	-
JB1010ST	68813	$575.00	68811	$435.00	N/A	-	N/A	-	N/A	-
EL210	91781, JB4EP*	$255.00	92472	$155.00	58983=PG7, 59001=PG11	$4.00 $3.70	N/A	-	N/A	-

** See catalog pages for enclosure dimensions*

Continued on next page

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Replacement Junction Boxes, Boards, or Components

Model	Replacement Junction Boxes	Price For Replacement J-boxes	Replacement Board Only	Price For Replacement Board Only	Replacement Cord Grips	Price For Cord Grips	Replacement Pressure & Condensation Vent	Price For Replacement Pressure & Calibration Vent	Desiccant Packs	Price Desiccant Packs
EL211A	91780, JB4SP (However the board does not have section trim capabilities)*	$255.00	92473, (However the board does not have section trim capabilities)	$160.00	58983=PG7, 59001=PG11	$4.00 $3.70	N/A	-	N/A	-
EL604-AL	88956, JB4SS*	$235.00	88958	$150.00	58983=PG7, 59001=PG11	$4.00 $3.70	N/A	-	N/A	-
EL604STA	88956, JB4SS*	$235.00	88958	$150.00	58983=PG7, 59001=PG11	$4.00 $3.70	N/A	-	N/A	-
EL604ETA	91779, JB4ES*	$235.00	89446	$150.00	58983=PG7, 59001=PG11	$4.00 $3.70	N/A	-	N/A	-
EL504	21165	$325.00	21296	$255.00	N/A	-	N/A	-	N/A	-
JB808S	91782, JB8SP*	$425.00	92471	$385.00	15655 (cord grip) & 15656 (nut)= 3/8" NPT 15628 (cord grip) & 15630 (nut)= 1/2" NPT	$2.10 $1.05 $4.00 $3.00	N/A	-	N/A	-
JB818ST	91783, JB8SPT*	$625.00	Need (1) 77445 (1) 89889, and (1) 89894	$55.00 $365.00 $215.00	15655 (cord grip) & 15656 (nut)= 3/8" NPT15628 (cord grip) & 15630 (nut)= 1/2" NPT	$2.10 $1.05 $4.00 $3.00	N/A	-	N/A	-

** See catalog pages for enclosure dimensions*

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iQUBE²®

Digital Diagnostic Junction Box



SPECIFICATIONS

iQUBE²

Enclosure:	NEMA 4X FRP or stainless steel
Voltage Input:	115/230 VAC to power supply 6 -12 VDC to CPU DC/DC converter
Load Cell Inputs:	4 channels per board Up to 4 networked boards
A/D Sampling Rate:	2.5-500 Hz (selectable)
Temperature Range:	14°F to 104°F (-10°C to 40°C)
Analog signal sensitivity:	0.3 uV/grad @ 30 Hz 0.5 uV/grad @ 100 Hz 1.2uV/grad @ 500 Hz
Load Cell Excitation:	5 VDC, 57 mA maximum per channel
Analog range:	-4.5 mV/V to +4.5 mV/V
Approvals:	NTEP 03-032A1 Measurement Canada - pending UL E151461 CE
Warranty:	Two-year limited warranty

APPLICATIONS:

Mission critical weighing processes, including:

Truck and railroad track scales

Tank and hopper scales

Floor and bench scales

STANDARD FEATURES:

Enclosure includes four channel boards with or without power supply

NEMA 4X polyester or stainless steel enclosure

Up to 16 load cells can be connected

Connection can be up to four separate platforms with a system total, or four separate scales systems

Diagnostic routines for weighing errors and system health

Tests for zero return, linearity, and drift

Onboard status LED's for communications and visual bi-color indication of cell health

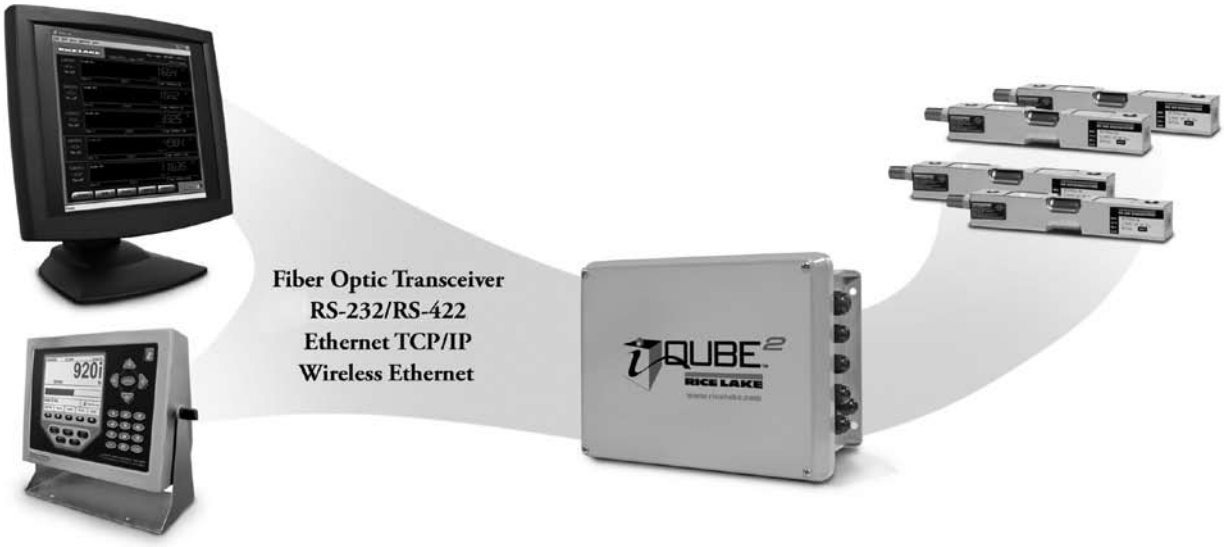
Cell Emulator compensates for load cell failure until a repair can be made

Cal-Match™ algorithm automatically trims and calibrates the scale in one pass of test weights (stopping over each mount)

Standard communication RS-422. Option card slot for Fiber Optic, Ethernet TCP/ IP or Wireless TPC/IP.

Four digital I/O per card, for push button operation, control, or remote cell status

Sample Configurations*



** Not an actual system—illustrates connectivity*

iQUBE^2®

Digital Diagnostic Junction Box

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
Without Power Supply			
108429	iQUBE^2, 4-channel, FRP 8 x 10 in junction box	8 lb	$850.00
108430	iQUBE^2, 4-channel, FRP 10 x 12 in junction box	10 lb	$950.00
108431	iQUBE^2, 8-channel, FRP 10 x 12 in junction box	10 lb	$1,600.00
108432	iQUBE^2, 4-channel, stainless steel 8 x 10 in junction box	12 lb	$1,445.00
With AC Power Supply			
108425	iQUBE^2, 4-channel, FRP 8 x 10 in junction box	9 lb	$950.00
108426	iQUBE^2, 4-channel, FRP 10 x 12 in junction box	11 lb	$1,050.00
108427	iQUBE^2, 8-channel, FRP 10 x 12 in junction box	11 lb	$1,700.00
108428	iQUBE^2, 4-channel, stainless steel 8 x 10 in junction box	13 lb	$1,550.00

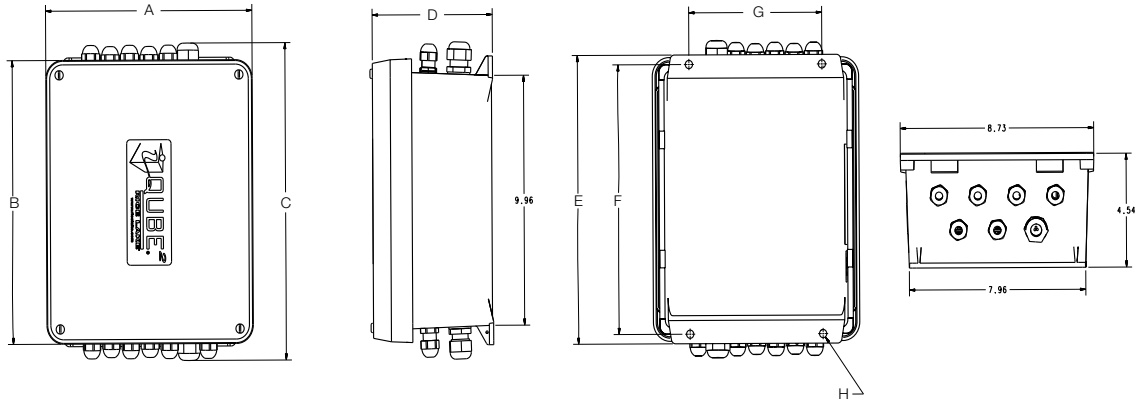
OPTIONS/ACCESSORIES

108433	Four channel iQUBE^2 board with cables and connectors	$650.00
97475	DC/DC converter kit, 9-36 VDC (requires factory installation)	$150.00
108434	115/230 VAC remote power supply and transient board with enclosure	$250.00
109396	Transient board	$50.00
110949	Transient board with mount	$60.00
112979	Wireless radio, 900 MHz, high data throughput	$895.00
Communication Card		
108579	RS-232/RS-485 port	$250.00
77142	Ethernet TCP/IP	$400.00
108671	Wireless LAN 802.11 A/B	$550.00
93245	USB port	$125.00
77143	Fiber Optic board	$300.00
77788	Fiber Optic board (installed in 920i)	$300.00
Duplex Fiber		
78026	Fiber Optic cable, 100 ft	$130.00
78027	Fiber Optic cable, 200 ft	$260.00
78910	Fiber Optic cable, custom length	$1.30/ft

Software		
77925	Revolution Configuration Software	$35.00
108435	Virtui^2 Virtual Indicator Demo CD	n/c
108436	Virtui^2 Activation part number	$500.00
920i Indicators for use with iQUBE^2, requires version 4 software		
77790	920i Universal, 115 VAC, w/o A/D	$1,650.00
77791	920i Universal, 230 VAC, w/o A/D	$1,650.00
93243	920i Deep Universal, 115 VAC, w/o A/D	$1,850.00
93244	920i Deep Universal, 230 VAC, w/o A/D	$1,850.00
77792	920i Panel Mount, 115 VAC, w/o A/D	$1,650.00
77793	920i Panel Mount, 230 VAC, w/o A/D	$1,650.00
77794	920i Wall Mount, 115 VAC, w/o A/D	$2,400.00
77795	920i Wall Mount, 230 VAC, w/o A/D	$2,400.00

DIMENSIONS

FRP'S	A	B	C	D	E	F	G	H
Stainless Steel 8 x 10	8.91	10.13	12.57	4.29	11.50	10.75	6.00	.312
Large 10 x 12	11.30	13.33	14.00	5.57	13.53	12.76	8.00	.312
Small 8 x 10	9.31	11.31	12.85	5.42	11.51	10.75	6.00	.312



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EL168

1-Cell Junction Box



APPLICATIONS:

For splicing or extending load cell cable

STANDARD FEATURES:

Non-metallic PVCX enclosure with separate input and output cable fittings

No soldering, compression or swagged fittings are required

SPECIFICATIONS:

Dimensions:	4" W x 4" L x 2.5" D
Mounting Centers:	3.75" x 2.31" (95.2 mm x 58.7mm)
Cable Fittings:	Nylon waterproof strain-relief type
Cable Diameter:	0.079" - 0.314" (2.0 mm - 8.0 mm)
Terminal Block:	Rated 300 V/15A; 7-position, screw terminal can each accommodate up to #16 AWG
Warranty:	One-year limited warranty

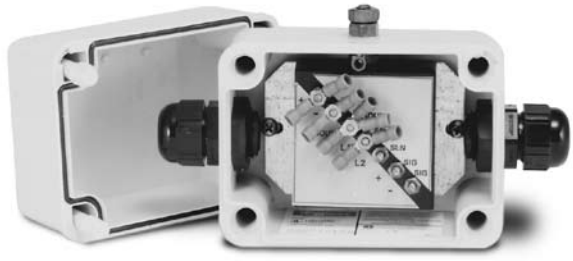
EL6168 Order Information

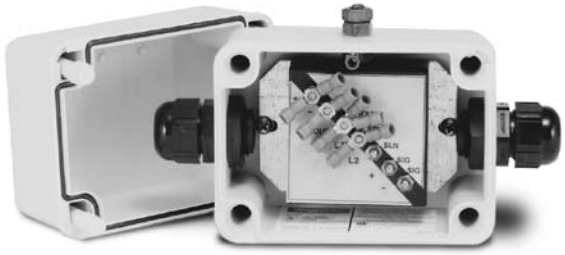
Part #	Description	Price
21161	EL168 1-cell junction box	$62.00

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TP75 DC

Transient Protection





APPLICATIONS:

Protects load cells and indicators from voltage transients
Tank, bin and hopper
Truck and railroad track scales
Suitable for outdoor use

STANDARD FEATURES:

Avalanche diode design
Full 6-wire with shield protection
NEMA 4X enclosure
Unlimited number of parallel load cells; up to 8 in series
Terminal lugs provided

SPECIFICATIONS:

Protection Type:	6-channel series type with separate shield
Maximum Excitation Voltage:	22.8 VDC
Response Time:	5 nanoseconds
Peak Surge Currents:	100 amps
Series Resistance:	0.0 ohms
Series Inductance:	0.0 µh
Grounding:	10 AWG wire or larger (not provided)
Cable Fitting:	(2) nylon strain relief for 0.187"-0.312" (4.7 mm-7.9 mm) diameter cable
Enclosure:	Impact-resistant polycarbonateNEMA 4X, maximum 40 psi washdown
Operating Temperature:	4°F to 121°F (-20°C to 85°C)
Circuit Board Dimensions:	2.22" x 2.22" (56.4 mm x 56.4 mm)

TP75 Order Information

Part #	Description	Price
33185	TP75 DC transient protection	$210.00

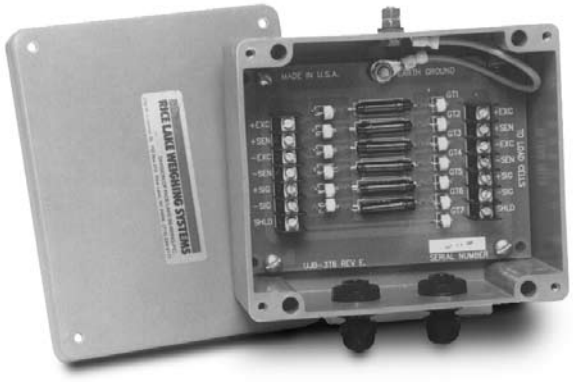
Options/Accessories

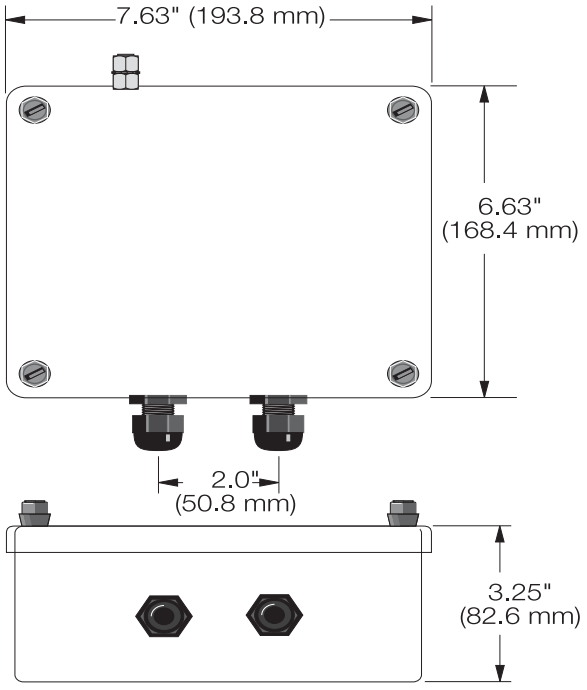
Part #	Description	Price
31164	Circuit board only	$159.00

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UJB3T6 DC

Transient Protection





APPLICATIONS:

Protects load cells from voltage transients

Compatible with signals down to 1µVgrad

Installations exposed to significant transients

Protects serial communication lines

STANDARD FEATURES:

Factory serviceable

Full 6-wire with shield protection

#6 SEMS screw type; accepts spade lugs, tinned leads or bare wires up to #12 AWG

Up to 8 parallel or summed load cells

50 Kbaud maximum transmission frequency

Up to 6 serial data lines can be protected instead of load cells

SPECIFICATIONS:

Protection Type:	6-channel series type with separate shield
Maximum Excitation Voltage:	20 VDC or 20 VAC
Clamping Voltage:	75 VDC or 75 VAC
Clamping Time:	75 VDC Stages <100 nanoseconds typical
Peak Surge Currents:	75 VDC Stage - 5000 amperes
Maximum Serial Transmission Rate:	50 Kbaud
Series resistance:	0.219 ohms typical
Series inductance:	110 µh typical
Grounding:	20' (6.1m) insulated #10 AWG wire
Cable Fitting:	(2) nylon strain relief for 0.079"-0.236" (2.0-6.0 mm) diameter cable
Enclosure:	Fiberglass-Reinforced Polyester (FRP) NEMA 4X, maximum 40 psi washdown
Operating Temperature:	14°F to 104°F (-10°C to 40°C)
Circuit Board:	6.75" x 4.75" (171.5 mm x 120.7 mm) with anti-fungal coating
Dimensions:	7.63" W x 6.63" H x 3.25" D (193.8 mm W x 168.3 mm H x 82.6 mm D)

UJB3T6 Order Information

Part #	Description	Price
21134	UJB3T6	$335.00

OPTIONS/ACCESSORIES

Part #	Description	Price
21135	6-channel load cell transient protector, board only	$240.00

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TP232 RS-232

High Energy Serial Protection



APPLICATIONS:

Indicators

Remote displays

Printers

Computers

PLC

STANDARD FEATURES:

Two metal mounting brackets

Three stages of protection: gas discharge tube, series resistor and Transient Voltage Suppressor (TVS)

Two terminal posts for ground

RS-232 high energy surge protector

Terminal blocks for transmit, receive, request to send, clear to send and signal ground

SPECIFICATIONS:

Clamping Voltage (Stage One):	72 VDC minimum, 108 VDC maximum
Series Resistance (Stage Two):	2.7 Ohms
Clamping Voltage (Stage Three):	14.3V minimum, 15.7 maximum
Clamping Time:	Less than 5 x 10-9 seconds
Connectors:	5 position terminal blocks
Dimensions:	Approximately 4.5" L x 3.3" W x 1.8" H (114.3 mm L x 83.8 mm W x 45.7 mm H)
Weight:	Approximately 0.42 lb (0.19 kg)
Approvals:	CE marked

TP75 Order Information

Part #	Description	Price
69201	TP232	$155.00

OPTIONS/ACCESSORIES

Part #	Description	Price
17778	12" Ground strap	$10.25
17781	24" Ground strap	$13.25
69516	Additional installation manual	$5.00

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Variable Range Simulator



RANGER 1 VARIABLE RANGE SIMULATOR

STANDARD FEATURES:

ABS plastic case, weighs less than 1 lb

Large vernier knob, smooth 10 turn potentiometer

Ideal tool for trouble shooting a scale system, bench testing stability of indicators and setpoint simulation

Binding posts are color coded to ISA S37.8 standard

SPECIFICATIONS:

Variable Range:	0 - 3 mV/V
Impedance:	700 ohms nominal
Connectors:	Binding posts - suitable for banana plug or 14 gauge wire
Temperature Coefficient:	±100 ppm/ °C
Dimensions:	4.5" L x 3.5" W x 1.25" H (114.3 mm W x 88.9 mm H x 31.8 mm D)

Part #	Description	Price
68029	Ranger 1 Variable Range Simulator	$130.00



RANGER 3 CALIBRATION SIMULATOR

STANDARD FEATURES:

ABS plastic case, weighs less than 1 lb

Fixed rotary switch, -0.5 mV/V to 4.5 mV/V in 9 steps of .5 mV/V per step

Ideal tool for calibrating the indicator A-D offset and gain setting

A-D calibration steps for –0.5 mV/V for offset and 4.5 mV/V for gain

Used in testing, troubleshooting and calibrating digital weight indicators

Binding posts are color coded to ISA S37.8 standard

SPECIFICATIONS:

Fixed Steps:	-0.5 mV/V - 4.5 mV/V range
Impedance:	350 ohms nominal
Nonlinearity:	Less than .02%
Connectors:	Binding posts - suitable for banana plug or 14 gauge wire
Temperature Coefficient:	±5 ppm/ °C
Dimensions:	4.5" L x 3.5" W x 1.25" H (114.3 mm W x 88.9 mm H x 31.8 mm D)

Part #	Description	Price
68030	Ranger 3 Calibration Simulator	$345.00

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Calibration Simulator/Transducer Simulator

RANGER 5 CALIBRATION SIMULATOR

STANDARD FEATURES:

ABS plastic case, weighs less than 1 lb
Fixed rotary switch, -0.5 mV/V to 4.5 mV/V in 9 steps of .5 mV/V per step
10 turn vernier with locking graduated dial
Vernier selection of 4 ranges: Off, Fine, Medium and Coarse
Ideal tool for calibrating indicator A-D offset and gain setting
A-D calibration steps for -0.5 mV/V for offset and 4.5 mV/V for gain
Used in testing, troubleshooting and calibrating digital weight indicators
Binding posts are color coded to ISA S37.8 standard

SPECIFICATIONS:

Fixed Steps:	-0.5 mV/V – 4.5 mV/V range
Vernier:	Variable range: up to 0.5 mv/v, up to 1 mV/V, up to 1.5 mV/V
Impedance:	350 ohms nominal
Nonlinearity:	Less than .02%
Connectors:	Binding posts – suitable for banana plug or 14 gauge wire
Temperature Coefficient:	±5 ppm/ °C
Dimensions:	4.5" L x 3.5" W x 1.25" H (114.3 mm W x 88.9 mm H x 31.8 mm D)



Part #	Description	Price
68031	Ranger 5 Calibration Simulator	$445.00

TRANSDUCER SIMULATOR 4

STANDARD FEATURES:

Designed for high accuracy
Sealed lid with neoprene "O"-ring. If secured properly, the Transducer Simulator 4 is completely waterproof
Dustproof and crush tested to 500 lb
Four operational modes including vernier adjustment, calibrated adjustment, 0.25 mV offset and 0.50 mV offset
Ideal for setpoint or batching simulation

SPECIFICATIONS:

Maximum Voltage:	15 volts
Bridge Type:	175 ohm star
Linearity:	Less than ±.02% full scale
Temperature Coefficient:	Absolute 5 ppm/ °C; Tracking less than 0.5 ppm/°C
Variable Ranges:	Choose any fixed setting ±0.25 mV or 0.50 mV through a 10-turn wire-wound potentiometer with locking clutch
Load Factors:	Simulates 1, 2, 3, 4 or 8 350-ohm load cells or 2, 4, 6, 8 or 16 700-ohm load cells
Calibrated Offset:	+0.25 mV/V for use with digitally calibrated meters requiring positive dead load for calibration
Connectors:	Six-way binding posts, suitable for loose wires or banana jacks



Part #	Description	Price
22513	Simulator 4	$695.00

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CLS-420 Wireless Version
Cargo Lift Scale **LT-4**
CLS-920i® Wired Version
Cargo Lift Scale **LT-6**
CLS-920i® Wireless Version
Cargo Lift Scale **LT-8**
PALLET JACK
Intercomp PW800™
Pallet Truck Scales..... **LT-10**

CLS-420 Wired Version

Cargo Lift Scale



STANDARD FEATURES

- Capacities: 5,000 lb or 8,000 lb
- Two 5,000 lb stainless steel load cells
- Mechanical overload stops promote scale longevity and accuracy
- Reinforced cover plate protects load cells and junction box from debris
- Welded centering pin ensures proper alignment and prevents scale from lateral movement
- Two-channel iQUBE®
- Cal-Match™ algorithm automatically trims and calibrates scale
- Coiled interface cable from scale to indicator

420 Plus Indicator

- Stainless steel enclosure
- Two-piece mounting assembly with vibration isolators
- Six digit, 0.8 in red LED display
- Full numeric keypad for manual tare entry
- Accumulate weight function for multiple skid loads
- RS-232 port (time and date, weight)
- Full front panel digital calibration
- On/Off button for forklift battery conservation

APPROVALS

Measurement Canada Approved (Pending)

SPECIFICATIONS

SCALE CAPACITY:
5,000 lb, 8,000 lb

SCALE POWER:
Supplied by indicator through coiled interface cable

SCALE MATERIAL/FINISH:
Painted Mild Steel

APPROVAL:
NTEP Certified per H-44 at 1,000 divisions, Class III, COC # 06-074 (5,000 lb only)
Measurement Canada - pending (5,000 lb only)

420 PLUS DISPLAY:
0.8 in (20 mm), 6-digit Super Red Light Emitting Diode (LED), 7-segment digits

420 POWER - DC:
Line voltages: 10-60 VDC DC input
Power consumption: 0.75 A Max
Fused at 5.0 A

420 STATUS ANNUNCIATORS:
Designators for: center of zero, stand still, gross, net, lb, kg, count, tare

420 OPERATING TEMPERATURE:
Legal: 14°F to 104°F (-10°C to 40°C)
Industrial: 14°F to 122°F (-10°C to 50°C)

WARRANTY:
Two-year limited warranty

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CLS-420 Wired Version

Cargo Lift Scale

PART #	SIZE, CAPACITY	FORKLIFT COMPATIBILITY	WEIGHT	PRICE
CLS Forklift Scale, 420 wired version				
111033	28 in, 5,000 lb	Class II, 16 in cleat style carriage	524 lb	$6,550.00
96339	34 in, 5,000 lb	Class II, 16 in cleat style carriage	539 lb	6,550.00
111038*	38 in, 8,000 lb	Class III, 20 in cleat style carriage	1144 lb	7,750.00

*Non-NTEP

OPTIONS/ACCESSORIES

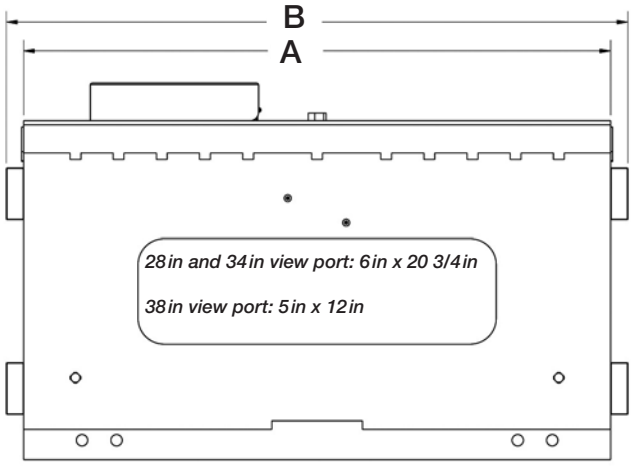
112986	Wireless LAN card	550.00

Manuals

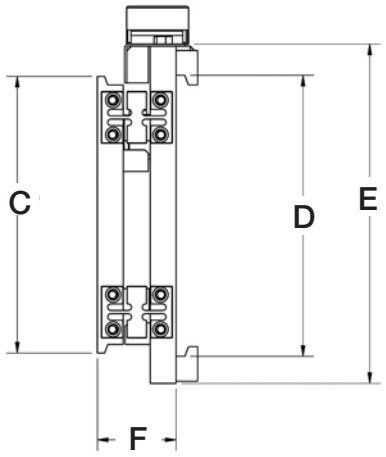
96483	CLS-420 installation manual	20.00
96484	CLS-420 operator card	10.00

CLS SCALE DIMENSIONS

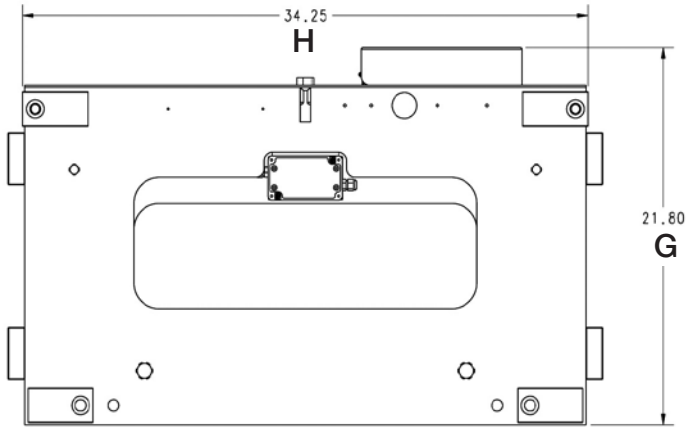
Front view



Side view



Rear view

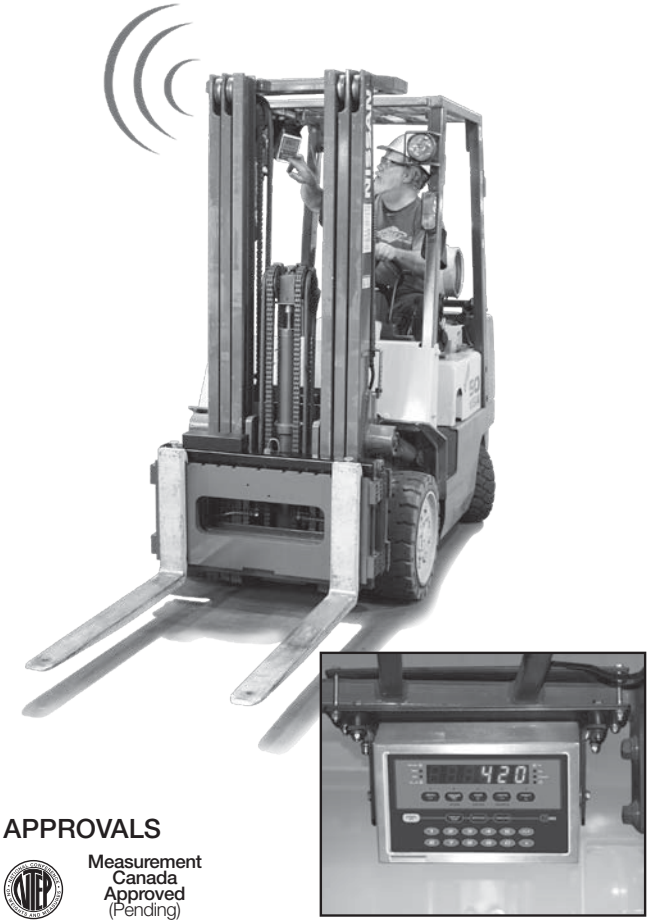


Scale Size	A	B	C	D	E	F	G	H
28 in, 5000 lb	28	30	16	16.30	19.62	4.56	21.80	28.24
34 in, 5000 lb	34	36	16	16.30	19.62	4.56	21.80	34.24
38 in, 8000 lb	38	40	16	20.15	24.63	6.04	27.55	38

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CLS-420 Wireless Version

Cargo Lift Scale



STANDARD FEATURES

- Capacities: 5,000 lb or 8,000 lb
- Two 5,000 lb stainless steel load cells
- Mechanical overload stops promote scale longevity and accuracy
- Reinforced cover plate protects load cells and junction box from debris
- Welded centering pin ensures proper alignment and prevents scale from lateral movement
- Two-channel iQUBE®
- Cal-Match™ algorithm automatically trims and calibrates scale
- ZigBee™ connection from scale to indicator
- Two lithium-ion smart batteries included
  Note: scale operates using one battery for 24 continuous hours and requires only eight hours to fully charge
- External battery charger

420 Plus Indicator

- Stainless steel enclosure
- Two-piece mounting assembly with vibration isolators
- Six digit, 0.8 in red LED display
- Full numeric keypad for manual tare entry
- Accumulate weight function for multiple skid loads
- RS-232 port (time and date, weight)
- Full front panel digital calibration
- On/Off button for forklift battery conservation

APPROVALS

Measurement Canada Approved (Pending)

SPECIFICATIONS

SCALE CAPACITY:
5,000 lb, 8,000 lb

SCALE POWER:
Supplied by indicator through coiled interface cable

SCALE MATERIAL/FINISH:
Painted Mild Steel

APPROVAL:
NTEP Certified per H-44 at 1,000 divisions, Class III, COC # 06-074 (5,000 lb only)
Measurement Canada - pending (5,000 lb only)

420 PLUS DISPLAY:
0.8 in (20 mm), 6-digit Super Red Light Emitting Diode (LED), 7-segment digits

420 POWER - DC:
Line voltages: 10-60 VDC DC input
Power consumption: 0.75 A Max
Fused at 5.0 A

420 STATUS ANNUNCIATORS:
Designators for: center of zero, stand still, gross, net, lb, kg, count, tare

420 OPERATING TEMPERATURE:
Legal: 14°F to 104°F (-10°C to 40°C)
Industrial: 14°F to 122°F (-10°C to 50°C)

WARRANTY:
Two-year limited warranty

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CLS-420 Wireless Version

Cargo Lift Scale

PART #	SIZE, CAPACITY	FORKLIFT COMPATIBILITY	WEIGHT	PRICE
CLS Forklift Scale, 420 wireless version				
111034	28 in, 5,000 lb	Class II, 16 in cleat style carriage	524 lb	$7,815.00
96340	34 in, 5,000 lb	Class II, 16 in cleat style carriage	539 lb	7,815.00
111039*	38 in, 8,000 lb	Class III, 20 in cleat style carriage	1144 lb	9,015.00

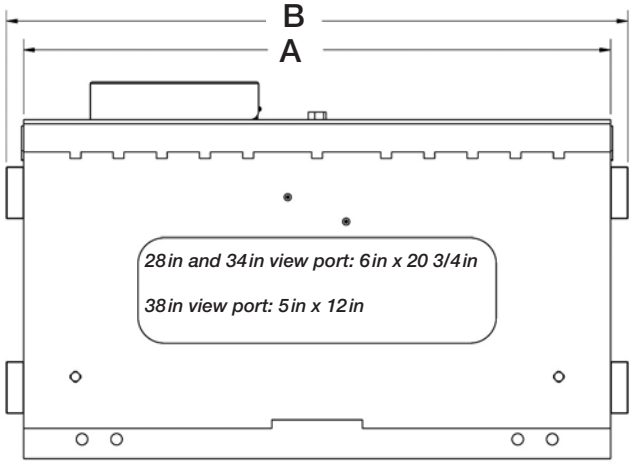
*Non-NTEP

OPTIONS/ACCESSORIES

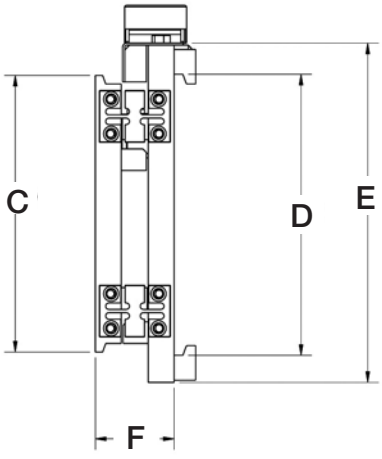
112986	Wireless LAN card	550.00
Manuals		
96483	CLS-420 installation manual	20.00
96484	CLS-420 operator card	10.00
96315	CLS series service & troubleshooting manual	35.00

CLS SCALE DIMENSIONS

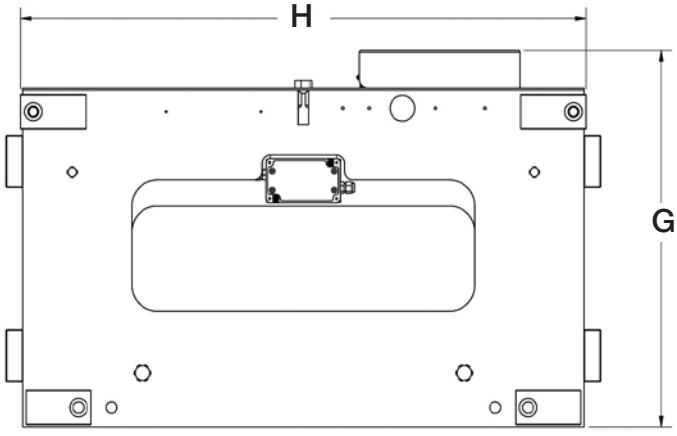
Front view



Side view



Rear view



Scale Size	A	B	C	D	E	F	G	H
28 in, 5000 lb	28	30	16	16.30	19.62	4.56	21.80	28.24
34 in, 5000 lb	34	36	16	16.30	19.62	4.56	21.80	34.24
38 in, 8000 lb	38	40	16	20.15	24.63	6.04	27.55	38

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CLS-920i® Wired Version

Cargo Lift Scale





STANDARD FEATURES

- Capacities: 5,000 lb, 8,000 lb
- Two 5,000 lb stainless steel load cells
- Mechanical overload stops promote scale longevity and accuracy
- Reinforced cover plate protects load cells and junction box from debris
- Welded centering pin ensures proper alignment and prevents scale from lateral movement
- Two-channel iQUBE®
- Cal-Match™ algorithm automatically trims and calibrates scale
- Coiled interface cable from scale to indicator

920i® Indicator

- Stainless steel enclosure
- Two-piece mounting assembly with vibration isolators
- 4.6 in W x 3.4 in H, back-lit LCD graphical display (320 x 240 pixels)
- User program with data collection and transaction storage including: pro number, pro open/closed, employee ID, last transaction, time and date, actual weight and number of skids
- Internal memory of 1 MB for transaction records
- Diagnostics to indicate excessive drift, A/D failures, connection errors, excitation voltage shifts and more
- On/Off toggle switch for forklift battery conservation

APPROVALS

Measurement Canada Approved (Pending)

SPECIFICATIONS

SCALE CAPACITY:
5,000 lb, 8,000 lb

SCALE POWER:
Supplied by indicator through coiled interface cable

SCALE MATERIAL/FINISH:
Painted Mild Steel

APPROVAL:
NTEP Certified per H-44 at 1,000 divisions, Class III, COC # 06-074 (5,000 lb only)
Measurement Canada - pending (5,000 lb only)

920i DISPLAY:
4.6 in W x 3.4 in H (116 mm W x 86 mm H), 320 x 240 pixel VGA Liquid Crystal Display (LCD) module with adjustable contrast

920i POWER - DC:
Line voltages: 10-60 VDC DC input
Power consumption: 1.5 A Max
Fused at 5.0 A

920i OPERATING TEMPERATURE:
Legal: 14°F to 104°F (-10°C to +40°C)
Industrial: 14°F to 122°F (-10°C to +50°C)

WIRELESS LAN OPTION:
Contains FCC ID: R68WIPORATG
Range: Up to 328 ft indoors
Operating Frequency: ISM 2.4 GHz

WARRANTY:
Two-year limited warranty

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CLS-920i® Wired Version

Cargo Lift Scale

PART #	SIZE, CAPACITY	FORKLIFT COMPATIBILITY	WEIGHT	PRICE
CLS Forklift Scale, 920i Wired Version				
111035	28 in, 5,000 lb	Class II, 16 in cleat style carriage	524 lb	$7,100.00
96341	34 in, 5,000 lb	Class II, 16 in cleat style carriage	539 lb	7,100.00
111040*	38 in, 8,000 lb	Class III, 20 in cleat style carriage	1144 lb	8,300.00

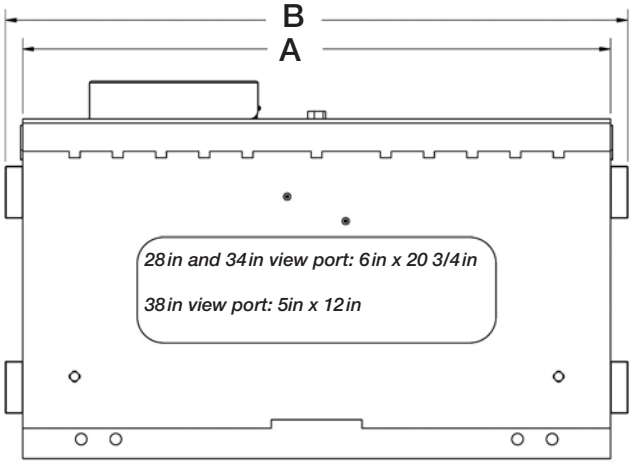
*Non-NTEP

OPTIONS/ACCESSORIES

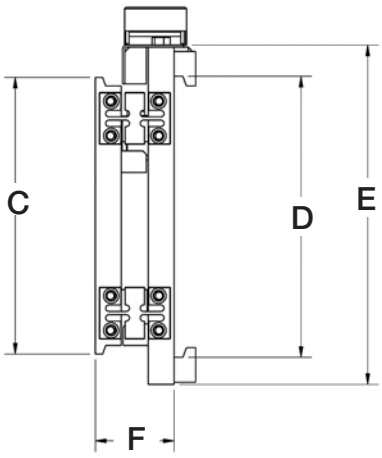
96355	Wireless LAN card	575.00
72704	USB to serial converter (used to configure wireless LAN card if PC does not have serial port)	70.00
97480	Optional bar code scanner kit for 920i (Symbol model MS-3204 omnidirectional and mounting hardware)	575.00
99445	Indicator corner protection kit (includes corner pads with adhesive strips)	15.00
Manuals		
96312	CLS-920i installation manual	20.00
96313	CLS-920i operator card	10.00

CLS SCALE DIMENSIONS

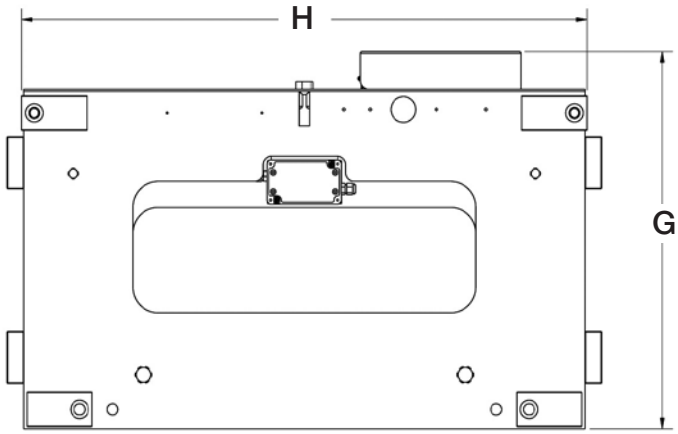
Front view



Side view



Rear view



Scale Size	A	B	C	D	E	F	G	H
28 in, 5000 lb	28	30	16	16.30	19.62	4.56	21.80	28.24
34 in, 5000 lb	34	36	16	16.30	19.62	4.56	21.80	34.24
38 in, 8000 lb	38	40	16	20.15	24.63	6.04	27.55	38

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CLS-920i® Wireless Version

Cargo Lift Scale





APPROVALS

Measurement Canada Approved (Pending)

STANDARD FEATURES

- Capacities: 5,000 lb, 8,000 lb
- Two 5,000 lb stainless steel load cells
- Mechanical overload stops promote scale longevity and accuracy
- Reinforced cover plate protects load cells and junction box from debris
- Welded centering pin ensures proper alignment and prevents scale from lateral movement
- Two-channel iQUBE®
- Cal-Match™ algorithm automatically trims and calibrates scale
- ZigBee™ connection from scale to indicator
- Two lithium-ion smart batteries included
  Note: scale operates using one battery for 24 continuous hours and requires only eight hours to fully charge
- External battery charger

920i® Indicator

- Stainless steel enclosure
- Two-piece mounting assembly with vibration isolators
- 4.6 in W x 3.4 in H, back-lit LCD graphical display (320 x 240 pixels)
- User program with data collection and transaction storage including: pro number, pro open/closed, employee ID, last transaction, time and date, actual weight and number of skids
- Internal memory of 1 MB for transaction records
- Diagnostics to indicate excessive drift, A/D failures, connection errors, excitation voltage shifts and more
- On/Off toggle switch for forklift battery conservation

ZigBee™ is a trademark of the ZigBee Alliance

SPECIFICATIONS

SCALE CAPACITY:
5,000 lb, 8,000 lb

SCALE POWER:
Supplied by indicator through coiled interface cable

SCALE MATERIAL/FINISH:
Painted Mild Steel

APPROVAL:
NTEP Certified per H-44 at 1,000 divisions, Class III, COC # 06-074 (5,000 lb only)
Measurement Canada (pending)

920i DISPLAY:
4.6 in W x 3.4 in H (116 mm W x 86 mm H), 320 x 240 pixel VGA Liquid Crystal Display (LCD) module with adjustable contrast

920i POWER - DC:
Line voltages: 10-60 VDC DC input
Power consumption: 1.5 A Max
Fused at 5.0 A

920i OPERATING TEMPERATURE:
Legal: 14°F to 104°F (-10°C to +40°C)
Industrial: 14°F to 122°F (-10°C to +50°C)

WIRELESS LAN OPTION:
Contains FCC ID: R68WIPORATG
Range: Up to 328 ft indoors
Operating Frequency: ISM 2.4 GHz

WARRANTY:
Two-year limited warranty

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CLS-920i® Wireless Version

Cargo Lift Scale

PART #	SIZE, CAPACITY	FORKLIFT COMPATIBILITY	WEIGHT	PRICE
CLS Forklift Scale, 920i Wireless Version				
111036	28 in, 5,000 lb	Class II, 16 in cleat style carriage	524 lb	$8,365.00
96342	34 in, 5,000 lb	Class II, 16 in cleat style carriage	539 lb	8,365.00
111041*	38 in, 8,000 lb	Class III, 20 in cleat style carriage	1144 lb	9,565.00

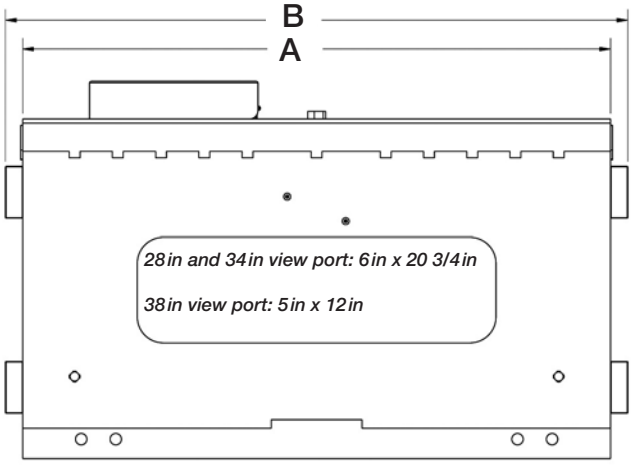
*Non-NTEP

OPTIONS/ACCESSORIES

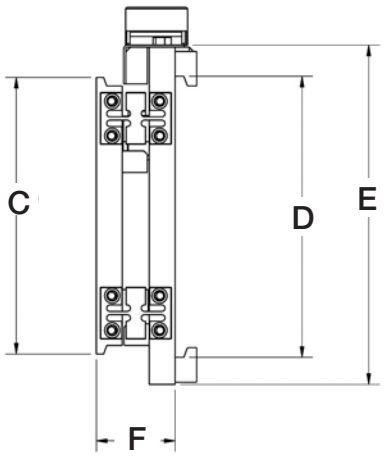
96355	Wireless LAN card	575.00
72704	USB to serial converter (used to configure wireless LAN card if PC does not have serial port)	70.00
97480	Optional bar code scanner kit for 920i (Symbol model MS-3204 omnidirectional and mounting hardware)	575.00
99445	Indicator corner protection kit (includes corner pads with adhesive strips)	15.00
Manuals		
96312	CLS-920i installation manual	20.00
96313	CLS-920i operator card	10.00

CLS SCALE DIMENSIONS

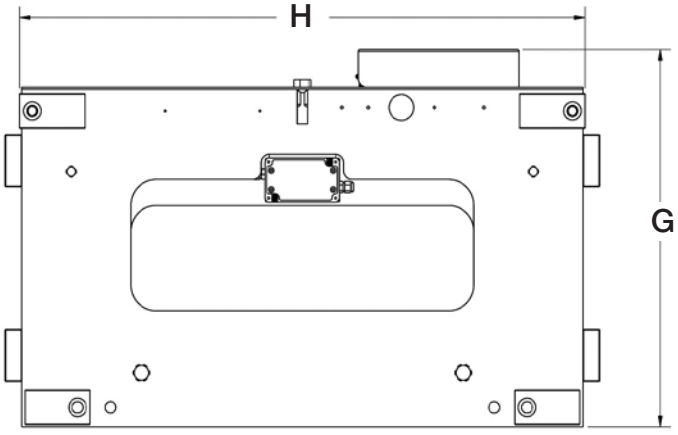
Front view



Side view



Rear view



Scale Size	A	B	C	D	E	F	G	H
28 in, 5000 lb	28	30	16	16.30	19.62	4.56	21.80	28.24
34 in, 5000 lb	34	36	16	16.30	19.62	4.56	21.80	34.24
38 in, 8000 lb	38	40	16	20.15	24.63	6.04	27.55	38

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Intercomp PW800™

Pallet Truck Scales



STANDARD FEATURES

- Fast, low-cost parts counting for taking inventory
- Count totalization up to 1 million counts
- Accuracy of ± 0.1%
- Tare: up to 100% of capacity
- Zero: up to 100% of capacity
- Units of measure: lb/kg
- 5,000 lb capacity in one-pound increments
- Push-button print of gross, net, tare, total and count total
- Displays gross, net and tare weight
- Weight totalization up to 100,000 lb
- Adjustable baud rates from 75 to 9600
- Low-cost operation on 9 D cell batteries
- Quick verification of incoming/outgoing freight
- Instant check of truck loading by weight
- Large, easy-to-read 0.8 in six-digit LED (Light Emitting Diode) display
- Adjustable display update/weight averaging
- Selectable AZT off, 0.6, 1, or 3 graduations
- Mild steel

SPECIFICATIONS

CAPACITY:
5,000 lb (2,500 kg)

GRADUATION:
1 lb (.5 kg)

ACCURACY:
± 0.1% of reading

BATTERY LIFE:
Up to 40 hours of continuous use

BATTERIES:
Nine D size disposable alkaline dry cells or rechargeable nickel-cadmium cells

CHARGE TIME:
16 hours

CHARGE:
Charger/power transformer — 115/230 VAC

LOW BATTERY SHUT-OFF:
Unit automatically shuts off if batteries are low

AUTO SHUT-OFF:
Shuts off after up to five minutes of non-use (variable up to 30 min)

DISPLAY:
0.8 in (20 mm) high — 5 1/2-digit LED (Light Emitting Diode)
Indicators:
Six (lb, kg, net, tare, total, count)

CONTROL SWITCHES:
Eight (on, off, set mode, print, tare, zero, lb/kg)

HUMIDITY:
10 to 95% non-condensing

TEMPERATURE:
Operating: -20°C to 60°C (-4°F to 140°F)

FORK DIMENSIONS:
PW800-2748: 48 in x 27 in x 2.9 in (1219 mm x 686 mm x 74 mm)
PW800-2148: 48 in x 21 in x 2.9 in (1219 mm x 533 mm x 74 mm)

EST. SHIP WEIGHT:
300 lbs (136 kg)

WARRANTY:
One-year limited warranty

PART #	MODEL	FORK SIZE	CAPACITY	EST. SHIP WEIGHT	PRICE
43659*	PW800-2748	48 in x 27 in x 2.9 in	5,000 lb	300 lb	$3,240.00
43660*	PW800-2148	48 in x 21 in x 2.9 in	5,000 lb	300 lb	3,240.00

OPTIONS/ACCESSORIES

43946	RS-232 serial output	195.00

*Includes pallet truck and 120 V charger

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Table of Contents

LIQUID FILLERS

Rice Lake Econo Filler **LF-2**

Feige Single Pail Filling Station

Type 14 ..... **LF-4**

Feige Single Drum Filling Station

Type 19 ..... **LF-6**

Feige Pallet Filling Station

Type 16 ..... **LF-8**

Rice Lake Econo Filler



STANDARD FEATURES

- Electro-pneumatic control mounted at the filling station
- Self-optimizing filling program
- Printer/EDP interface
- Below surface filling (for foaming and fuming products)
- Above surface filling (for non-hazardous, non-foaming products)
- Removable lance allows continued operation during cleaning process
- Two stage, linear actuated valve
- Fail safe spring return filling valve
- Aseptic, drip proof valve
- Self-adjusting PTFE (Teflon®) valve seal
- Pneumatic linear drive lance eliminates grease slinging jack screw
- Intrinsically safe, internally lubricated lance assembly
- Empty drums and containers are manually positioned at the filling unit
- Automatic filling
- 920i® based control system
- Hydrostatically balanced valve so its closing function is independent of pressure

Teflon is a registered trademark of E.I. du Pont de Nemours and Company

SPECIFICATIONS

CONTAINER DIAMETER:
620 mm maximum

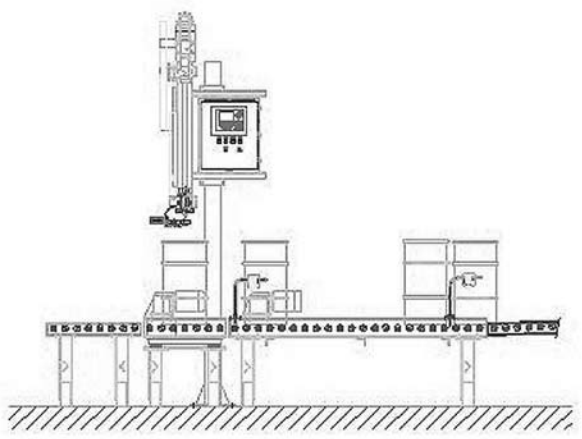
CONTAINER HEIGHT:
550 mm to 1050 mm (for filling stations with base height adjustment)

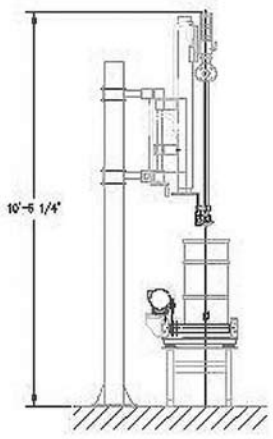
WEIGHING RANGE RESOLUTION:
25 kg - 280 kg / 100 g (3,000 d)

NOMINAL OUTPUT:
Approximately 60 containers/drums per hour depending on container size, product pressure, viscosity, foaming

WEIGHT:
Approximately 400 kg (881 lbs)

DIMENSIONS			
A	114.00 in (2895.6 mm) header placement	**J**	15.0 in (381 mm) adjustable range
B	69.0 in (1752.6 mm)	**K**	7.0 in (177.8 mm)
C	74.0 in (1879.6 mm)	**L**	13.0 in (330.2 mm)
D	13.0 in (330.2 mm)	**M**	43.0 in (1,092.2 mm) lance
E	138.0 in (3505.2 mm)		39.0 in (990.6 mm) stroke down
F	106.0 in (2692.4 mm)	**N**	1.6 in Ø (40.6 mm)
G	24.0 in (609.6 mm)	**O**	16.0 in Ø (406.4 mm)
H	8.0 in (203.2 mm)	**P**	29.0 in(736.6 mm)
I	1.5 in (38.1 mm)		





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Rice Lake Econo Filler

PART NUMBER	DESCRIPTION	PRICE
92217	Rice Lake Econo Filler	Starting at $20,995.00-Consult factory for quotation

Consult Factory For These Options

- Pneumatic drip scoop
- Gas hood
- Hazardous area protection
- Interlocking “smart” grounding clamp; “No ground - No fill” for steel containers; for use in hazardous areas
- Remote cleaning funnel for filling valves
- Filling valves in Teflon®, Hastelloy®, titanium or nickel
- Data logging / label printing
- High speed output (60 drums per hour full automatic)

Teflon is a registered trademark of E.I. du Pont de Nemours and Company

Hastelloy is a registered trademark of Haynes International, Inc.

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Feige Single Pail Filling Station

Type 14



STANDARD FEATURES

- Fill small containers and drums up to 16lb (7.2kg)
- Electro-pneumatic control mounted at the filling station
- Self-optimizing filling program
- Printer/EDP interface
- Below surface filling (for foaming and fuming products)
- Above surface filling (for non-hazardous, non-foaming products)
- Removable lance allows continued operation during cleaning process
- Two stage, linear actuated valve
- Fail safe spring return filling valve
- Hydrostatically balanced valve so its closing function is independent of pressure
- Aseptic, drip proof valve
- Self-adjusting PTFE (Teflon®) valve seal
- Pneumatic linear drive lance eliminates grease slinging jack screw
- Intrinsically safe, internally lubricated lance assembly
- Empty containers are manually positioned at the filling unit
- Automatic filling
- 920i based control system
- Allen-Bradley PLC interface

Teflon is a registered trademark of E.I. du Pont de Nemours and Company

SPECIFICATIONS

CONTAINER DIAMETER:
450mm maximum

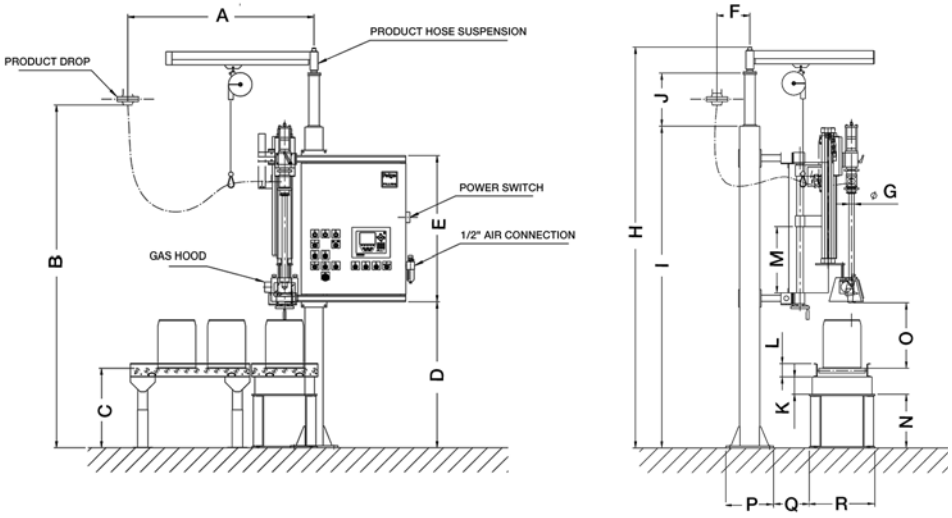
CONTAINER HEIGHT:
100 - 700mm

WEIGHING RANGE RESOLUTION:
3kg - 60kg / 20g (3,000d)

NOMINAL OUTPUT:
Approximately 130 containers per hour

WEIGHT:
Approximately 400kg (881lbs)

DIMENSIONS			
A	56.0in (1424.4mm)	**J**	16.0in (406.4mm)
B	103.2in (2616mm)	**K**	5.25in (133.3mm)
C	24.0in T.C.R. (609mm)	**L**	4.0in (101.6mm)
D	44.0in (1117.8mm)	**M**	20.0in (508mm)
E	44.0in (1117.8mm)	**N**	16.2in (412.7mm)
F	9.7in Ø (247.6mm)	**O**	20.0in max. (508mm)
G	1.6in (4.3mm)	**P**	14.25in Ø (361.9mm)
H	120.5in (3060.7mm)	**Q**	10.7in (273.0mm)
I	96.5in (2451mm)	**R**	19.75in (501.6mm)



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Feige Single Pail Filling Station

Type 14

DESCRIPTION **PRICE**

Single Pail Filling Station-Type 14 ..... Starting at $36,995 – Consult factory for quotation

Consult Factory For These Options

- Container holding device or limit stop
- Pneumatic valve positioner for products with various viscosity ranges
- Gas hood
- Pneumatic drip scoop
- Hazardous area protection
- Interlocking “smart” grounding clamp; “No ground - No fill” for steel containers; for use in hazardous areas
- Optical overflow sensor
- Nitrogen purging system
- Remote cleaning funnel for filling valves
- Filling valves in Teflon®, Hastelloy®, titanium or nickel
- Data logging / label printing
- Automatic infeed and outfeed conveyor system
- Automatic opening and closing of containers
- Infeed and outfeed storage systems
- Palletizing

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Feige Single Drum Filling Station

Type 19



STANDARD FEATURES

- Electro-pneumatic control mounted at the filling station
- Self-optimizing filling program
- Printer/EDP interface
- Below surface filling (for foaming and fuming products)
- Above surface filling (for non-hazardous, non-foaming products)
- Removable lance allows continued operation during cleaning process
- Two stage, linear actuated valve
- Fail safe spring return filling valve
- Aseptic, drip proof valve
- Self-adjusting PTFE (Teflon®) valve seal
- Pneumatic linear drive lance eliminates grease slinging jack screw
- Intrinsically safe, internally lubricated lance assembly
- Empty drums and containers are manually positioned at the filling unit
- Automatic filling
- 920i® based control system
- Allen-Bradley PLC interface
- Hydrostatically balanced valve so its closing function is independent of pressure

Teflon is a registered trademark of E.I. du Pont de Nemours and Company

SPECIFICATIONS

CONTAINER DIAMETER:
620 mm maximum

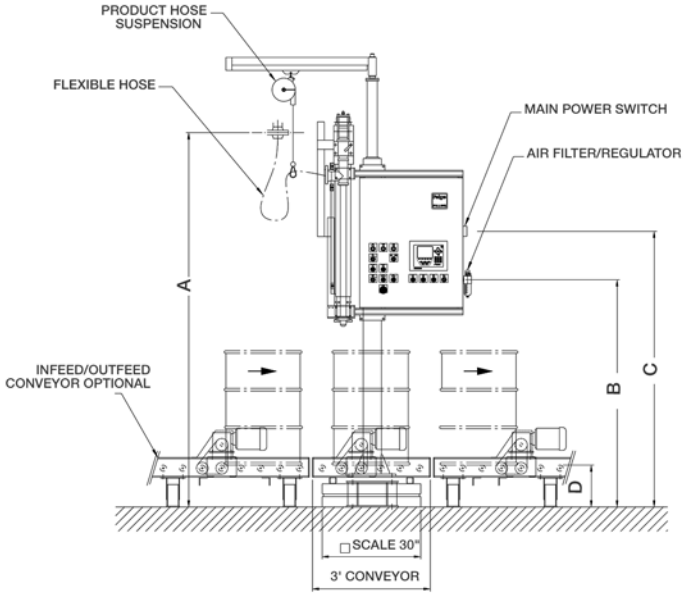
CONTAINER HEIGHT:
550 mm to 1,050 mm (for filling stations with base height adjustment)

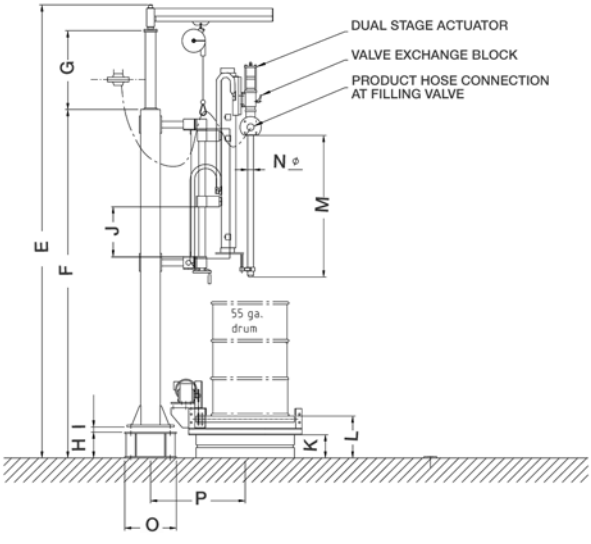
WEIGHING RANGE RESOLUTION:
25 kg - 280 kg / 100 g (3,000 d)

NOMINAL OUTPUT:
Approximately 60 containers/drums per hour depending on container size, product pressure, viscosity, foaming

WEIGHT:
Approximately 400 kg (881 lbs)

DIMENSIONS			
A	114.00 in (2895.6 mm) header placement	**J**	15.0 in (381 mm) adjustable range
B	69.0 in (1752.6 mm)	**K**	7.0 in (177.8 mm)
C	74.0 in (1879.6 mm)	**L**	13.0 in (330.2 mm)
D	13.0 in (330.2 mm)	**M**	43.0 in (1,092.2 mm) lance
E	138.0 in (3505.2 mm)		39.0 in (990.6 mm) stroke down
F	106.0 in (2692.4 mm)	**N**	1.6 in Ø (40.6 mm)
G	24.0 in (609.6 mm)	**O**	16.0 in Ø (406.4 mm)
H	8.0 in (203.2 mm)	**P**	29.0 in (736.6 mm)
I	1.5 in (38.1 mm)		





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Feige Single Drum Filling Station

Type 19

DESCRIPTION **PRICE**

Single Drum Filling Station – Type 19 ..... Starting at $40,000 – Consult factory for quotation

Consult Factory For These Options

- Container holding device
- Pneumatic valve positioner for products with various viscosity ranges
- Pneumatic drip scoop
- Gas hood
- Hazardous area protection
- Interlocking “smart” grounding clamp; “No ground - No fill” for steel containers; for use in hazardous areas
- Optical overflow sensor
- Nitrogen purging system
- Remote cleaning funnel for filling valves
- Filling valves in Teflon®, Hastelloy®, titanium or nickel
- Data logging / label printing
- Automatic bunghole locator
- Automatic opening and closing of drums
- High speed output (100 drums per hour full automatic)
- Automatic infeed and outfeed conveyor systems
- Palletizing

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Feige Pallet Filling Station

Type 16



STANDARD FEATURES

- Electro-pneumatic control mounted at the filling station
- Self-optimizing filling program
- Printer/EDP interface
- Below surface filling (for foaming and fuming products)
- Above surface filling (for non-hazardous, non-foaming products)
- Removable lance allows continued operation during cleaning process
- Two speed, linear actuated valve
- Fail safe spring return filling valve
- Aseptic, drip proof valve
- Self-adjusting PTFE (Teflon®) valve seal
- Pneumatic linear drive lance eliminates grease slinging jack screw
- Intrinsically safe, internally lubricated lance assembly
- Manually position filling valve to empty containers arranged on a pallet or a tote bin
- Automatic filling
- 920i® based control system
- Allen-Bradley PLC interface
- Hydrostatically balanced valve so its closing function is independent of pressure

Teflon is a registered trademark of E.I. du Pont de Nemours and Company

SPECIFICATIONS

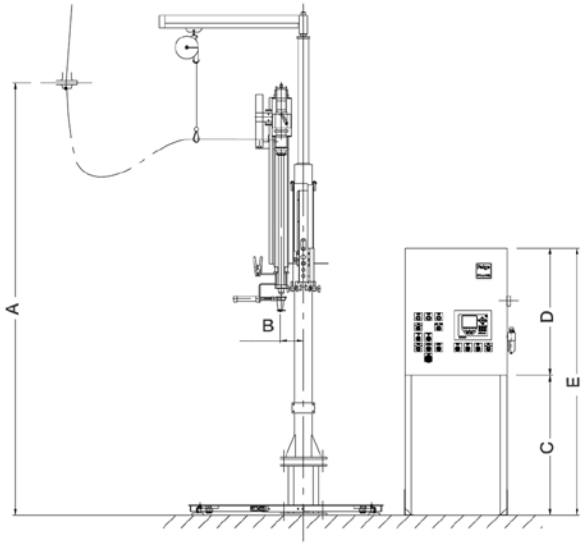
PALLET SIZE:
Up to 1,200 x 1,200 mm

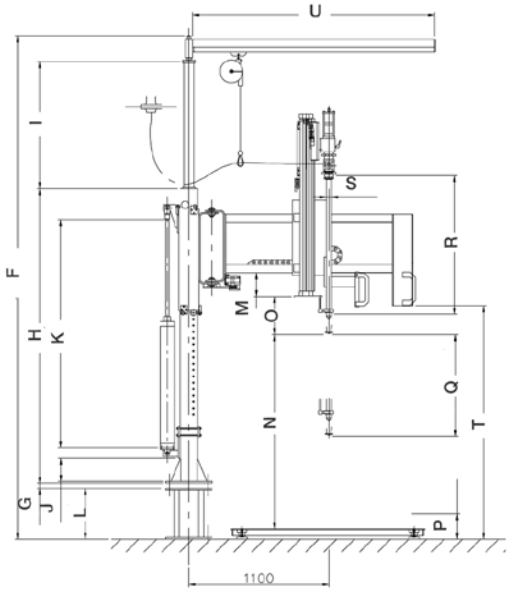
WEIGHING RANGE RESOLUTION:
50 kg to 600 kg / 200 g
>600 kg to 1,500 kg / 500 g
(2 x 300 d)

NOMINAL OUTPUT:
Approximately 60 containers/drums per hour depending on container size, product pressure, viscosity, foaming

WEIGHT:
Approximately 600 kg
(1,322 lbs)

DIMENSIONS			
A	134.0 in (3,403.6 mm)	**K**	70.5 in (1,790.7 mm)
B	7.25 in (184.15 mm)	**L**	15.5 in (393.7 mm)
C	43.0 in (1,092.2 mm)	**M**	7.25 in (184.15 mm)
D	39.0 in (990.6 mm)	**N**	60.0 in (1,524 mm)
E	83.0 in (2,108.2 mm)	**O**	11.75 in (298.45 mm)
F	156.0 in (3,962.4 mm)	**P**	7.75 in (196.85 mm)
G	1.5 in (38.1 mm)	**Q**	31.0 in (787.4 mm)
H	91.0 in (2311.4 mm)	**R**	43.0 in (1,092.2 mm)
I	39.0 in (990.6 mm)	**S**	1.6 in Ø (40.64 mm)
J	7.5 in (190.5 mm)	**T**	72.2 in (1,833.8 mm)





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Feige Pallet Filling Station

Type 16

DESCRIPTION **PRICE**

Pallet Filling Station – Type 16 ..... Starting at $45,000 – Consult factory for quotation

Consult Factory For These Options

- Pneumatic valve positioner for products with various viscosity ranges
- Pneumatic drip scoop
- Gas hood
- Hazardous area protection
- Interlocking “smart” grounding clamp; “No ground - No fill” for steel containers; for use in hazardous areas
- Optical overflow sensor
- Nitrogen purging system
- Remote cleaning funnel for filling valves
- Filling valves in Teflon®, Hastelloy®, titanium or nickel
- Data logging / label printing
- Automatic bunghole locator (vision based)
- Teach-in system via joystick or fill by template for drums/containers arranged on a pallet for automatic filling from one container to the next
- Automatic opening and closing of drums
- Automatic infeed and outfeed conveyor systems
- Infeed and outfeed storage systems
- Palletizing

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Hastelloy is a registered trademark of Haynes International, Inc.

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Notes

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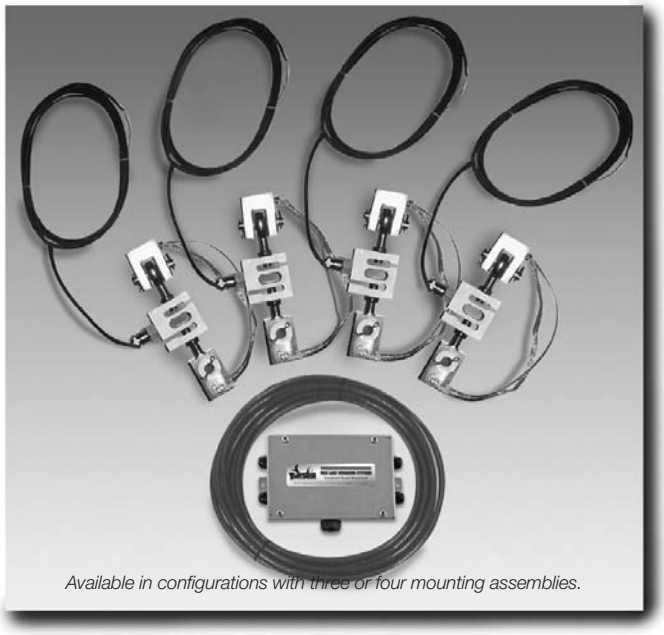
Notes

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RICE LAKE® WEIGHING SYSTEMS

SURVIVOR® ITCM HE

Stainless Steel, Hermetically Sealed, Isolated Tension Cell Modules



Available in configurations with three or four mounting assemblies.

Picture is a representation of actual product

The ITCM Series utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications and mechanical scale conversions. The SURVIVOR ITCM HE incorporates clevis and unique rod end ball joint assemblies to reduce the overall length to less than half of the traditional tension cell mounts, while providing correct load alignment. In addition, the load cell is completely electrically isolated from stray currents; a major cause of load cell failure. To complete the design, a grounding strap connects the two clevis assemblies to further provide safety to your load cells.

LOAD CELL CERTIFICATIONS:

Important: Read "Load Cell Mounting Hardware Safety Guidelines" on page 344



COMPLETE KIT INCLUDES:

- 3 or 4 ITCM assemblies with UB1/UB6 Flintec Stainless Steel (see pages 203-204), Hermetically Sealed S-beam load cells
- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Suspended hoppers and tanks
- Mechanical scale conversions
- Use as a single module or in multiples

STANDARD FEATURES:

- Capacities (per module): 1 kN–20 kN (225–4500 lb/102.1–2039.43 kg)
- Clevis mounts with nylon insulating washers
- Teflon®-lined rod end ball joints
- Load cell is completely isolated from stray currents
- Grounding strap provides alternative path to ground
- Complete package for ease of installation
- Provides correct load cell loading even in difficult installations
- Lower overall height compared to other isolated tension assemblies
- Flintec UB1/UB6 stainless steel, hermetically sealed S-beam load cells
- Two-year limited warranty

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SURVIVOR® ITCM HE

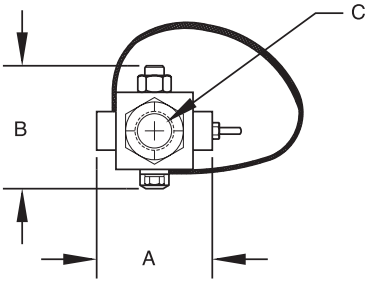
Stainless Steel, Hermetically Sealed, Isolated Tension Cell Modules

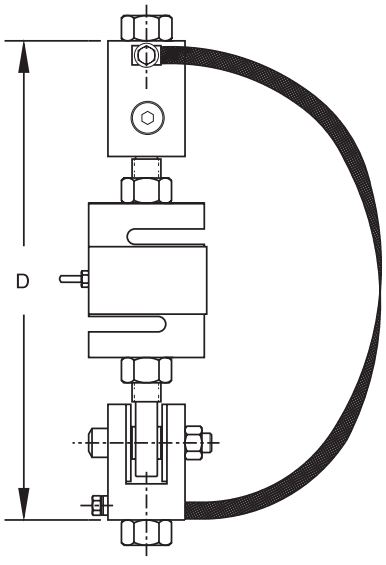
DIMENSIONS - INCHES (MM)

LOAD CELL CAPACITY		A		B		C	D	
225 lb	(102.2 kg)	2.42	(61.4)	2.68	(68.1)	1/2-13 NC	8.92 (ref)	(226.5)
450 lb	(204.1 kg)	2.42	(61.4)	2.68	(68.1)	1/2-13 NC	8.92 (ref)	(226.5)
1125 lb	(510.8 kg)	2.42	(61.4)	2.68	(68.1)	1/2-13 NC	8.92 (ref)	(226.5)
4500 lb	(2041.2 kg)	3.38	(85.9)	2.68	(68.1)	3/4-10 NC	10.12 (ref)	(257.0)

ITCM HE Order Information

Load Rating (per module)	Part #	Price
Single Module		
225 lb	53168	$1,015.00
450 lb	53170	$1,015.00
1125 lb	53167	$1,015.00
4500 lb	53169	$1,425.00
3-Module Kit		
225 lb	53363	$3,255.00
450 lb	53364	$3,255.00
1125 lb	53365	$3,255.00
4500 lb	53367	$4,550.00
4-Module Kit		
225 lb	53358	$4,335.00
450 lb	53359	$4,335.00
1125 lb	53360	$4,355.00
4500 lb	53362	$5,975.00

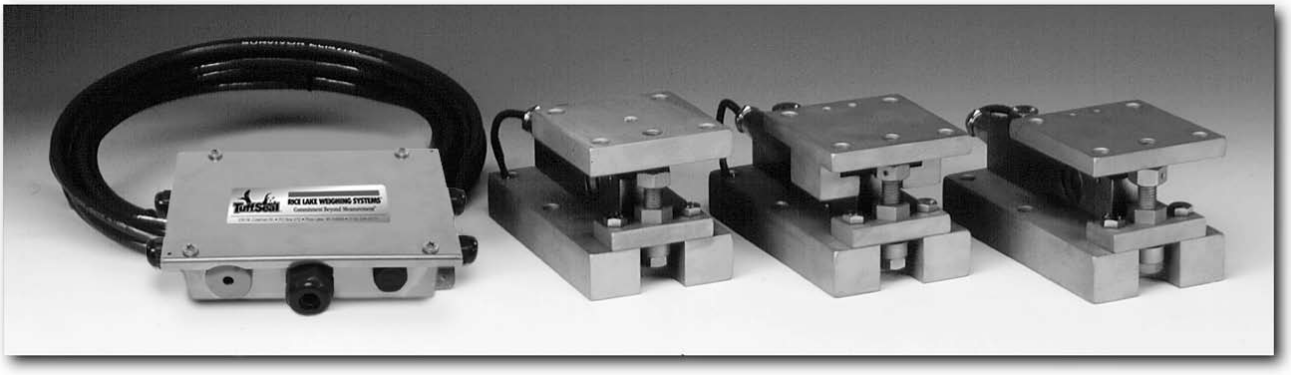




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SURVIVOR Paramounts® HE

Medium-Capacity Weigh Module Systems



Picture is a representation of actual product

Consisting of three different weigh module designs, the Paramounts system offers superior accuracy, even in applications with extreme expansion, contraction and vibration. The fixed-pin module acts as the vessel's primary reference point, enabling rotation. A single side-stop module is then paired with the fixed-pin module to permit mechanical expansion and contraction in one direction. The vessel then becomes a high-accuracy weighing system with the addition of one to six free-sliding modules. This system offers the free motion necessary to eliminate unwanted mechanical side loads, as well as the strength needed to keep the vessel in check. This gives the Paramounts system its industry-leading reputation for exceptional accuracy in unfriendly environments.

Integral jacking/shipping bolts enhance safety by preventing accidental lift-off, facilitate quick field removal of load cells and eliminate load cell damage during transportation. Matched outputs and field-replaceable cable simplify installation and enhance serviceability.

As a system, Paramounts represent the ultimate combination of convenience, accuracy and control.

LOAD CELL CERTIFICATIONS:

FM APPROVED LOAD CELLS *Except 225 lb & 520 lb*

NTEP

WATER PROOF *IP66/68*

COMPLETE KIT INCLUDES:

- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 1 fixed-pin module, 1 side-stop module, and 1 or 2 free-sliding assemblies. Each module is complete with a FLINTEC SB4 or SB10 (520 lb) stainless steel hermetically sealed load cell (see pages 206-210)
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

STANDARD FEATURES:

- Capacities (per module): 520 lb-22,500 lb (2.3 kN/102.1 kg-100 kN/10,205.9 kg)
- All stainless steel construction, mounts 304SS
- Bolt-in-place design; module bolts directly to tank leg without requiring additional load buttons or mounting plates
- Hermetically sealed stainless steel load cells
- Load cell outputs are matched to ±.07%, minimizing maintenance costs
- Unique design allows for thermal expansion/contraction
- Low-profile, self-checking design
- Jacking screw allows empty vessel to be lifted clear of load cell for maintenance
- Unique patented blind load hole technology minimizes unwanted side and eccentric loading
- Vessel is free to slide laterally on Teflon®-coated surfaces
- Two-year limited warranty

APPLICATIONS:

- Medium-capacity, high-vibration mixers, blenders and tanks in temperature extremes
- Chemical batching/blending
- Pharmaceutical processing
- Food processing
- Petroleum refining and batching

OPTIONAL FEATURES:

- NTEP-certified load cells available: capacities 1125-11,250 lb
- OIML-certified load cells available: capacities 1125-11,250 lb

RICE LAKE WEIGHING SYSTEMS

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SURVIVOR Paramounts® HE

Medium-Capacity Weigh Module Systems

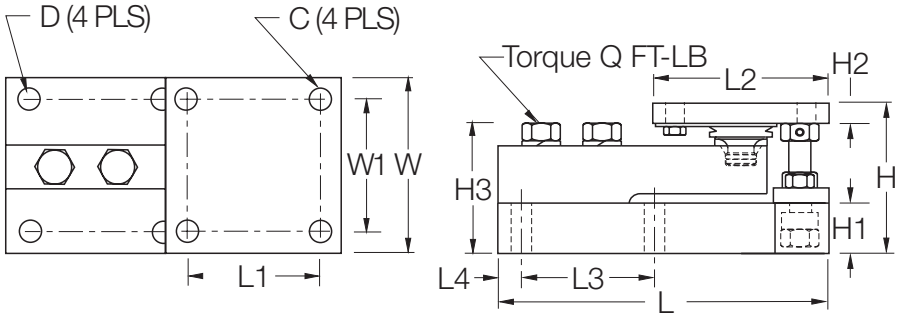
Dimensions

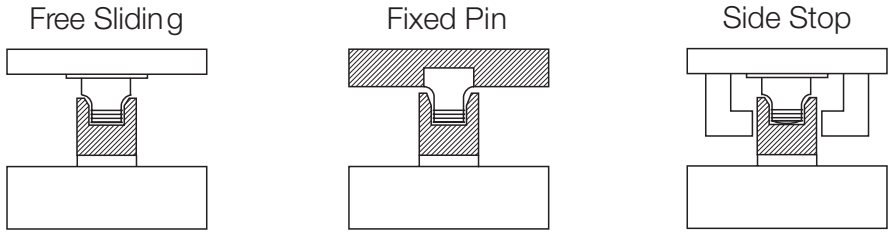
Rated Capacity	C	D	H	H1	*H2	**H2	H3	L	L1	L2	L3	L4	W	W1	Q (FT- LB)
lb/inches															
520 (2.3 kN)	.375	.437	3.49	1.00	.50	.75	2.98	7.51	3.00	4.00	3.00	.50	4.00	3.00	65
1125-5200 (5-23 kN)	.437	.437	3.58	1.25	.50	.75	3.06	7.51	3.00	4.00	3.00	.50	4.00	3.00	65
11,250 (50 kN)	.562	.562	4.66	1.50	.62	1.00	4.09	9.19	3.87	5.00	3.87	.56	5.00	3.87	295
22,500 (100 kN)	.688	.688	6.41	2.00	.75	1.25	5.73	11.46	4.75	6.00	4.75	.69	6.00	4.75	515
kg/mm															
236.1	9.5	11.1	88.6	25.4	12.7	19.1	75.7	190.8	76.2	101.6	76.2	12.7	101.6	76.2	
510.8-2360	11.1	11.1	90.9	31.8	12.7	19.1	77.7	190.8	76.2	101.6	76.2	12.7	101.6	76.2	
5107.5	14.3	14.3	118.4	38.1	15.7	25.4	103.9	233.4	98.3	127.0	98.3	14.2	127.0	98.3	
10,215.0	17.5	17.5	162.8	50.8	19.1	31.8	145.5	291.1	120.7	152.4	120.7	17.5	152.4	120.7	

kN = Kilo newtons

** Side Stop and Free Sliding Units*

*** Fixed Pin Units*





Paramounts NTEP/OIML Order Information

Load Rating (per module)		Part #	Price
NTEP/OIML C3 3-Module Kit			
1125 lb	(5 kN/510.8 kg)	29883	$3,395.00
2250 lb	(10 kN/1021.5 kg)	29884	$3,395.00
5200 lb	(23 kN/2360.8 kg)	29885	$3,395.00
11,250 lb	(50 kN/5107.5 kg)	29886	$4,595.00
NTEP/OIML C3 4-Module Kit			
1125 lb	(5 kN/510.8 kg)	29879	$4,495.00
2250 lb	(10 kN/1021.5 kg)	29880	$4,495.00
5200 lb	(23 kN/2360.8 kg)	29881	$4,495.00
11,250 lb	(50 kN/5107.5 kg)	29882	$5,795.00

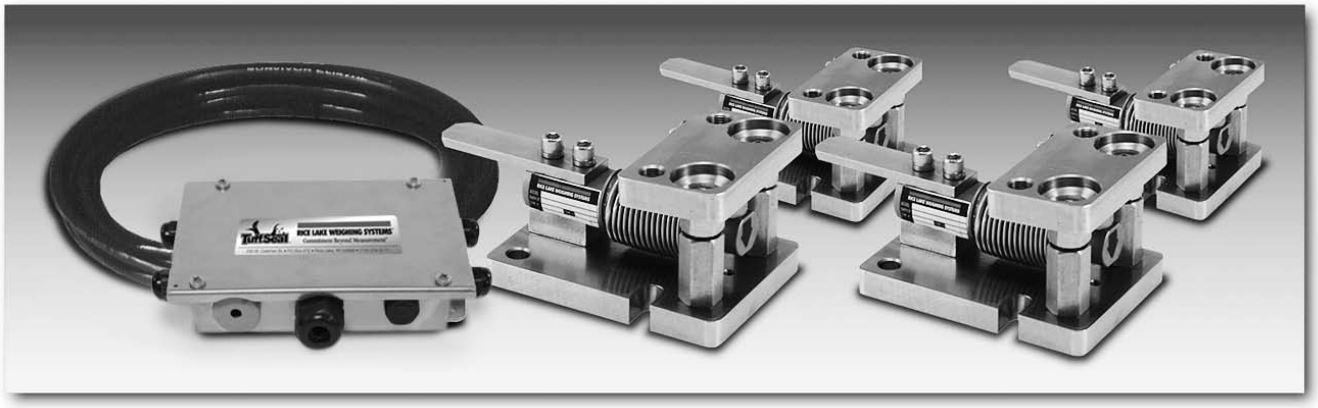
Paramounts Non-NTEP Order Information

Load Rating (per module)		Part #	Price
Non-NTEP 3-Module Kit			
520 lb	(2.3 kN/236.1 kg)	38207	$3,840.00
1125 lb	(5 kN/510.8 kg)	17991	$3,295.00
2250 lb	(10 kN/1021.5 kg)	17992	$3,295.00
5200 lb	(23 kN/2360.8 kg)	17993	$3,295.00
11,250 lb	(50 kN/5107.5 kg)	17994	$4,295.00
22,500 lb	(100 kN/10,215.0 kg)	17995	$4,895.00
Non-NTEP 4-Module Kit			
520 lb	(2.3 kN/236.1 kg)	38208	$5,025.00
1125 lb	(5 kN/510.8 kg)	17998	$4,295.00
2250 lb	(10 kN/1021.5 kg)	17999	$4,295.00
5200 lb	(23 kN/2360.8 kg)	18000	$4,295.00
11,250 lb	(50 kN/5107.5 kg)	18001	$5,395.00
22,500 lb	(100 kN/10,215.0 kg)	18002	$6,795.00
Conduit Adapter, 1/2-14 NPT		17703	$35.00

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RL 1700 HE

Light- to Medium-Capacity Weigh Module Systems



Picture is a representation of actual product

The 1700HE offers precision-machined, weldless construction to maximize pressure washdown cleaning effectiveness. This design, coupled with integral jacking/shipping bolts, eases installation and minimizes maintenance costs. OIML C3-certified load cells in capacities from 5 kg to 5,000 kg provide accurate, consistent weighments. Ideal for multi-ingredient micro-batching applications, the 1700HE provides exceptional performance in hostile environments.

The unique design of the 1700HE isolates the load cell from side loads, overloads, minimizing load cell mechanical damage and eliminating the need for extraneous hardware. The 1700HE offers a guaranteed waterproof rating to ensure reliable performance in moisture-laden environments.

LOAD CELL CERTIFICATIONS:

OIML

COMPLETE KIT INCLUDES:

- 1 JB4SS NEMA 4X stainless steel signal-trim junction box
- 3 or 4 1700HE stainless steel compression mounts
- 3 or 4 RLHBB (5-250 kg) or RLHTO (500-5000 kg) stainless steel, hermetically sealed single-ended beam load cells (see pages 128-120)
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Multi-ingredient micro-batching
- Meat and poultry processing
- Chemical batching/blending
- Dye/ink blending

STANDARD FEATURES:

- All stainless steel construction
- Hermetically sealed, stainless steel load cells, IP66/68, guaranteed waterproof
- OIML-certified load cells from 5 kg-5,000 kg
- Bolt-in-place design; module bolts directly to tank leg without requiring additional load buttons or mounting plates
- Self-checking with lift-off/tip-over protection and jacking/shipping bolts
- Load cell is isolated from overload in all directions
- Weldless construction retains less residue and allows fast, thorough cleaning
- Two-year limited warranty

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RL 1700 HE

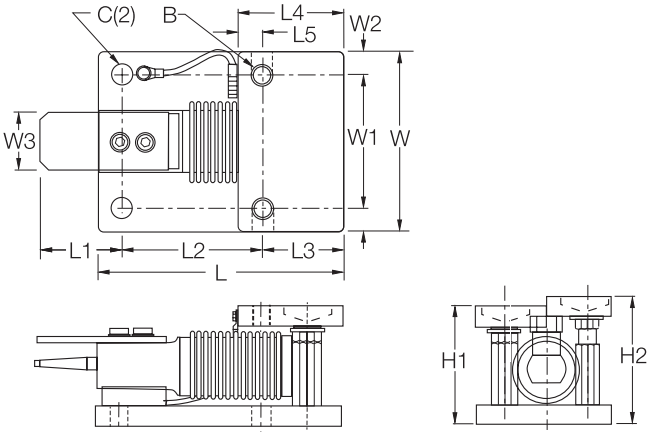
Light- to Medium-Capacity Weigh Module Systems

Dimensions

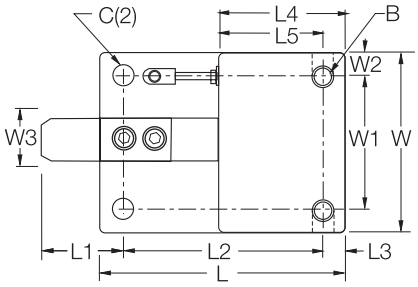
Rated Capacity	C	B	*H1	**H2	L	L1	L2	L3	L4	L5	W	W1	W2	W3
kg/mm														
5-250	10.3	1/2-20NF	80.0	86.1	132.1	64.0	76.0	42.0	56.0	14.0	96.0	70.0	13.0	25.0
500-2000	20.0	3/4-10NC	99.8	108.0	165.0	70.0	130.0	15.0	80.0	64.5	110.0	70.0	20.0	30.0
5000	20.0	3/4-10NC	135.0	143.0	215.0	81.0	161.0	20.0	90.0	70.5	150.0	90.0	30.0	40.0
lb/inches														
11-550	.40	1/2-20NF	3.15	3.39	5.20	2.52	2.99	1.65	2.20	.55	3.78	2.76	.51	.98
1100-4400	.78	3/4-10NC	3.93	4.25	6.50	2.76	5.12	.59	3.15	2.54	4.33	2.76	.79	1.18
11,000	.78	3/4-10NC	5.31	5.63	8.46	3.19	6.34	.79	3.56	2.78	5.91	3.54	1.18	1.57

** In weighing position*

*** In jacked-up position for load cell shipping or removal*



5 kg- 50 kg capacities



500 kg-5000 kg capacities

1700HE Single Module Order Information

Load Rating (per module)		Part #	Price
OIML C3-Certified Load Cells Included			
5 kg	(11.0 lb)	32687	$825.00
10 kg	(22.0 lb)	32688	$825.00
20 kg	(44.1 lb)	32689	$825.00
50 kg	(110.2 lb)	32690	$825.00
100 kg	(220.5 lb)	32691	$825.00
200 kg	(440.9 lb)	32692	$825.00
250 kg	(551.2 lb)	32693	$825.00
500 kg	(1102.3 lb)	32974	$995.00
1000 kg	(2204.6 lb)	32973	$995.00
2000 kg	(4,409.2 lb)	32972	$995.00
5000 kg	(11,023.1 lb)	32971	$1,225.00

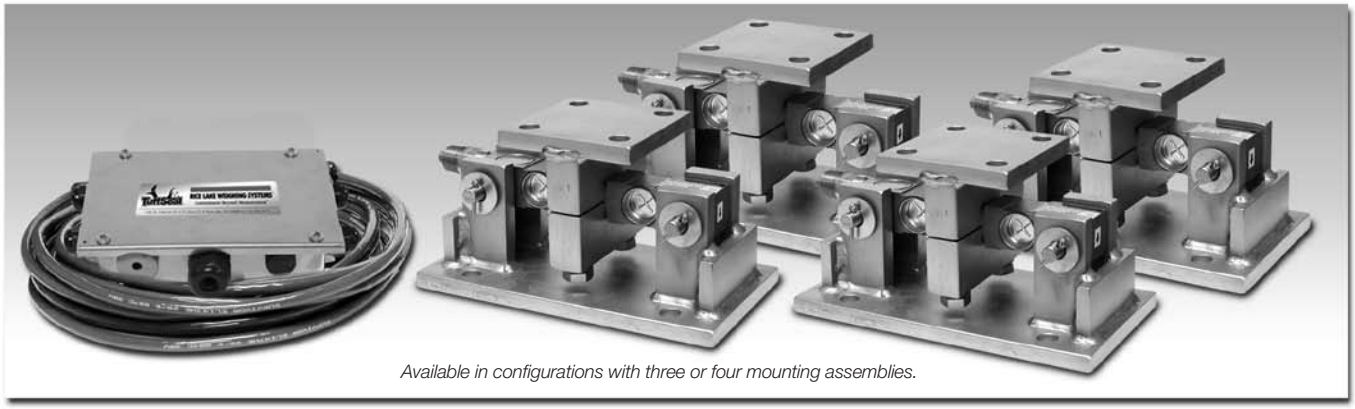
1700HE Kit Order Information

Load Rating (per module)		Part #	Price
3-Module Kit			
5 kg	(11.0 lb)	32920	$2,675.00
10 kg	(22.0 lb)	32921	$2,675.00
20 kg	(44.1 lb)	32922	$2,675.00
50 kg	(110.2 lb)	32923	$2,675.00
100 kg	(220.5 lb)	32924	$2,675.00
200 kg	(440.9 lb)	32925	$2,675.00
250 kg	(551.2 lb)	32926	$2,675.00
500 kg	(1102.3 lb)	32980	$3,185.00
1000 kg	(2204.6 lb)	32981	$3,185.00
2000 kg	(4,409.2 lb)	32982	$3,185.00
5000 kg	(11,023.1 lb)	32983	$3,995.00
4-Module Kit			
5 kg	(11.0 lb)	32927	$3,500.00
10 kg	(22.0 lb)	32928	$3,500.00
20 kg	(44.1 lb)	32929	$3,500.00
50 kg	(110.2 lb)	32930	$3,500.00
100 kg	(220.5 lb)	32931	$3,500.00
200 kg	(440.9 lb)	32932	$3,500.00
250 kg	(551.2 lb)	32933	$3,500.00
500 kg	(1102.3 lb)	32984	$4,180.00
1000 kg	(2204.6 lb)	32985	$4,180.00
2000 kg	(4,409.2 lb)	32986	$4,180.00
5000 kg	(11,023.1 lb)	32987	$4,895.00

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RL1600 HE Series

Medium-Capacity Weigh Modules



Available in configurations with three or four mounting assemblies.

Picture is a representation of actual product

The RL1600 HE Series Mounting Module Kit utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications. The RL1600 HE Series kit is ideally suited for indoor and outdoor process control operations in the medium-capacity ranges. Each module incorporates self-checking capabilities for thermal expansion and contraction.

LOAD CELL CERTIFICATIONS:

FM APPROVED LOAD CELLS

WATER PROOF

IP66/68

COMPLETE KIT INCLUDES:

- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 3 or 4 RL1600 stainless steel compression mounts
- 3 or 4 RL75016 WHE stainless steel, hermetically sealed double-ended shear beam load cells (see page 137)
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Medium-capacity tanks, bins and hoppers
- Bulk material management
- Ingredient batching, mixing and blending

STANDARD FEATURES:

- Capacities (per module): 1000-25,000 lb (453.6-11,339.8 kg)
- All stainless steel construction
- Self-checking easy-to-use design allows module to be bolted directly to tank leg without requiring additional mounting plates or load buttons
- Hermetically sealed IP66/68 protected load cells
- Double-ended shear beam design, center loaded

Fabricated stainless steel module with RL75016 WHE double-ended beam load cell. Refer to page 137 for load cell specifications.



RICE LAKE WEIGHING SYSTEMS

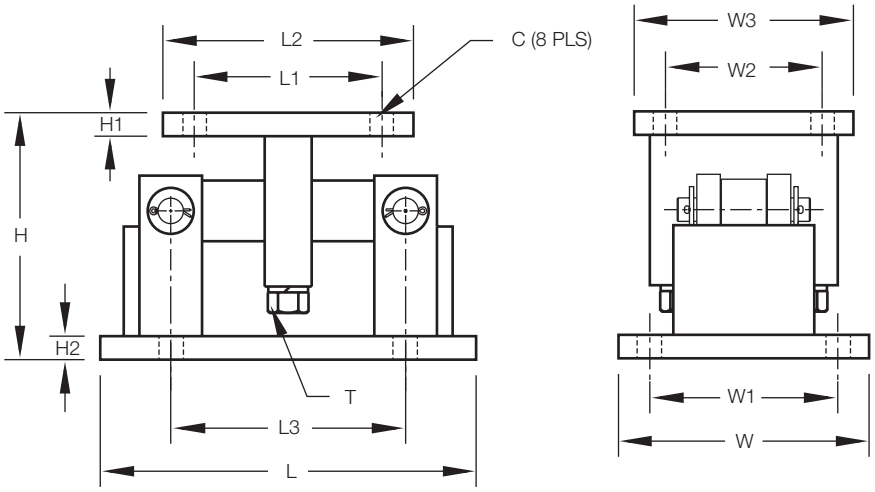
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RL1600 HE Series

Medium-Capacity Weigh Modules

DIMENSIONS

RATED CAPACITY	C	H	H1	H2	L	L1	L2	L3	T	W	W1	W2	W3
lb/inches													
1000-5000	.56	5.00	.50	.50	9.25	2.75	4.00	6.25	1/2-13 UNC	5.00	3.75	2.75	4.00
10,000-25,000	.78	7.87	.75	.75	12.00	6.00	8.00	7.50	3/4-10 UNC	8.00	6.00	6.00	8.00
kg/mm													
453.6-2268.0	14.2	127.0	12.7	12.7	235.0	69.9	101.6	158.8	1/2-13 UNC	127.0	95.3	69.9	101.6
4535.9-11,339.8	19.8	199.9	19.1	19.1	304.8	152.4	203.2	190.5	3/4-10 UNC	203.2	152.4	152.4	203.2



RL1600 HE Order Information

Load Rating (Per Module)		Part #	Price
3-Module Kit			
1000 lb	(453.6 kg)	46723	$3,525.00
2500 lb	(1134.0 kg)	46724	$3,525.00
5000 lb	(2268.0 kg)	46725	$3,525.00
10,000 lb	(4535.9 kg)	46726	$4,925.00
15,000 lb	(6803.9 kg)	46727	$4,925.00
20,000 lb	(9071.9 kg)	84664	$4,925.00
25,000 lb	(11,339.8 kg)	46728	$4,925.00
4-Module Kit			
1000 lb	(453.6 kg)	46729	$4,755.00
2500 lb	(1134.0 kg)	46730	$4,755.00
5000 lb	(2268.0 kg)	46731	$4,755.00
10,000 lb	(4535.9 kg)	46732	$6,955.00
15,000 lb	(6803.9 kg)	46733	$6,955.00
20,000 lb	(9071.9 kg)	84665	$6,955.00
25,000 lb	(11,339.8 kg)	46734	$6,955.00

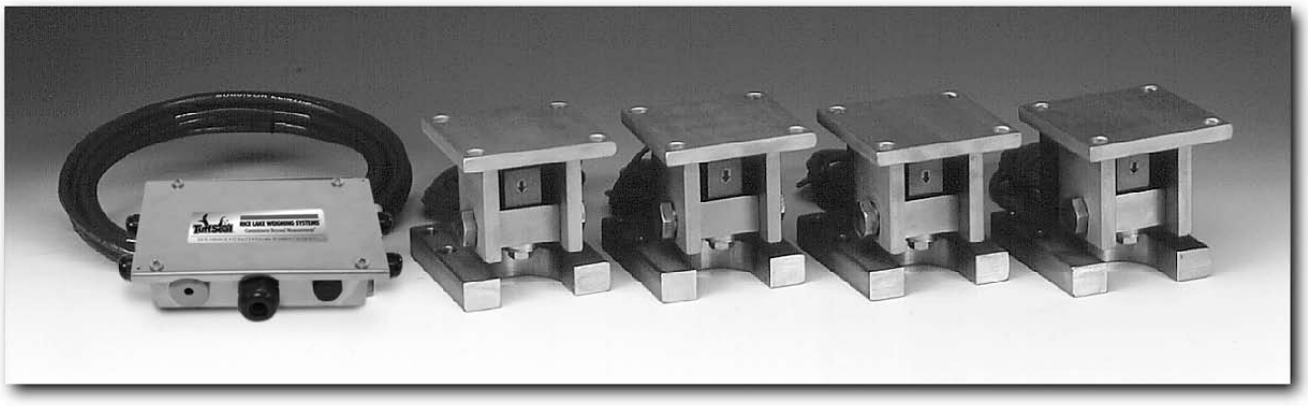
RL1600 HE Order Information

Load Rating (Per Module)		Part #	Price
Single Module (Does not include load cell)			
1000 - 5000 lb	(453.6 - 2268.0 kg)	17813	$565.00
10,000 - 25,000 lb	(4535.9 - 11,339.8 kg)	17815	$1,095.00
Dummy Load Cells (Mild Steel)			
1000 - 5000 lb	(453.6 - 2268.0 kg)	18236	$20.00
10,000 - 25,000 lb	(4535.9 - 11,339.8 kg)	18237	$35.00
Equalizer Pads			
1000 lb - 5000 lb		consult factory	consult factory
10,000 lb - 25,000 lb		consult factory	consult factory

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RL 1855HE

Medium-Capacity Weigh Modules



Picture is a representation of actual product

The internal height adjustment feature of the 1855HE reduces the need for shims or external hardware, simplifying installation. The standard conduit adapter allows for connection to conduit for cable protection. With standard NTEP-certified, 1:5000 division class III load cells, the 1855HE provides an accurate weighing system when properly installed. Highly versatile, the 1855HE offers worry-free operation in a wide variety of rugged applications.

LOAD CELL CERTIFICATIONS:

FM APPROVED LOAD CELLS

NTEP

WATER PROOF IP67

COMPLETE KIT INCLUDES:

- 1 JB4SS NEMA 4X stainless steel signal-trim junction box
- 3 or 4 1855HE stainless steel compression mounts
- 3 or 4 RL35082 stainless steel, welded seal single-ended beam load cells (see page 117)
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Medium-capacity hoppers, bins and tanks
- Chemical batching/blending
- Fertilizer blending
- Optional Features:
- RL35082 IP66/68 load cells available

STANDARD FEATURES:

- All stainless steel construction
- Welded seal, stainless steel load cells, IP67, guaranteed waterproof
- NTEP-certified load cells, 5000d, Class III Multiple Cell
- Bolt-in-place design; module bolts directly to tank leg without requiring additional load buttons or mounting plates
- Self-checking design with lift-off/tip-over protection
- Two-year limited warranty

RICE LAKE WEIGHING SYSTEMS

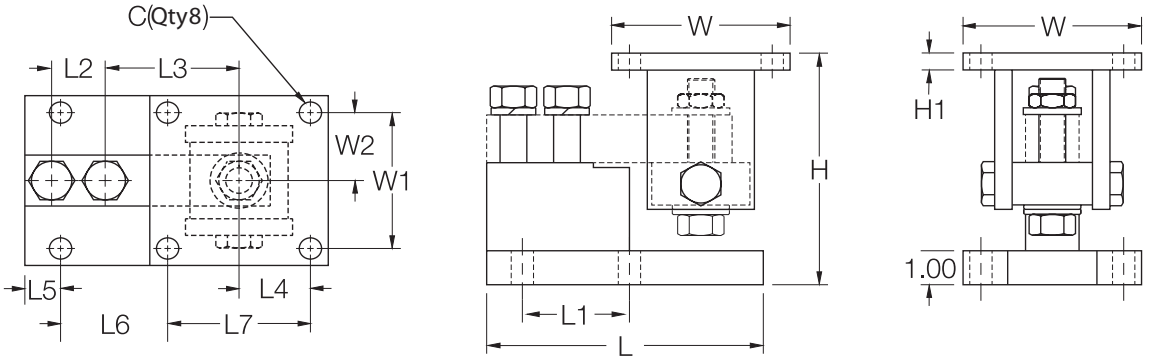
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RL 1855HE

Medium-Capacity Weigh Modules

DIMENSIONS

Rated Capacity	C	H min/max	H1	L	L1	L2	L3	L4	L5	L6	L7	W	W1	W2
lb/inches														
1000-4000	.62	5.25/5.56	.50	6.00	2.00	1.00	3.00	2.00	.68	1.94	4.00	5.00	4.00	2.00
5000-10,000	.62	6.12/6.62	.50	7.75	3.00	1.50	3.75	2.00	1.03	2.97	4.00	5.00	4.00	2.00
kg/mm														
453.6-1814.4	15.8	133.4/141.2	12.7	152.4	50.8	25.4	76.2	50.8	17.3	49.3	101.6	127.0	101.6	50.8
2268.0-4535.9	15.8	155.4/168.1	12.7	196.9	76.2	38.1	95.3	50.8	26.2	75.4	101.6	127.0	101.6	50.8



1855HE Single Module Order Information

Load Rating (per module)		Part #	Price
Single Modules (Includes Load Cell)			
1000 lb	(453.6 kg)	32975	$895.00
2500 lb	(1134.0 kg)	32976	$895.00
4000 lb	(1814.4 kg)	32977	$895.00
5000 lb	(2268.0 kg)	32978	$995.00
10,000 lb	(4535.9 kg)	32979	$995.00

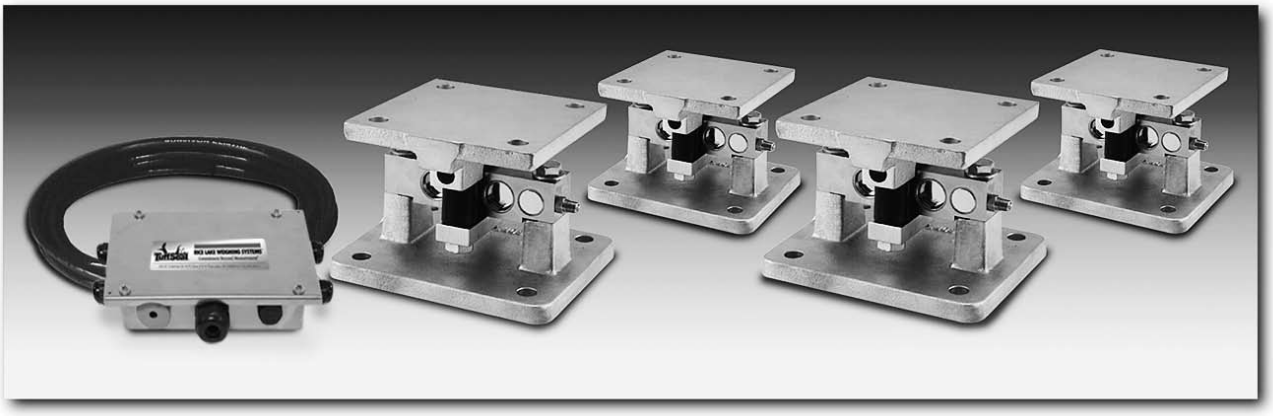
1855HE Kit Order Information

Load Rating (per module)		Part #	Price
3-Module Kit			
1000 lb	(453.6 kg)	30390	$2,885.00
2500 lb	(1134.0 kg)	30388	$2,885.00
4000 lb	(1814.4 kg)	30386	$2,885.00
5000 lb	(2268.0 kg)	30384	$3,185.00
10,000 lb	(4535.9 kg)	30382	$3,185.00
4-Module Kit			
1000 lb	(453.6 kg)	30389	$3,780.00
2500 lb	(1134.0 kg)	30387	$3,780.00
4000 lb	(1814.4 kg)	30385	$3,780.00
5000 lb	(2268.0 kg)	30383	$4,180.00
10,000 lb	(4535.9 kg)	30381	$4,180.00

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RL 2100HE

Heavy-Capacity Weigh Modules



Picture is a representation of actual product

Incorporating an articulating load plate, hardened load pin and double-ended beam load cell into one simple design, the 2100HE tolerates eccentric loads and side loads of up to 100% of capacity.

The 2100HE comes standard with NTEP-certified, 1:5000 division class IIIL load cells, yielding up to 0.02% total error. An integral conduit adapter offers added washdown protection. These standard features give the 2100HE accuracy and dependability in one heavyweight package.

The simple load introduction and load cell design provides consistent accuracy in washdown applications, making the 2100HE ideal for high-capacity hostile environments.

LOAD CELL CERTIFICATIONS:

FM APPROVED LOAD CELLS

NTEP

WATER PROOF IP67

COMPLETE KIT INCLUDES:

- 1 JB4SS NEMA 4X stainless steel signal-trim junction box
- 3 or 4 2100HE stainless steel compression mounts
- 3 or 4 RL75060S stainless steel, welded seal double-ended beam load cells (see page 139)
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Heavy-capacity tanks, blenders, reactors and bulk inventory management
- Petroleum refining process control
- Chemical blending/batching

STANDARD FEATURES:

- All stainless steel construction
- Welded seal, stainless steel load cells, IP67, guaranteed waterproof
- NTEP-certified load cells, 5000d, Class IIIL/10,000d, Class IIIL Multiple Cell
- Bolt-in-place design; module bolts directly to tank leg without requiring additional load buttons or mounting plates
- Self-checking design with lift-off/tip-over protection
- Two-year limited warranty

RICE LAKE WEIGHING SYSTEMS

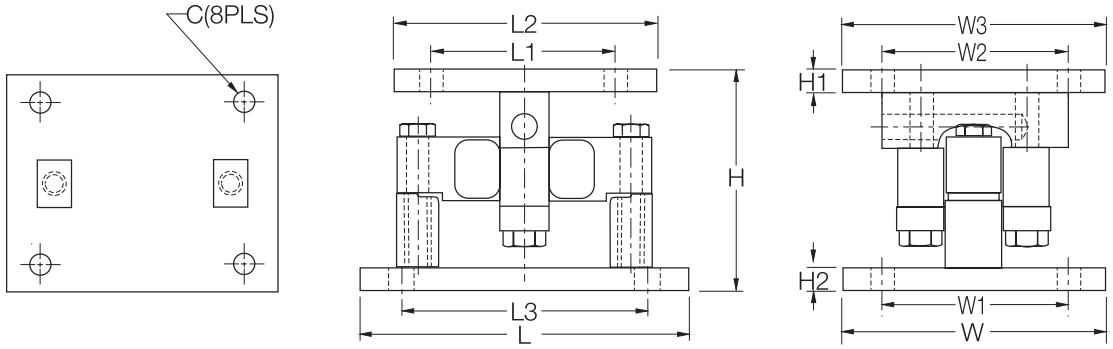
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RL 2100HE

Heavy-Capacity Weigh Modules

DIMENSIONS

Rated Capacity	C	H	H1	H2	L	L1	L2	L3	W	W1	W2	W3
lb/inches												
20,000-25,000	.78	6.85	.75	.75	10.00	6.00	8.00	7.50	8.00	6.00	6.00	8.00
35,000-100,000	1.13	9.42	1.00	1.00	14.00	6.50	9.00	11.50	10.00	7.50	6.50	9.00
kg/mm												
9071.9-11,339.8	19.8	174.0	19.1	19.1	254.0	152.4	203.2	190.5	203.2	152.4	152.4	203.2
15,875.7-45,359.2	28.7	239.3	25.4	25.4	355.6	165.1	228.6	292.1	254.0	190.5	165.1	228.6



2100HE Single Module Order Information

Load Rating (per module)		Part #	Price
Single Module (Includes Load Cell)			
20,000 lb	(9071.8 kg)	32951	$1,625.00
25,000 lb	(11,339.8 kg)	65541	$1,625.00
35,000 lb	(15,875.7 kg)	32952	$2,495.00
50,000 lb	(22,679.6 kg)	32953	$2,495.00
60,000 lb	(27,215.5 kg)	32954	$2,495.00
75,000 lb	(34,019.4 kg)	32955	$2,495.00
100,000 lb	(45,359.2 kg)	32956	$4,295.00

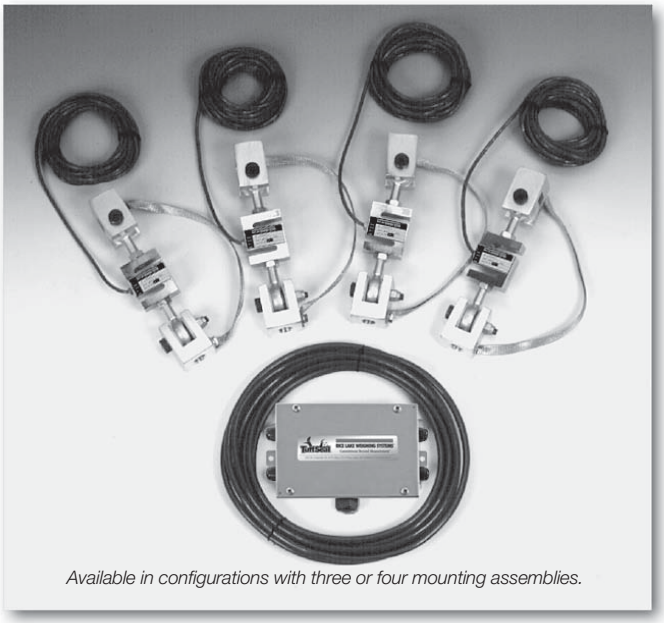
2100HE Kit Order Information

Load Rating (per module)		Part #	Price
3-Module Kit			
20,000 lb	(9071.8 kg)	32970	$5,025.00
25,000 lb	(11,339.8 kg)	65984	$5,025.00
35,000 lb	(15,875.7 kg)	32969	$7,655.00
50,000 lb	(22,679.6 kg)	32968	$7,655.00
60,000 lb	(27,215.5 kg)	32967	$7,655.00
75,000 lb	(34,019.4 kg)	32966	$7,655.00
100,000 lb	(45,359.2 kg)	32965	$12,500.00
4-Module Kit			
20,000 lb	(9071.8 kg)	32964	$6,700.00
25,000 lb	(11,339.8 kg)	65983	$6,700.00
35,000 lb	(15,875.7 kg)	32963	$10,140.00
50,000 lb	(22,679.6 kg)	32962	$10,140.00
60,000 lb	(27,215.5 kg)	32961	$10,140.00
75,000 lb	(34,019.4 kg)	32960	$10,140.00
100,000 lb	(45,359.2 kg)	32959	$16,540.00

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ITCM

Isolated Tension Cell Modules



Available in configurations with three or four mounting assemblies.

Picture is a representation of actual product

The ITCM Series utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications and mechanical scale conversions. The ITCM incorporates clevis and unique rod end ball joint assemblies to reduce the overall length to less than half of the traditional tension cell mounts, while providing correct load alignment. In addition, the load cell is completely electrically isolated from stray currents, which are a major cause of load cell failure. To complete the design, a grounding strap connects the two clevis assemblies to further provide safety to your load cells.

Module with RL20000 S-Beam load cell. Refer to page 102 for load cell specifications.



COMPLETE KIT INCLUDES:

- 3 or 4 ITCM assemblies with RL20000 NTEP-certified S-Beam load cells (see page 102)
- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

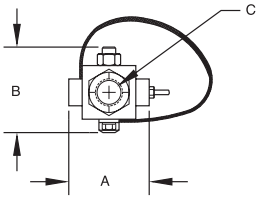
- Suspended hoppers and tanks
- Mechanical scale conversions
- Use as a single module or in multiples

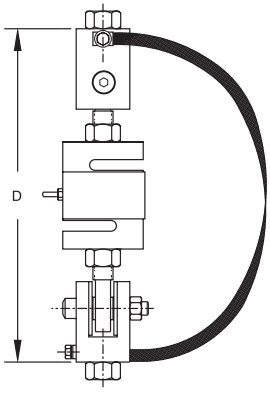
STANDARD FEATURES:

- Capacities (per module): 100-20,000 lb (45.4-9071.1 kg)
- Clevis mounts with nylon insulating washers
- Teflon®-lined rod end ball joints
- Load cell is completely isolated from stray currents*
- Grounding strap provides alternative path to ground
- Complete package for ease of installation
- Provides correct load cell loading even in difficult installations
- Lower overall height compared to other isolated tension assemblies
- Zinc plated clevis assemblies
- * Excluding 20,000 lb (9071.9 kg) capacity

LOAD CELL CERTIFICATIONS:







Important: Read "Load Cell Mounting Hardware Safety Guidelines" on page 344

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ITCM

Isolated Tension Cell Modules

*LOAD RATING DIMENSIONS - INCHES (MM)

Load Cell Capacity		A		B		C	D	
100 lb	(45.4 kg)	2.00	(50.8)	1.81	(46.0)	3/8-16 NC	7.00 (ref)	(177.8)
100 lb	(45.4 kg)	2.00	(50.8)	1.81	(46.0)	1/2-13 NC	7.00 (ref)	(177.8)
150 lb	(68.0 kg)	2.00	(50.8)	1.81	(46.0)	3/8-16 NC	7.00 (ref)	(177.8)
150 lb	(68.0 kg)	2.00	(50.8)	1.81	(46.0)	1/2-13 NC	7.00 (ref)	(177.8)
200 lb	(90.7 kg)	2.00	(50.8)	1.81	(46.0)	3/8-16 NC	7.00 (ref)	(177.8)
200 lb	(90.7 kg)	2.00	(50.8)	1.81	(46.0)	1/2-13 NC	7.00 (ref)	(177.8)
250 lb	(113.4 kg)	2.00	(50.8)	1.81	(46.0)	3/8-16 NC	7.00 (ref)	(177.8)
250 lb	(113.4 kg)	2.00	(50.8)	1.81	(46.0)	1/2-13 NC	7.00 (ref)	(177.8)
500 lb	(226.8 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)
500 lb	(226.8 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)
500 lb	(226.8 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)
750 lb	(340.2 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)
750 lb	(340.2 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)
750 lb	(340.2 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)
1000 lb	(453.6 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)
1000 lb	(453.6 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)
1000 lb	(453.6 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)
1500 lb	(680.4 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)
1500 lb	(680.4 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)
1500 lb	(680.4 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)
2000 lb	(907.2 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)
2000 lb	(907.2 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)
2000 lb	(907.2 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)
2500 lb	(1134.0 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)
2500 lb	(1134.0 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)
3000 lb	(1360.8 kg)	3.37	(85.6)	3.37	(85.6)	3/4-10 NC	10.50 (ref)	(266.7)
5000 lb	(2268.0 kg)	3.37	(85.6)	3.37	(85.6)	3/4-10 NC	12.25 (ref)	(311.2)
5000 lb	(2268.0 kg)	3.37	(85.6)	3.37	(85.6)	1-8 NC	12.25 (ref)	(311.2)
10,000 lb	(4535.9 kg)	3.37	(85.6)	3.37	(85.6)	1-8 NC	12.25 (ref)	(311.2)
15,000 lb	(6803.9 kg)	4.00	(101.6)	4.12	(104.6)	1 1/4-7 NC	18.00 (ref)	(457.2)
20,000 lb	(9071.9 kg)	5.00	(127.0)	4.12	(104.6)	1 1/2-6 UNC	20.00 (ref)	(508.0)

** Load Rating is per module*

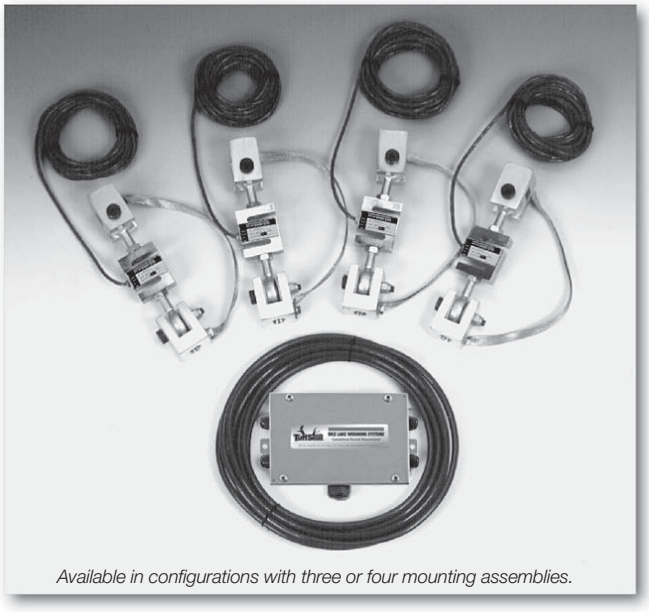
ITCM Order Information

Single Module		3-Module Kit		4-Module Kit	
Part #	**Price**	**Part #**	**Price**	**Part #**	**Price**
17851	$450.00	18003	$1,600.00	18027	$2,050.00
17831	$450.00	18004	$1,600.00	18028	$2,050.00
30337	$450.00	30357	$1,600.00	30359	$2,050.00
30336	$450.00	30358	$1,600.00	30360	$2,050.00
30335	$450.00	30361	$1,600.00	30363	$2,050.00
30338	$450.00	30362	$1,600.00	30364	$2,050.00
17852	$450.00	18005	$1,600.00	18029	$2,050.00
17832	$450.00	18006	$1,600.00	18030	$2,050.00
17853	$480.00	18007	$1,690.00	18031	$2,075.00
17858	$480.00	18008	$1,690.00	18032	$2,075.00
17833	$480.00	18009	$1,690.00	18033	$2,075.00
17854	$480.00	18010	$1,690.00	18034	$2,075.00
17859	$480.00	18011	$1,690.00	18035	$2,075.00
17834	$480.00	18012	$1,690.00	18036	$2,075.00
17855	$480.00	18013	$1,690.00	18037	$2,075.00
17860	$480.00	18014	$1,690.00	18038	$2,075.00
17836	$480.00	18018	$1,690.00	18042	$2,075.00
17857	$480.00	18019	$1,690.00	18043	$2,075.00
17862	$480.00	18020	$1,690.00	18044	$2,075.00
17837	$480.00	18021	$1,690.00	18045	$2,075.00
17863	$480.00	18022	$1,690.00	18046	$2,075.00
17838	$480.00	18023	$1,690.00	18047	$2,075.00
30339	$520.00	30365	$1,810.00	30366	$2,310.00
17864	$695.00	18024	$2,340.00	18048	$3,030.00
17839	$695.00	18025	$2,340.00	18049	$3,030.00
17840	$695.00	18026	$2,340.00	18050	$3,030.00
17960	$1,370.00	30353	$4,655.00	30354	$5,980.00
17961	$1,715.00	30355	$5,455.00	30356	$7,275.00
17835	$480.00	18015	$1,690.00	18039	$2,075.00
17856	$480.00	18016	$1,690.00	18040	$2,075.00
17861	$480.00	18017	$1,690.00	18041	$2,075.00

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ITCM SS

Stainless Steel Isolated Tension Cell Modules



Available in configurations with three or four mounting assemblies.

Picture is a representation of actual product

The ITCM Series utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications and mechanical scale conversions. The ITCM SS incorporates clevis and unique rod end ball joint assemblies to reduce the overall length to less than half of the traditional tension cell mounts, while providing correct load alignment. In addition, the load cell is completely electrically isolated from stray currents, which are a major cause of load cell failure. To complete the design, a grounding strap connects the two clevis assemblies to further provide safety to your load cells.

COMPLETE KIT INCLUDES:

- 3 or 4 ITCM assemblies with RL20000 ST NTEP-certified S-Beam load cells (see page 104)
- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Suspended hoppers and tanks
- Mechanical scale conversions
- Use as a single module or in multiples

STANDARD FEATURES:

- Capacities (per module): 100-5,000 lb (45.4-2268.0 kg)
- Clevis mounts with nylon insulating washers
- Teflon®-lined rod end ball joints
- Load cell is completely isolated from stray currents
- Grounding strap provides alternative path to ground
- Complete package for ease of installation
- Provides correct load cell loading even in difficult installations
- Lower overall height compared to other isolated tension assemblies

LOAD CELL CERTIFICATIONS:

Module with RL20000 ST S-Beam load cell. Refer to page 104 for load cell specifications.



Important: Read "Load Cell Mounting Hardware Safety Guidelines" on page 344

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ITCM SS

Stainless Steel Isolated Tension Cell Modules

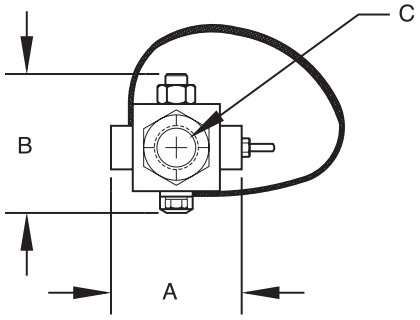
*LOAD RATING DIMENSIONS - INCHES (MM)

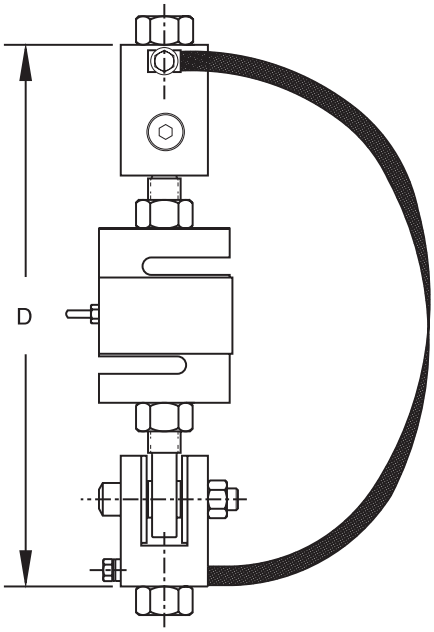
Load Cell Capacity	A	B	C	D
100 lb (45.4 kg)	2.00 (50.8)	1.81 (46.0)	3/8-16 NC	7.00 (ref) (177.8)
100 lb (45.4 kg)	2.00 (50.8)	1.81 (46.0)	1/2-13 NC	7.00 (ref) (177.8)
250 lb (113.4 kg)	2.00 (50.8)	1.81 (46.0)	3/8-16 NC	7.00 (ref) (177.8)
250 lb (113.4 kg)	2.00 (50.8)	1.81 (46.0)	1/2-13 NC	7.00 (ref) (177.8)
500 lb (226.8 kg)	2.68 (68.1)	2.68 (68.1)	1/2-13 NC	9.50 (ref) (241.3)
500 lb (226.8 kg)	2.68 (68.1)	2.68 (68.1)	5/8-11 NC	9.50 (ref) (241.3)
750 lb (340.2 kg)	2.68 (68.1)	2.68 (68.1)	1/2-13 NC	9.50 (ref) (241.3)
750 lb (340.2 kg)	2.68 (68.1)	2.68 (68.1)	5/8-11 NC	9.50 (ref) (241.3)
1000 lb (453.6 kg)	2.68 (68.1)	2.68 (68.1)	1/2-13 NC	9.50 (ref) (241.3)
1000 lb (453.6 kg)	2.68 (68.1)	2.68 (68.1)	5/8-11 NC	9.50 (ref) (241.3)
2500 lb (1134.0 kg)	2.68 (68.1)	2.68 (68.1)	5/8-11 NC	9.50 (ref) (241.3)
2500 lb (1134.0 kg)	2.68 (68.1)	2.68 (68.1)	3/4-10 NC	9.50 (ref) (241.3)
3000 lb (1360.8 kg)	3.37 (85.6)	3.37 (85.6)	3/4-10 NC	10.75 (ref) (273.0)
5000 lb (2268.0 kg)	3.37 (85.6)	3.37 (85.6)	3/4-10 NC	12.00 (ref) (304.8)

** Load Rating is per module*

ITCM SS Order Information

Single Module		3-Module Kit		4-Module Kit	
Part #	Price	Part #	Price	Part #	Price
46765	$725.00	46735	$2,385.00	46751	$3,015.00
46766	$725.00	46736	$2,385.00	46752	$3,015.00
46767	$725.00	46737	$2,385.00	46753	$3,015.00
46768	$725.00	46738	$2,385.00	46754	$3,015.00
46769	$725.00	46739	$2,385.00	46755	$3,015.00
46770	$725.00	46740	$2,385.00	46756	$3,015.00
46771	$725.00	46741	$2,385.00	46757	$3,015.00
46772	$725.00	46742	$2,385.00	46758	$3,015.00
46773	$725.00	46743	$2,385.00	46759	$3,015.00
46774	$725.00	46744	$2,385.00	46760	$3,015.00
46775	$725.00	46745	$2,385.00	46761	$3,015.00
46776	$725.00	46746	$2,385.00	46762	$3,015.00
46777	$775.00	46747	$2,535.00	46763	$3,215.00
46778	$1,225.00	46748	$3,885.00	46764	$5,115.00

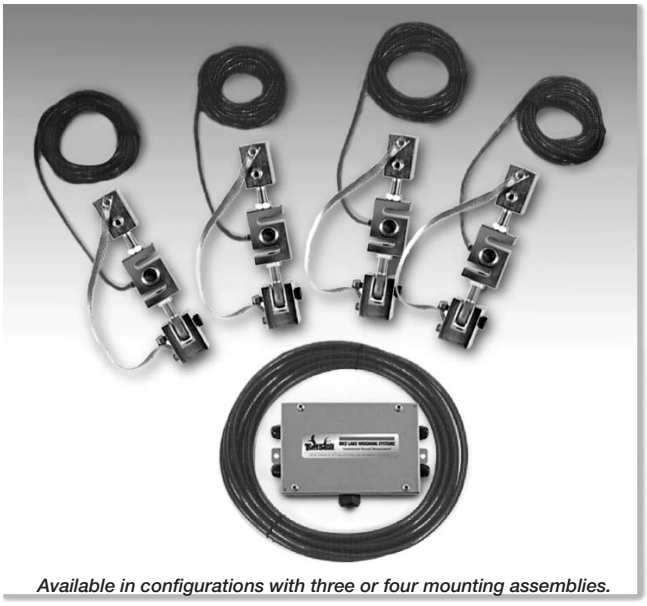




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ITCM HE

Stainless Steel, Welded-Seal NTEP-Approved Isolated Tension Cell



Available in configurations with three or four mounting assemblies.

Picture is a representation of actual product

The ITCM Series utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications and mechanical scale conversions. The ITCM HE incorporates clevis and unique rod end ball joint assemblies to reduce the overall length to less than half of the traditional tension cell mounts, while providing correct load alignment. In addition, the load cell is completely electrically isolated from stray currents, which are a major cause of load cell failure. To complete the design, a grounding strap connects the two clevis assemblies to further provide safety to your load cells.

Module with RL20001 HE S-Beam load cell. Refer to page 106 for load cell specifications.



COMPLETE KIT INCLUDES:

- 3 or 4 ITCM assemblies with RL20001HE Stainless Steel, Welded Seal (see page 106)
- NTEP-certified S-Beam load cells
- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Suspended hoppers and tanks
- Mechanical scale conversions
- Use as a single module or in multiples

STANDARD FEATURES:

- Capacities (per module): 500-5,000 lb (226.8-2268.0 kg)
- Clevis mounts with nylon insulating washers
- Teflon®-lined rod end ball joints
- Load cell is completely isolated from stray currents
- Grounding strap provides alternative path to ground
- Complete package for ease of installation
- Provides correct load-cell loading even in difficult installations
- Lower overall height compared to other isolated tension assemblies

LOAD CELL CERTIFICATIONS:

FM APPROVED LOAD CELLS

NTEP

Important: Read "Load Cell Mounting Hardware Safety Guidelines" on page 344

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ITCM HE

Stainless Steel, Welded-Seal NTEP-Approved Isolated Tension Cell

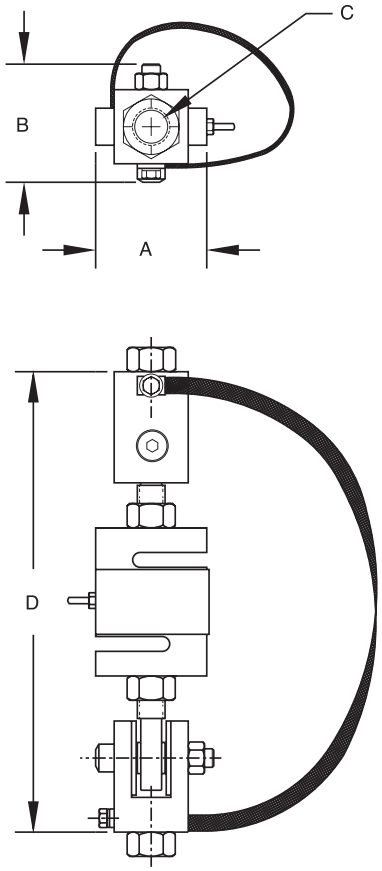
*LOAD RATING DIMENSIONS - INCHES (MM)

Load Cell Capacity		A		B		C	D	
500 lb	(226.8 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)
500 lb	(226.8 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)
500 lb	(226.8 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)
750 lb	(340.2 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)
750 lb	(340.2 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)
750 lb	(340.2 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)
1000 lb	(453.6 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)
1000 lb	(453.6 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)
1000 lb	(453.6 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)
1500 lb	(680.4 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)
1500 lb	(680.4 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)
1500 lb	(680.4 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)
2000 lb	(907.2 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)
2000 lb	(907.2 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)
2000 lb	(907.2 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)
2500 lb	(1134.0 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)
2500 lb	(1134.0 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)
3000 lb	(1360.8 kg)	3.37	(85.6)	3.37	(85.6)	3/4-10 NC	10.00 (ref)	(254.0)
5000 lb	(2268.0 kg)	3.37	(85.6)	3.37	(85.6)	3/4-10 NC	12.62 (ref)	(320.5)

** Load Rating is per module*

ITCM HE Order Information

Single Module		3-Module Kit		4-Module Kit	
Part #	Price	Part #	Price	Part #	Price
46599	$825.00	46561	$2,785.00	46580	$3,515.00
46600	$825.00	46562	$2,785.00	46581	$3,515.00
46601	$825.00	46563	$2,785.00	46582	$3,515.00
46602	$1,210.00	46564	$3,885.00	46583	$5,105.00
46603	$1,210.00	46565	$3,885.00	46584	$5,105.00
46604	$1,210.00	46566	$3,885.00	46585	$5,105.00
46605	$1,210.00	46567	$3,885.00	46586	$5,105.00
46606	$1,210.00	46568	$3,885.00	46587	$5,105.00
46607	$1,210.00	46569	$3,885.00	46588	$5,105.00
46608	$1,210.00	46570	$3,885.00	46589	$5,105.00
46609	$1,210.00	46571	$3,885.00	46590	$5,105.00
46610	$1,210.00	46572	$3,885.00	46591	$5,105.00
46611	$1,210.00	46573	$3,885.00	46592	$5,105.00
46612	$1,210.00	46574	$3,885.00	46593	$5,105.00
46613	$1,210.00	46575	$4,590.00	46594	$5,105.00
46614	$1,210.00	46576	$3,885.00	46595	$5,105.00
46615	$1,210.00	46577	$3,885.00	46596	$5,105.00
46616	$1,210.00	46578	$3,885.00	46597	$5,105.00
46617	$1,695.00	46579	$5,350.00	46598	$7,025.00



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RL50210 TA

50-500 lb Capacity Mini Tank Weighing Module



Available in configurations with three or four mounting assemblies.

Picture is a representation of actual product

The RL50210 TA Weigh Module Kit provides a cost-effective alternative for your customers' low-range weighing needs. A variety of features makes this kit easy to install and an exceptional choice for various indoor weighing applications where checking requirements are low. Environmentally protected load cells, neoprene isolation/compression mounts and other Rice Lake Weighing Systems components are the keys to this module's outstanding performance.

Module with RL50210 or RL50210SS cantilever beam load cell; capacities (per module): 50 lb (22.7 kg), 100 lb (45.4 kg), 150 lb (68.0 kg) and 250 lb (113.4 kg). Refer to page 125 for load cell specifications. 500 lb model features RL30000 single-ended beam load cell; refer to page 109 for load cell specifications.



COMPLETE KIT INCLUDES:

- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 3 or 4 RL50210 cantilever beam load cells (50-250 lb models) (see page 125)
- 3 or 4 RL30000 single-ended beam load cells (500 lb models) (see page 129)
- 3 or 4 neoprene isolation/compression mounts
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Small tanks and hoppers
- Conveyor/In-motion weighing
- Small platform scales where minor shock loading may be a problem

STANDARD FEATURES:

- Zinc plated, mild steel modules
- Lower weighing ranges from 50-500 lb (22.7-226.8 kg) per module
- Environmentally protected load cells
- Neoprene isolation/compression mounts allow for minor misalignment, thermal expansion and shock absorption
- Overload stop for 500 lb (226.8 kg) modules provides durability

OPTIONAL FEATURES:

- Stainless steel modules available in 50, 100, 150, 250 and 500 lb (2237, 45.4, 68.0, 113.4, 226.8 kg) capacity with RL60040SST and RL39123 stainless steel load cells or Vishay Sensortronics 65023 SS load cells
- 65059 kits available with Vishay Sensortronics 60040 load cells, capacities: 50-250 lb (22.7-113.4 kg) or 65023 load cells, capacity: 500 lb (226.8 kg)

LOAD CELL CERTIFICATION:

FM APPROVED LOAD CELLS

NTEP

RL30000 only

RICE LAKE WEIGHING SYSTEMS

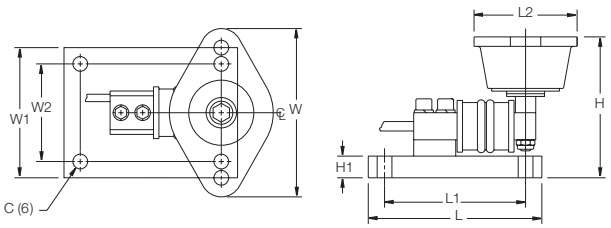
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RL50210 TA

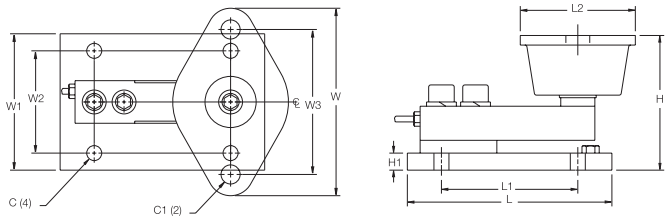
50-500 lb Capacity Mini Tank Weighing Module

DIMENSIONS

Rated Capacity	C	C1	H	H1	L	L1	L2	W	W1	W2	W3
lb/inches											
50-250	.34	—	3.13	.50	4.00	3.25	2.38	3.88	3.00	2.25	—
500	.44	.56	3.88	.50	6.00	4.00	3.38	5.50	4.00	3.00	4.13
kg/mm											
22.7-113.4	8.6	—	79.5	12.7	101.6	82.6	60.5	98.6	76.2	57.2	—
226.8	11.2	14.2	98.6	12.7	152.4	101.6	85.9	139.7	101.6	76.2	104.9



50-250 lb (22.7-113.4 kg)



500 lb (226.8 kg)

RL50210 TA RLWS Order Information

*Load Rating (Load Cell Capacity)		Part #	Price
Mild Steel Single Module (Includes Load Cell)			
50 lb	(22.7 kg)	17844	$395.00
100 lb	(45.4 kg)	17845	$395.00
150 lb	(68.0 kg)	17846	$395.00
250 lb	(113.4 kg)	17847	$395.00
500 lb	(226.8 kg)	17848	$525.00
Mild Steel 3-Module Kit			
50 lb	(22.7 kg)	18051	$1,370.00
100 lb	(45.4 kg)	18052	$1,370.00
150 lb	(68.0 kg)	18053	$1,370.00
250 lb	(113.4 kg)	18054	$1,370.00
500 lb	(226.8 kg)	18055	$1,775.00
Mild Steel 4-Module Kit			
50 lb	(22.7 kg)	18057	$1,760.00
100 lb	(45.4 kg)	18058	$1,760.00
150 lb	(68.0 kg)	18059	$1,760.00
250 lb	(113.4 kg)	18060	$1,760.00
500 lb	(226.8 kg)	18061	$2,250.00
Stainless Steel Single Module (Includes Load Cell)			
50 lb	(22.7 kg)	63033	$625.00
100 lb	(45.4 kg)	63034	$625.00
150 lb	(68.0 kg)	63035	$625.00
250 lb	(113.4 kg)	63036	$625.00
500 lb	(226.8 kg)	17954	$610.00
Stainless Steel 3-Module Kit			
500 lb	(226.8 kg)	30394	$2,020.00
Stainless Steel 4-Module Kit			
500 lb	(226.8 kg)	30393	$2,650.00

65059 Vishay Sensortronics Order Information

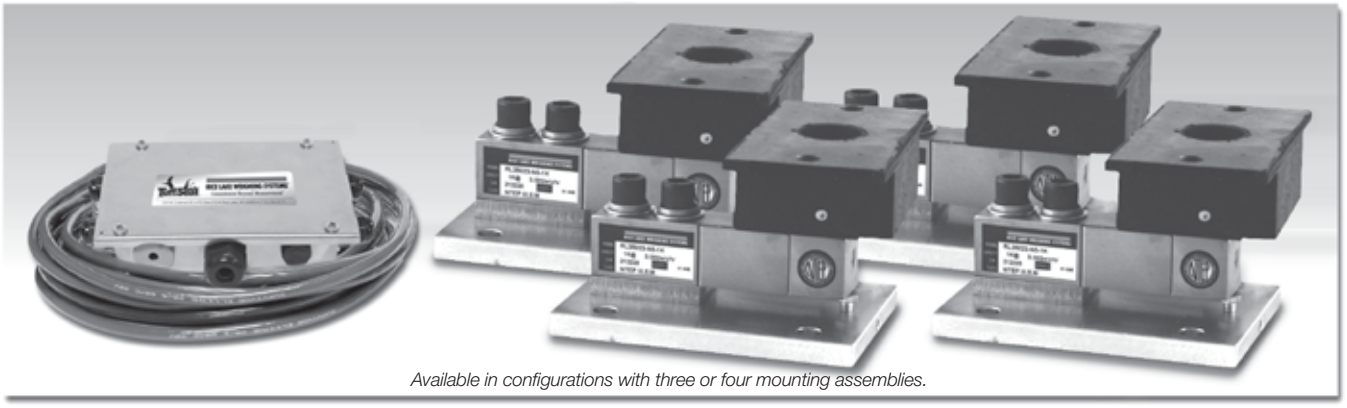
*Load Rating (Load Cell Capacity)		Part #	Price
Mild Steel Single Module (Includes Load Cell)			
50 lb	(22.7 kg)	17825	$395.00
100 lb	(45.4 kg)	17826	$395.00
150 lb	(68.0 kg)	17827	$395.00
250 lb	(113.4 kg)	17828	$395.00
500 lb	(226.8 kg)	17829	$525.00
Mild Steel 3-Module Kit			
50 lb	(22.7 kg)	18063	$1,370.00
100 lb	(45.4 kg)	18064	$1,370.00
150 lb	(68.0 kg)	18065	$1,370.00
250 lb	(113.4 kg)	18066	$1,370.00
500 lb	(226.8 kg)	18067	$1,775.00
Mild Steel 4-Module Kit			
50 lb	(22.7 kg)	18069	$1,760.00
100 lb	(45.4 kg)	18070	$1,760.00
150 lb	(68.0 kg)	18071	$1,760.00
250 lb	(113.4 kg)	18072	$1,760.00
500 lb	(226.8 kg)	18073	$2,250.00
Stainless Steel Single Module (Includes Load Cell)			
500 lb	(226.8 kg)	17950	$610.00
Stainless Steel 3-Module Kit			
500 lb	(226.8 kg)	30392	$2,020.00
Stainless Steel 4-Module Kit			
500 lb	(226.8 kg)	30391	$2,650.00

** Load Rating is per module*

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RL50210 TA

1000-2500 lb Capacity Mini Tank Weighing Module



Available in configurations with three or four mounting assemblies.

Picture is a representation of actual product

The RL50210 TA Weigh Module Kit provides a cost-effective alternative for your customers' medium-range weighing needs. A variety of features makes this kit easy to install and an exceptional choice for various indoor weighing applications where checking requirements are low. Environmentally protected load cells, neoprene isolation/compression mounts and other Rice Lake Weighing Systems components are the keys to this module's performance.

Module with RL35023 single-ended shear beam load cell; capacities (per module): NTEP-certified 1000 lb (453.6 kg) load cell shown. Refer to page 1154for load cell specifications.



COMPLETE KIT INCLUDES:

- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 3 or 4 RL35023 shear beam load cells (see page 114)
- 3 or 4 neoprene isolation/compression mounts
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Small tanks and hoppers
- Conveyor/In-motion weighing
- Small platform scales where minor shock loading may be a problem

STANDARD FEATURES:

- NTEP-certified load cells (alloy steel only), 1:5000d, Class III Multiple Cell
- Zinc plated, mild steel assemblies
- Medium weighing ranges from 1000-2500 lb (453.6-1134.0 kg) per module
- Environmentally protected load cells
- Neoprene isolation/compression mounts allow for minor misalignment, thermal expansion and shock absorption
- Overload stop provides durability
- RL50210 stainless steel mounts use RL35023S stainless steel load cells, capacities: 1000-2500 lb (453.6-1134.0 kg) NTEP cells
- 65059 stainless steel mounts use Vishay Sensortronics 65023S NTEP stainless steel load cells

OPTIONAL FEATURES:

- Welded stainless steel cells available in stainless steel mounts

LOAD CELL CERTIFICATIONS:

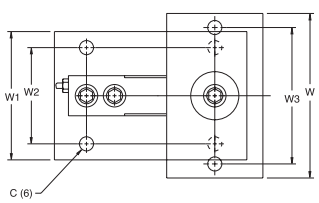
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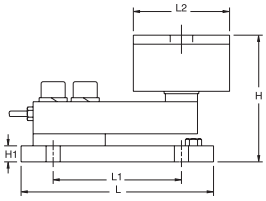
RL50210 TA

1000-2500 lb Capacity Mini Tank Weighing Module

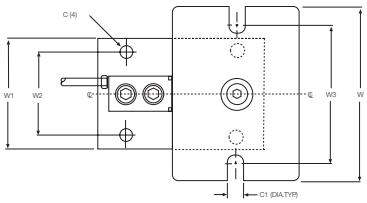
DIMENSIONS

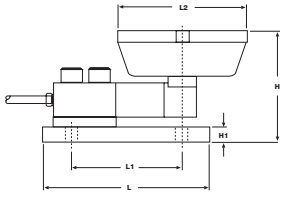
Rated Capacity	C	C1	H	H1	L	L1	L2	W	W1	W2	W3
lb/inches											
1000	.44	—	4.00	.50	6.00	4.00	3.00	5.13	4.00	3.00	4.13
2000-2500	.44	.56	4.00	.50	6.00	4.00	4.62	6.25	4.00	3.00	5.00
kg/mm											
453.6	11.2	—	101.6	12.7	152.4	101.6	76.2	130.3	101.6	76.2	104.9
907.2-1134.0	11.2	14.2	101.6	12.7	152.4	101.6	117.3	158.8	101.6	76.2	127.0





1000 lb (453.6 kg)





2000 lb-2500 lb (907.2 kg-1134.0 kg)

RL50210 TA Order Information

*Load Rating (Load Cell Capacity)		Part #	Price
Mild Steel Single Module (Includes Load Cell)			
1000 lb	(453.6 kg)	17849	$525.00
2000 lb	(907.2 kg)	17948	$525.00
2500 lb	(1134.0 kg)	17949	$525.00
Mild Steel 3-Module Kit			
1000 lb	(453.6 kg)	18056	$1,775.00
2000 lb	(907.2 kg)	30398	$1,775.00
2500 lb	(1134.0 kg)	30396	$1,775.00
Mild Steel 4-Module Kit			
1000 lb	(453.6 kg)	18062	$2,275.00
2000 lb	(907.2 kg)	30397	$2,275.00
2500 lb	(1134.0 kg)	30395	$2,275.00
Stainless Steel Single Module (Includes Load Cell)			
1000 lb	(453.6 kg)	17955	$610.00
2000 lb	(907.2 kg)	17956	$610.00
2500 lb	(1134.0 kg)	17957	$610.00
Stainless Steel 3-Module Kit			
1000 lb	(453.6 kg)	30404	$2,020.00
2000 lb	(907.2 kg)	30402	$2,020.00
2500 lb	(1134.0 kg)	30400	$2,020.00
Stainless Steel 4-Module Kit			
1000 lb	(453.6 kg)	30403	$2,650.00
2000 lb	(907.2 kg)	30401	$2,650.00
2500 lb	(1134.0 kg)	30399	$2,650.00

** Load Rating is per module*

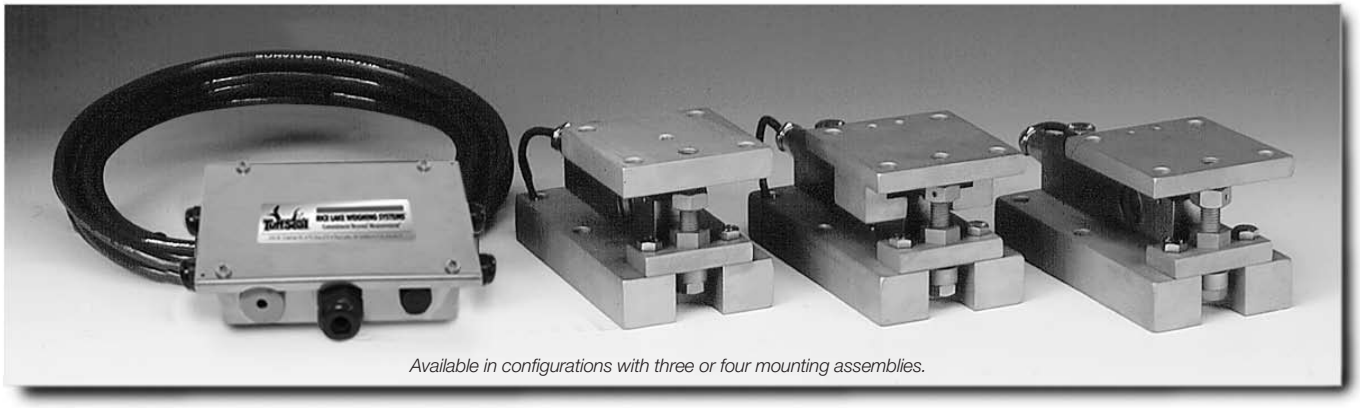
65059 Vishay Sensortronics Order Information

*Load Rating (Load Cell Capacity)		Part #	Price
Mild Steel Single Module (Includes Load Cell)			
1000 lb	(453.6 kg)	17830	$525.00
2000 lb	(907.2 kg)	17946	$525.00
2500 lb	(1134.0 kg)	17947	$525.00
Mild Steel 3-Module Kit			
1000 lb	(453.6 kg)	18068	$1,775.00
2000 lb	(907.2 kg)	30413	$1,775.00
2500 lb	(1134.0 kg)	30412	$1,775.00
Mild Steel 4-Module Kit			
1000 lb	(453.6 kg)	18074	$2,275.00
2000 lb	(907.2 kg)	30414	$2,275.00
2500 lb	(1134.0 kg)	30411	$2,275.00
Stainless Steel Single Module (Includes Load Cell)			
1000 lb	(453.6 kg)	17951	$610.00
2000 lb	(907.2 kg)	17952	$610.00
2500 lb	(1134.0 kg)	17953	$610.00
Stainless Steel 3-Module Kit			
1000 lb	(453.6 kg)	30410	$2,020.00
2000 lb	(907.2 kg)	30408	$2,020.00
2500 lb	(1134.0 kg)	30406	$2,020.00
Stainless Steel 4-Module Kit			
1000 lb	(453.6 kg)	30409	$2,650.00
2000 lb	(907.2 kg)	30407	$2,650.00
2500 lb	(1134.0 kg)	30405	$2,650.00

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Paramounts® EP (Environmentally-Protected)

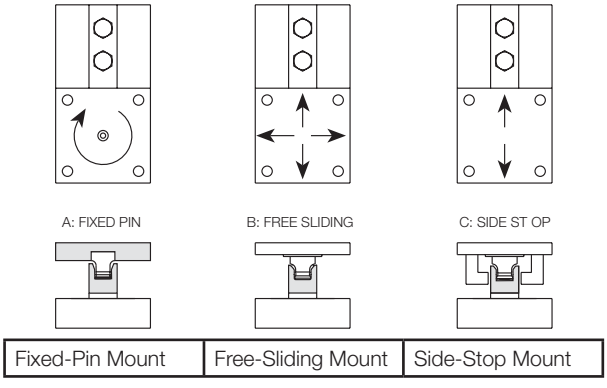
Mild Steel, Light- to Medium-Capacity Tank Weighing Systems



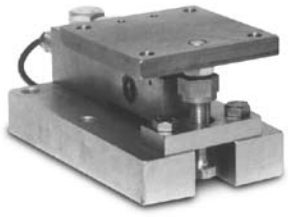
Available in configurations with three or four mounting assemblies.

Picture is a representation of actual product

The Paramounts EP system offers all the design advantages of the Paramounts system in applications where the extensive sealing of the SB4 load cell is not necessary. Paramounts EP provides a low-cost alternative for the superior mechanical loading system found in the standard Paramounts. Economy and performance are in one complete weighing system.



Free-Sliding Module with Flintec SB5 bending beam load cell. Refer to page 207 for load cell specifications.



COMPLETE KIT INCLUDES:

- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 1 fixed-pin module, 1 side-stop module, and 1 or 2 free-sliding assemblies. Each module is complete with a Flintec SB5 NTEP-certified 1:5000d, Class III, stainless steel environmentally-protected load cell (see page 207)
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Light- to medium-capacity tanks and hoppers
- High-vibration mixers and blenders
- Process measurement and control

STANDARD FEATURES:

- Capacities (per module): 1125-22,500 lb (1 kN/102.1 kg-100 kN/10,205.9 kg)
- NTEP-certified load cells
- Unique design allows for thermal expansion/contraction
- Jacking screw allows empty vessel to be lifted clear of load cell for maintenance
- Unique blind load hole eliminates unwanted side and eccentric loads
- Vessel is free to slide laterally on Teflon®-coated surfaces
- Load cell outputs are matched to ±.07% allowing replacement without further calibration

LOAD CELL CERTIFICATIONS:

FM APPROVED LOAD CELLS · NTEP · OIML

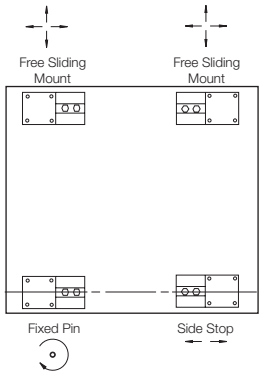
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Paramounts® EP (Environmentally-Protected)

Mild Steel, Light- to Medium-Capacity Tank Weighing Systems

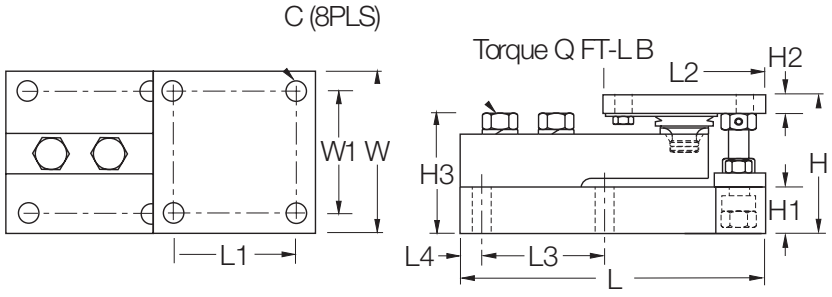
DIMENSIONS

Rated Capacity		C	H	H1	*H2	**H2	H3	L	L1	L2	L3	L4	W	W1	Q (FT- LB)
lb/inches															
1125-4500	(5-23 kN†)	.437	3.58	1.25	.50	.75	3.06	7.51	3.00	4.00	3.00	.50	4.00	3.00	65
11,250	(50 kN†)	.562	4.66	1.50	.62	1.00	4.09	9.19	3.87	5.00	3.87	.56	5.00	3.87	295
22,500	(100 kN†)	.688	6.41	2.00	.75	1.25	5.73	11.46	4.75	6.00	4.75	.69	6.00	4.75	515
kg/mm															
510.8-2041		11.1	90.9	31.8	12.7	19.1	77.7	190.8	76.2	101.6	76.2	12.7	101.6	76.2	-
5107.5		14.3	118.4	38.1	15.7	25.4	103.9	233.4	98.3	127.0	98.3	14.2	127.0	98.3	-
10,215.0		17.5	162.8	50.8	19.1	31.8	145.5	291.1	120.7	152.4	120.7	17.5	152.4	120.7	-



VESSEL ARRANGEMENT

When arranged as illustrated, the vessel is fixed at one corner but is able to slide freely as indicated. This ensures that there is minimal side loading on the cells and at the same time the vessel is self-checking. The unique, patented blind load hole technology used in these mounts introduces the load at the neutral axis of the load cell which helps minimize the effects of side loads.



Paramounts EP Mild Steel Order Information			
Load Rating (Per Module)		**Part #**	**Price**
NTEP 3-Module Kits			
1125 lb	(5 kN†/510.8 kg)	33683	$2,175.00
2250 lb	(10 kN†/1021.5 kg)	33682	$2,175.00
4500 lb	(20 kN†/2041.2 kg)	33681	$2,175.00
11,250 lb	(50 kN†/5107.5 kg)	33680	$2,495.00
NTEP 4-Module Kits			
1125 lb	(5 kN†/510.8 kg)	33678	$2,900.00
2250 lb	(10 kN†/1021.5 kg)	33677	$2,900.00
4500 lb	(20 kN†/2041.2 kg)	33676	$2,900.00
11,250 lb	(50 kN†/5107.5 kg)	33675	$3,695.00
Non-NTEP 3-Module Kit			
22,500 lb	(100 kN†/10,205.8 kg)	33679	$3,975.00
Non-NTEP 4-Module Kit			
22,500 lb	(100 kN†/10,215.0 kg)	33674	$4,900.00

** Side Stop and Free Sliding Units*

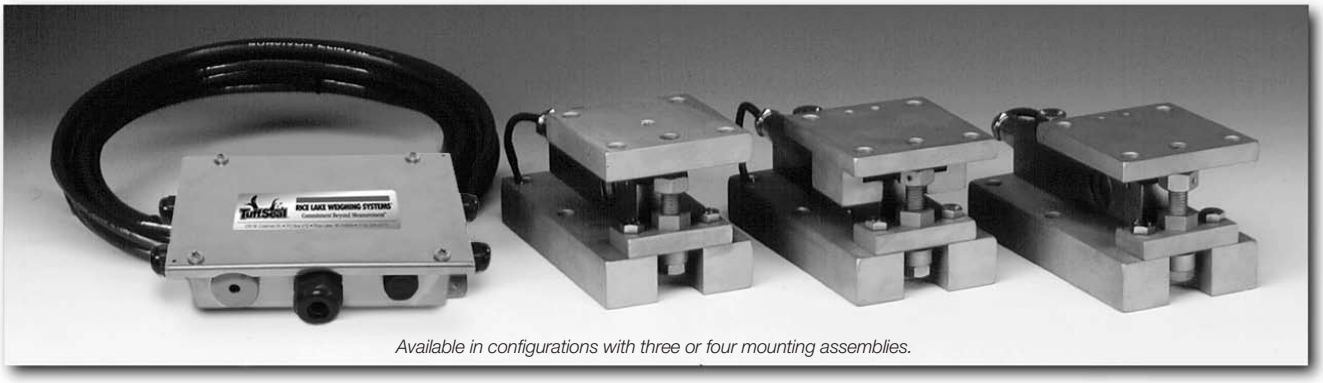
*** Fixed Pin Units*

† kN = Kilo newtons 1 kN = 224.8089 lb

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Paramounts® HS (Hermetically Sealed Load Cells)

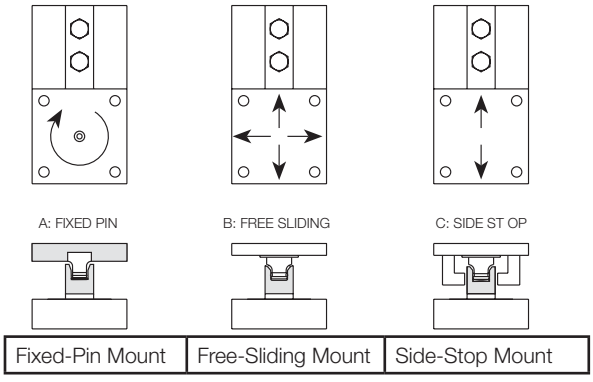
Mild Steel, Light- to-Medium Capacity Tank Weighing Systems



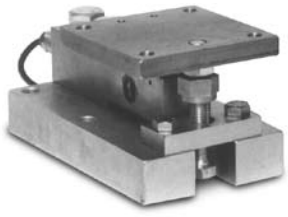
Available in configurations with three or four mounting assemblies.

Picture is a representation of actual product

The Paramounts tank weighing system consists of one fixed-pin mount which allows only the top plate to rotate, one side-stop mount which allows the top plate to slide along the cell only, and one or more free-sliding mount(s) which allow the top plate to slide freely in all directions. This system provides self checking in applications of extreme temperature fluctuations and vibration while maintaining unparalleled system accuracy.



Free-Sliding Module with Flintec SB4 bending beam load cell. Refer to page 206 & 210 for load cell specifications.



COMPLETE KIT INCLUDES:

- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 1 fixed-pin module, 1 side-stop module, and 1 or 2 free-sliding assemblies. Each module is complete with a FLINTEC SB4 or SB10 (520 lb) stainless steel hermetically sealed load cell (see pages 206 & 210)
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Light- to medium-capacity tanks and hoppers
- High-vibration mixers and blenders
- Process measurement and control

STANDARD FEATURES:

- Capacities (per module): 520-22,500 lb (2.3 kN/102.1 kg-100 kN/10,205.9 kg)
- Unique design allows for thermal expansion/contraction
- Jacking screw allows empty vessel to be lifted clear of load cell for maintenance
- Unique blind load hole eliminates unwanted side and eccentric loads
- Vessel is free to slide laterally on Teflon®-coated surfaces
- Load cell outputs are matched to ±.07%, allowing replacement without further calibration

OPTIONAL FEATURES:

- NTEP-certified load cells available: capacities 1125-11,250 lb

LOAD CELL CERTIFICATIONS:

FM APPROVED LOAD CELLS
Except 520 lb

NTEP

OIML

RICE LAKE WEIGHING SYSTEMS

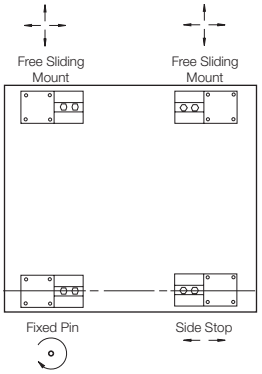
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Paramounts® HS (Hermetically Sealed Load Cells)

Mild Steel, Light- to-Medium Capacity Tank Weighing Systems

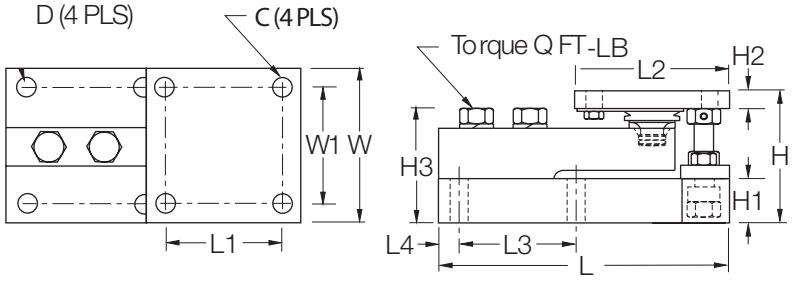
DIMENSIONS

Rated Capacity		C	D	H	H1	*H2	**H2	H3	L	L1	L2	L3	L4	W	W1	Q (FT- LB)
lb/inches																
520	(2.3 kN†)	.375	.437	3.49	1.00	.50	.75	2.98	7.51	3.00	4.00	3.00	.50	4.00	3.00	65
1125-5200	(5 - 23 kN†)	.437	.437	3.58	1.25	.50	.75	3.06	7.51	3.00	4.00	3.00	.50	4.00	3.00	65
11,250	(50 kN†)	.562	.562	4.66	1.50	.62	1.00	4.09	9.19	3.87	5.00	3.87	.56	5.00	3.87	295
22,500	(100 kN†)	.688	.688	6.41	2.00	.75	1.25	5.73	11.46	4.75	6.00	4.75	.69	6.00	4.75	515
kg/mm																
236.1		9.5	11.1	88.6	25.4	12.7	19.1	75.7	190.8	76.2	101.6	76.2	12.7	101.6	76.2	-
510.8-2360		11.1	11.1	90.9	31.8	12.7	19.1	77.7	190.8	76.2	101.6	76.2	12.7	101.6	76.2	-
5107.5		14.3	14.3	118.4	38.1	15.7	25.4	103.9	233.4	98.3	127.0	98.3	14.2	127.0	98.3	-
10,215.0		17.5	17.5	162.8	50.8	19.1	31.8	145.5	291.1	120.7	152.4	120.7	17.5	152.4	120.7	-



VESSEL ARRANGEMENT

When arranged as illustrated, the vessel is fixed at one corner but is able to slide freely as indicated. This ensures that there is minimal side loading on the cells and at the same time the vessel is self-checking. The unique, patented blind load hole technology used in these mounts introduces the load at the neutral axis of the load cell which helps minimize the effects of side loads.



Paramounts HS Mild Steel Order Information

Load Rating (Per Module)		Part #	Price
NTEP 3-Module Kit			
1125 lb	(5 kN†/510.8 kg)	29871	$2,695.00
2250 lb	(10 kN†/1021.5 kg)	29872	$2,695.00
5200 lb	(23 kN†/2360.8 kg)	29873	$2,695.00
11,250 lb	(50 kN†/5107.5 kg)	29874	$3,295.00
NTEP 4-Module Kit			
1125 lb	(5 kN†/510.8 kg)	29875	$3,395.00
2250 lb	(10 kN†/1021.5 kg)	29876	$3,395.00
5200 lb	(23 kN†/2360.8 kg)	29877	$3,395.00
11,250 lb	(50 kN†/5107.5 kg)	29878	$3,895.00

** Side Stop and Free Sliding Units*

*** Fixed Pin units*

† kN = Kilo newtons 1 kN = 224.8089 lb

Paramounts HS Mild Steel Order Information

Load Rating (Per Module)		Part #	Price
Non-NTEP 3-Module Kit			
520 lb	(2.3KN/236.1 kg)	38205	$3,295.00
1125 lb	(5KN/510.8 kg)	17977	$2,695.00
2250 lb	(10KN/1021.5 kg)	17978	$2,695.00
5200 lb	(23KN/2360.8 kg)	17979	$2,695.00
11,250 lb	(50KN/5107.5 kg)	17980	$3,295.00
22,500 lb	(100KN/10,215.0 kg)	17981	$4,095.00
Non-NTEP 4-Module Kit			
520 lb	(2.3KN/236.1 kg)	38206	$4,395.00
1125 lb	(5KN/510.8 kg)	17984	$3,525.00
2250 lb	(10KN/1021.5 kg)	17985	$3,525.00
5200 lb	(23KN/2360.8 kg)	17986	$3,525.00
11,250 lb	(50KN/5107.5 kg)	17987	$4,095.00
22,500 lb	(100KN/10,215.0 kg)	17988	$4,995.00
*		17703	$35.00

***Conduit Adapter, 1/2-14 NPT*

**** Suitable for Flintec SB4 Load Cell*

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RLBTM

Mild Steel/Stainless Steel Weigh Modules



Does not include load cell.

Picture is a representation of actual product

The RLBTM mount was specifically created to take advantage of the improved load introduction accuracy of the ball and cup design. This multi-purpose mount is ideal for both indoor and outdoor applications, and can be used with a variety of single-ended beam load cells. Available in both mild and stainless steel. This product offers superior accuracy at an affordable price. These assemblies are also quick and easy to install, making the RLBTM the perfect choice for your low-capacity, multi-purpose weighing needs.

APPLICATIONS:

- Light-to medium-capacity tanks and hoppers
- Conveyors

STANDARD FEATURES:

- Capacities (per module): 500-5,000 lb SE mild steel/1,000-4,000 lb stainless steel
- Zinc plated mild steel construction or stainless steel
- Ball and cup load introduction
- Self-checking, multi-directional movement
- Design incorporates a ball and cup for self centering
- The RLBTM will accommodate a standard shear beam 500 lb-5,000 lb SE load cell that has a threaded load hole. RL30000 (see page 110), RL39123 (see page 112), RL35023 (see page 115), RL35082 (see page 118), RL35083 (see page 117).

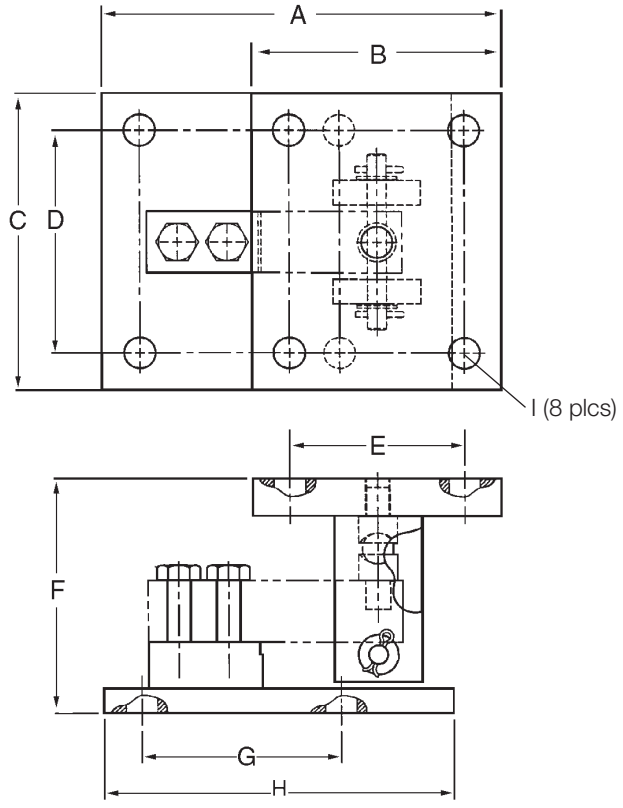
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RLBTM

Mild Steel/Stainless Steel Weigh Modules

DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	H	I
lb/inches									
250-5000 SE	8.00	5.00	6.00	4.50	3.50	4.75	4.00	7.00	.63
kg/mm									
113.4/2268.0	203.2	127	152.4	114.3	88.9	120.6	101.6	177.8	16.0



RLBTM Mild Steel Order Information

*Load Rating (Load Cell Capacity)	Part #	Price
Single Module (Does NOT Include Load Cell)		
500 lb -5,000 lb SE (113.4-2268.0 kg)	53059	$315.00

SE refers to small envelope

** Load Rating is per module*

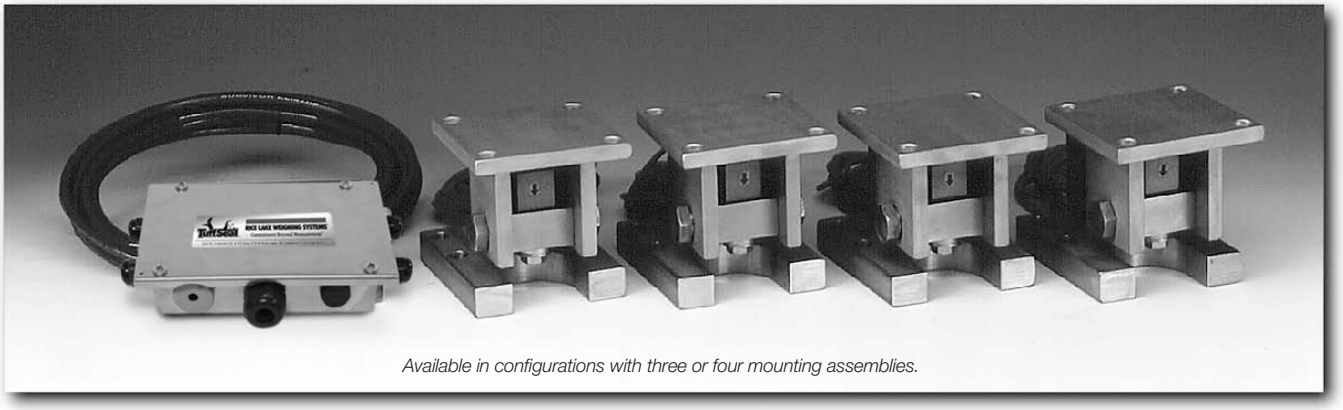
RLBTM Stainless Steel Order Information

*Load Rating (Load Cell Capacity)	Part #	Price
Single Module (Does NOT Include Load Cell)		
1,000-4,000 lb (453.6-1814.4 kg)	53066	$495.00

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RL1800 Series

Mild Steel/Stainless Steel Weigh Modules



Available in configurations with three or four mounting assemblies.

Picture is a representation of actual product

The RL1800 Series Mounting Assembly Kit utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications. The RL1800 Series kit is ideally suited for indoor and outdoor process control operations with medium-range capacities. Each module combines multi-directional movement and self-checking capabilities. The RL35023 and RL35023S load cells used are NTEP certified in capacities of 1000 lb to 10,000 lb.

Module with RL35023 single-ended beam load cell. Refer to pages 114-115 for load cell specifications.



COMPLETE KIT INCLUDES:

- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 3 or 4 RL1800 mild or stainless steel compression mounts
- 3 or 4 RL35023 single-ended beam load cells, RL35023S used in stainless kits (see pages 114-115)
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Conveyors
- Medium-capacity tanks and hoppers

STANDARD FEATURES:

- Capacities (per module): 250-10,000 lb (113.4-4535.9 kg)
- NTEP-certified cells in 1000-10,000 lb (453.6-4535.9 kg) capacities (except 3000 lb [1360.9 kg)
- Zinc plated mild steel/stainless steel construction
- Center-pivoted, tension loading design
- Self-checking, multi-directional movement
- Load is suspended on high-strength bolt instead of wire rope
- Design incorporates spherical washers for self centering
- Stainless steel kit includes RL35023S NTEP-certified load cell

LOAD CELL CERTIFICATIONS:

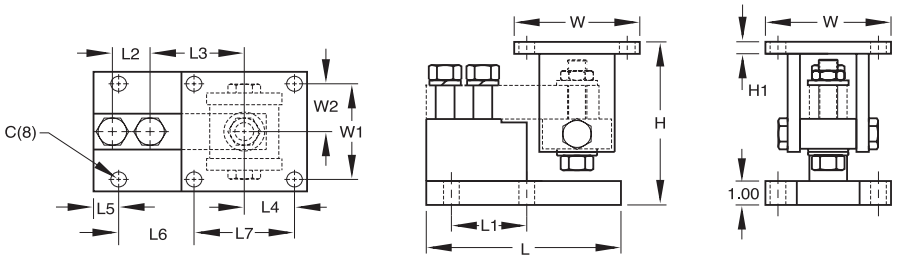
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RL1800 Series

Mild Steel/Stainless Steel Weigh Modules

DIMENSIONS

Rated Capacity	C	H Min/Max	H1	L	L1	L2	L3	L4	L5	L6	L7	W	W1	W2
Mild Steel Construction														
lb/inches														
250-5000 SE	.62	5.25/5.56	.50	6.00	2.00	1.00	3.00	2.00	.68	1.94	4.00	5.00	4.00	2.00
5000 LE-10,000	.62	6.12/6.62	.50	7.75	3.00	1.50	3.75	2.00	1.03	2.97	4.00	5.00	4.00	2.00
kg/mm														
113.4-2268.0	15.8	133.4/141.2	12.7	152.4	50.8	25.4	76.2	50.8	17.3	49.3	101.6	127.0	101.6	50.8
2268.0-4535.9	15.8	155.4/168.1	12.7	196.9	76.2	38.1	95.3	50.8	26.2	75.4	101.6	127.0	101.6	50.8
Stainless Steel Construction														
lb/inches														
1000-4000	.62	5.25/5.56	.50	6.00	2.00	1.00	3.00	2.00	.68	1.94	4.00	5.00	4.00	2.00
5000-10,000	.62	6.12/6.62	.50	7.75	3.00	1.50	3.75	2.00	1.03	2.97	4.00	5.00	4.00	2.00
kg/mm														
453.6-1814.4	15.8	133.4/141.2	12.7	152.4	50.8	25.4	76.2	50.8	17.3	49.3	101.6	127.0	101.6	50.8
2268.0-4535.9	15.8	155.4/168.1	12.7	196.9	76.2	38.1	95.3	50.8	26.2	75.4	101.6	127.0	101.6	50.8



RL1800 Mild Steel Order Information

*Load Rating (Load Cell Capacity)		Part #	Price
Single Module (Does NOT Include Load Cell)			
250-5000 lb SE	(113.4-2268.0 kg)	17817	$325.00
5000 LE-10,000 lb)	(2268.0-4535.9 kg)	17819	$350.00
3-Module Kit			
**250 lb	(113.4 kg)	18075	$1,995.00
**500 lb	(226.8 kg)	18076	$1,995.00
1000 lb	(453.6 kg)	18077	$1,995.00
2000 lb	(907.2 kg)	18078	$1,995.00
2500 lb	(1134.0 kg)	18079	$1,995.00
3000 lb	(1360.8 kg)	18080	$1,995.00
4000 lb	(1814.4 kg)	18081	$1,995.00
5000 lb SE	(2268.0 kg)	18082	$1,995.00
5000 lb LE	(2268.0 kg)	18083	$2,295.00
10,000 lb	(4535.9 kg)	18084	$2,295.00
4-Module Kit			
**250 lb	(113.4 kg)	18085	$2,595.00
**500 lb	(226.8 kg)	18086	$2,595.00
1000 lb	(453.6 kg)	18087	$2,595.00
2000 lb	(907.2 kg)	18088	$2,595.00
2500 lb	(1134.0 kg)	18089	$2,595.00
3000 lb	(1360.8 kg)	18090	$2,595.00
4000 lb	(1814.4 kg)	18091	$2,595.00
5000 lb SE	(2268.0 kg)	18092	$2,595.00
5000 lb LE	(2268.0 kg)	18093	$2,995.00
10,000 lb	(4535.9 kg)	18094	$2,995.00

SE refers to small envelope

LE refers to large envelope

RL1800 Stainless Steel Order Information

*Load Rating (Load Cell Capacity)		Part #	Price
Single Module (Does NOT Include Load Cell)			
250-4000 lb	(113.4-1814.4 kg)	17818	$525.00
5000-10,000 lb	(2268.0-4535.9 kg)	17820	$550.00
3-Module Kit			
1000 lb	(453.6 kg)	18095	$2,695.00
2000 lb	(907.2 kg)	18096	$2,695.00
2500 lb	(1134.0 kg)	18097	$2,695.00
4000 lb	(1814.4 kg)	18099	$2,695.00
LE 5000 lb	(2268.0 kg)	18100	$2,925.00
10,000 lb	(4535.9 kg)	18101	$2,925.00
4-Module Kit			
1000 lb	(453.6 kg)	18102	$3,595.00
2000 lb	(907.2 kg)	18103	$3,595.00
2500 lb	(1134.0 kg)	18104	$3,595.00
4000 lb	(1814.4 kg)	18106	$3,595.00
LE 5000 lb	(2268.0 kg)	18107	$3,910.00
10,000 lb	(4535.9 kg)	18108	$3,910.00
Dummy Cell			
	1-5K SE	22980	$45.00

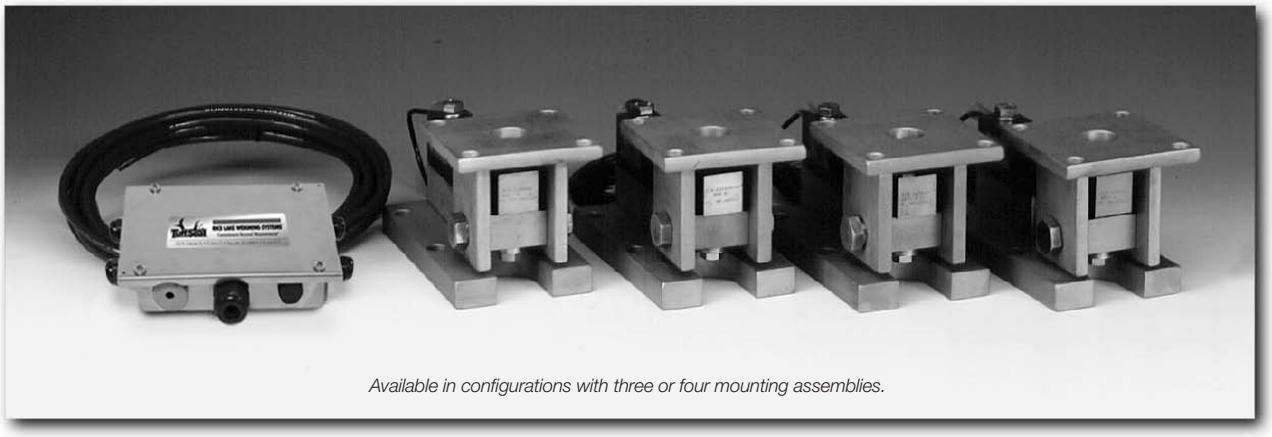
** Load Rating is per module*

*** Use RL30000 load cells*

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RL1900 Series

Stainless Steel Weigh Modules



Available in configurations with three or four mounting assemblies.

Picture is a representation of actual product

The RL1900 Series Weigh Module Kit utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications. The RL1900 kit is ideally suited for tank, hopper and bin weighing operations with medium-range capacities. Each module combines multi-directional movement and self-checking capabilities. The welded seal stainless steel RLSSB load cell withstands washdown and corrosive environments that may present problems to other cells.

Module with welded-seal RLSSB single-ended beam load cell. Refer to page 121 for load cell specifications.



COMPLETE KIT INCLUDES:

- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 3 or 4 RL1900 stainless steel compression mounts
- 3 or 4 RLSSB welded stainless steel single-ended beam load cells (see page 121)
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Medium-capacity tanks, bins and hoppers
- Washdown or corrosive applications

STANDARD FEATURES:

- NTEP-certified load cells, 1:5000d, Class III Single Cell
- Capacities (per module): 1000-10,000 lb (453.6-4535.9 kg)
- 304 stainless steel construction
- Center-pivoted, tension loading design
- Welded-seal stainless steel load cells
- Self-checking, multi-directional movement
- Easy load cell replacement
- Load is suspended on high-strength bolt instead of wire rope
- Design incorporates spherical washers

OPTIONAL FEATURES:

- Also compatible with HBM SB3 load cells
- Also compatible with RTI SSB load cells

LOAD CELL CERTIFICATIONS:

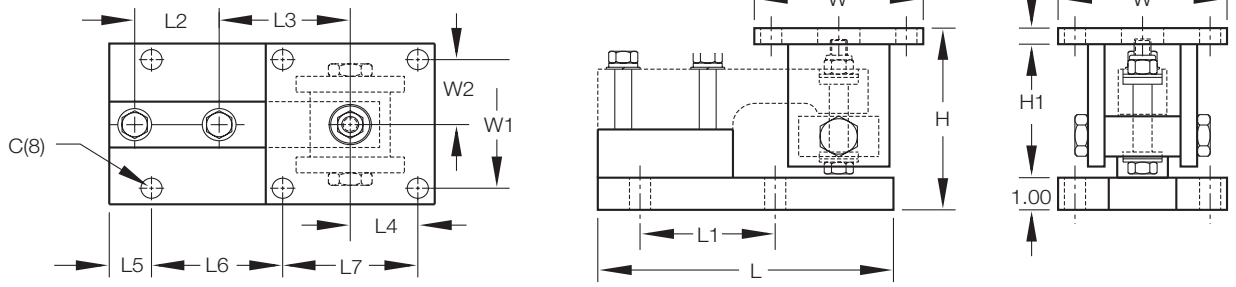
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RL1900 Series

Stainless Steel Weigh Modules

DIMENSIONS

Rated Capacity	C	H Min/Max	H1	L	L1	L2	L3	L4	L5	L6	L7	W	W1	W2
lb/inches														
1000-5000	.62	5.38/5.62	.50	8.75	4.00	2.50	3.88	2.00	1.12	4.00	4.00	5.00	4.00	2.00
10,000	.81	6.88/7.50	1.00	9.75	5.00	2.63	4.88	2.25	1.00	5.00	4.50	6.00	4.50	2.25
kg/mm														
453.6-2268.0	15.8	136.7/142.9	12.7	222.3	101.6	63.5	98.6	50.8	28.4	101.6	101.6	127.0	101.6	50.8
4535.9	20.6	174.8/190.5	25.4	247.7	127.0	66.8	124.0	57.2	25.4	127.0	114.3	152.4	114.3	57.2



RL1900 Order Information

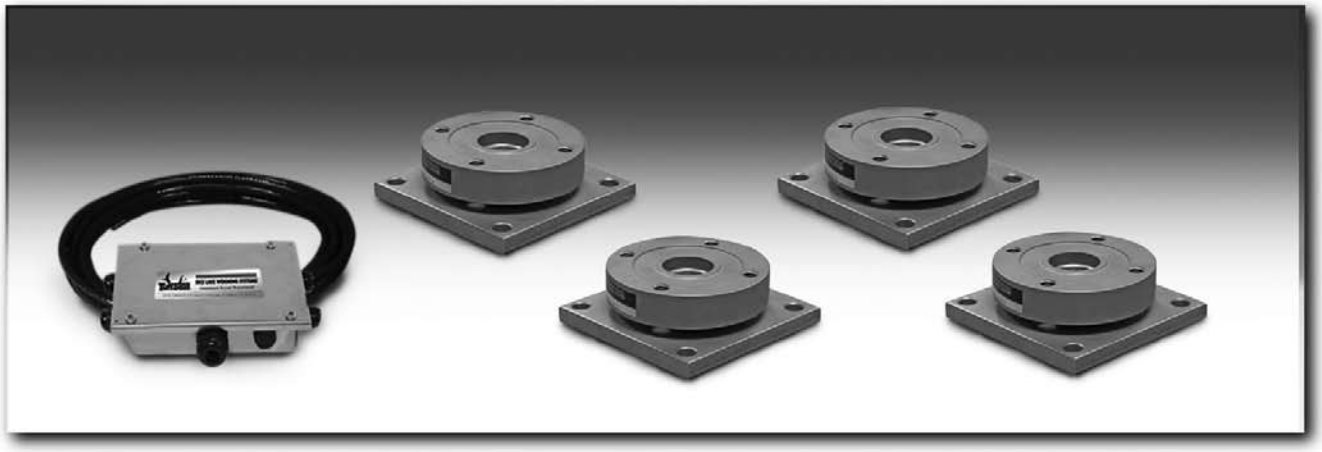
*Load Rating (Load Cell Capacity)		Part #	Price
Single Module (Does NOT Include Load Cell)			
1000-5000 lb	(453.6-2268.0 kg)	17841	$550.00
10,000 lb	(4535.9 kg)	17843	$595.00
3-Module Kit			
1000 lb	(453.6 kg)	18109	$3,595.00
2000 lb	(907.2 kg)	18110	$3,595.00
5000 lb	(2268.0 kg)	18111	$3,595.00
10,000 lb	(4535.9 kg)	18112	$3,995.00
4-Module Kit			
1000 lb	(453.6 kg)	18113	$4,795.00
2000 lb	(907.2 kg)	18114	$4,795.00
5000 lb	(2268.0 kg)	18115	$4,795.00
10,000 lb	(4535.9 kg)	18116	$5,295.00

** Load Rating is per module*

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RL9000 TWM Series

Tank, Hopper & Vessel Weighing Assembly



Picture is a representation of actual product

The RL9000 TWM Series stainless steel weigh module is ideal for use in tank, hopper, vessel, and many other applications. The low-profile design allows for economical solutions in a competitive marketplace. This rugged, high-precision mount is designed for easy installation and does not require check rods or other stabilizing hardware. The stainless steel construction and welded seal offer additional protection in washdown areas.

LOAD CELL CERTIFICATIONS:

FM APPROVED LOAD CELLS

LOAD CELL SPECIFICATIONS:

Full Scale Output:	3 mv/v +/- .1%
Bridge Resistance:	350 ohms
Material/Finish:	Stainless steel*
Safe Overload:	150% F.S.
Rated Excitation:	10 V DC
Operating Temperature:	0° to 150° F
Insulation Resistance:	5000 megohms
Seal Type:	Welded seal IP 67
Cable Length:	25'
Cable Color Code:	Green ..... + Excitation Black..... - Excitation White..... + Signal Red..... - Signal
Warranty:	Two-year limited

COMPLETE KIT INCLUDES:

- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 3 or 4 HBM RTM stainless steel mounting assemblies
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Tank, hopper, or vessel weighing

STANDARD FEATURES:

- Capacities: 1000-450,000 lb
- Very low profile design
- 3 mV/V output
- Self-centering
- Self-checking assembly
- Offers 100% sideload, 100% uplift and 150% safe load and 300% ultimate overload protection
- Stainless steel construction
- Welded seal
- Weighs accurately with as much as a 3° on-parallel load
- Integral 25' cable

OPTIONAL FEATURES:

- Stainless steel top plates
- High temperature (up to 400°F) option

***150K-450K have mild steel painted base plate**



Assembly with integral RL9000 TWM compression disk load cell. See next page for load cell specifications.

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RL9000 TWM Series

Tank, Hopper & Vessel Weighing Assembly

RL9000 TWM Series Order Information

Load Rating	Part #	Price
Single Module		
1000 lb	84353	$595.00
2500 lb	84354	$595.00
5000 lb	84355	$595.00
10,000 lb	84356	$595.00
15,000 lb	84357	$595.00
20,000 lb	84358	$1,195.00
25,000 lb	84359	$1,195.00
35,000 lb	84360	$1,195.00
50,000 lb	84361	$1,195.00
60,000 lb	84362	$2,095.00
75,000 lb	84363	$2,095.00
100,000 lb	84364	$2,095.00
150,000 lb	84365	$4,395.00
200,000 lb	84366	$4,395.00
250,000 lb	84368	$6,495.00
300,000 lb	84369	$6,495.00
400,000 lb	84370	$6,495.00
450,000 lb	84371	$6,495.00
3-Module Kit		
1000 lb	98974	$1,995.00
2500 lb	98980	$1,995.00
5000 lb	98981	$1,995.00
10,000 lb	98982	$1,995.00
15,000 lb	98983	$1,995.00
20,000 lb	84358	$1,195.00
25,000 lb	84359	$1,195.00
35,000 lb	84360	$1,195.00
50,000 lb	84361	$1,195.00
60,000 lb	84362	$2,095.00
75,000 lb	84363	$2,095.00
100,000 lb	84364	$2,095.00
150,000 lb	84365	$4,395.00
200,000 lb	84366	$4,395.00
250,000 lb	84368	$6,495.00
300,000 lb	84369	$6,495.00
400,000 lb	84370	$6,495.00
450,000 lb	84371	$6,495.00

** 150K-450K have mild steel painted base plates*

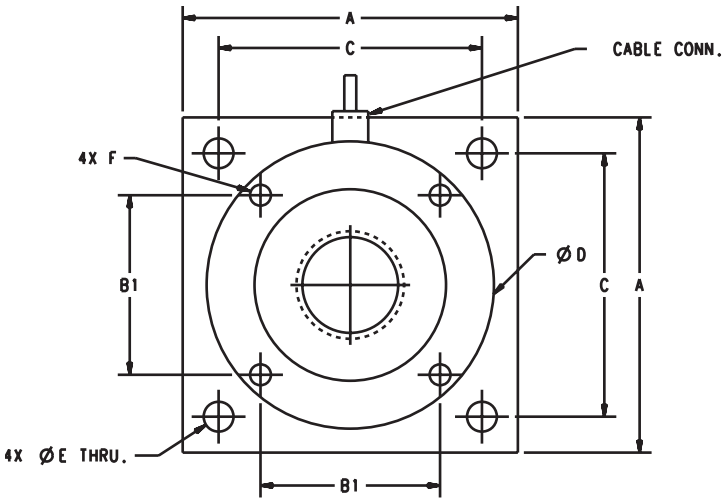
RL9000 TWM Series Order Information

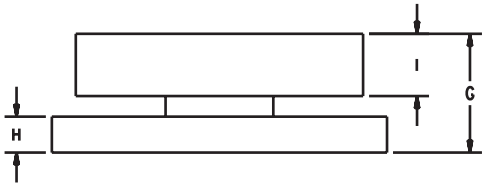
Load Rating	Part #	Price
3-Module Kit		
20,000 lb	98984	$3,795.00
25,000 lb	98985	$3,795.00
35,000 lb	98986	$3,795.00
50,000 lb	98987	$3,795.00
60,000 lb	98988	$6,495.00
75,000 lb	98989	$6,495.00
100,000 lb	98990	$6,495.00
150,000 lb	98991	$13,395.00
200,000 lb	98992	$13,395.00
250,000 lb	98993	$19,695.00
300,000 lb	98994	$19,695.00
400,000 lb	98995	$19,695.00
450,000 lb	98996	$19,695.00
4-Module Kit		
1000 lb	98997	$2,495.00
2500 lb	98998	$2,495.00
5000 lb	98999	$2,495.00
10,000 lb	99000	$2,495.00
15,000 lb	99001	$2,495.00
20,000 lb	99002	$4,895.00
25,000 lb	99003	$4,895.00
35,000 lb	99004	$4,895.00
50,000 lb	99005	$4,895.00
60,000 lb	99006	$8,495.00
75,000 lb	99007	$8,495.00
100,000 lb	99008	$8,495.00
150,000 lb	99009	$17,695.00
200,000 lb	99010	$17,695.00
250,000 lb	99011	$26,095.00
300,000 lb	99012	$26,095.00
400,000 lb	99013	$26,095.00
450,000 lb	99014	$26,095.00
Top Plates (Stainless Steel) with bolts		
1-15K	91207	$150.00
20-50K	91210	$325.00
60-100K	91211	$695.00
150-200K	91213	$895.00
250-450K	91215	$1,695.00

** 150K-450K have mild steel painted base plates*

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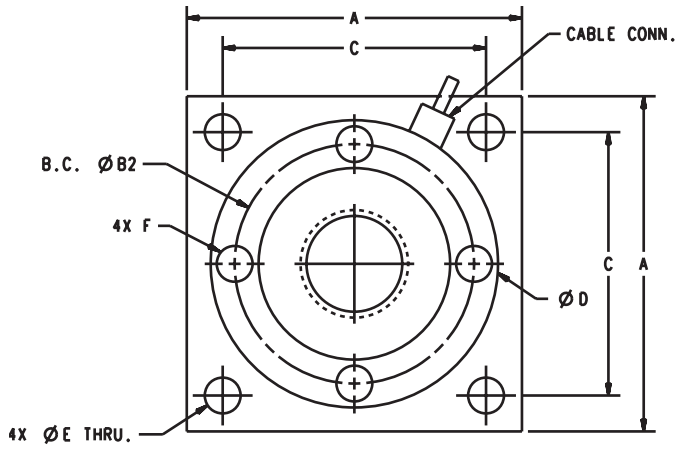
RL9000 TWM Series Dimensions

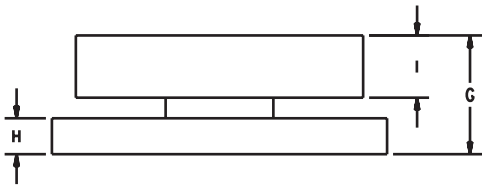




DIMENSIONS (INCHES)

Rated Capacity	A	B1	C	D	E	F	G	H	I	Conduit Adapter
1K-10K	4.0	2.0	3.25	3.5	0.4	3/8-16	1.35	.375	.75	N/A
15K	4.0	2.0	3.25	3.5	0.4	3/8-16	1.60	.625	.75	N/A
20K-50K	7.0	3.75	5.50	6.0	.63	1/2-13	2.48	.75	1.3	1/2-14 NPT
60K-100K	8.0	4.25	6.50	7.0	.81	3/4-16	2.50	1.0	1.3	1/2-14 NPT



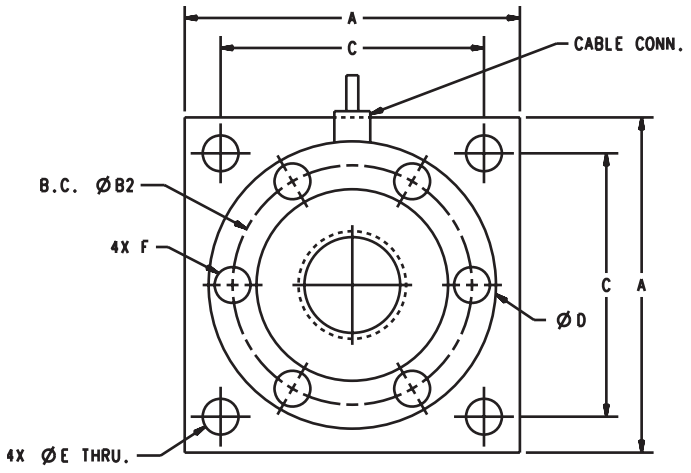


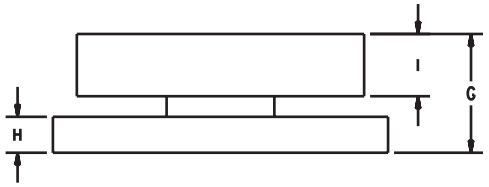
DIMENSIONS (INCHES)

Rated Capacity	A	B2	C	D	E	F	G	H	I	Conduit Adapter
150K-200K	10.0	7.825	8.0	9.0	1.1	1-14	4.75	2.0	1.7	1/2-14 NPT

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RL9000 TWM Series Dimensions





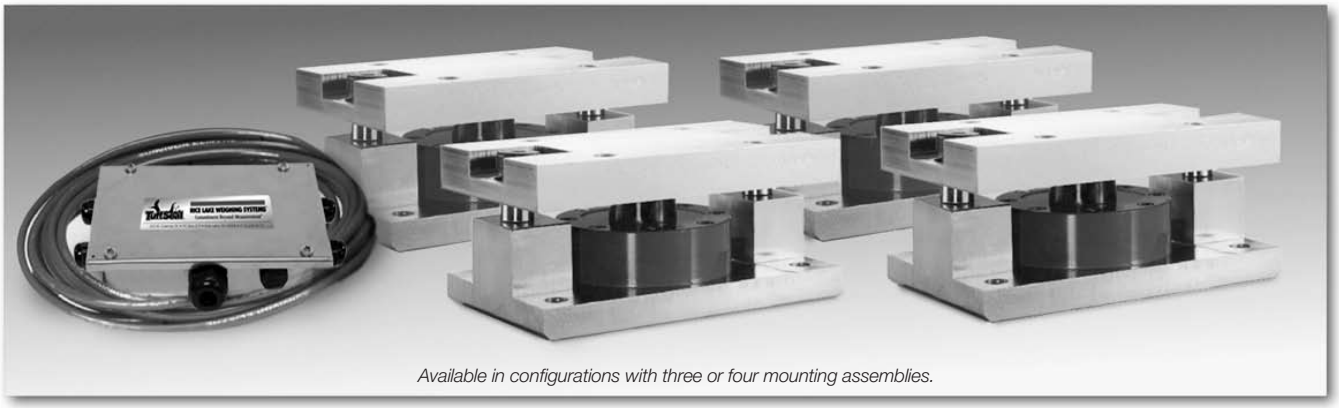
DIMENSIONS (INCHES)

Rated Capacity	A	B2	C	D	E	F	G	H	I	Conduit Adapter
250K-450K	11.0	7.75	9.0	9.0	1.3	7/8-14	6.42	3.0	2.25	1/2-14 NPT

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RL2200 Series

Tank, Hopper & Vessel Weighing Assembly

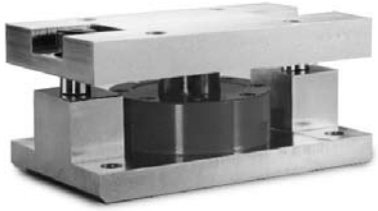


Available in configurations with three or four mounting assemblies.

Picture is a representation of actual product

The RL2200 Series mounts are ideal for use in tank, hopper, vessel, and many other applications. The low-profile design allows for economical solutions in a competitive marketplace. This rugged, high-precision mount is designed for easy installation and does not require check rods or other stabilizing hardware. The RL2200 mount has the added feature of self centering, allowing for side loads without sacrificing performance.

Assembly with integral RL2200 compression disk load cell.



COMPLETE KIT INCLUDES:

- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 3 or 4 RL2200 high-alloy, zinc-plated steel mounting assemblies
- 3 or 4 RL2200 compression disk load cells
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Tank, hopper or vessel weighing
- Belt or roller conveyors
- Scale platforms and screw feeders

STANDARD FEATURES:

- Capacities: 2500-50,000 lb (1134-22,680 kg)
- Low-profile design
- High 4 mV/V output (2 mV/V, 2500 lb)
- Self-centering in all directions—able to withstand excessive side loads
- Self-checking assembly

LOAD CELL SPECIFICATIONS:

Full Scale Output:	4.0 mV/V, 2.0 mV/V (2500 lb)
Bridge Resistance:	350 ohms nominal
Material/Finish:	High-alloy steel, painted
Safe Overload:	150% Full Scale
Rated Excitation:	10 VDC (20 V maximum)
Nonlinearity:	0.05% Full Scale
Hysteresis:	0.03% Full Scale
Temperature:	Compensated range: 15°F to 115°F/-9°C to 46°C
Insulation Resistance:	5000 megohms
Seal Type:	Environmentally sealed
***Cable Length:**	30'/9.1 m
Cable Color Code:	Red..... + Excitation Black..... – Excitation White..... + Signal Green ..... – Signal
Warranty:	Two-year limited warranty

***Compression load application**

RICE LAKE WEIGHING SYSTEMS

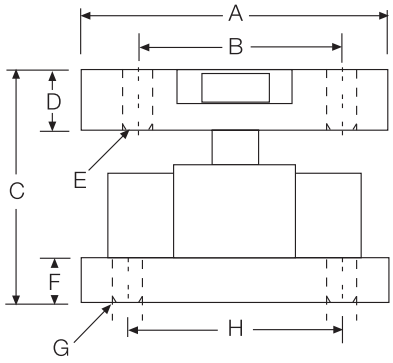
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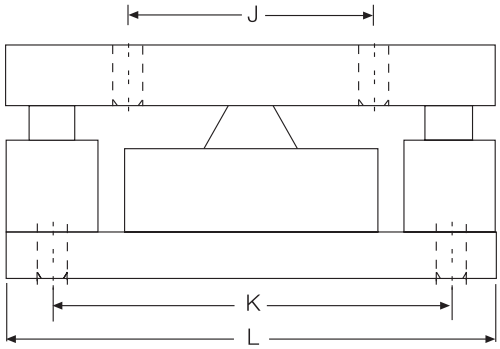
RL2200 Series

Tank, Hopper & Vessel Weighing Assembly

DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	H	I	J	K
lb/inches											
2500-10,000	5.0	3.50	4.00	1.00	.52	1.0	.52	3.50	4.00	6.50	8.0
25,000-50,000	6.0	4.50	5.00	1.25	.78	1.0	.78	4.50	5.00	7.75	10.0
kg/mm											
1134-4536	127.0	88.9	101.6	25.4	13.2	19.0	13.2	88.9	101.6	165.1	203.2
11,340-22,679.6	152.4	114.3	127.0	31.7	19.8	25.4	19.8	114.3	127.0	196.8	254.0





RL2200 Series Order Information

Load Rating		Part #	Price
Single Module			
2500 lb	(1134 kg)	76656	$1,495.00
5000 lb	(2268 kg)	45849	$1,495.00
10,000 lb	(4536 kg)	45848	$1,495.00
25,000 lb	(11,340 kg)	45847	$1,995.00
50,000 lb	(22,680 kg)	45846	$1,995.00
3-Module Kit			
2500 lb	(1134 kg)	76897	$4,595.00
5000 lb	(2268 kg)	42811	$4,595.00
10,000 lb	(4536 kg)	42812	$4,595.00
25,000 lb	(11,340 kg)	42813	$5,995.00
50,000 lb	(22,680 kg)	42814	$5,995.00
4-Module Kit			
2500 lb	(1134 kg)	76898	$5,995.00
5000 lb	(2268 kg)	42815	$5,995.00
10,000 lb	(4536 kg)	42816	$5,995.00
25,000 lb	(11,340 kg)	42817	$6,995.00
50,000 lb	(22,680 kg)	42818	$6,995.00

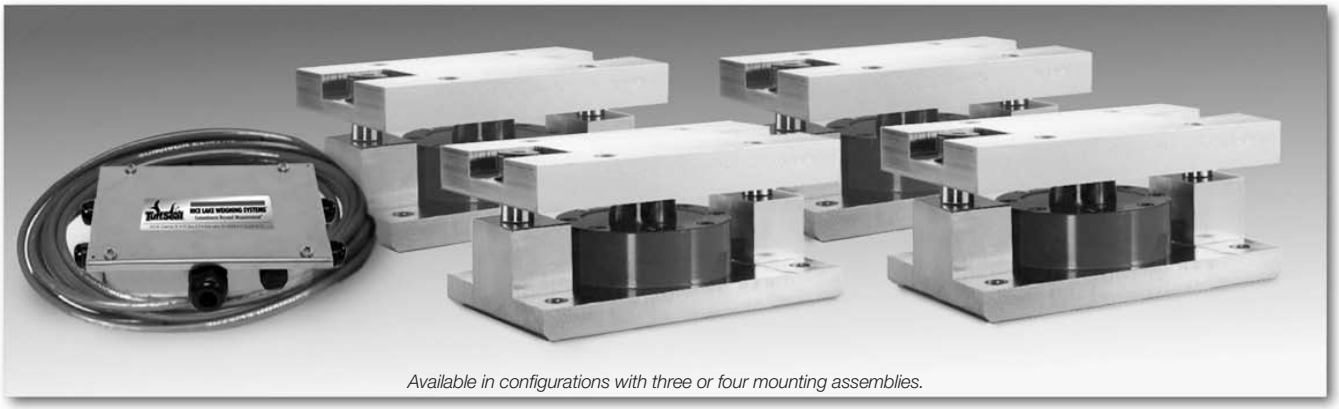
RL2200 Series Replacement Load Cell Order Information

Load Rating		Part #	Price
2500 lb	(1134 kg)	76654	$1,195.00
5000 lb	(2268 kg)	45708	$1,195.00
10,000 lb	(4536 kg)	45709	$1,195.00
25,000 lb	(11,340 kg)	45710	$1,495.00
50,000 lb	(22,680 kg)	45711	$1,495.00

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RL2200 SS Series

Stainless Steel, Tank, Hopper & Vessel Weighing Assembly



Available in configurations with three or four mounting assemblies.

Picture is a representation of actual product

The RL2200 SS Series mounts are ideal for use in tank, hopper, vessel and many other applications. The low-profile design allows for economical solutions in a competitive marketplace. This rugged, high-precision mount is designed for easy installation and does not require check rods or other stabilizing hardware. The RL2200SS mount has the added feature of self centering, allowing for side loads without sacrificing performance.

Assembly with integral RL2200 SS compression disk load cell.



COMPLETE KIT INCLUDES:

- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 3 or 4 RL2200 stainless steel mounting assemblies
- 3 or 4 RL2200 SS stainless steel, hermetically sealed, compression disk load cells
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Tank, hopper or vessel weighing
- Belt or roller conveyors
- Scale platforms and screw feeders

LOAD CELL SPECIFICATIONS:

Full Scale Output:	4.0 mV/V, 2.0 mV/V (2500 lb)
Bridge Resistance:	350 ohms nominal
Material/Finish:	Stainless steel
Safe Overload:	150% Full Scale
Rated Excitation:	10 VDC (20 V maximum)
Nonlinearity:	0.05% Full Scale
Hysteresis:	0.03% Full Scale
Temperature:	Compensated range: 15°F to 115°F/-9°C to 46°C
Insulation Resistance:	5000 megohms
Seal Type:	Hermetically sealed, IP66/68
***Cable Length:**	30'/9.1 m
Cable Color Code:	Red..... + Excitation Black..... – Excitation White..... + Signal Green ..... – Signal
Warranty:	Two-year limited warranty

*** Compression load application**

RICE LAKE WEIGHING SYSTEMS

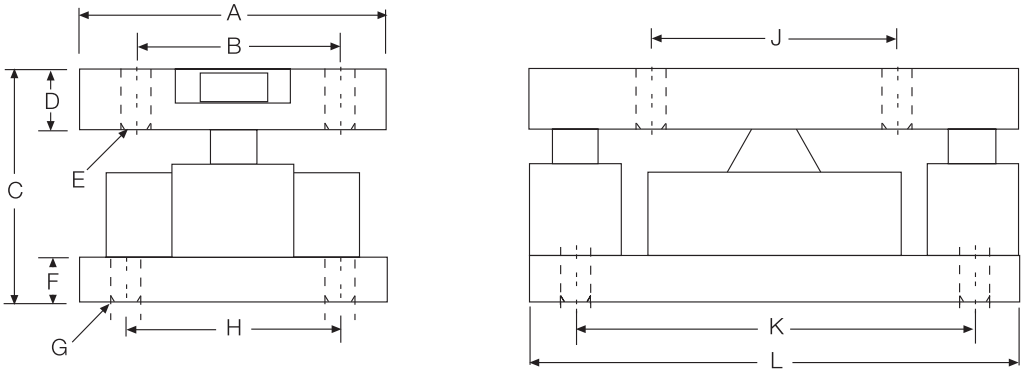
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RL2200 SS Series

Stainless Steel, Tank, Hopper & Vessel Weighing Assembly

DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	H	J	K	L
lb/inches											
2500-10,000	5.00	3.50	4.00	1.00	.52	1.00	.52	3.50	4.00	6.50	8.00
25,000-50,000	6.00	4.50	5.00	1.25	.78	1.00	.78	4.50	5.00	7.75	10.00
kg/mm											
1134-4536	127.0	88.9	101.6	25.4	13.2	19.0	13.2	88.9	101.6	165.1	203.2
11,340-22,679.6	152.4	114.3	127.0	31.7	19.8	25.4	19.8	114.3	127.0	196.8	254.0



RL2200 SS Series Order Information

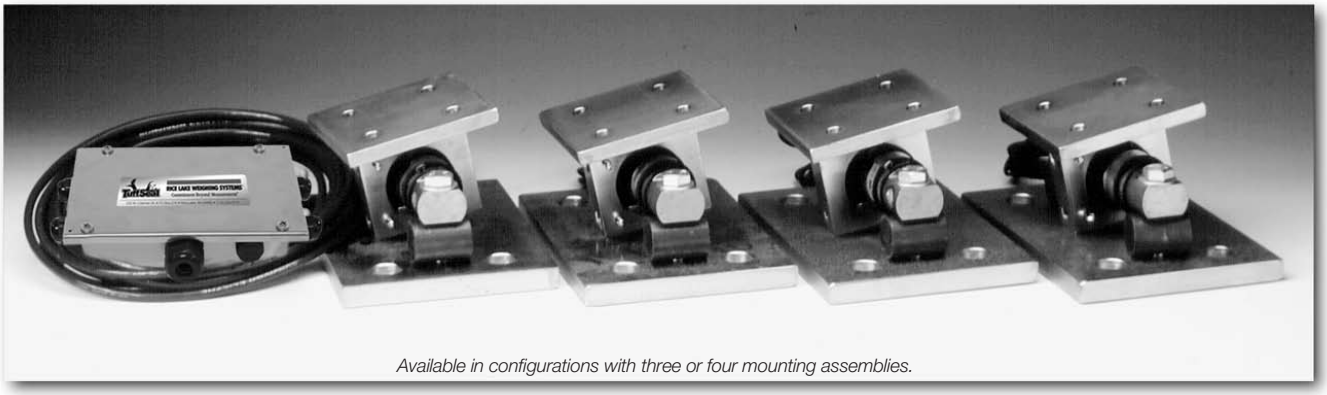
Load Rating		Part #	Price
Single Module			
2500 lb	(1134 kg)	76657	$2,195.00
5000 lb	(2268 kg)	45845	$2,195.00
10,000 lb	(4536 kg)	45844	$2,195.00
25,000 lb	(11,340 kg)	45843	$3,095.00
50,000 lb	(22,680 kg)	45842	$3,095.00
3-Module Kit			
2500 lb	(1134 kg)	76899	$6,195.00
5000 lb	(2268 kg)	46478	$6,195.00
10,000 lb	(4536 kg)	46479	$6,195.00
25,000 lb	(11,340 kg)	46480	$8,995.00
50,000 lb	(22,680 kg)	46481	$8,995.00
4-Module Kit			
2500 lb	(1134 kg)	76900	$8,195.00
5000 lb	(2268 kg)	46482	$8,195.00
10,000 lb	(4536 kg)	46483	$8,195.00
25,000 lb	(11,340 kg)	46484	$11,695.00
50,000 lb	(22,680 kg)	46485	$11,695.00

RL2200 SS Series Replacement Load Cell Order Information

Load Rating		Part #	Price
2500 lb	(1134 kg)	76655	$1,360.00
5000 lb	(2268 kg)	45712	$1,360.00
10,000 lb	(4536 kg)	45713	$1,360.00
25,000 lb	(11,340 kg)	45714	$1,525.00
50,000 lb	(22,680 kg)	45715	$1,525.00

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EZ Mount 1, Mild Steel



Available in configurations with three or four mounting assemblies.

Picture is a representation of actual product

The EZ Mount 1 Series weigh modules utilize the double-ended beam design with an articulating top plate to provide superior accuracy in any loading condition.

The double-ended beam design means there is less cumbersome hardware and each module has a lower profile than modules of different configurations.

NTEP-certified and FM approved RL70000 Series load cells give you accuracy and dependability in many applications, including intrinsically safe and explosion proof areas.

LOAD CELL CERTIFICATIONS:

COMPLETE KIT INCLUDES:

- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 3 or 4 EZ Mount 1 mild steel compression mounts
- 3 or 4 RL70000 double-ended shear beam load cells (see page 132)
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

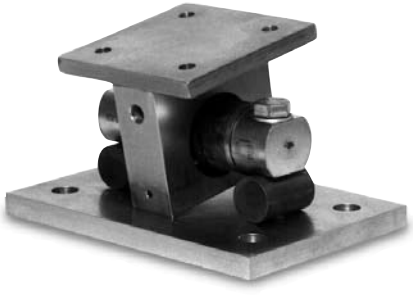
APPLICATIONS:

- Medium- to heavy-capacity tank and hopper weighing applications

STANDARD FEATURES:

- Capacities (per module): 5000-250,000 lb (2268-113,398.1 kg)
- NTEP-certified load cells
- Unique sliding pin design compensates for thermal expansion/contraction
- Self-checking
- Easy load cell replacement
- Simplified design allows bolting directly to tank and floor
- Center-loaded double-ended shear beam design
- Low-profile design
- Painted mild steel construction

Module with RL70000 double-ended shear beam load cell. Refer to page 132 for load cell specifications.



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EZ Mount 1, Mild Steel

DIMENSIONS

Rated Capacity	C	C1	H	H1	H2	L	L1	L2	L3	L4	T	W	W1	W2	W3
lb/inches															
5000-20,000	.56	1.06	5.31	.75	.50	11.00	8.00	3.00	6.00	6.87	5/8-18 UNF	7.50	4.00	3.00	6.00
30,000-60,000	.68	1.19	8.43	1.00	.75	15.00	11.50	5.12	8.00	8.50	1-14 UNS	10.00	6.00	5.12	8.00
100,000	.81	1.38	10.37	1.25	1.25	18.00	14.00	7.50	10.00	9.50	1-14 UNS	12.00	9.00	7.50	10.00
150,000	.81	1.38	10.37	1.25	1.25	18.00	14.00	7.50	10.00	9.50	1-14 UNS	12.00	9.00	7.50	10.00
200,000-250,000	1.06	1.88	16.75	2.00	2.00	26.00	20.00	9.00	12.00	13.00	1 1/2-12 UNS	12.00	6.00	9.00	12.00
kg/mm															
2268.0-9071.9	14.2	26.9	134.9	19.1	12.7	279.4	203.2	76.2	139.7	174.5	5/8-18 UNF	190.5	101.6	76.2	139.7
13,607.8-27,215.5	17.3	30.2	214.1	25.4	19.1	381.0	292.1	130.0	203.2	215.9	1-14 UNS	254.0	152.4	130.1	203.2
45,359.2	20.6	35.1	263.4	31.8	31.8	457.2	355.6	190.5	254.0	241.3	1-14 UNS	304.8	228.6	190.5	254.0
68,039.0	20.6	35.1	263.4	31.8	31.8	457.2	355.6	190.5	254.0	241.3	1-14 UNS	304.8	228.6	190.5	254.0
90,718.5-113,398.1	26.9	47.8	425.5	50.8	50.8	660.4	508.0	228.6	304.8	330.2	1 1/2-12 UNS	304.8	152.4	228.6	304.8

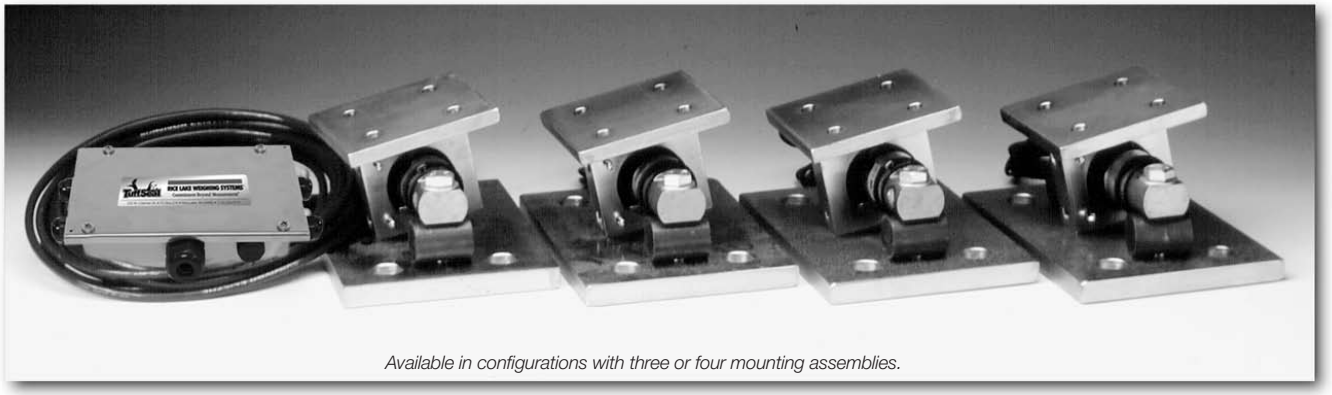
NOTES: • Mounting bolts (T) may project on lower side of base plate • Foundation plate not included

EZ Mount 1 Mild Steel Order Information

Load Rating (Per Module)		Part #	Price
Single Module (Does NOT Include Load Cell)			
5000-20,000 lb	(2268.0-9071.9 kg)	17823	$295.00
30,000-60,000 lb	(13,607.8-27,215.5 kg)	17824	$795.00
100,000 lb	(45,359.2 kg)	17850	$1,095.00
150,000 lb	(68,039.0 kg)	29012	$1,095.00
200,000-250,000 lb	(90,718.7-113,398.4)	26068	$2,495.00
3-Module Kit			
5000 lb	(2268.0 kg)	18163	$2,875.00
10,000 lb	(4535.9 kg)	18164	$2,875.00
20,000 lb	(9071.9 kg)	18165	$2,875.00
30,000 lb	(13,607.8 kg)	32164	$4,545.00
40,000 lb	(18,143.7 kg)	32167	$4,545.00
50,000 lb	(22,679.6 kg)	18166	$4,545.00
60,000 lb	(27,215.5 kg)	18167	$4,545.00
100,000 lb	(45,359.2 kg)	18168	$7,395.00
150,000 lb	(68,040 kg)	43290	$7,395.00
4-Module Kit			
5000 lb	(2268.0 kg)	18169	$3,735.00
10,000 lb	(4535.9 kg)	18170	$3,735.00
20,000 lb	(9071.9 kg)	18171	$3,735.00
30,000 lb	(13,607.8 kg)	32165	$5,765.00
40,000 lb	(18,143.7 kg)	32166	$5,765.00
50,000 lb	(22,679.6 kg)	18172	$5,765.00
60,000 lb	(27,215.5 kg)	18173	$5,765.00
100,000 lb	(45,359.2 kg)	18174	$9,665.00
150,000 lb	(68,040 kg)	43291	$9,665.00

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EZ Mount 1, Stainless Steel



Available in configurations with three or four mounting assemblies.

Picture is a representation of actual product

The EZ Mount 1 Series weigh modules utilize the double-ended beam design with an articulating top plate to provide superior accuracy in any loading condition.

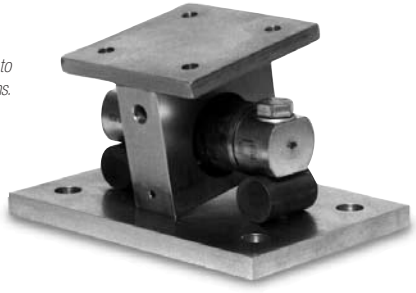
The double-ended beam design means there is less cumbersome hardware and each module has a lower profile than modules of different configurations.

FM approved RL70000 SS Series load cells give you accuracy and dependability in many applications, including intrinsically safe and explosion proof areas.

LOAD CELL CERTIFICATIONS:

FM APPROVED LOAD CELLS

Module with RL70000 SS double-ended shear beam load cell. Refer to page 133 for load cell specifications.



COMPLETE KIT INCLUDES:

- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 3 or 4 EZ Mount 1 stainless steel compression mounts
- 3 or 4 RL70000 SS stainless steel double-ended shear beam load cells (see page 133)
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Medium- to heavy-capacity tank and hopper weighing applications

STANDARD FEATURES:

- Capacities (per module): 5000-150,000 lb (2268-60,039.0 kg)
- Unique sliding pin design compensates for thermal expansion/ contraction
- Self-checking
- Easy load cell replacement
- Simplified design allows bolting directly to tank and floor
- Center-loaded double-ended shear beam design
- Low-profile design
- 304 stainless steel construction

OPTIONAL FEATURES:

- Kits available with Revere Transducers 9103 load cell, capacities in 5000-150,000 lb (2268.0-68,039.0 kg)

RICE LAKE WEIGHING SYSTEMS

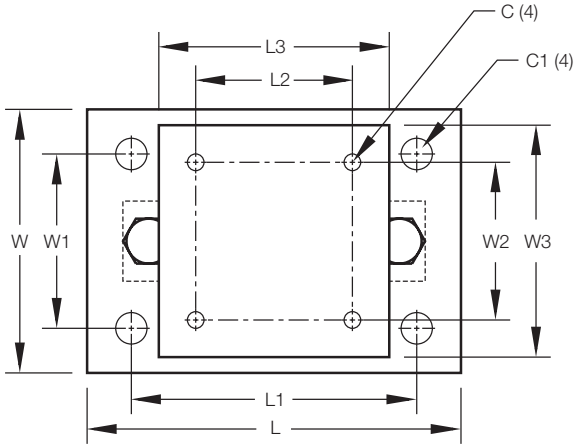
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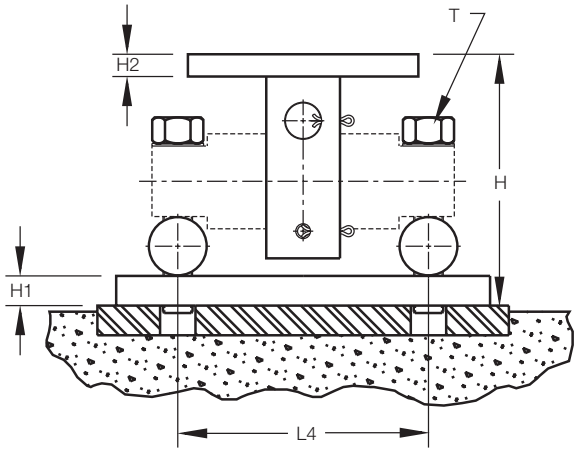
EZ Mount 1, Stainless Steel

DIMENSIONS

Rated Capacity	C	C1	H	H1	H2	L	L1	L2	L3	L4	T	W	W1	W2	W3
lb/inches															
5000-10,000	.56	1.06	5.31	.75	.50	11.00	8.00	3.00	6.00	6.87	5/8-18 UNF	7.50	4.00	3.00	6.00
20,000	.56	1.06	5.37	.75	.50	11.00	8.00	3.00	6.00	6.87	5/8-18 UNF	7.50	4.00	3.00	6.00
30,000-60,000	.68	1.19	8.43	1.00	.75	15.00	11.50	5.12	8.00	8.50	1-14 UNS	10.00	6.00	5.12	8.00
100,000	.81	1.38	10.37	1.25	1.25	18.00	14.00	7.50	10.00	9.50	1-14 UNS	12.00	9.00	7.50	10.00
150,000	.81	1.38	10.37	1.25	1.25	18.00	14.00	7.50	10.00	9.50	1-14 UNS	12.00	9.00	7.50	10.00
kg/mm															
2268.0-9071.9	14.2	26.9	134.9	19.1	12.7	279.4	203.2	76.2	139.7	174.5	5/8-18 UNF	190.5	101.6	76.2	139.7
13,607.8-27,215.5	17.3	30.2	214.1	25.4	19.1	381.0	292.1	130.0	203.2	215.9	1-14 UNS	254.0	152.4	130.1	203.2
45,359.2	20.6	35.1	263.4	31.8	31.8	457.2	355.6	190.5	254.0	241.3	1-14 UNS	304.8	228.6	190.5	254.0
68,039.0	20.6	35.1	263.4	31.8	31.8	457.2	355.6	190.5	254.0	241.3	1-14 UNS	304.8	228.6	190.5	254.0

NOTES: • Mounting bolts (T) may project on lower side of base plate • Foundation plate not included





EZ Mount 1 Stainless Steel Order Information

Load Rating (per module)		Part #	Price
Single Module (Does NOT Include Load Cell)			
5000-20,000 lb	(2268.0-9071.9 kg)	17943	$725.00
30,000-60,000 lb	(13,607.8-27,215.5 kg)	17944	$1,995.00
100,000 lb	(45,359.2 kg)	17945	$3,695.00
150,000 lb	(68,039.0 kg)	29011	$3,695.00
3-Module Kit			
5000 lb	(2268.0 kg)	36195	$4,325.00
10,000 lb	(4535.9 kg)	36196	$4,325.00
20,000 lb	(9071.9 kg)	36197	$4,325.00
30,000 lb	(13,607.8 kg)	36198	$8,295.00
40,000 lb	(18,143.7 kg)	36199	$8,295.00
50,000 lb	(22,679.6 kg)	36200	$8,395.00
60,000 lb	(27,215.5 kg)	36201	$8,395.00
100,000 lb	(45,359.2 kg)	36202	$13,295.00
150,000 lb	(68,039.0 kg)	43288	$13,295.00

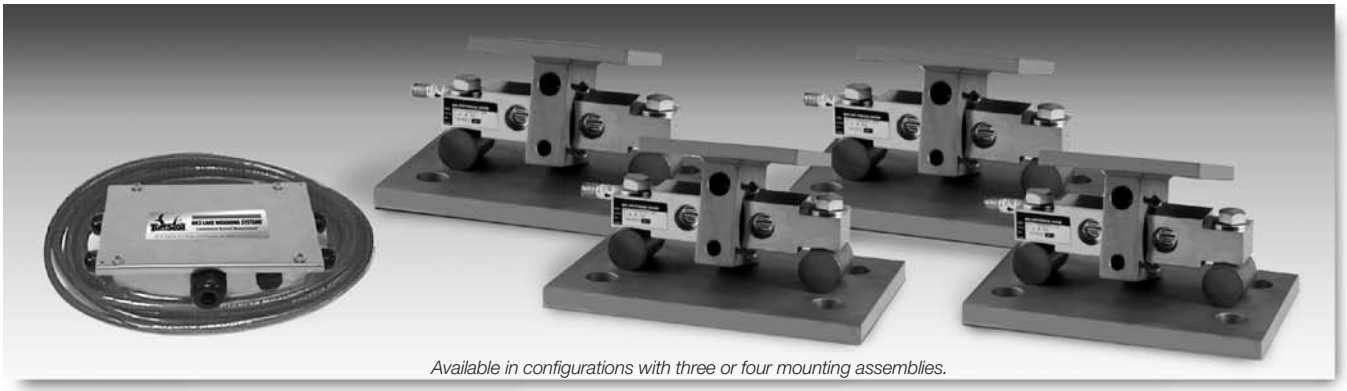
EZ Mount 1 Stainless Steel Order Information

Load Rating (per module)		Part #	Price
4-Module Kit			
5000 lb	(2268.0 kg)	36203	$5,800.00
10,000 lb	(4535.9 kg)	36204	$5,800.00
20,000 lb	(9071.9 kg)	36205	$5,800.00
30,000 lb	(13,607.8 kg)	36206	$11,275.00
40,000 lb	(18,143.7 kg)	36207	$11,275.00
50,000 lb	(22,679.6 kg)	36208	$11,550.00
60,000 lb	(27,215.5 kg)	36209	$11,550.00
100,000 lb	(45,359.2 kg)	36210	$17,650.00
150,000 lb	(68,039.0 kg)	43289	$17,650.00
Dummy Load Cells (Mild Steel)			
5000-20,000 lb		33749	$75.00
30,000-60,000 lb		74016	$95.00
100,000 lb		94175	$150.00

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EZ Mount 1 HE

Stainless Steel, Hermetically sealed



Available in configurations with three or four mounting assemblies.

Picture is a representation of actual product

The EZ Mount 1 HE Series weigh modules utilize the double-ended beam design with an articulating top plate to provide superior accuracy in any loading condition.

The double-ended beam design means there is less cumbersome hardware and each module has a lower profile than modules of different configurations.

The RL71000 HE Series load cells give you accuracy and dependability in any environment.

Their stainless steel, hermetically sealed design also make them the ideal solution in harsh environments where moisture is present.

LOAD CELL CERTIFICATIONS:

FM APPROVED LOAD CELLS

Consult factory for FM instrumentation assistance

Not for use in intrinsically safe areas

Module with RL71000 HE double-ended shear beam load cell. Refer to page 134 for load cell specifications.



COMPLETE KIT INCLUDES:

- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 3 or 4 EZ Mount 1 stainless steel compression mounts
- 3 or 4 RL71000 HE hermetically sealed stainless steel double-ended shear beam load cells (see page 134)
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Medium- to heavy-capacity tank and hopper weighing applications

STANDARD FEATURES:

- Capacities (per module): 5000-60,000 lb (2268-27,216.0 kg)
- Unique sliding pin design compensates for thermal expansion/contraction
- Self-checking
- Easy load cell replacement
- Simplified design allows bolting directly to tank and floor
- Center-loaded, double-ended shear beam design
- Low-profile design
- 304 stainless steel construction

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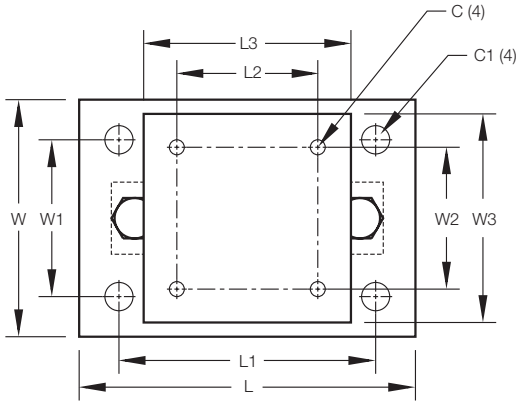
EZ Mount 1 HE

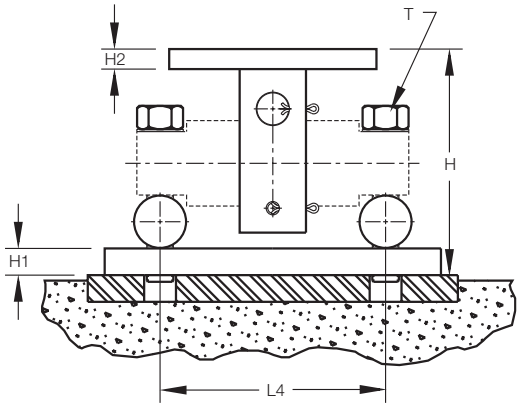
Stainless Steel, Hermetically sealed

DIMENSIONS

Rated Capacity	C	C1	H	H1	H2	L	L1	L2	L3	L4	T	W	W1	W2	W3
lb/inches															
5000-20,000	.56	1.06	5.31	.75	.50	11.00	8.00	3.00	6.00	6.87	5/8-18 UNF	7.50	4.00	3.00	6.00
30,000-60,000	.68	1.19	8.43	1.00	.75	15.00	11.50	5.12	8.00	8.50	1-14 UNS	10.00	6.00	5.12	8.00
kg/mm															
2268.0-9071.9	14.2	26.9	134.9	19.1	12.7	279.4	203.2	76.2	139.7	174.5	5/8-18 UNF	190.5	101.6	76.2	139.7
13,607.8-27,215.5	17.3	30.2	214.1	25.4	19.1	381.0	292.1	130.0	203.2	215.9	1-14 UNS	254.0	152.4	130.1	203.2

NOTES: • Mounting bolts (T) may project on lower side of base plate • Foundation plate not included



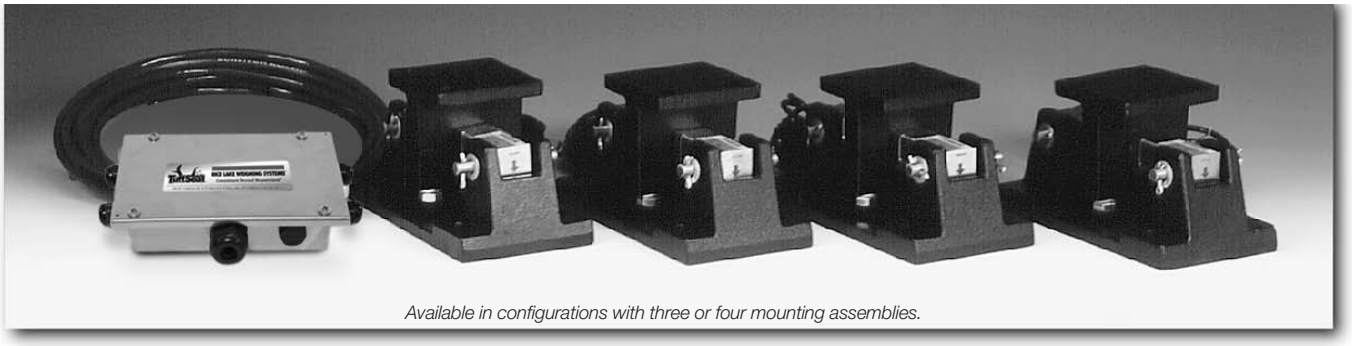


EZ HE Mount 1 stainless Steel Order Information

Load Rating (Per Module)		Part #	Price
3-Module Kit			
5000 lb	(2268.0 kg)	46695	$6,495.00
10,000 lb	(4535.9 kg)	46696	$6,495.00
20,000 lb	(9071.9 kg)	46697	$6,495.00
30,000 lb	(13,607.8 kg)	46698	$11,395.00
40,000 lb	(18,143.7 kg)	46699	$11,395.00
50,000 lb	(22,679.6 kg)	46700	$11,395.00
60,000 lb	(27,215.5 kg)	46701	$11,395.00
4-Module Kit			
5000 lb	(2268.0 kg)	46702	$8,695.00
10,000 lb	(4535.9 kg)	46703	$8,695.00
20,000 lb	(9071.9 kg)	46704	$8,695.00
30,000 lb	(13,607.8 kg)	46705	$15,495.00
40,000 lb	(18,143.7 kg)	46706	$15,495.00
50,000 lb	(22,679.6 kg)	46707	$15,495.00
60,000 lb	(27,215.5 kg)	46708	$15,495.00
Dummy Load Cells (Mild Steel)			
5000-20,000 lb	(2268.0-9071.9 kg)	33749	$75.00
30,000-60,000 lb	(13,607.8-27,215.5 kg)	74016	$95.00

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RL1600 Series, Cast Iron



Available in configurations with three or four mounting assemblies.

Picture is a representation of actual product

The RL1600 Series Mounting Module Kit utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications. The RL1600 Series kit is ideally suited for indoor and outdoor process control operations in the medium- to high-capacity ranges. Each module incorporates self-checking capabilities for thermal expansion and contraction.

LOAD CELL CERTIFICATIONS:

FM APPROVED LOAD CELLS

COMPLETE KIT INCLUDES:

- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 3 or 4 RL1600 cast iron compression mounts
- 3 or 4 RL75016 double-ended shear beam load cells (see page 135)
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Medium- to heavy-capacity tanks, bins, and hoppers
- Bulk material management
- Dry ingredient batching, mixing, and blending

STANDARD FEATURES:

- Capacities (per module): 1000-25,000 lb (453.6-11,339.8 kg)
- Cast iron construction
- Self-checking easy-to-use design allows module to be bolted directly to tank leg without requiring additional mounting plates or load buttons
- Environmentally protected load cells
- Double-ended beam design, center loaded

Cast iron module with RL75016 double-ended beam load cell. Refer to page 135 for load cell specifications.

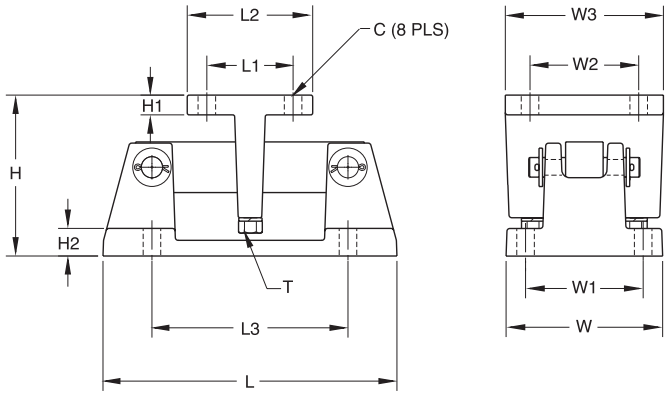


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RL1600 Series, Cast Iron

DIMENSIONS

Rated Capacity	C	H	H1	H2	L	L1	L2	L3	T	W	W1	W2	W3
lb/inches													
1000-5000	.56	5.00	.50	.50	9.31	2.75	4.00	6.25	1/2-13 UNC	5.00	3.75	2.75	4.00
10,000-25,000	.78	7.89	.75	.75	12.00	6.00	8.00	7.50	3/4-10 UNC	8.00	6.00	6.00	8.00
kg/mm													
453.6-2268.0	14.2	127.0	12.7	12.7	236.5	69.9	101.6	158.8	1/2-13 UNC	127.0	95.3	69.9	101.6
4535.9-11,339.8	19.8	200.4	19.1	19.1	304.8	152.4	203.2	190.5	3/4-10 UNC	203.2	152.4	152.4	203.2

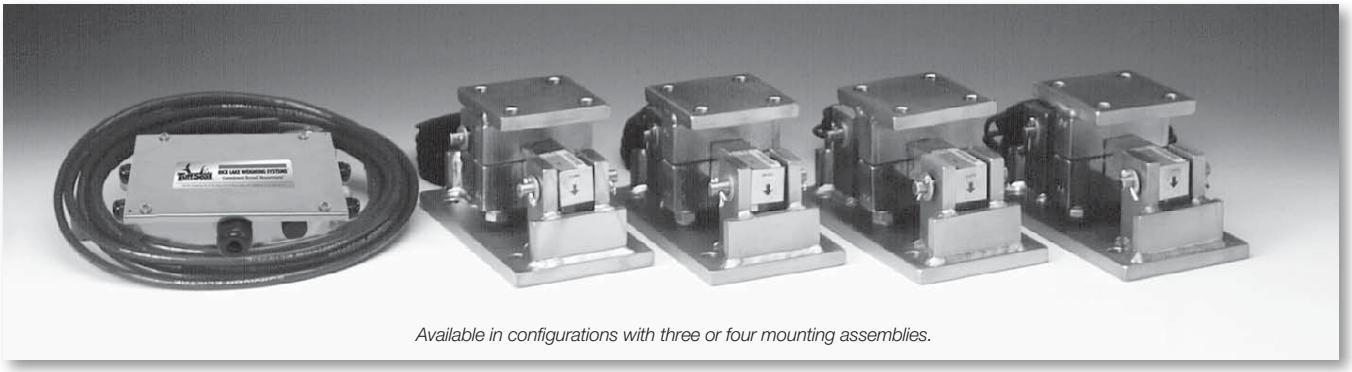


RL1600 Order Information

Load Rating (Per Module)		Part #	Price
Single Module (Does NOT Include Load Cell)			
1000-5000 lb	(453.6-2268.0 kg)	17964	$150.00
10,000-25,000 lb	(4535.9-11,339.8 kg)	17965	$290.00
3-Module Kit			
1000 lb	(453.6 kg)	25663	$1,995.00
1500 lb	(680.4 kg)	25664	$1,995.00
2000 lb	(907.2 kg)	25665	$1,995.00
2500 lb	(1134.0 kg)	25666	$1,995.00
3000 lb	(1360.8 kg)	25667	$1,995.00
5000 lb	(2268.0 kg)	25668	$1,995.00
10,000 lb	(4535.9 kg)	25669	$2,595.00
15,000 lb	(6803.9 kg)	25671	$2,595.00
20,000 lb	(9071.9 kg)	25672	$2,595.00
25,000 lb	(11,339.8 kg)	25674	$2,595.00
4-Module Kit			
1000 lb	(453.6 kg)	25675	$2,550.00
1500 lb	(680.4 kg)	25676	$2,550.00
2000 lb	(907.2 kg)	25677	$2,550.00
2500 lb	(1134.0 kg)	25678	$2,550.00
3000 lb	(1360.8 kg)	25679	$2,550.00
5000 lb	(2268.0 kg)	25680	$2,550.00
10,000 lb	(4535.9 kg)	25681	$3,350.00
15,000 lb	(6803.9 kg)	25682	$3,350.00
20,000 lb	(9071.9 kg)	25683	$3,350.00
25,000 lb	(11,339.8 kg)	25684	$3,350.00
Dummy Load Cells			
1000-5000 lb	(453.6-2268.0 kg)	18236	$20.00
10,000-25,000 lb	(4535.9-11,339.8 kg)	18237	$35.00
Equalizer Pads			
1000 lb - 5000 lb		Consult Factory	
10,000 lb - 25,000 lb		Consult Factory	

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RL1600 Series, Mild Steel



Available in configurations with three or four mounting assemblies.

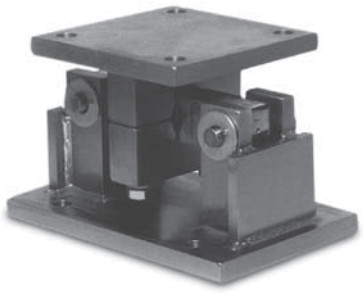
Picture is a representation of actual product

The RL1600 Series Mounting Module Kit utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications. The RL1600 Series kit is ideally suited for indoor and outdoor process control operations in the medium- to high-capacity ranges. Each module incorporates self-checking capabilities for thermal expansion and contraction.

LOAD CELL CERTIFICATIONS:

FM APPROVED LOAD CELLS

Mild steel module with RL75016 double-ended beam load cell. Refer to page 135 for load cell specifications.



COMPLETE KIT INCLUDES:

- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 3 or 4 RL1600 mild steel compression mounts
- 3 or 4 RL75016 double-ended shear beam load cells (see page 135)
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Medium- to heavy-capacity tanks, bins and hoppers
- Bulk material management
- Dry ingredient batching, mixing and blending

STANDARD FEATURES:

- Capacities (per module): 1000-75,000 lb (453.6-34,019.5 kg)
- Self-checking, easy-to-use design allows module to be bolted directly to tank leg without requiring additional mounting plates or load buttons
- Environmentally protected load cells
- Double-ended shear beam design, center loaded
- Painted mild steel construction

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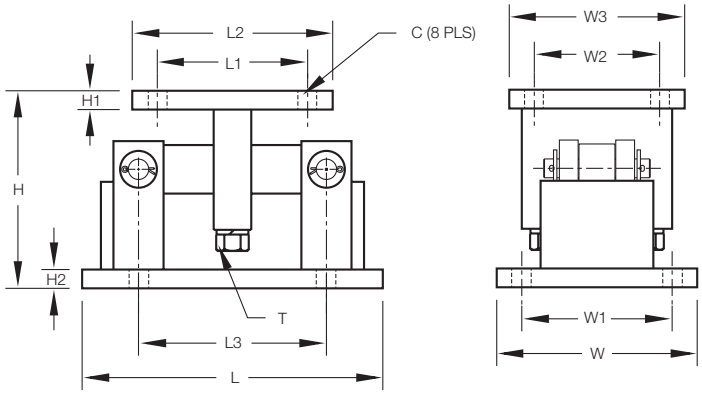
RL1600 Series, Mild Steel

DIMENSIONS

Rated Capacity	C	H	H1	H2	L	L1	L2	L3	T	W	W1	W2	W3
lb/inches													
1000-5000	.56	5.00	.50	.50	9.25	2.75	4.00	6.25	1/2-13 UNC	5.00	3.75	2.75	4.00
10,000-25,000	.78	7.87	.75	.75	12.00	6.00	8.00	7.50	3/4-10 UNC	8.00	6.00	6.00	8.00
50,000-75,000	.78	9.31	1.00	1.00	16.25	6.50	9.00	11.50	1 1/4-7 UNC	12.00	9.50	6.50	9.00
kg/mm													
453.6-2268.0	14.2	127.0	12.7	12.7	235.0	69.9	101.6	158.8	1/2-13 UNC	127.0	95.3	69.9	101.6
4535.9-11,339.8	19.8	199.9	19.1	19.1	304.8	152.4	203.2	190.5	3/4-10 UNC	203.2	152.4	152.4	203.2
22,679.7-34,019.5	19.8	236.5	25.4	25.4	412.8	165.1	228.6	292.1	1 1/4-7 UNC	304.8	241.3	165.1	228.6

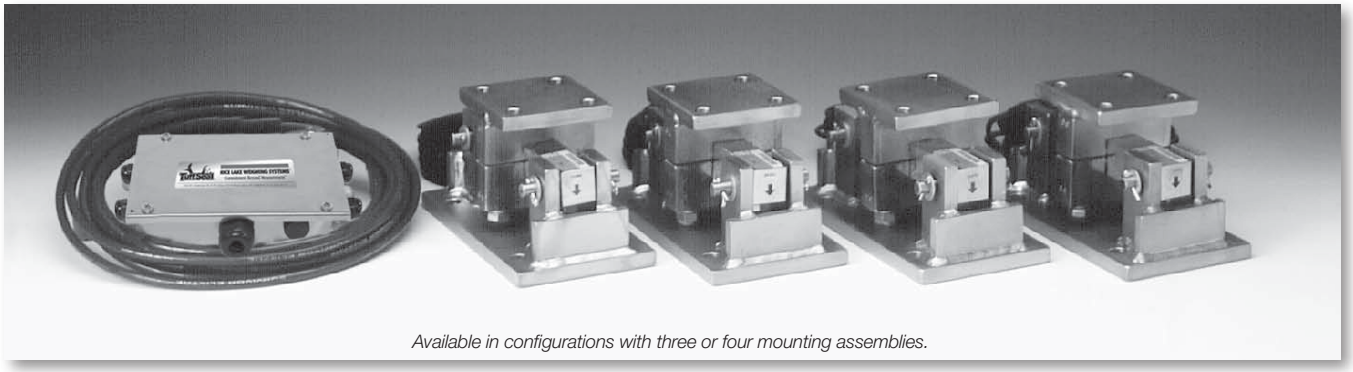
RL1600 Order Information

Load Rating (Per Module)		Part #	Price
Single Module (Does NOT Include Load Cell)			
1000-5000 lb	(453.6-2268.0 kg)	17812	$150.00
10,000-25,000 lb	(4535.9-11,339.8 kg)	17814	$290.00
50,000 lb	(22,679.6 kg)	17816	$975.00
75,000 lb	(34,019.5 kg)	25346	$975.00
3-Module Kit			
1000 lb	(453.6 kg)	18117	$1,995.00,
1500 lb	(680.4 kg)	18118	$1,995.00
2000 lb	(907.2 kg)	18119	$1,995.00
2500 lb	(1134.0 kg)	18120	$1,995.00
3000 lb	(1360.8 kg)	18121	$1,995.00
5000 lb	(2268.0 kg)	18122	$1,995.00
10,000 lb	(4535.9 kg)	18123	$2,595.00
15,000 lb	(6803.9 kg)	18124	$2,595.00
20,000 lb	(9071.9 kg)	18125	$2,595.00
25,000 lb	(11,339.8 kg)	18126	$2,595.00
50,000 lb	(22,679.6 kg)	18127	$5,350.00
75,000 lb	(34,019.5 kg)	25348	$5,350.00
4-Module Kit			
1000 lb	(453.6 kg)	18129	$2,550.00
1500 lb	(680.4 kg)	18130	$2,550.00
2000 lb	(907.2 kg)	18131	$2,550.00
2500 lb	(1134.0 kg)	18132	$2,550.00
3000 lb	(1360.8 kg)	18133	$2,550.00
5000 lb	(2268.0 kg)	18134	$2,550.00
10,000 lb	(4535.9 kg)	18135	$3,350.00
15,000 lb	(6803.9 kg)	18136	$3,350.00
20,000 lb	(9071.9 kg)	18137	$3,350.00
25,000 lb	(11,339.8 kg)	18138	$3,350.00
50,000 lb	(22,679.6 kg)	18139	$7,150.00
75,000 lb	(34,019.5 kg)	25349	$7,150.00
Dummy Load Cells			
1000-5000 lb	(453.6-2268.0 kg)	18236	$20.00
10,000-25,000 lb	(4535.9-11,339.8 kg)	18237	$35.00
50,000 lb	(22,679.6 kg)	18238	$50.00
Equalizer Pads			
1000 lb-5000 lb		Consult Factory	
10,000 lb-25,000 lb		Consult Factory	



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RL1600 Series, Stainless Steel



Available in configurations with three or four mounting assemblies.

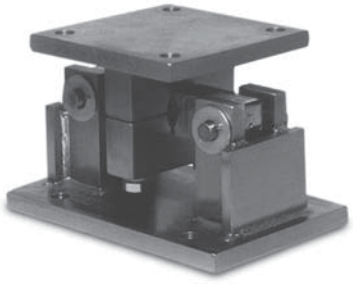
Picture is a representation of actual product

The RL1600 Series Mounting Module Kit utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications. The RL1600 Series kit is ideally suited for indoor and outdoor process control operations in the medium- to high-capacity ranges. Each module incorporates self-checking capabilities for thermal expansion and contraction.

LOAD CELL CERTIFICATIONS:

FM APPROVED LOAD CELLS

Fabricated stainless steel module with RL75016 SS double-ended beam load cell. Refer to page 136 for load cell specifications.



COMPLETE KIT INCLUDES:

- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 3 or 4 RL1600 stainless steel compression mounts
- 3 or 4 RL75016SS stainless steel double-ended shear beam load cells (see page 136)
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

STANDARD FEATURES:

- Capacities (per module): 1000-75,000 lb (453.6-34,019.5 kg)
- 304 stainless steel construction
- Self-checking, easy-to-use design allows module to be bolted directly to tank leg without requiring additional mounting plates or load buttons
- Environmentally protected load cells
- Double-ended shear beam design, center loaded

APPLICATIONS:

- Medium- to heavy-capacity tanks, bins, and hoppers
- Bulk material management
- Dry ingredient batching, mixing, and blending

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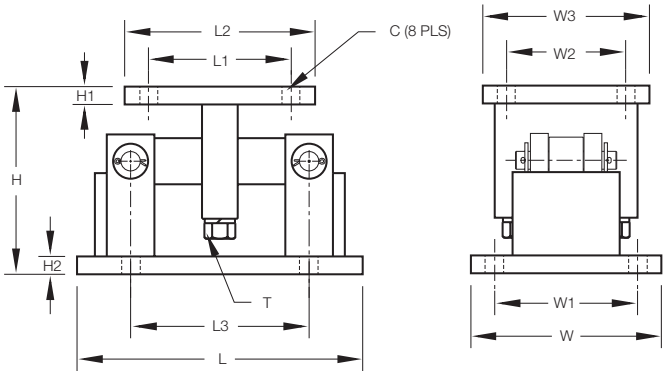
RL1600 Series, Stainless Steel

DIMENSIONS

Rated Capacity	C	H	H1	H2	L	L1	L2	L3	T	W	W1	W2	W3
lb/inches													
1000-5000	.56	5.00	.50	.50	9.25	2.75	4.00	6.25	1/2-13 UNC	5.00	3.75	2.75	4.00
10,000-25,000	.78	7.87	.75	.75	12.00	6.00	8.00	7.50	3/4-10 UNC	8.00	6.00	6.00	8.00
50,000-75,000	.78	9.31	1.00	1.00	16.25	6.50	9.00	11.50	1 1/4-7 UNC	12.00	9.50	6.50	9.00
kg/mm													
453.6-2268.0	14.2	127.0	12.7	12.7	235.0	69.9	101.6	158.8	1/2-13 UNC	127.0	95.3	69.9	101.6
4535.9-11,339.8	19.8	199.9	19.1	19.1	304.8	152.4	203.2	190.5	3/4-10 UNC	203.2	152.4	152.4	203.2
22,679.7-34,019.5	19.8	236.5	25.4	25.4	412.8	165.1	228.6	292.1	1 1/4-7 UNC	304.8	241.3	165.1	228.6

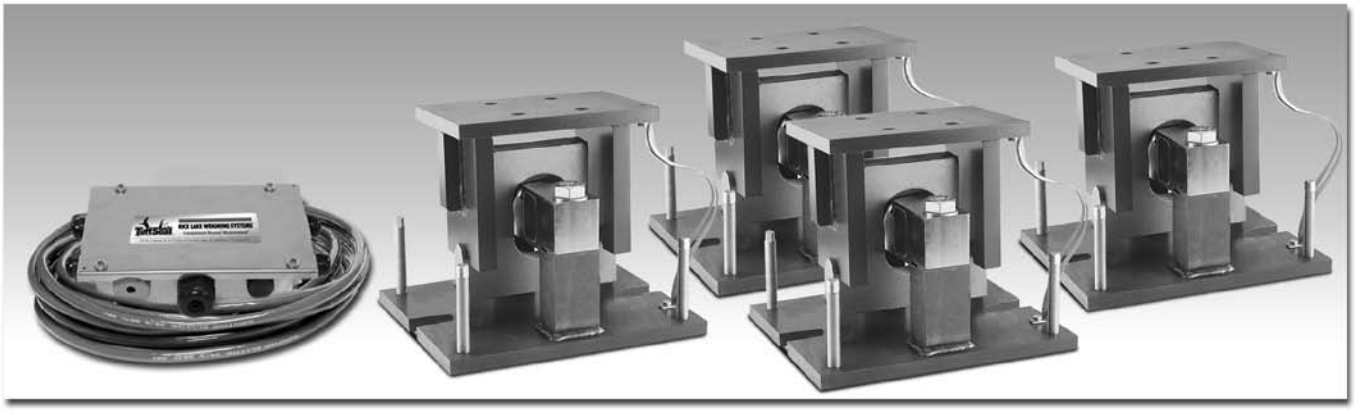
RL1600 Order Information

Load Rating (Per Module)		Part #	Price
Single Module (Does NOT Include Load Cell)			
1000-5000 lb	(453.6-2268.0 kg)	17813	$565.00
10,000-25,000 lb	(4535.9-11,339.8 kg)	17815	$1,095.00
50,000 lb	(22,679.6 kg)	17842	$2,595.00
75,000 lb	(34,019.5 kg)	25347	$2,595.00
3-Module Kit			
1000 lb	(453.6 kg)	18141	$2,995.00
1500 lb	(680.4 kg)	18142	$2,995.00
2000 lb	(907.2 kg)	18143	$2,995.00
2500 lb	(1134.0 kg)	18144	$2,995.00
5000 lb	(2268.0 kg)	18145	$2,995.00
10,000 lb	(4535.9 kg)	18146	$4,795.00
15,000 lb	(6803.9 kg)	18147	$4,795.00
20,000 lb	(9071.9 kg)	18148	$4,795.00
25,000 lb	(11,339.8 kg)	18149	$4,795.00
50,000 lb	(22,679.6 kg)	18150	$9,995.00
75,000 lb	(34,019.5 kg)	25352	$9,995.00
4-Module Kit			
1000 lb	(453.6 kg)	18152	$3,850.00
1500 lb	(680.4 kg)	18153	$3,850.00
2000 lb	(907.2 kg)	18154	$3,850.00
2500 lb	(1134.0 kg)	18155	$3,850.00
5000 lb	(2268.0 kg)	18156	$3,850.00
10,000 lb	(4535.9 kg)	18157	$6,450.00
15,000 lb	(6803.9 kg)	18158	$6,450.00
20,000 lb	(9071.9 kg)	18159	$6,450.00
25,000 lb	(11,339.8 kg)	18160	$6,450.00
50,000 lb	(22,679.6 kg)	18161	$13,995.00
75,000 lb	(34,019.5 kg)	25353	$13,995.00
Dummy Load Cells (Mild Steel)			
1000-5000 lb	(453.6-2268.0 kg)	18236	$20.00
10,000-25,000 lb	(4535.9-11,339.8 kg)	18237	$35.00
50,000 lb	(22,679.6 kg)	18238	$50.00
Equalizer Pads			
1000 lb-5000 lb		Consult Factory	
10,000 lb-25,000 lb		Consult Factory	



MVS Mount

MVS Conversion Kit



Picture is a representation of actual product

Designed for the Rice Lake Weighing Systems SURVIVOR® Truck Scale product line, the MVS can also be purchased independently to support existing designs or applications. Built to withstand the punishment of the most severe environments, the MVS utilizes the center-loaded double-ended shear beam load cell design. The mount is self-centering, which eliminates the need of costly check rods. This results in a pendulum suspension effect that eliminates binding, protects the load cells from damaging side load common on truck scales and automatically returns the mount to dead center. The mount is easy to install and promises high performance and long life.

LOAD CELL CERTIFICATIONS:

FM APPROVED LOAD CELLS

NTEP

COMPLETE KIT INCLUDES:

- 4 to 10 RL75058-75,000 lb load cells (see page 138) with 35' or 60' cables
- 4 to 10 MVS mounts
- JB 8SPT junction box (JB1010 on 10 module kit)
- 100' of our Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Truck/Track scale conversion
- Heavy-capacity horizontal tanks

STANDARD FEATURES:

- Capacity Design: 10,000-125,000 lb (4536.0-34,019.4 kg)
- Mild steel construction
- Specially hardened center link
- Self-checking design
- Self-centering design
- Accommodates thermal expansion and contraction

OPTIONAL FEATURES:

- Vishay Sensortronics 65058 or Vishay Celtron CLB
- Rice Lake 75060S or Vishay Sensortronics 65058 S stainless steel welded-seal NTEP-certified load cells
- Consult local Weights and Measures for legal-for-trade approval in all retrofit applications

RICE LAKE WEIGHING SYSTEMS

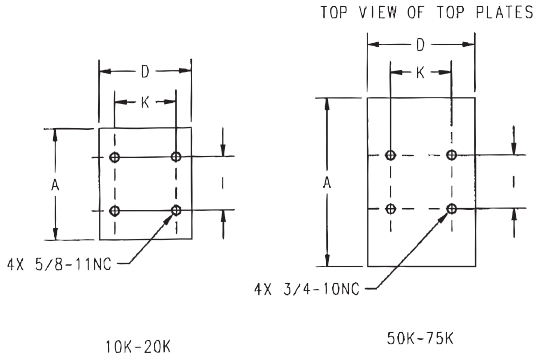
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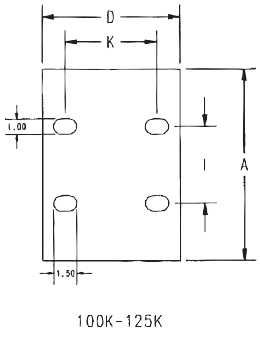
MVS Mount

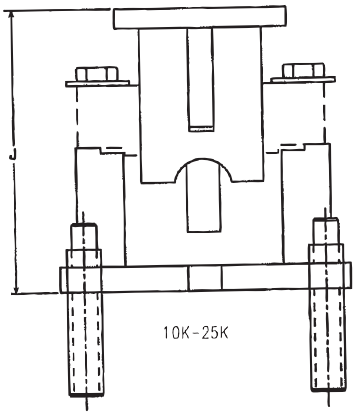
MVS Conversion Kit

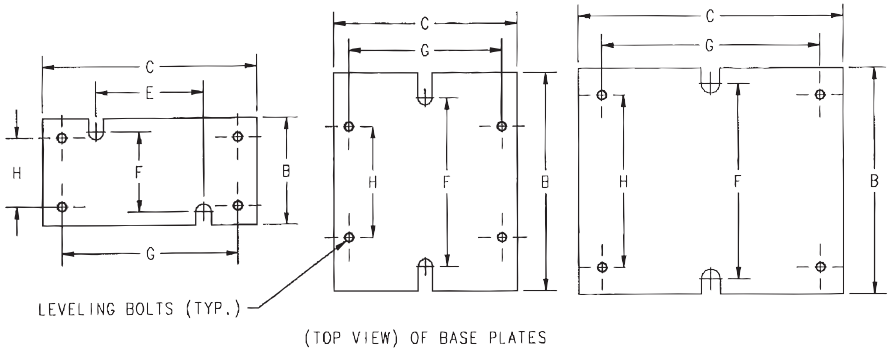
DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	H	I	J	K
lb/inches											
10,000-25,000	7.25	14.00	7.00	6.00	7.00	5.25	4.50	11.50	3.50	8.50	4.00
50,000-75,000	11.00	14.25	12.00	7.00	—	11.00	10.00	7.25	3.50	11.53	4.00
100,000-125,000	12.50	14.75	17.25	9.00	—	12.75	14.25	11.25	5.00	14.21	6.00
kg/mm											
4536-11,340	184.2	355.6	177.8	152.4	177.8	133.5	114.3	292.1	88.9	215.9	101.6
22,679.6-34,019.4	279.4	362.0	304.8	177.8	—	279.4	254	184.15	88.9	292.9	101.6
45,360-56,700	317.50	374.7	438.2	228.6	—	323.9	362.0	285.8	127.0	360.9	152.4









MVS Order Information

Load Rating		Part #	Price
MVS Mount (Does NOT Include Load Cell)			
10,000 lb-25,000 lb	(4536-11,340 kg)	71200	$495.00
50,000 lb-75,000 lb	(22,679.6-34,019.4 kg)	46441	$595.00
100,000 lb-125,000 lb	(45,360 kg-56,700.0 kg)	68520	$1,015.00

Custom heights available; consult factory

** Consult factory for other capacity requirements*

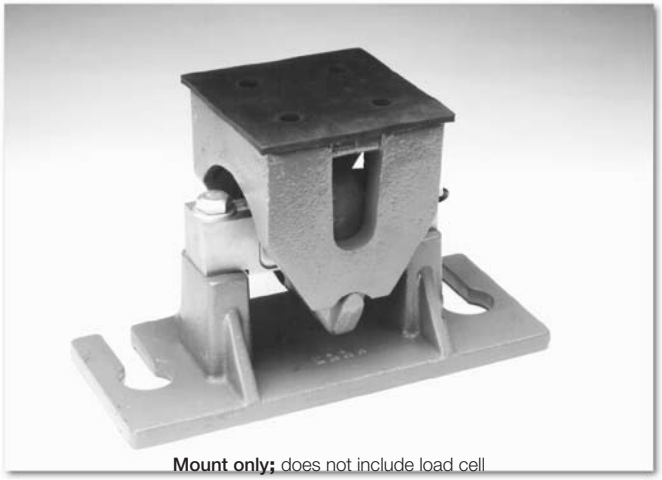
MVS Order Information

Load Rating	Part #	Price
MVS Conversion Kits (Includes 75,000 lb* Load Cells, Mounts & J-Box)		
4-module kit	68495	$6,295.00
6-module kit	68496	$9,975.00
8-module kit	68497	$12,995.00
10-module kit	68498	$16,195.00

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TSA

Truck Scale Assembly, Vishay Sensortronics



Mount only; does not include load cell

Picture is a representation of actual product

The TSA truck scale assembly is designed for use with Rice Lake Weighing Systems RL75058 or Vishay Sensortronics 65058. The "Unilink" suspension design checks lateral movement of the assembly, while controlled floating of the scale deck is allowed. The effective integration of the TSA mount and the double-ended shear beam load cell eliminates the need for troublesome check rods, links, expansion assemblies and other peripheral hardware.

APPLICATIONS:

- Truck, track, horizontal tank or general purpose
- From light-duty livestock to heavy-duty vehicle scales

STANDARD FEATURES:

- Capacities: 10,000-75,000 lb (4535.9-34,019.4 kg)
- Constructed of cast steel and iron with primer coating
- Unique high-performance "Unilink" suspension system
- Center-loaded double-ended shear beam design
- Self-checking design
- Rubber pad provided for mounting

OPTIONAL FEATURES:

- 20,000-75,000 lb (9071.9-34,019.4 kg) capacity NTEP-certified load cells available for 1:10,000d, Class IIIL
- Consult local Weights and Measures for legal-for-trade approval in all retrofit applications

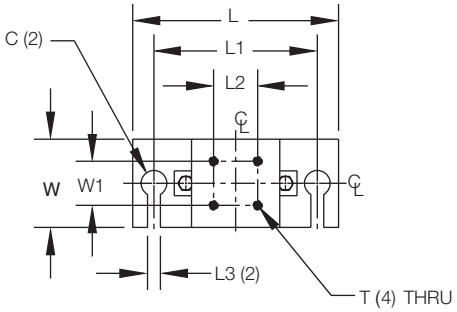
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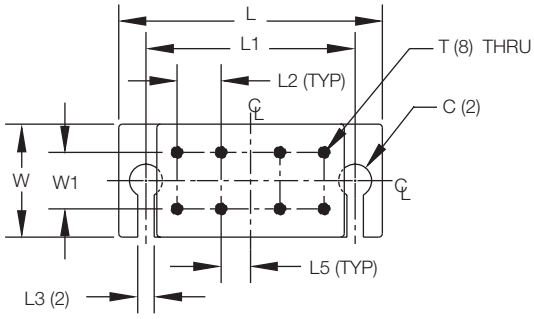
TSA

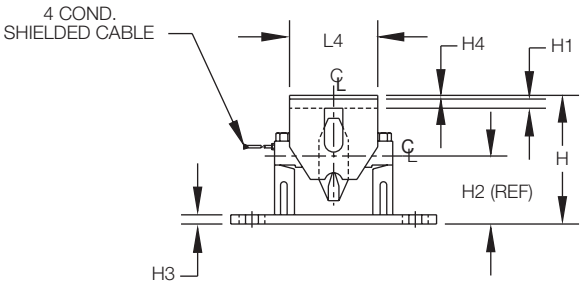
Truck Scale Assembly, Vishay Sensortronics

DIMENSIONS

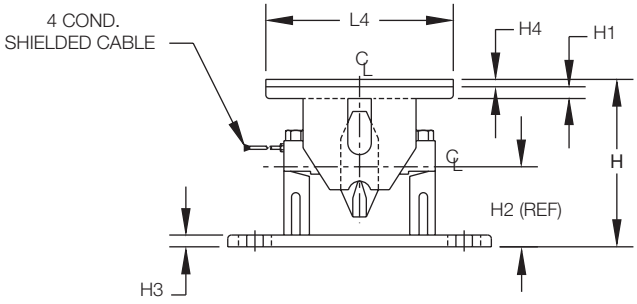
Rated Capacity	C	H	H1	H2	H3	H4	L	L1	L2	L3	L4	L5	T	W	W1
lb/inches															
10,000-25,000	1.75 DIA.	8.75	.62	4.62	.62	.25	14.00	11.00	3.00	.88	6.00	—	5/8-11 UNC-2B	6.00	3.00
50,000-75,000	2.00 DIA.	11.00	.75	5.44	.75	.50	18.00	14.00	3.00	.88	12.75	2.00	3/4-10 UNC-2B	7.00	3.50
kg/mm															
4535.9-11,339.8	44.5 DIA.	222.3	15.7	117.3	15.7	6.4	355.6	279.4	76.2	22.4	152.4	—	5/8-11 UNC-2B	152.4	76.2
22,679.6-34,019.4	50.8 DIA.	279.4	19.1	138.2	19.1	12.7	457.2	355.6	76.2	22.4	323.9	50.8	3/4-10 UNC-2B	177.8	88.9







10,000 lb-25,000 lb
(4535.9 kg-11,339.8 kg)



50,000 lb-75,000 lb
(22,679.6 kg-34,019.4 kg)

TSA Order Information

Load Rating		Part #	Price
10,000-20,000-25,000 lb	(4535.9-9071.9-11,339.8 kg)	17821	$625.00
50,000-60,000-75,000 lb	(22,679.6-27,215.5-34,019.4 kg)	17822	$795.00

** Mount only; does not include load cell*

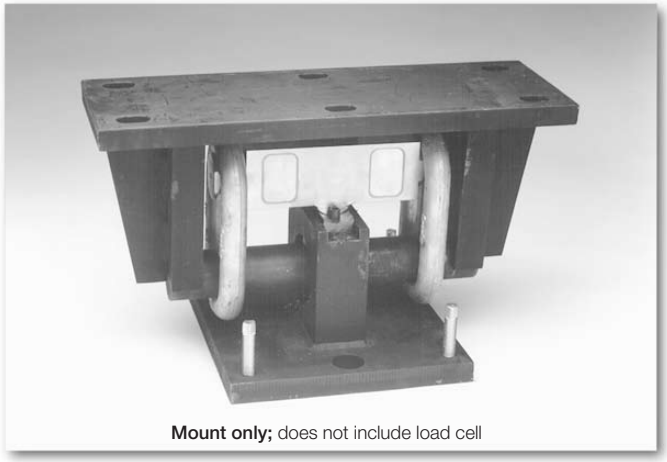
See page 307 for Vishay Sensortronics load cell model 65058 specifications

See page 138 for Rice Lake Weighing Systems load cell model RL75058 specifications

See page 139 for welded-seal RL75060S cell

TRANSLINK™

Parallel Link Truck Scale Assembly, Rice Lake Weighing Systems



Mount only; does not include load cell

Picture is a representation of actual product

The TRANSLINK parallel link truck scale assembly is designed for use with Rice Lake Weighing Systems' RL75223 and RL75040A, Revere Transducer's 5223 or Vishay Sensortronics' 65040A load cells. This design allows the scale platform to move freely in all directions in a horizontal plane while causing the platform to self-center because of the pendulous action of the links.

The unique parallel link design eliminates the need for costly and troublesome checkrods. Simply install platform bumpers and forget about over-travel. This mount is ideal for heavy-capacity weigh bridges.

APPLICATIONS:

- Truck scale mount
- Heavy-capacity horizontal tanks

STANDARD FEATURES:

- Capacities: 25,000-100,000 lb (11,339.8-45,359.4 kg)
- Center-supported, end-loaded double-ended shear beam design
- Free movement in all directions in the horizontal plane with virtually no friction
- Links provide optimal loading conditions for the cell
- Completely self-centering
- Requires no check rods
- Utilizes cells with 3 mV/V output
- Models available are RL75223 and RL75040, RTI 5223 and Vishay Sensortronics 65040A load cells
- Consult local Weights and Measures for legal-for-trade approval in all retrofit applications

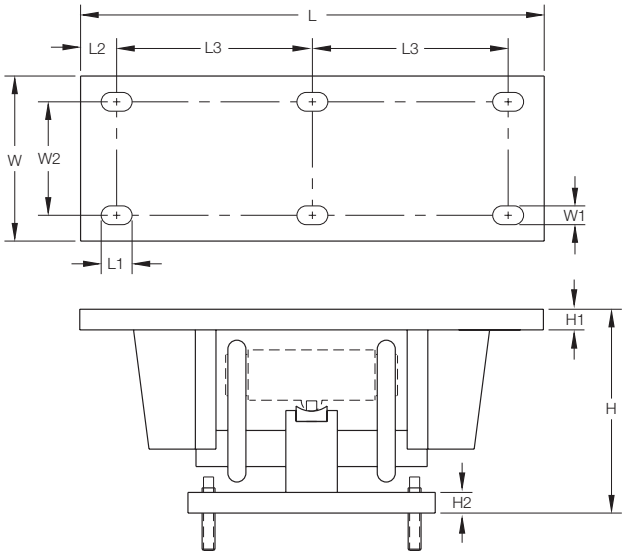
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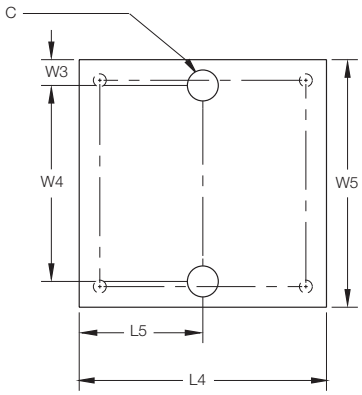
TRANSLINK™

Parallel Link Truck Scale Assembly, Rice Lake Weighing Systems

DIMENSIONS

Rated Capacity	C	H	H1	H2	L	L1	L2	L3	L4	L5	W	W1	W2	W3	W4	W5
lb/inches																
50,000-100,000 (RL75223, 5223)	1.50	12.93	1.00	1.00	22.50	1.50	1.75	9.50	11.75	5.88	7.75	.91	5.25	1.25	9.25	11.75
25,000-40,000 (RL75040A, 65040A)	1.50	9.88	1.00	1.00	18.50	1.50	1.75	7.50	11.75	5.88	7.75	.91	5.25	1.25	9.25	11.75
50,000-75,000 (RL75040A, 65040A)	1.50	12.82	1.00	1.00	22.50	1.50	1.75	9.50	11.75	5.88	7.75	.91	5.25	1.25	9.25	11.75
kg/mm																
22,679.6-45,359.4	38.1	328.4	25.4	25.4	571.5	37.5	44.5	241.3	298.5	149.4	196.9	23.1	133.4	31.8	235.0	298.4
11,339.8-18,143.7	38.1	251.0	25.4	25.4	469.9	37.5	44.5	190.5	298.5	149.4	196.9	23.1	133.4	31.8	235.0	298.4
22,679.6-34,019.4	38.1	325.6	25.4	25.4	571.5	37.5	44.5	241.3	298.5	149.4	196.9	23.1	133.4	31.8	235.0	298.4





Translink Order Information

Load Rating		Part #	Price
For use with RL75223, 5223 Load Cells			
50,000-100,000 lb	(22,679.6-45,359.4 kg)	17970	$695.00
For use with RL75040A, 65040A Load Cells			
25,000-40,000 lb	(11,339.8-18,143.7 kg)	17971	$695.00
50,000-75,000 lb	(22,679.6-34,019.4 kg)	17972	$695.00

** Mount only; does not include load cell*

See page 140 for load cell model RL75223 (RLWS), page 142 for load cell model RL75040 (RLWS), and page 310 for model 65040A (Vishay Sensortronics) specifications

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Motor Truck Scale Electronic Conversion Kit



Picture is a representation of actual product

Full electronic performance can be achieved at a fraction of the cost of a new scale and pit. The MOTOR TRUCK SCALE (MTS) ELECTRONIC CONVERSION KIT is designed to transform an existing scale pit and weighbridge into a fully-electronic vehicle scale. Designed for quick installation without removing the platform or reconfiguring the pit, the conversion kit can often be installed in a matter of days, minimizing downtime. This ease of installation is important when considering installations where it is not feasible to completely remove the existing scale.

COMPLETE KIT INCLUDES:

- 1 JB8SP NEMA 4X signal-trim junction box with individual and section trimming capability (6- and 8-mount kits) or 1 JB4SP NEMA 4X signal-trim junction box (4-mount kits)
- 1 UJB3T6 DC transient protector
- 4, 6 or 8 Translink mounting assemblies with RL75040 or RL75223 load cells (see pages 140 & 142)
- 100' of Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Updating existing mechanical motor truck scales
- Replacing unsatisfactory electronic motor truck scales
- Conversion of heavy-capacity scales into fully-electronic vehicle scales where the existing scale cannot be removed

STANDARD FEATURES:

- Cost- and time-efficient installation; no need to remove weighbridge
- Converts existing scale capacities of 40,000-300,000 lb (18,143.7-90,718.7 kg)
- 4-, 6- or 8-mount kits for 2-, 3- or 4-section conversions
- TranslinkTM heavy-capacity mounting assemblies
- Free movement in all directions in the horizontal plane with virtually no friction
- Completely self-centering
- Requires no check rods
- Capacity per mount: 25,000-100,000 lb (11,339.8-45,359.4 kg)
- Utilizes cells with 3mV/V output

OPTIONAL FEATURES:

- Custom heights available; consult factory
- RLWS RL75223 welded-seal, Vishay Sensortronics 65040A or RTI 5223 load cells
- Consult local Weights and Measures for legal-for-trade approval in all retrofit applications

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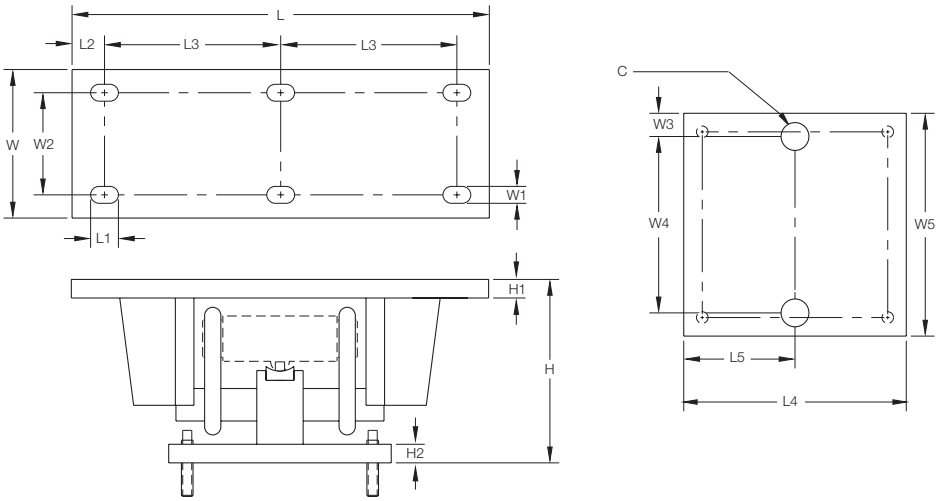
Motor Truck Scale Electronic Conversion Kit

DIMENSIONS

Rated Capacity	C	H*	H1	H2	L	L1	L2	L3	L4	L5	W	W1	W2	W3	W4**	W5
lb/inches																
50,000-100,000 (RL75223)	1.50	12.93	1.00	1.00	22.50	1.50	1.75	9.50	11.75	5.88	7.75	.91	5.25	1.25	9.25	11.75
25,000-40,000 (RL75040A)	1.50	9.88	1.00	1.00	18.50	1.50	1.75	7.50	11.75	5.88	7.75	.91	5.25	1.25	9.25	11.75
50,000-75,000 (RL75040A)	1.50	12.82	1.00	1.00	22.50	1.50	1.75	9.50	11.75	5.88	7.75	.91	5.25	1.25	9.25	11.75
kg/mm																
22,679.6-45,400.00 (RL75223)	38.1	328.4	25.4	25.4	571.5	37.5	44.5	241.3	298.5	149.4	196.9	23.1	133.4	31.8	235.0	298.45
11,339.8-18,143.7 (RL75040A)	38.1	251.0	25.4	25.4	469.9	37.5	44.5	190.5	298.5	149.4	196.9	23.1	133.4	31.8	235.0	298.45
22,679.6-34,019.4 (RL75040A)	38.1	325.6	25.4	25.4	571.5	37.5	44.5	241.3	298.5	149.4	196.9	23.1	133.4	31.8	235.0	298.45

** Custom heights available; consult factory*

*** Custom hole spacing for existing bolt patterns is available; consult factory*



MTS Weigh Modules Order Information

Scale Suggested Capacity		Load Cell Capacity		Part #	Price	Load Cell used in kit
4-Module Kit (Includes Weigh Modules Load Cells, J-Box, and Transient Protection)						
40,000 lb	(18,143.7 kg)	25,000 lb	(11,339.8 kg)	30513	$5,495.00	RL75040A
60,000 lb	(27,215.6 kg)	40,000 lb	(18,143.7 kg)	30514	$5,995.00	RL75040A
6-Module Kit (Includes Weigh Modules Load Cells, J-Box, and Transient Protection)						
100,000 lb	(45,359.4 kg)	50,000 lb	(22,679.6 kg)	30515	$9,445.00	RL75040A
120,000 lb	(54,431.2 kg)	60,000 lb	(27,215.6 kg)	30516	$9,495.00	RL75040A
8-Module Kit (Includes Weigh Modules Load Cells, J-Box, and Transient Protection)						
120,000 lb	(54,431.2 kg)	60,000 lb	(27,215.6 kg)	30517	$12,195.00	RL75040A
200,000 lb	(90,718.7 kg)	75,000 lb	(34,019.4 kg)	30518	$12,195.00	RL75040A
300,000 lb	SD (136,078.1 kg).	100,000 lb	(45,359.4 kg)	30512	$14,895.00	RL75223

SD refers to super duty, 100,000 lb (45,359.4 kg) capacity welded-seal load cells

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RL8000 HE

Stainless Steel, Hermetically Sealed, Rice Lake



Picture is a representation of actual product

APPLICATIONS:

- Light- to medium-capacity tanks, bins and hoppers
- Chemical blending, batching and mixing
- Standard Features:
- Capacities from 250-5,000 lb (113.4-2268 kg)
- Stainless steel
- Hermetically sealed
- Low profile
- 300% compression overload protection
- Easy installation
- IP66/68

This is the miniature version of the RL8500HE and features all of the same benefits. This innovative mounting assembly incorporates the load cell and mount into the same piece of hardware. The result is an extremely rugged, low-profile assembly that is capable of operating with very high performance levels in the worst of environmental conditions. This assembly is manufactured from stainless steel, and is hermetically sealed to prevent moisture intrusion. Since there is no bulky mounting hardware to deal with, the installation of the product is quick and easy. The capacity range on this version is 250 to 5,000 lb (113.4 to 2268.0 kg).

LOAD CELL CERTIFICATIONS:

FM APPROVED LOAD CELLS

Consult factory for FM instrumentation assistance

RICE LAKE WEIGHING SYSTEMS

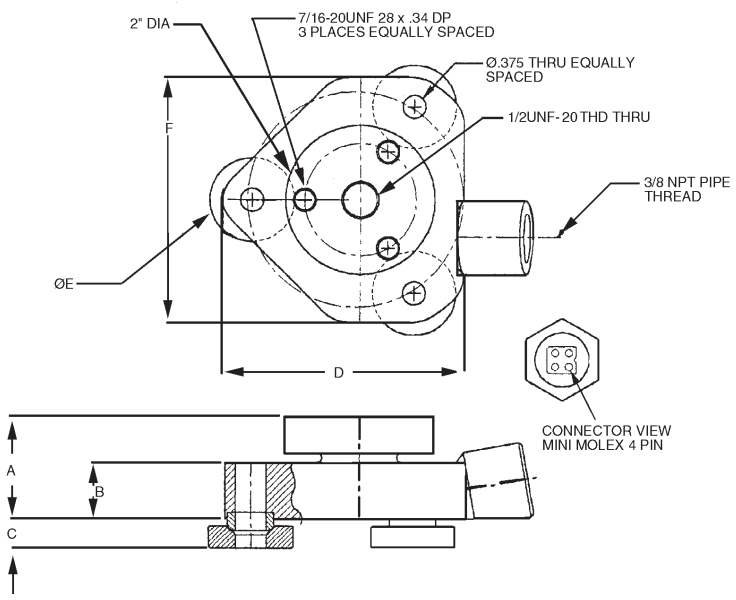
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RL8000 HE

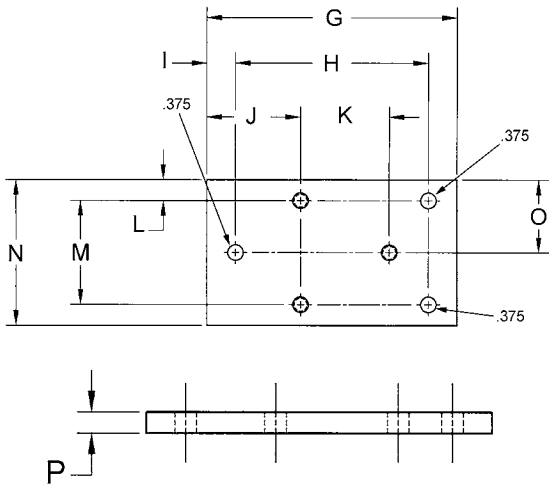
Stainless Steel, Hermetically Sealed, Rice Lake

DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
lb/inches																
250-5000	1.38	.75	.40	3.22	1.13	3.28	6.00	4.63	.69	2.25	2.12	.50	2.50	3.50	1.75	.36
kg/mm																
113.4-2268.0	35.1	19.1	10.2	81.8	28.7	83.3	152.4	117.6	17.5	57.2	53.9	12.7	63.5	88.9	44.5	9.3



Optional Base Plate Dimensions



SPECIFICATIONS:

Full Scale Output: 2.0 mV/V

Bridge Resistance: 1000 ohms, nominal with voltage applied

Material/Finish: Stainless steel

Temperature: Compensated range
0°F to 150°F/-18°C to 65°C

Safe Overload: 300% Full scale

Safe Sideload: 200% Full scale

Rated Excitation: 6-15V DC

Nonlinearity: 0.03% Full scale

Hysteresis: 0.03% Full scale

Insulation Resistance: 1000 megohms

Seal Type: Hermetically sealed, IP66/68

Cable Length: 25'/7.6 m stainless steel overbraid

Cable Color Code:
Red..... + Excitation
Black..... – Excitation
Green ..... + Signal
White..... – Signal

Warranty: Two-year limited warranty

RL8000 HE Order Information

Load Rating		Part #	Price
250 lb	(113.4 kg)	N/A	$1,395.00
500 lb	(226.8 kg	N/A	$1,395.00
1000 lb	(453.6 kg)	N/A	$1,395.00
2500 lb	(1134.0 kg)	N/A	$1,395.00
5000 lb	(2268.0 kg)	N/A	$1,395.00
*Mounting Hardware		N/A	$45.00
*Cable		63121	$395.00
Replacement Foot		65980	$35.00
Optional base plate		N/A	Consult factory

**Add to RL8000HE price*

RL8000 KM

Stainless Steel, Hermetically Sealed, Rice Lake



Picture is a representation of actual product

The RL8000KM is the latest addition to the RL8000 series of innovative products that incorporate the load cell and mount into the same piece of hardware. The KM version includes a standard mounting plate and with optional top plate, allows for quick and easy retrofits of Kistler Morse load disc applications. It's manufactured from stainless steel, and is hermetically sealed to prevent moisture intrusion. The result is an extremely rugged, low-profile assembly that is capable of operating with a high degree of accuracy in the worst of conditions. The standard cable length for this assembly is 25', although the cable can be requested in varying lengths and is field replaceable. Available in capacities from 250 lb through 10,000 lb.

APPLICATIONS:

- For use in harsh washdown areas
- Vessel weighing, batching and inventory control

STANDARD FEATURES:

- Capacities from 250-10,000 lb (113.4-2268 kg)
- Stainless steel
- Hermetically sealed
- Low profile
- 300% compression overload protection
- Easy installation
- IP66/68

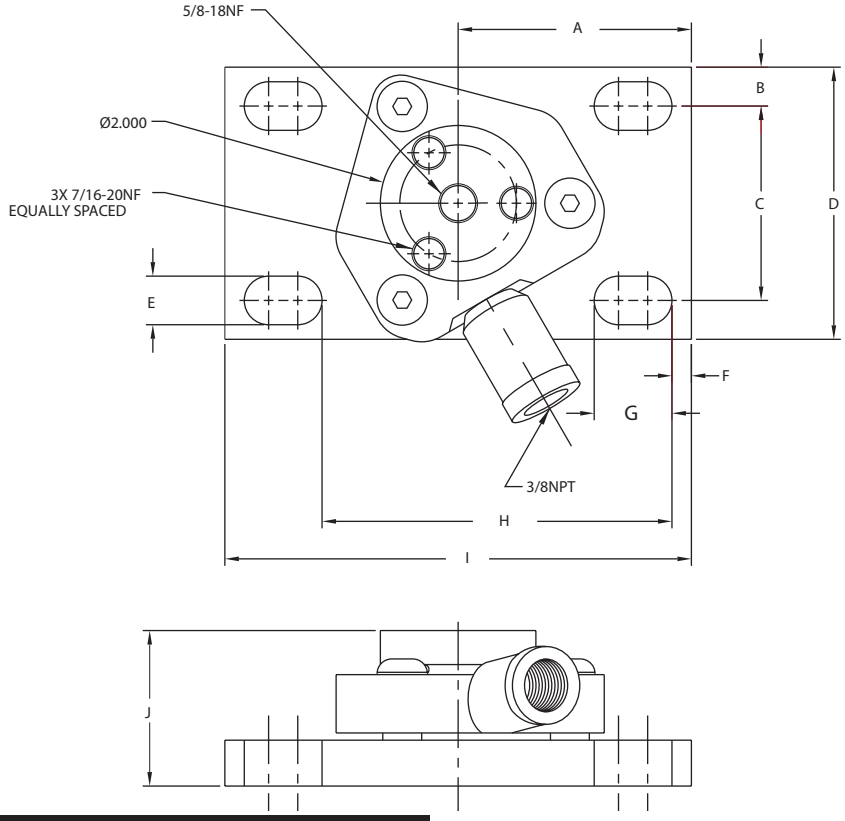
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RL8000 KM

Stainless Steel, Hermetically Sealed, Rice Lake

DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	H	I	J
lb/inches										
250-10,000 lb	3.00	2X .50	2X 2.50	3.50	4X .625	2X .25	4X 1.00	2X 4.50	6.00	2.00
kg/mm										
113.4-254,000.0	76.2	2X 12.7	2X 63.5	88.9	4X 15.8	2X 6.3	4X 25.4	2X 114.3	152.4	50.8



RL8000 KM Order Information

Load Rating		Part #	Price
250 lb	(113.4 kg)	N/A	$1,395.00
500 lb	(226.8 kg)	N/A	$1,395.00
1000 lb	(453.6 kg)	N/A	$1,395.00
2500 lb	(1134.0 kg)	N/A	$1,395.00
5000 lb	(2268.0 kg)	N/A	$1,395.00
10,000 lb	(4536.0 kg)	N/A	$1,395.00
*Top Plate		N/A	$295.00
*Cable		63121	$395.00

**Add to RL8000KM price*

Specifications:

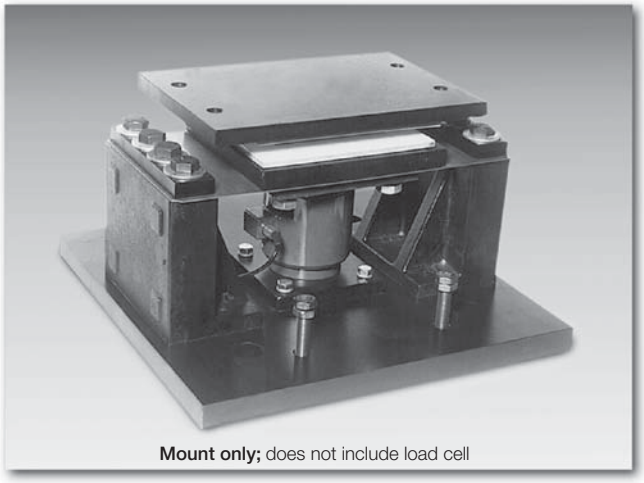
Full Scale Output:	2.0 mV/V
Bridge Resistance:	1050 ohms, nominal with voltage applied
Material/Finish:	Stainless steel
Temperature:	Compensated range -0°F to 150°F/-17°C to 65°C
Safe Overload:	300%* Full scale
Safe Sideload:	200% Full scale
Rated Excitation:	6-15V DC
Nonlinearity:	0.03% Full scale
Hysteresis:	0.03% Full scale
Insulation Resistance:	1000 megohms
Seal Type:	Hermetically sealed
Cable Length:	25'/7.6 m stainless steel overbraid
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty

*** 200% on 10,000 lb unit only**

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MagnaMount®

Tank, Truck & Railroad Track Assembly, Rice Lake Weighing Systems



Mount only; does not include load cell

Picture is a representation of actual product

The MagnaMount tank, truck and railroad scale assembly is designed for use with Rice Lake Weighing Systems' RLCSP1 or Revere Transducer's CP or CSP load cells. The "Shielded Cell" load cell mounting assembly is a highly reliable design that shields the load cell from shock and side load effects, assuring accurate weighing even under adverse loading conditions.

APPLICATIONS:

- Truck scale mount*
- Heavy-capacity horizontal tanks*
- Railroad track mount*

STANDARD FEATURES:

- Capacities:
  50,000, 100,000 and 200,000 lb (22,679.6, 45,359.4 and 90,718.7 kg)
- Protects load cell from shock and side loads
- Low-profile design
- High-strength load bearing plate made of high-grade carbon steel hardened to Rockwell C 48-54
- Teflon®-coated shock absorbers
- Compatible with Revere Transducer's CP and CSP and Rice Lake Weighing Systems' RLCSP1 NTEP-certified load cells
- Consult local Weights and Measures for legal-for-trade approval in all retrofit applications
- * Check rods required

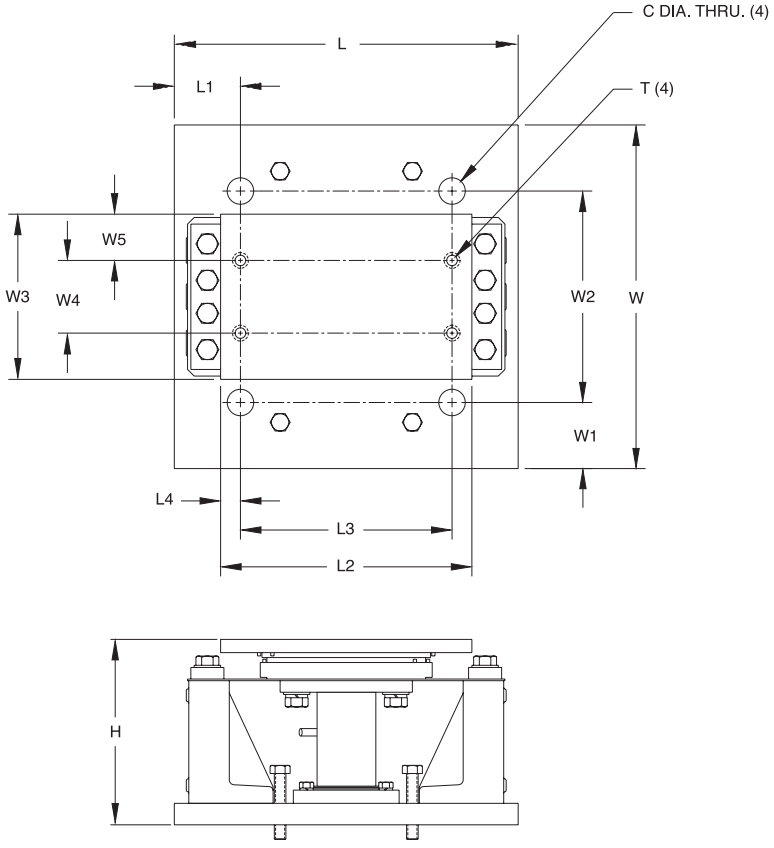
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MagnaMount®

Tank, Truck & Railroad Track Assembly, Rice Lake Weighing Systems

DIMENSIONS

Rated Capacity	C	H	L	L1	L2	L3	L4	T	W	W1	W2	W3	W4	W5
lb/inches														
50,000	1.25	7.39	13.00	1.75	11.25	8.50	1.37	3/4-10 UNC	12.00	1.75	8.50	8.00	4.50	1.75
100,000	1.50	11.29	20.00	2.50	18.00	15.50	1.25	7/8-9 UNC	17.00	2.50	12.00	9.00	5.50	1.75
200,000	2.00	14.10	26.00	5.00	19.00	16.00	1.50	1-8 UNC	26.00	5.00	16.00	12.50	5.50	3.50
kg/mm														
22,679.6	31.8	187.7	330.2	44.5	285.8	241.3	34.8	3/4-10 UNC	304.8	44.5	215.9	203.2	114.3	44.5
45,359.4	38.1	286.8	508.0	63.5	457.2	393.7	31.8	7/8-9 UNC	431.8	63.5	304.8	228.6	139.7	44.5
90,718.7	50.8	358.1	660.4	127.0	482.6	406.4	38.1	1-8 UNC	660.4	127.0	406.4	317.5	139.7	88.9



Magnamount Order Information

Load Rating		Part #	Price
50,000 lb	(22,679.6 kg)	21723	$1,195.00
100,000 lb	(45,359.4 kg)	21724	$1,495.00
200,000 lb	(90,718.7 kg)	17974	$2,295.00

** Mount only; does not include load cell*

See page 274 for Revere Transducer's load cell model CP, and page 275 for NTEP-certified load cell model CSP specifications

See page 143 for Rice Lake Weighing Systems' NTEP-certified load cell model RLCSP1

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Mettler Toledo™ DigiTOL® Retrofit Kit

Stainless Steel, Rice Lake Weighing Systems/Flintec



Shown here with the JB8SP signal trim junction box



Shown here with the JB8SP signal trim junction box

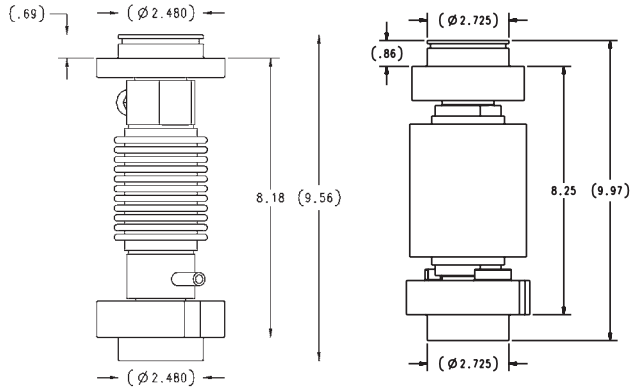
Picture is a representation of actual product

These kits are designed to provide a cost effective solution for replacing Toledo™ DigiTOL® digital load cells with analog load cells.

The Flintec RC1 and RC3 load cells are stainless steel and hermetically sealed to provide years of trouble-free service.

LOAD CELL CERTIFICATIONS:

FM APPROVED LOAD CELLS



RC1 RC3

COMPLETE KIT INCLUDES:

- 1 JB8SP or 2 JB8SP signal trim junction boxes (10 mount kit)
- 8 to 10 Flintec RC1-250 KN load cells or RC3-50t with upper and lower load cups
- 100' of Hostile Environment EL147HE SURVIVOR® load cell cable

APPLICATIONS:

- Toledo DigiTOL truck scale conversion

STANDARD FEATURES:

- Stainless steel hermetically sealed load cells
- Converts existing Mettler Toledo DigiTOL scale to an analog based load cell weighing system
- 8 or 10 load cells, cups plus Jbox and homerun cable
- Load cells are NTEP-certified 1:10,000 divisions, Class IIIL*
- Rocker design load cells

DigiTOL Retrofit Order information

Description	Part #	List Price
8 mount kit. (RC1-56K)	78713	$8,495.00
10 mount kit. (RC1-56K)	78714	$10,395.00
**10 mount kit (RC3-50t)	111367	$14,795.00

**Consult your local Weights & Measures Authorities for local legal-for-trade requirements*

***For DigiTOL Railroad Track Scale*

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Electronic Floor Scale Underdeck Kits



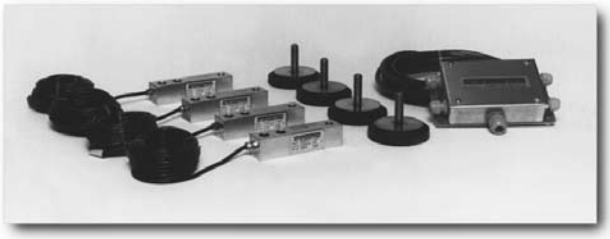
Industrial Applications, Alloy Steel Load Cells

Kit Includes

(4) Vishay Celtron SQB load cells
(1) JB4SS stainless steel NEMA 4X junction box
(4) Surefoot high-accuracy stainless steel support feet
20'/6.1 m EL147HE load cell cable
(4) Mounting plates & (8) Load cell bolts

Underdeck Kits Order Information

Load Cell/Base Capacity		Part #	Price
Kit Includes Vishay Celtron SQB Load Cells			
1000 lb for 2000 lb base	(453.6 kg for 907.2 kg base)	26436	$895.00
2500 lb for 5000 lb base	(1134.0 kg for 2268.0 kg base)	26437	$895.00
4000 lb for 10,000 lb base	(1814.4 kg for 4535.9 kg base)	26438	$895.00



Chemical, Dry Corrosive & Non-washdown Applications, Stainless Steel Load Cells

Kit Includes

(4) Vishay Celtron SQB-HSS stainless steel load cells
(1) JB4SS stainless steel NEMA 4X junction box
(4) Surefoot high-accuracy stainless steel support feet
20'/6.1 m EL147HE load cell cable
(4) Mounting plates & (8) Load cell bolts
NOTE: For complete load cell specifications, see SQB-HSS on page 189.

Underdeck Kits Order Information

Load Cell/Base Capacity		Part #	Price
Kit Includes Vishay Celtron SQB-HSS Stainless Steel Load Cells			
1000 lb for 2000 lb base	(453.6 kg for 907.2 kg base)	19035	$1,275.00
2500 lb for 5000 lb base	(1134.0 kg for 2268.0 kg base)	19036	$1,275.00
4000 lb for 10,000 lb base	(1814.4 kg for 4535.9 kg base)	19037	$1,275.00



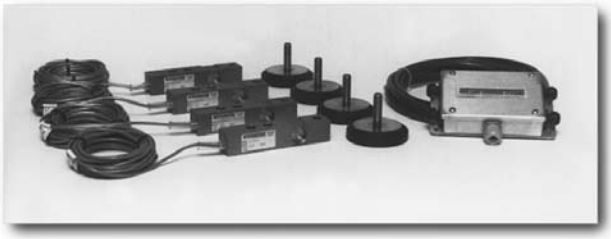
High-Precision Applications, Alloy Steel NTEP-certified Load Cells

Kit Includes

(4) RL35023 alloy steel NTEP 5000 Divisions, Class III certified load cells
(1) JB4SS stainless steel NEMA 4X junction box
(4) Surefoot high-accuracy stainless steel support feet
20'/6.1 m EL147HE load cell cable
(4) Mounting plates & (8) Load cell bolts
NOTES: For complete load cell specifications, see RL30000 on page 108.
The use of NTEP-certified load cells in a scale base does not constitute approval of the completed base. Consult with local or state jurisdiction for compliance requirements.

Underdeck Kits Order Information

Load Cell/Base Capacity		Part #	Price
Kit Includes RL35023 Alloy Steel NTEP-certified Load Cells			
1000 lb for 2000 lb base	(453.6 kg for 907.2 kg base)	19032	$975.00
2500 lb for 5000 lb base	(1134.0 kg for 2268.0 kg base)	19033	$975.00
4000 b for 10,000 b base	(1814.4 kg for 4535.9 kg base)	19034	$975.00



Wet Corrosive Applications, Welded Seal Stainless Steel Load Cells

Kit Includes

(4) RL35083 welded-seal stainless steel load cells
(1) JB4SS stainless steel NEMA 4X junction box
(4) Surefoot high-accuracy stainless steel support feet
20'/6.1 m EL147HE load cell cable
(4) Mounting plates & (8) Load cell bolts
NOTE: For complete load cell specifications, see RL35083 on page 114.

Underdeck Kits Order Information

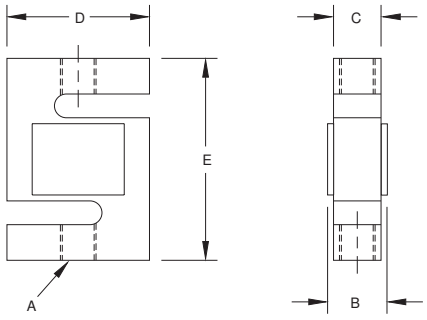
Load Cell/Base Capacity		Part #	Price
Kit Includes RL35083 Welded-Seal Load Cells			
1000 lb for 2000 lb base	(453.6 kg for 907.2 kg base)	19038	$1,595.00
2500 lb for 5000 lb base	(1134.0 kg for 2268.0 kg base)	19039	$1,595.00
4000 lb for 10,000 b base	(1814.4 kg for 4535.9 kg base)	19040	$1,595.00

Scale "Underdeck" Kits are provided to meet the application needs of the electronic floor scale producer and are an easy source for rebuilding existing floor scales. Underdeck kits are provided with mounting plates and load cell bolts for easy installation.

RL20000 S-Beam, Alloy Steel

NTEP 1:5000 III/1:10,000 IIIL





Picture is a representation of actual product

RL20000 Order Information

Load Rating		Part #	Price
25 lb	(11.3 kg)	21428	$275.00
50 lb	(22.7 kg)	21429	$275.00
75 lb	(34.0 kg)	21430	$275.00
100 lb	(45.4 kg)	21431	$275.00
150 lb	(68.0 kg)	21432	$275.00
200 lb	(90.7 kg)	21433	$275.00
250 lb	(113.4 kg)	21434	$275.00
300 lb	(136.1 kg)	21435	$275.00
500 lb	(226.8 kg)	21436	$275.00
750 lb	(340.2 kg)	21437	$275.00
1000 lb	(453.6 kg)	21438	$275.00
1500 lb	(680.4 kg)	21439	$275.00
2000 lb	(907.2 kg)	21440	$275.00
2500 lb	(1134.0 kg)	21441	$275.00
3000 lb	(1360.8 kg)	21442	$315.00
5000 lb	(2268.0 kg)	21443	$440.00
10,000 lb	(4535.9 kg)	21444	$440.00
15,000 lb	(6803.9 kg)	21445	$555.00
20,000 lb	(9071.9 kg)	21446	$875.00
Conduit Adapter Kit (must be factory installed to maintain warranty)*			
3/8-24 Nipple		31533*	$27.00
3/8-24 to 1/4-18 NPT		31534*	$27.00

** Parts #31533 and #31534 must be installed together to form the Conduit Adapter Kit*

SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	High-alloy steel, nickel plated
Temperature:	Compensated range 14°F to 104°F°/-10°C to 40°C
Seal Type:	Environmentally sealed, IP67
Safe Overload:	150% Full scale
Rated Excitation:	10V DC (15V maximum)
Nonlinearity:	0.03% Full scale
Hysteresis:	0.02% Full scale
Insulation Resistance:	5000 megohms
Cable Length:	20'/6.1 m
Cable Diameter:	.200 Polyurethane Jacket
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	

Interchangeable Products

Manufacturer	Model
**Artech	20210 (15K has 1"-14)

Weigh Module Available

	Model	Page #
ITCM Isolated Tension Cell Mount		350

Special Load Cells

These load cells have 30' of cable and trimmed outputs and are used in many batch plants

Load Rating	Part #	Price
2000 lb	21356	$338.00
5000 lb	17044	$476.00
20,000 lb	17045	$937.00

*** Except 15K*

DIMENSIONS

Rated Capacity	A	B	C	D	E
lb/inches					
25-300	1/4-28 UNF-2B	.75	.50	2.00	2.50
500-1500	1/2-20 UNF-2B	1.00	.75	2.00	2.50
2000-2500	1/2-20 UNF-2B	1.25	1.00	2.00	2.50
3000	1/2-20 UNF-2B	1.25	1.00	3.00	4.00
5000-10,000	3/4-16 UNF-2B	1.25	1.00	3.00	4.00
15,000	1-12 UNF-2B	1.50	1.25	4.00	5.50
20,000	1 1/4-12 UNF-2B	2.25	2.00	5.00	7.00
kg/mm					
11.3-136.1	1/4-28 UNF-2B	19.1	12.7	50.8	63.5
226.8-680.4	1/2-20 UNF-2B	25.4	19.1	50.8	63.5
907.2-1134.0	1/2-20 UNF-2B	31.8	25.4	50.8	63.5
1360.8	1/2-20 UNF-2B	31.8	25.4	76.2	101.6
2268.0-4535.9	3/4-16 UNF-2B	31.8	25.4	76.2	101.6
6803.9	1-12 UNF-2B	38.1	31.8	101.6	139.7
9071.9	1 1/4-12 UNF-2B	57.2	50.8	127.0	177.8

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RL20000 SS S-Beam

Stainless Steel NTEP 1:10000 Class IIIL Single Cell, IP67



Picture is a representation of actual product

SPECIFICATIONS:

Full Scale Output:	3.0 mV/V (+/- .008)
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 14°F to 104°F/ -10°C to 40°C
Seal Type:	Environmentally sealed, IP67
Safe Overload:	150% Full scale
Rated Excitation:	10V DC (15V maximum)
Nonlinearity:	0.03% Full scale
Hysteresis:	0.02% Full scale
Insulation Resistance:	5000 megohms
Cable Length:	20'/6.1 m
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A	B	C	D	E
lb/inches					
50-250	1/4-28 UNF-2B	.65	.46	2.00	2.40
500-1000	1/2-20 UNF-2B	.90	.71	2.00	2.40
2500	1/2-20 UNF-2B	1.15	.96	2.00	2.40
3000	1/2-20 UNF-2B	1.15	.96	3.00	3.90
5000	3/4-16 UNF-2B	1.15	.96	3.00	3.90
10,000	3/4-16 UNF-2B	1.15	1.21	3.00	3.90
kg/mm					
22.7-113.4	1/4-28 UNF-2B	16.5	11.7	50.8	61.0
226.8-453.6	1/2-20 UNF-2B	22.9	18.0	50.8	61.0
1134.0	1/2-20 UNF-2B	29.2	24.4	50.8	61.0
1360.8	1/2-20 UNF-2B	29.2	24.4	76.2	86.1
2268.0	3/4-16 UNF-2B	29.2	24.4	76.2	86.1
4535.9	3/4-16 UNF-2B	29.2	30.7	76.2	99.1

RL20000 SS Order Information

Load Rating		Part Number	Price
RL20000SS NTEP			
100 lb	(45.4 kg)	46511	$295.00
250 lb	(113.4 kg)	46503	$295.00
500 lb	(226.8 kg)	46504	$295.00
750 lb	(340.2 kg)	46505	$295.00
1000 lb	(453.6 kg)	46506	$295.00
2500 lb	(1134.0 kg)	46507	$295.00
3000 lb	(1360.8 kg)	46508	$395.00
5000 lb	(2268.0 kg)	46509	$495.00
10,000 lb	(4535.9 kg)	46510	$495.00
RL20000SS NON-NTEP			
50 lb	(22.9 kg)	17013	$295.00
Conduit Adapter Kit* (must be factory installed to maintain warranty)			
3/8-24 Nipple		31533*	$27.00
3/8-24 to 1/4-18 NPT		31534*	$27.00

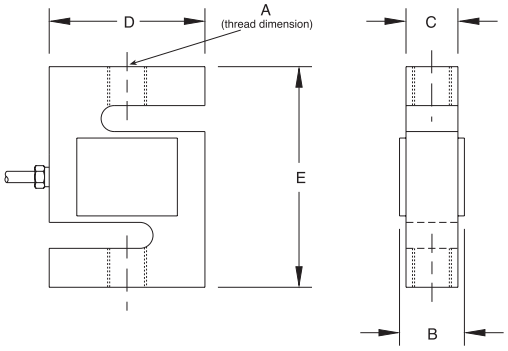
** Parts #31533 and #31534 must be installed together to form the Conduit Adapter Kit*

Interchangeable Products

Manufacturer	Model	Page Number
Vishay Revere Transducers	9363	256
Artech	SS20210	

Weigh Module Available

Manufacturer	Model	Page Number
ITCM Isolated Tension Cell Mount		350



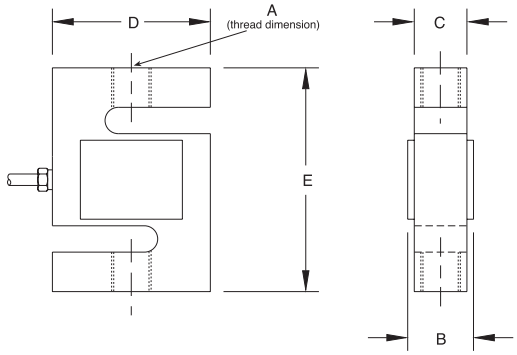
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RL20000 ST S-Beam

Stainless Steel, NTEP 1:10000 Class IIIL Single Cell, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Seal Type:	Environmentally sealed, IP67
Safe Overload:	150% Full scale
Rated Excitation:	10V DC (15V maximum)
Nonlinearity:	0.03% Full scale
Hysteresis:	0.02% Full scale
Insulation Resistance:	5000 megohms
Cable Length:	20'/6.1 m
Cable Diameter:	.190polyurethane jacket
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A	B	C	D	E
lb/inches					
50-300	1/4-28 UNF-2B	.65	.46	2.00	2.40
500-1000	1/2-20 UNF-2B	.90	.71	2.00	2.40
1500-2500	1/2-20 UNF-2B	1.15	.96	2.00	2.40
3000	1/2-20 UNF-28	1.15	.96	3.00	3.90
5000-10,000	3/4-16 UNF-28	1.15	.96	3.00	3.90
15,000	1-14 UNF-28	1.69	1.50	4.00	5.50
20,000	1 1/4-12 UNF-28	2.19	2.00	5.00	7.00
kg/mm					
22.7-45.4	1/4-28 UNF-2B	16.5	11.7	50.8	60.9
340.2-453.6	1/2-20 UNF-2B	22.9	18.0	50.8	60.9
680.4-1134	1/2-20 UNF-2B	29.2	24.4	50.8	60.9
1360.8	1/2-20 UNF-28	29.2	24.4	76.2	99.1
2268-4535.9	3/4-16 UNF-28	29.2	24.4	76.2	99.1
6803.9	1-14 UNF-28	42.9	38.1	101.6	139.7
9071.9	1 1/4-12 UNF-28	55.6	50.8	127.0	177.8

RL20000 ST Order Information

Load Rating		Part #	Price
50 lb	(22.9 kg)	72741	$295.00
100 lb	(45.4 kg)	72742	$295.00
200 lb	(90.72 kg)	72743	$295.00
250 lb	(113.4 kg)	72744	$295.00
300 lb	(136.1 kg)	72745	$295.00
500 lb	(226.8 kg)	72746	$295.00
750 lb	(340.2 kg)	72747	$295.00
1000 lb	(453.6 kg)	72748	$295.00
1500 lb	(680.4 kg)	72749	$295.00
2000 lb	(907.2 kg)	72750	$295.00
2500 lb	(1134.0 kg)	72751	$295.00

RL20000 ST Order Information

Load Rating		Part #	Price
3000 lb	(1360.8 kg)	72752	$395.00
5000 lb	(2268.0 kg)	72753	$495.00
10,000 lb	(4535.9 kg)	72754	$495.00
15,000 lb	(6804.0 kg)	72755	$695.00
20,000 lb	(9072.0 kg)	72756	$995.00
3/8-24 Nipple		31533*	$27.00
3/8-24 to 1/4-18 NPT		31534*	$27.00

** Parts #31533 and #31534 must be installed together to form the Conduit Adapter Kit.*

Conduit Adapter Kit (must be factory installed to maintain warranty)*

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RL20001 S-Beam

Alloy Steel NTEP Single Cell, IP67 1:5000 III/1:10,000 IIIL



Picture is a representation of actual product

SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	High-alloy steel, nickel plated
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Seal Type:	Environmentally sealed, IP67
Safe Overload:	150% Full scale
Rated Excitation:	10V AC/DC (15V max.)
Nonlinearity:	0.03% Full scale
Hysteresis:	0.02% Full scale
Insulation Resistance:	5000 megohms
Cable Length:	20'/6.1 m
Cable Diameter:	.200 polyurethane jacket
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A	B	C	D	E
lb/inches					
250	3/8-24 UNF-2B	.75	.50	2.00	3.00
500-2000	1/2-20 UNF-2B	1.00	.75	2.00	3.00
2500-3000	1/2-20 UNF-2B	1.25	1.00	2.00	3.00
5000	3/4-16 UNF-2B	1.25	1.00	3.00	4.25
10,000	3/4-16 UNF-2B	1.25	1.00	3.50	4.75
15,000	1-14 UNS-2B	1.50	1.25	4.00	5.50
20,000	1 1/4-12 UNF-2B	2.25	2.00	5.00	7.00
kg/mm					
113.4	3/8-24 UNF-2B	19.1	12.7	50.8	76.2
226.8-907.2	1/2-20 UNF-2B	25.4	19.1	50.8	76.2
1134.0-1360.8	1/2-20 UNF-2B	31.8	25.4	50.8	76.2
2268.0	3/4-16 UNF-2B	31.8	25.4	76.2	108.8
4535.9	3/4-16 UNF-2B	31.8	25.4	88.9	120.7
6803.9	1-14 UNS-2B	38.1	31.8	101.6	139.7
9071.9	1 1/4-12 UNF-2B	57.2	50.8	127.0	177.8

RL20001 Order Information

Load Rating		Part #	Price
250 lb	(113.4 kg)	21402	$275.00
500 lb	(226.8 kg)	21403	$275.00
750 lb	(340.2 kg)	21404	$275.00
1000 lb	(453.6 kg)	21405	$275.00
1500 lb	(680.4 kg)	21406	$275.00
2000 lb	(907.2 kg)	21407	$275.00
2500 lb	(1134.0 kg)	21408	$275.00
3000 lb	(1360.8 kg)	21409	$315.00
5000 lb	(2268.0 kg)	21410	$440.00
10,000 lb	(4535.9 kg)	21411	$440.00
15,000 lb	(6803.9 kg)	21412	$555.00
20,000 lb	(9071.9 kg)	21413	$875.00
Conduit Adapter Kit (must be factory installed to maintain warranty)*			
3/8-24 Nipple		31533*	$27.00
3/8-24 to 1/4-18 NPT		31534*	$27.00

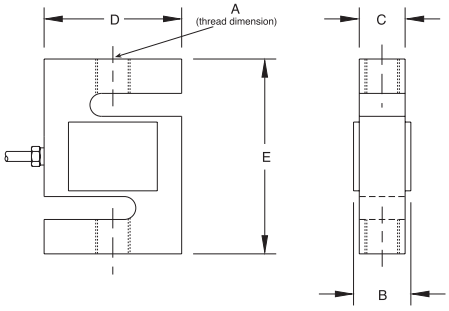
**Parts #31533 and #31534 must be installed together to form the Conduit Adapter Kit*

Interchangeable Products

Manufacturer	Model	Page Number
Vishay Celtron	STC	180
Vishay Sensortronics	60001	289

Weigh Module Available

	Model	Page Number
	ITCM Isolated Tension Cell Mount	350



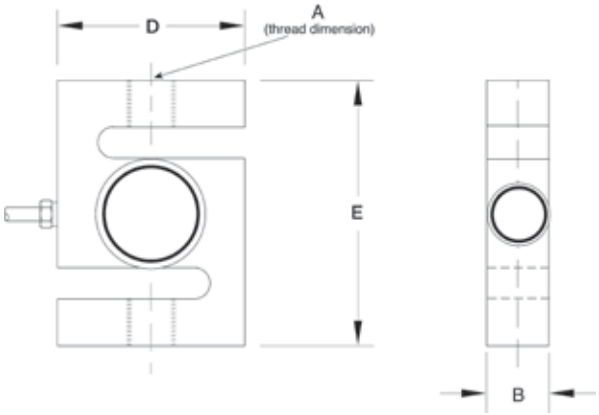
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RL20001 HE S-Beam

Stainless Steel, NTEP 1:5000 Class III/1:10000, Single Cell, Welded-seal, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Rated Excitation:	10V DC (15V maximum)
Nonlinearity:	0.03% Full scale
Hysteresis:	0.02% Full scale
Insulation Resistance:	5000 megohms
Seal Type:	Welded-seal, IP67
Cable Length:	20'/6.1 m
Cable Diameter:	.200 polyurethane jacket
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A	B	D	E
lb/inches				
500-3000	1/2-20 UNF	1.00	2.00	3.00
5000-10,000	3/4-16 UNF	1.00	3.50	4.75
kg/mm				
453.6-1360.8	1/2-20	25.4	50.8	76.2
2268.0-4535.9	3/4-16	25.4	88.9	120.7
6803.9	1-14	31.8	101.6	139.7
9071.9	1 1/4-12	76.2	127.0	177.8

RL20001 HE Order Information

Load Rating		Part #	Price
RL20001HE NTEP			
500 lb	(226.8 kg)	46469	$825.00
750 lb	(340.2 kg)	46470	$825.00
1000 lb	(453.6 kg)	46471	$825.00
1500 lb	(680.4 kg)	46472	$825.00
2000 lb	(907.2 kg)	46473	$825.00
2500 lb	(1134.0 kg)	46474	$825.00
3000 lb	(1360.8 kg)	46475	$825.00
5000 lb	(2268.0 kg)	46476	$1,095.00
RL20001HE NON-NTEP			
10,000 lb	(4535.9 kg)	36292	$1,095.00

Interchangeable Products

Manufacturer	Model	Page #
Vishay Sensortronics	60063	291

Weigh Module Available

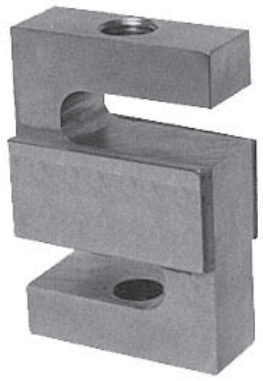
Model	Page #
ITCM Isolated Tension Cell Mount	350

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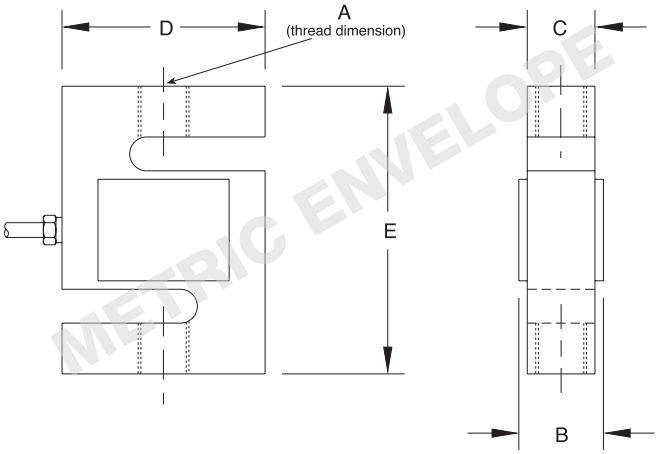
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RLETS S-Beam

Alloy Steel, Environmentally Sealed, OIML C3, IP67



Picture is a representation of actual product



METRIC ENVELOPE

SPECIFICATIONS:

Full Scale Output:	3.0 mV/V ±0.25%
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Alloy steel
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Seal Type:	Environmentally sealed, IP67
Safe Overload:	150% Full scale
Rated Excitation:	10V AC/DC (15V maximum)
Combined Error:	0.02% Full scale
Insulation Resistance:	5000 megohms
Cable Length:	6 m/19.7'
Cable Diameter:	.200 polyurethane jacket
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	FM APPROVED, OIML

DIMENSIONS

Rated Capacity	A	B	C	D	E
kg/mm					
250-1000	M12 x 1.75-6H	25.4	19.1	50.8	76.0
2500	M20 x 1.5-6H	31.8	25.4	76.2	108.0
lb/inches					
551.2-2205.0	M12 x 1.75-6H	1.00	.75	2.00	3.00
5512.5	M20 x 1.5-6H	1.25	1.00	3.00	4.25

RLETS Order Information

Load Rating		Part #	Price
250 kg	(551.2 lb)	31254	$295.00
500 kg	(1102.3 lb)	31255	$295.00
1000 kg	(2205.0 lb)	31256	$295.00
2500 kg	(5512.5 lb)	31257	$460.00

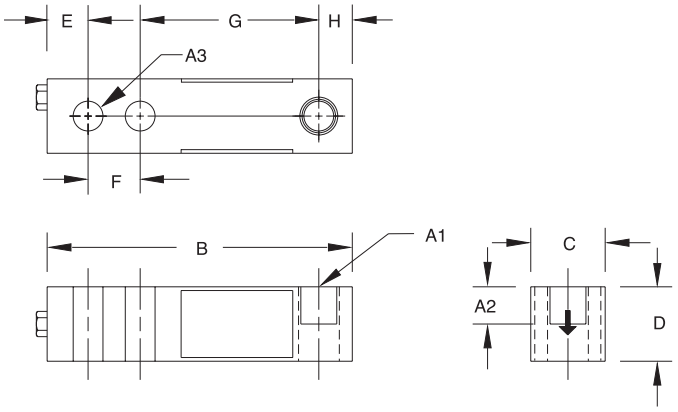
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RL30000 Single-Ended Beam

Alloy Steel, NTEP 1:5000 Class III Multiple Cell, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	High-alloy steel, nickel plated
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Seal Type:	Environmentally sealed, IP67
Safe Overload:	150% Full scale
Safe Sideload	100% Full scale
Rated Excitation:	10V DC (15V maximum)
Nonlinearity:	0.03% Full scale
Hysteresis:	0.02% Full scale
Insulation Resistance:	5000 megohms
Deflection at Capacity:	250-1000 lb = .013"/.33 mm, 2000-3000 lb = .015"/.38 mm, 4000-5000 lb = .025"/.64 mm, 10,000 lb = .032"/.81 mm, 15,000-20,000 lb = .038"/.97 mm
Cable Length:	20'/6.1 m
Cable Diameter:	.200 polyurethane jacket
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	Except 250 lb

DIMENSIONS

Rated Capacity	A1*	A2†	A3*	B	C	D	E	F	G	H
lb/inches										
250-5000 SE	1/2-20 UNF-2B	.60	.53	5.12	1.25	1.25	.62	1.00	3.00	.50
5000 LE-10,000	3/4-16 UNF-2B	.75	.78	6.75	1.50	1.50	.75	1.50	3.75	.75
15,000-20,000	1-12 UNF-2B	1.00	1.03	8.75	2.00	2.00	1.00	2.00	4.75	1.00
kg/mm										
113.4-2268 SE	1/2-20 UNF-2B	15.2	13.5	130.1	31.8	31.8	15.8	25.4	76.2	12.7
2268.0 LE-4535.9	3/4-16 UNF-2B	19.1	19.8	171.5	38.1	38.1	19.1	38.1	95.3	19.1
6803.9-9071.9	1-12 UNF-2B	25.4	26.2	222.3	50.8	50.8	25.4	50.8	120.7	25.4

** Dimension A1 is identical to A3 on the RL30002 Thru-Hole Model. † Dimension A2 applies to RL30000 Threaded-Hole Model ONLY*

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RL30000 Single-Ended Beam

Alloy Steel, NTEP 1:5000 Class III Multiple Cell, IP67



Picture is a representation of actual product

RL30000 (Threaded Hole) Order Information

Load Rating		Part Number	Price
RL30000 NTEP, Threaded-Hole Design			
1000 lb	(453.6 kg)	21491	$295.00
2000 lb	(907.2 kg)	21493	$295.00
2500 lb	(1134.0 kg)	21495	$295.00
3000 lb	(1360.8 kg)	21497	$295.00
4000 lb	(1814.4 kg)	21498	$295.00
5000 lb SE	(2268.0 kg)	21500	$295.00
5000 lb LE	(2268.0 kg)	21501	$375.00
10,000 lb	(4535.9 kg)	21503	$375.00
RL30000 Non-NTEP, Threaded-Hole Design			
**250 lb	(113.4 kg)	17341	$295.00
500 lb	(226.8 kg)	17342	$295.00
5,000 lb	(6803.9 kg)	28759	$645.00
20,000 lb	(9071.9 kg)	17109	$645.00
Conduit Adapter Kit (must be factory installed to maintain warranty)*			
3/8-24 Nipple		31533*	$27.00
3/8-24 to 1/4-18 NPT		31534	$27.00

** Parts #31533 and #31534 must be installed together to form the Conduit Adapter Kit.*

*** Not FM approved.*

SE refers to small envelope.

LE refers to large envelope.

RL30002 (Thru Hole) Order Information

Load Rating	Part #	Price
RL30002 NTEP, Thru-Hole Design		
1000 lb (453.6 kg)	21521	$295.00
2000 lb (907.2 kg)	21522	$295.00
2500 lb (1134.0 kg)	21523	$295.00
4000 lb (1814.4 kg)	21524	$295.00
5000 lb SE (2268.0 kg)	21525	$295.00
Conduit Adapter Kit (must be factory installed to maintain warranty)*		
3/8-24 Nipple	31533*	$27.00
3/8-24 to 1/4-18 NPT	31534*	$27.00

Interchangeable Products

Manufacturer	Model	Page #
Threaded-Hole Design		
Vishay Revere Transducers	5123	258
Vishay Tedea-Huntleigh	3411	320
Artech	30310	

Weigh Module Available

	Model	Page #
Rice Lake	RL50210 TA	32
Rice Lake	RL1800 Series	42

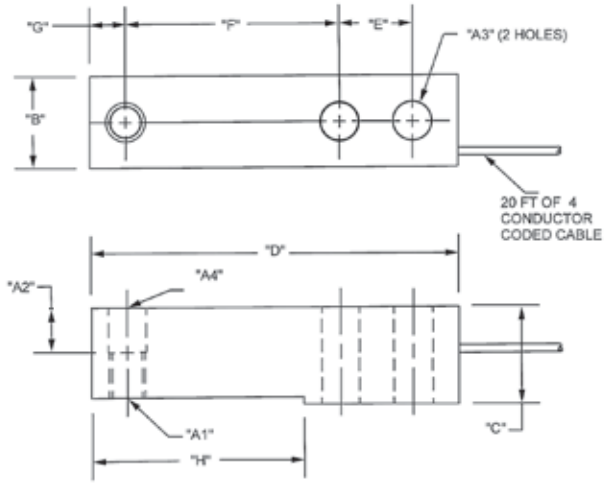
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RLH35 Single-Ended Beam

Stainless Steel, NTEP 1:5000 Class III Multiple Cell, Welded-seal, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Stainless Steel
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Rated Excitation:	10V DC (15V maximum)
Nonlinearity:	0.03% Full scale
Hysteresis:	0.03% Full scale
Insulation Resistance:	5000 megohms
Seal Type:	Welded-seal, IP67
Cable Length:	20'/6.1 m / 30'/9.1 m
Cable Diameter:	.190 polyurethane Jacket
Cable Color Code:	Green ..... + Excitation Black..... – Excitation White..... + Signal Red..... – Signal Yellow..... Shield
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A1	A2	A3	A4	B	C	D	E	F	G	H	I
lb/inches												
500-5000	1/2-20 UNF-2B	.62	.53	.53	1.21	1.19	5.12	1.00	3.00	.50	2.85	1.120
kg/mm												
453.6-2268	1/2-20 UNF-2B	15.8	13.5	13.5	30.7	30.2	130.05	25.4	76.2	12.7	72.4	28.4

RLH35 Order Information

20ft Load Cable

Load Rating		Part #	Price
500 lb	(226.8)	106038	$385.00
1,000 lb	(453.6 kg)	106039	$385.00
2,500 lb	(1134.0 kg)	106040	$385.00
4,000 lb	(1814.4 kg)	106041	$385.00
5,000 lb	(2268.0 kg)	106042	$385.00

30ft Load Cable

Load Rating		Part #	Price
500 lb	(226.8)	106044	$395.00
1,000 lb	(453.6 kg)	106045	$395.00
2,500 lb	(1134.0 kg)	106046	$395.00
4,000 lb	(1814.4 kg)	106047	$395.00
5,000 lb	(2268.0 kg)	106048	$395.00

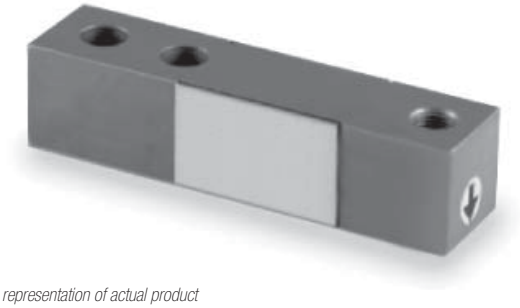
Interchangeable products

Manufacturer	Part #
Mettler Toledo	
500 lb-8 ft cable	TB601019-008
1,000 lb-20 ft cable	TB601016-020
2,500 lb-8 ft cable	TB601016-008
4,000 lb-20 ft cable	TB601017-020
5,000 lb-8 ft cable	TB601018-008

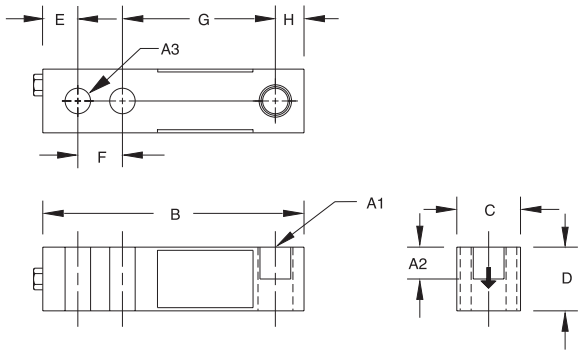
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RL39123 Single-Ended Beam

Stainless Steel



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 0°F to 150°F/-18°C to 65°C
Seal Type:	Environmentally sealed
Safe Overload:	150% Full scale
Safe Sideload	100% Full scale
Rated Excitation:	10V DC (15V maximum)
Nonlinearity:	0.03% Full scale
Hysteresis:	0.02% Full scale
Insulation Resistance:	5000 megohms
Deflection at Capacity:	250-1000 lb = .013"/.33 mm, 2000-3000 lb = .015"/.38 mm, 4000-5000 lb = .025"/.64 mm, 10,000 lb = .32"/.81 mm, 15,000-20,000 lb = .038"/.97 mm
Cable Length:	20'/6.1 m
Cable Diameter:	.200 polyurethane jacket
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	FM APPROVED

DIMENSIONS

Rated Capacity	A1	A2	A3	B	C	D	E	F	G	H
lb/inches										
250-4000	1/2-20 UNF-2B	.60	.53	5.12	1.25	1.25	.62	1.00	3.00	.50
5000-10,000	3/4-16 UNF-2B	.75	.78	6.75	1.50	1.50	.75	1.50	3.75	.75
kg/mm										
113.4-1814.4	1/2-20 UNF-2B	15.2	13.5	130.1	31.8	31.8	15.8	25.4	76.2	12.7
2268.0-4535.9	3/4-16 UNF-2B	19.1	19.8	171.5	38.1	38.1	19.1	38.1	95.3	19.1
6803.9	1-12 UNF-2B	25.4	26.2	222.3	50.8	50.8	25.4	50.8	120.7	25.4

RL39123 Order Information

Load Rating		Part #	Price
250 lb	(113.4 kg)	17386	$350.00
500 lb	(226.8 kg)	17387	$350.00
1,000 lb	(453.6 kg)	17189	$350.00
2,500 lb	(1134.0 kg)	17191	$350.00
4,000 lb	(1814.4 kg)	17193	$350.00
5,000 lb	(2268.0 kg)	17194	$420.00
10,000 lb	(4535.9 kg)	17195	$420.00
Conduit Adapter Kit (must be factory installed to maintain warranty)*			
3/8-24 Nipple		31533*	$27.00
3/8-24 to 1/4-18 NPT		31534*	$27.00

** Parts #31533 and #31534 must be installed together to form the Conduit Adapter Kit*

Interchangeable Products

Manufacturer	Model	Page #
Vishay Revere Transducers	9123	259
Artech	SS30310	
HBM	B35	227

Weigh Module Available

	Model	Page #
Rice Lake	RL50210 TA	32
Rice Lake	RL1800 Series	42

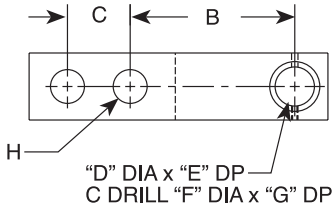
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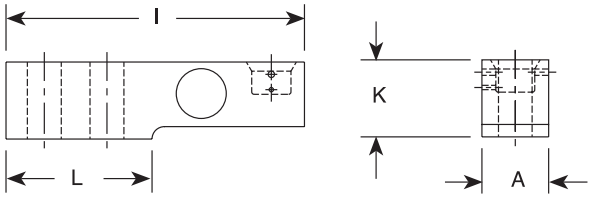
RL30745 Single-Ended Beam

Stainless Steel, Welded-seal, IP67 NTEP 1:5000 Class III Multiple



500 lb model
Picture is a representation of actual product





SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 0°F to 150°F/-18°C to 65°C
Safe Overload:	150% Full scale
Safe Sideload:	100% Full scale
Rated Excitation:	10V DC (15V maximum)
Combined Error:	0.03%
Non-repeatability:	0.01% Full scale
Insulation Resistance:	5000 megohms
Seal Type:	Welded-seal, IP67
Cable Length:	30'/9.1 m/15"
Cable Diameter:	.190 polyurethane Jacket
Cable Color Code:	Green ..... + Excitation Black..... - Excitation White..... + Signal Red..... - Signal Yellow..... Shield
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	H	I	k	l
lb/inches											
500-4,000	1.20	3.00	1.00	.60	.25	.507	.189	.500	5.25	1.22	2.27
5,000	1.46	3.00	1.00	.63	N/A	.539	.38	.500	5.38	1.40	2.28
10,000	1.68	3.75	1.50	.88	N/A	.533	.44	.750	6.87	1.68	3.34
kg/mm											
226.8-1814.2	30.5	76.2	25.4	16.0	17.5	22.4	4.8	12.7	133.3	30.9	57.6
2268	37.1	76.2	25.4	16.0	23.4	22.4	9.7	12.7	136.7	35.5	57.9
4536	42.7	95.3	38.1	22.4	29.7	35.1	11.8	19.1	174.5	42.6	84.8

RL30745 Order Information

Load Rating		Part #	Price
30 ft cables			
500 lb	(226.8 kg)	76213	$450.00
1,250 lb	(567.0 kg)	47946	$450.00
2,500 lb	(1,134 kg)	45463	$450.00
5,000 lb	(2,268 kg)	45465	$575.00
10,000 lb	(4,536 kg)	45466	$695.00
15 ft cables			
500 lb	(226.8 kg)	101091	$410.00
1,250 lb	(567.0 kg)	101092	$410.00
2,500 lb	(1,134 kg)	101093	$410.00
5,000 lb	(2,268 kg)	101094	$535.00
10,000 lb	(4,536 kg)	101095	$660.00
Rocker Pin	500-2.5K	108612	$45.00
O-ring		108202	$1.00

Interchangeable Products

Manufacturer	Model	Page #
Mettler-Toledo®	TB600529-500 lb	
Mettler-Toledo	TB600363-1250 lb	
Mettler-Toledo	TB600342-2500 lb	
Mettler-Toledo	TB600343-5000 lb	
Mettler-Toledo	TB600364-10000 lb	
HBM	THC	228

RICE LAKE WEIGHING SYSTEMS

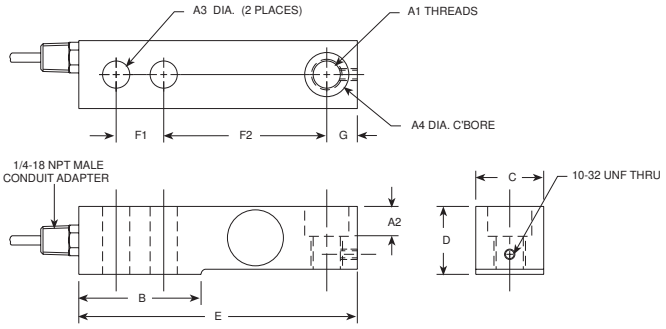
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RLBLC Single-Ended Beam

Stainless Steel, With Counter Bore



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V nominal
Bridge Resistance:	1000 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 15°F to 115°F/-9°C to 46°C
Seal Type:	Environmentally sealed
Safe Overload:	150% Full scale
Safe Sideload:	100% Full scale
Rated Excitation:	10V DC (15V maximum)
Nonlinearity:	0.03% Full scale
Hysteresis:	0.05% Full scale
Insulation Resistance:	5000 megohms
Deflection at Capacity:	1000-4000 lb = .010"/.25 mm, 5000-10,000 lb = .012"/.30 mm
Cable Length:	1000-4000 lb = 10'/3.1 m 5000-10,000 lb = 20'/6.1 m
Cable Diameter:	.190 polyurethane Jacket
Cable Color Code:	Green ..... + Excitation Black..... – Excitation White..... + Signal Red..... – Signal
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A1	A2	A3	A4	B	C	D	E	F1	F2	G
lb/inches											
1000-4000	1/2-20 UNF-2B	.56	.53	.81	2.25	1.21	1.19	5.25	1.00	3.00	.60
5000	3/4-16 UNF-2B	.79	.78	1.19	3.00	1.45	1.44	6.75	1.50	3.75	.75
10,000	3/4-16 UNF-2B	.79	.78	1.19	3.00	1.69	1.69	6.75	1.50	3.75	.75
kg/mm											
453.6-1814.4	1/2-20 UNF-2B	14.2	13.5	20.6	57.2	30.2	30.2	130.1	25.4	76.2	12.7
2268.0	3/4-16 UNF-2B	17.0	19.8	30.2	76.2	36.6	36.6	171.5	38.1	95.3	19.1
4535.9	3/4-16 UNF-2B	20.1	19.8	30.2	76.2	36.6	49.3	171.5	38.1	95.3	19.1

RLBLC Order Information

Load Rating		Part #	Price
1,000 lb	(453.6 kg)	17091	$325.00
2,500 lb	(1134.0 kg)	17096	$325.00
4,000 lb	(1814.4 kg)	17101	$325.00
5,000 lb	(2268.0 kg)	17104	$425.00
10,000 lb	(4535.9 kg)	17108	$495.00

Interchangeable Products

Manufacturer	Model	Page #
HBM	BLC	230

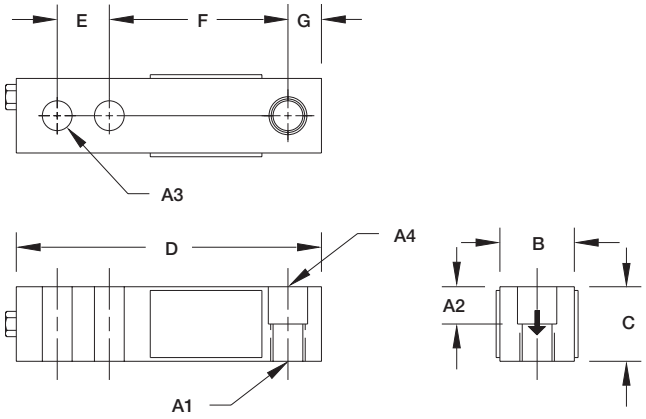
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RL35023 Single-Ended Beam

Alloy Steel, NTEP 1:5000 Class III Multiple Cell, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	High-alloy steel, nickel plated
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Safe Sideload:	100% Full scale
Rated Excitation:	10V DC (15V maximum)
Nonlinearity:	0.03% Full scale
Hysteresis:	0.02% Full scale
Insulation Resistance:	5000 megohms
Deflection at Capacity:	500-1000 lb = .013"/.3 mm, 2000-3000 lb = .015"/.4 mm, 4000-5000 lb = .025"/.6 mm, 10,000 lb = .035"/.9 mm
Seal Type:	Environmentally sealed, IP67
Cable Length:	20'/6.1 m
Cable Diameter:	.200 polyurethane jacket
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A1	A2	A3	A4	B	C	D	E	F	G
lb/inches										
500	1/2-20 UNF-2B	.50	.53	.53	1.25	1.00	5.12	1.00	3.00	.50
1000-5000 SE	1/2-20 UNF-2B	.62	.53	.53	1.25	1.25	5.12	1.00	3.00	.50
5000 LE-10,000	3/4-16 UNF-2B	.75	.78	.78	1.50	1.50	6.75	1.50	3.75	.78
15,000-20,000	1-14 UNS-2B	1.00	1.03	1.03	2.00	2.00	8.88	2.00	4.88	1.03
kg/mm										
226.8	1/2-20 UNF-2B	12.7	13.5	13.5	31.8	25.4	130.1	25.4	76.2	12.7
453.6-2268.0 SE	1/2-20 UNF-2B	15.8	13.5	13.5	31.8	31.8	130.1	25.4	76.2	12.7
2268.0 LE-4535.9	3/4-16 UNF-2B	19.1	19.8	19.8	38.1	38.1	171.5	38.1	95.3	20.7
6803.9-9071.9	1-14 UNS-2B	25.4	26.2	26.2	50.8	50.8	225.6	50.8	124.0	25.0

RL35023 Order Information

Load Rating		Part #	Price
1,000 lb	(453.6 kg)	21528	$295.00
2,000 lb	(907.2 kg)	21529	$295.00
2,500 lb	(1134.0 kg)	21530	$295.00
3,000 lb	(1360.8 kg)	21531	$295.00
4,000 lb	(1814.4 kg)	21532	$295.00
5,000 lb SE	(2268.0 kg)	21535	$295.00
5,000 lb LE	(2268.0 kg)	21533	$375.00
10,000 lb	(4535.9 kg)	21534	$375.00
Non-NTEP			
500 lb	(226.8 kg)	17181	$290.00
15,000 lb	(6803.9 kg)	17186	$645.00
20,000 lb	(9071.9 kg)	17187	$645.00
Conduit Adapter Kit (must be factory installed to maintain warranty)*			
3/8-24 Nipple		31533*	$27.00
3/8-24 to 1/4-18 NPT		31534*	$27.00

Interchangeable Products

Manufacturer	Model	Page #
Vishay Celtron	SQB	183
Vishay Sensortronics	65023	395
Artech	30310	

Weigh Module Available

Model	Page #
RL50210 TA	32
RL1800 Series	42

SE refers to small envelope

LE refers to large envelope

** Parts #31533 and #31534 must be installed together to form the Conduit Adapter Kit*

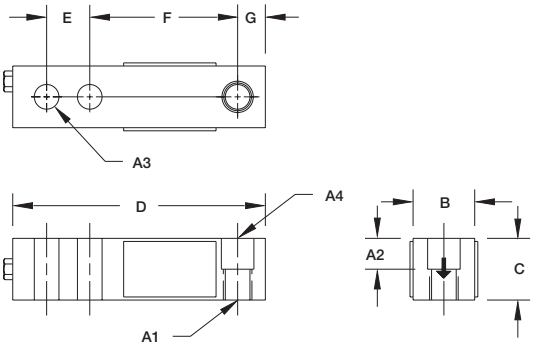
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RL35023S Single-Ended Beam

Stainless Steel, NTEP 1:5000 Class III Multiple Cell, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Safe Sideload:	100% Full scale
Rated Excitation:	10V DC (15V maximum)
Nonlinearity:	0.03% Full scale
Hysteresis:	0.02% Full scale
Insulation Resistance:	5000 megohms
Deflection at Capacity:	1000 lb = .013"/.33 mm, 2000-2500 lb = .015"/.38 mm, 4000-5000 lb = .025"/.64 mm, 10,000 lb = .32"/.81 mm,
Seal Type:	Environmentally sealed, IP67
Cable Length:	20'/6.1 m
Cable Diameter:	.200 polyurethane jacket
Cable Coloring:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A1	A2	A3	A4	B	C	D	E	F	G
lb/inches										
1000-4000	1/2-20 UNF-2B	.62	.53	.53 DIA.	1.25	1.25	5.12	1.00	3.00	.50
5000-10,000	3/4-16 UNF-2B	.75	.78	.78 DIA.	1.50	1.50	6.75	1.50	3.75	.75
kg/mm										
453.6-1814.4	1/2-20 UNF-2B	15.8	13.5	13.5 DIA.	31.8	31.8	130.1	25.4	76.2	12.7
2268.0-4535.9	3/4-16 UNF-2B	19.1	19.8	19.8 DIA.	38.1	38.1	171.5	38.1	95.3	19.1

RL35023S Order Information

Load Rating		Part #	Price
1000 lb	(453.6 kg)	30649	$365.00
2000 lb	(907.2 kg)	30650	$365.00
2500 lb	(1134.0 kg)	30651	$365.00
4000 lb	(1814.4 kg)	30652	$365.00
5000 lb	(2268.0 kg)	30653	$430.00
10,000 lb	(4535.9 kg)	30654	$430.00
Conduit Adapter Kit (must be factory installed to maintain warranty)*			
3/8-24 Nipple		31533*	$27.00
3/8-24 to 1/4-18 NPT		31534*	$27.00

** Parts #31533 and #31534 must be installed together to form the Conduit Adapter Kit*

Interchangeable Products

Manufacturer	Model	Page #
Vishay Sensortronics	65023 S	297
Vishay Sensortronics	65023 SS	296

Weigh Module Available

Model	Page #
RL50210 TA	32
RL1800 Series	42

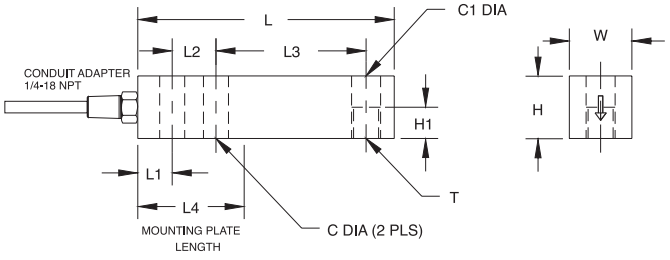
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RL35083 Single-Ended Beam

Stainless Steel, Welded-seal, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 0°F to 150°F/-18°C to 65°C
Safe Overload:	150% Full scale
Safe Sideload:	100% Full scale
Rated Excitation:	10V DC (15V maximum)
Combined Error:	0.03% Full scale
Non-Repeatability:	0.01% Full scale
Insulation Resistance:	5000 megohms
Deflection at Capacity:	1000 lb = .013"/.33 mm, 2500 lb = .015"/.38 mm, 4000-5000 lb = .025"/.64 mm, 10,000 lb = .032"/.81 mm
Seal Type:	Welded-seal strain gauge*, IP67
Cable Length:	20'/6.1 m
Cable Diameter:	.220 Teflon coated cable
Conduit Adapter Size:	1/4-18 NPT
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	FM APPROVED

DIMENSIONS

Rated Capacity	C	C1	H	H1	L	L1	L2	L3	L4	T	W
lb/inches											
1000-4000	.53	.53	1.22	.61	5.12	.62	1.00	3.00	2.25	1/2-20 UNF-2B	1.22
5000-10,000	.78	.78	1.50	.75	6.75	.75	1.50	3.75	3.00	3/4-16 UNF-2B	1.50
kg/mm											
453.6-1814.4	13.5	13.5	31.0	15.5	130.0	15.7	25.4	76.2	57.2	1/2-20 UNF-2B	31.0
2268.0-4535.9	19.8	19.8	38.1	19.1	171.5	19.1	38.1	95.3	76.2	3/4-16 UNF-2B	38.1

RL35083 Order Information

Load Rating		Part #	Price
1000 lb	(453.6 kg)	17252	$405.00
2500 lb	(1134.0 kg)	17253	$405.00
4000 lb	(1814.4 kg)	17254	$405.00
5000 lb	(2268.0 kg)	17255	$455.00
10,000 lb	(4535.9 kg)	17256	$455.00

** Conduit is recommended for maximum protection against the ingress of water and moisture through the cable entry*

Interchangeable Products

Manufacturer	Model	Page #
Vishay Sensortronics	65083	298
Vishay Celtron	SQB-HSS	184

Weigh Module Available

Model	Page #
RL50210 TA	32
RL1800 Series	42

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RL35082 Single-Ended Beam

Stainless Steel, NTEP 1:5000 Class III Multiple Cell, Welded-seal, IP67, IP66/68**

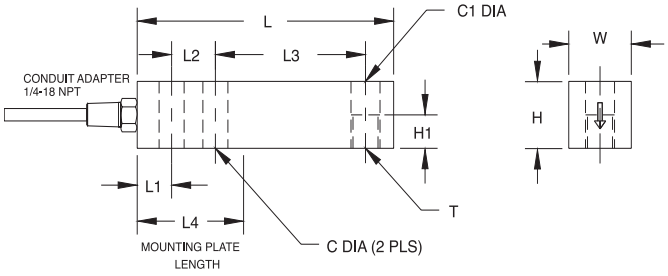


IP67 model



IP66/68 model

Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Safe Sideload:	100% Full scale
Rated Excitation:	10V DC (15V maximum)
Combined Error:	0.02% Full scale
Non-Repeatability:	0.01% Full scale
Insulation Resistance:	5000 megohms
Deflection at Capacity:	1000 lb = .013"/.33 mm, 2500 lb = .015"/.38 mm, 4000-5000 lb = .025"/.64 mm, 10,000 lb = .032"/.81 mm
Seal Type:	Welded-seal strain gauge*, IP67
Cable Length:	20'/6.1 m
Cable Diameter:	.220 Teflon coated cable
Conduit Adapter Size:	1/4-18 NPT**
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	C	C1	H	H1	L	L1	L2	L3	L4	T	W
lb/inches											
1000-4000	.53	.53	1.22	.61	5.12	.62	1.00	3.00	2.25	1/2-20 UNF-2B	1.22
5000-10,000	.78	.78	1.50	.75	6.75	.75	1.50	3.75	3.00	3/4-16 UNF-2B	1.50
kg/mm											
453.6-1814.4	13.5	13.5	31.0	15.5	130.0	15.7	25.4	76.2	57.2	1/2-20 UNF-2B	31.0
2268.0-4535.9	19.8	19.8	38.1	19.1	171.5	19.1	38.1	95.3	76.2	3/4-16 UNF-2B	38.1

RL35082 Order Information

Load Rating		Part #	Price
IP67 RL35082 N5 Model			
1000 lb	(453.6 kg)	31283	$425.00
2500 lb	(1134.0 kg)	31282	$425.00
4000 lb	(1814.4 kg)	31281	$425.00
5000 lb	(2268.0 kg)	31280	$475.00
10,000 lb	(4535.9 kg)	31279	$475.00
IP66/68 RL35082 HE Model**			
1000 lb	(453.6 kg)	34702	$505.00
2500 lb	(1134.0 kg)	34703	$505.00
4000 lb	(1814.4 kg)	34704	$505.00
5000 lb	(2268.0 kg)	34705	$555.00
10,000 lb	(4535.9 kg)	34706	$555.00

** Conduit is recommended for maximum protection against the ingress of water and moisture through the cable entry*

*** IP66/68 Hermetically sealed versions have 1/2-14 NPT conduit adapter*

Interchangeable Products

Manufacturer	Model	Page #
Vishay Sensortronics	65083 S	299

Weigh Module Available

Model	Page #
RL50210 TA	32
RL1800 Series	42

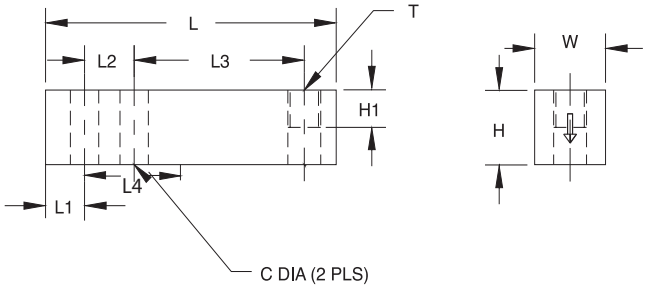
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RL39523 Single-Ended Beam

Stainless Steel, Welded-seal, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 0°F to 150°F/-18°C to 65°C
Seal Type:	Welded-seal strain gauge**, IP67
Safe Overload:	150% Full scale
Rated Excitation:	10V DC (15V maximum)
Non-repeatability:	0.01% Full scale
Combined Error:	0.03% Full scale
Insulation Resistance:	5000 megohms
Deflection at Capacity:	1000 lb = .016"/.4 mm, 2500 lb = .41"/1.0 mm, 4000 lb = .041"/1.0 mm, 5000 lb = .035"/.9 mm, 10,000 lb = .042"/1.1 mm
Cable Length:	20'/6.1 m
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	FM APPROVED

DISCONTINUED

DIMENSIONS

Rated Capacity	C	C1	H	H1	L	L1	L2	L3	T	W
lb/inches										
1000-4000	.53	.53	1.25	.62	6.12	1.62	1.00	3.00	1/2-20 UNF	1.25
5000-10,000	.78	.78	1.50	.74	7.71	1.71	1.50	3.75	3/4-16 UNF	1.50
kg/mm										
453.6-1814.4	13.5	13.5	31.8	15.8	155.5	41.2	25.4	76.2	1/2-20 UNF	31.8
2268.0-4535.9	19.8	19.8	38.1	18.8	195.8	43.4	38.1	95.3	3/4-16 UNF	38.1

RL39523 Order Information

Load Rating		Part #	Price
1000 lb	(453.6 kg)	17241	$525.00
2500 lb	(1134.0 kg)	17242	$525.00
4000 lb	(1814.4 kg)	17243	$525.00
5000 lb	(2268.0 kg)	17244	$595.00
10,000 lb	(4535.9 kg)	17245	$600.00
*Conduit Adapter Kit** (must be factory installed to maintain warranty)*			
3/8-24 Nipple		31533*	$27.00
3/8-24 to 1/4-18 NPT		31534*	$27.00

** Parts #31533 and #31534 must be installed together to form the Conduit Adapter Kit*

*** Conduit is recommended for maximum protection against the ingress of water and moisture through the cable entry*

Interchangeable Products

Manufacturer	Model	Page #
Vishay Revere Transducers	5223	268

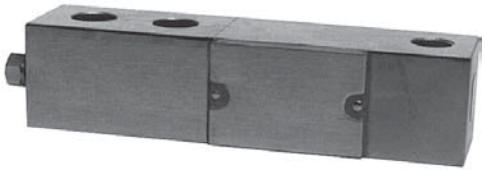
(has counterbored load hole)

RICE LAKE WEIGHING SYSTEMS

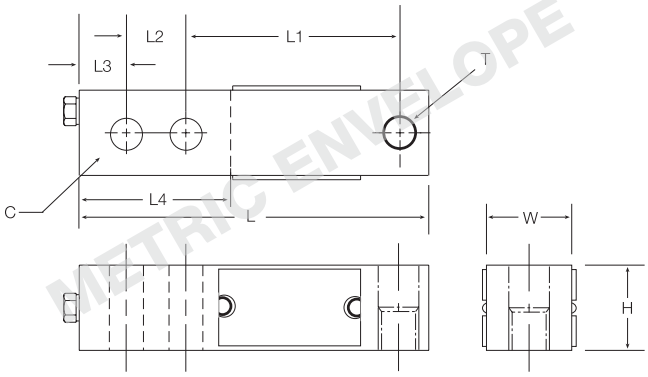
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RLETB Single-Ended Beam

Alloy Steel, OIML C3, IP67



Picture is a representation of actual product



METRIC ENVELOPE

SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Alloy steel
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Safe Sideload:	100% Full scale
Rated Excitation:	10V DC (15V maximum)
Combined Error:	0.03% Full scale
Insulation Resistance:	5000 megohms
Seal Type:	Environmentally sealed, IP67
Cable Length:	6 m/19.7'
Cable Diameter:	.200 polyurethane jacket
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	FM APPROVED, OIML

DIMENSIONS

Rated Capacity	C	H	L	L1	L2	L3	L4	W	T
kg/mm									
500-2000	57.0	32.0	130.0	76.0	25.0	16.0	13.0	32.0	M12 x 1.75-6H
5000	76.0	38.0	171.0	95.0	38.0	19.0	20.7	38.0	M20 x 1.5-6H
lb/inches									
1102.3-4409.2	2.25	1.25	5.12	3.00	.98	.63	.51	1.25	M12 x 1.75-6H
11,023.1	3.00	1.50	6.73	3.74	1.50	.75	.81	3.75	M20 x 1.5-6H

RLETB Order Information

Load Rating		Part #	Price
500 kg	(1102.5 lb)	31249	$325.00
1000 kg	(2205.0 lb)	31248	$325.00
2000 kg	(4410.0 lb)	31247	$325.00
5000 kg	(11,025.0 lb)	31246	$405.00

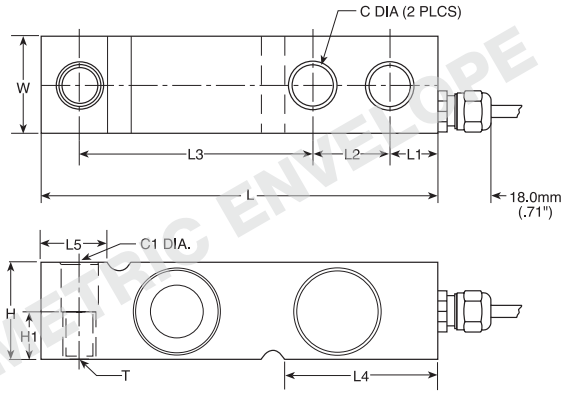
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RLHTO Single-Ended Beam

Stainless Steel, Hermetically sealed, IP66/68, OIML C3



Picture is a representation of actual product



METRIC ENVELOPE

SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Sate Sideload:	100% Full
Rated Excitation:	10V DC (15V maximum)
Total Error:	0.02% Applied Load
Insulation Resistance:	1000 megohms
Deflection at Capacity:	500-5000 kg = .4 mm/.015"
Seal Type:	Hermetically sealed, IP66/68
Cable Length:	5 m/16.4'
Cable Diameter:	.220 polyurethane jacket
Cable Color Code:	Blue..... + Excitation Black..... – Excitation Green ..... + Sense Grey..... – Sense White..... + Signal Red..... – Signal
Warranty:	Two-year limited warranty
Approvals:	OIML, WATER PROOF

DIMENSIONS

Rated Capacity	C	C1	H	H1	L	L1	L2	L3	L4	L5	T	W
kg/mm												
500-2000	13.5	13.5	32.0	16.0	130.0	15.8	25.4	76.2	50.5	23.5	M12 x 1.75 Third.	32.0
5000	20.5	20.5	48.0	—	171.5	19.0	38.1	95.3	70.0	37.0	—	36.5
lb/inches												
1102.3-4409.2	.53	.53	1.26	.63	5.12	.62	1.00	3.00	1.99	.93	M12 X 1.75 Third.	1.26
11,023.1	.80	.80	1.89	—	6.75	.75	1.50	3.75	2.76	1.46	—	1.44

RLHTO Order Information

Load Rating		Part #	Price
C3 500 kg	(1102.5 lb)	31253	$485.00
C3 1000 kg	(2205.0 lb)	31250	$485.00
C3 2000 kg	(4410.0 lb)	31251	$485.00
C3 5000 kg	(11,025.0 lb)	31252	$555.00

Interchangeable Products

Manufacturer	Model	Page #
Vishay Tedea-Huntleigh	3510-kg	322

Weigh Module Available

Model	Page #
1700HE	14

RICE LAKE WEIGHING SYSTEMS

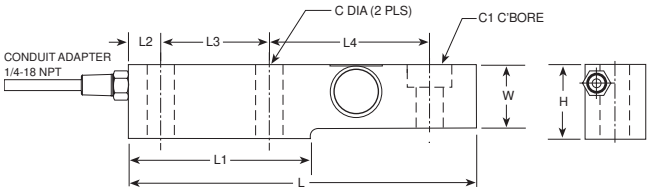
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RLSSB Single-Ended Beam

Stainless Steel, Welded-seal, NTEP 1:5000 Class III Multiple Cell, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Safe Sideload:	100% Full scale
Rated Excitation:	10V DC (15V maximum)
Combined Error:	0.02%
Non-repeatability:	0.01% Full scale
Insulation Resistance:	5000 megohms
Seal Type:	Welded-seal, IP67
Cable Length:	15'/4.5 m
Cable Diameter:	.200 polyurethane jacket
Cable Color Code:	Green ..... + Excitation Black..... – Excitation White..... + Signal Red..... – Signal
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	C	C1	H	L	L1	L2	L3	L4	W
lb/inches									
1000-5000	.53	.68 THRU C'BORE 1.19x.47DP	1.88	8.00	4.00	.75	2.50	3.88	1.44
10,000	.88	1.00 THRU C'BORE 1.63x.62DP	2.75	9.25	4.62	.81	2.63	4.88	1.88
kg/mm									
453.6-2268.0	13.5	.68 THRU C'BORE 1.19x.47DP	47.8	203.2	101.6	19.1	63.5	98.6	36.6
4535.9	22.4	1.00 THRU C'BORE 1.63x.62DP	69.9	235.0	117.3	20.6	66.8	124.0	47.8

RLSSB Order Information

Load Rating		Part #	Price
1000 lb	(453.6 kg)	34310	$600.00
2000 lb	(907.2 kg)	34311	$600.00
5000 lb	(2268.0 kg)	34312	$600.00
10,000 lb	(4535.9 kg)	34313	$715.00
Load cell button		26112	$25.00

Interchangeable Products

Manufacturer	Model	Page #
HBM	SB3	233
Vishay Revere Transducers	SSB	265
Artech	SS30610	

Weigh Module Available

Model	Page #
Mount Kit RL1900	44

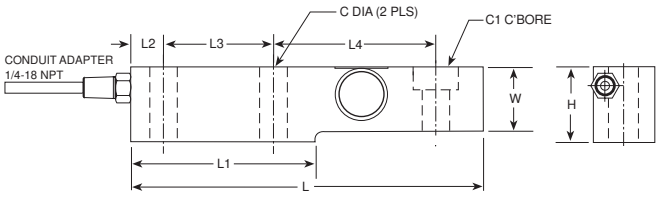
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RLSB250 Single-Ended Beam

Stainless Steel, Welded-seal, NTEP 1:5000 Class III Multiple Cell, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Safe Sideload:	100% Full scale
Rated Excitation:	10V DC (15V maximum)
Combined Error:	0.02%
Non-repeatability:	0.01% Full scale
Insulation Resistance:	5000 megohms
Seal Type:	Welded-seal, IP67
Cable Length:	20'/6.2 m
Cable Diameter:	.200 polyurethane jacket
Cable Color Code:	Green ..... + Excitation Black..... – Excitation White..... + Signal Red..... – Signal
Warranty:	Two-year limited warranty
Approvals;	

DIMENSIONS

Rated Capacity	C	C1	H	L	L1	L2	L3	L4	W
lb/inches									
2500	.53	.68 THRU C'BORE 1.19x.47DP	1.88	8.00	4.00	.75	2.50	3.88	1.44
kg/mm									
1134.0	13.5	.68 THRU C'BORE 1.19x.47DP	47.8	203.2	101.6	19.1	63.5	98.6	36.6

RLSB250 Order Information

Load Rating		Part #	Price
2500 lb	(1134.0 kg)	34482	$600.00

Interchangeable Products

Manufacturer	Model	Page #
Cardinal®	SB2500*	

**Thru hole design*

Weigh Module Available

Model	Page #
Mount Kit RL1900	44

Load Cells

RICE LAKE WEIGHING SYSTEMS

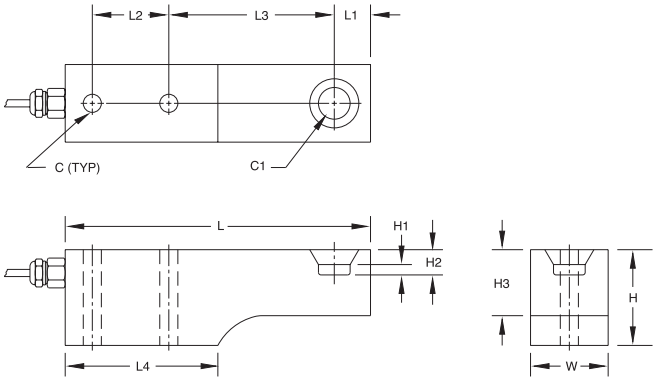
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RLSB2 Single-Ended Beam

Alloy Steel, With Blind Load Hole, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2.0 mV/V ± .07%* (matched)
Bridge Resistance:	350 ohms, nominal
Material/Finish:	High-alloy steel, epoxy coated
Temperature:	Compensated range 15°F to 115°F/-9°C to 46°C
Safe Overload:	150% Full scale
Safe Sideload:	100 Full scale
Rated Excitation:	10V DC (15V maximum)
Nonlinearity:	0.03% Full scale
Hysteresis:	0.02% Full scale
Insulation Resistance:	10000 megohms
Seal Type:	35,000 & 45,000 lb/15,875.7 & 20,411.7 kg, Hermetically sealed, IP67 All others, Environmentally sealed
Cable Length:	1000-5000 lb=10'/3.1 m, 10,000 lb=15'/4.6 m, 35,000-45,000 lb=30'/9.2 m
Cable Diameter:	.200 polyurethane jacket
Cable Color Code:	Green ..... + Excitation Black ..... – Excitation White ..... + Signal Red ..... – Signal
Warranty:	Two-year limited warranty

DIMENSIONS

Rated Capacity	C	C1	H	H1	H2	H3	L	L1	L2	L3	L4	W
lb/inches												
1000-5000	.53	.87	1.87	.25	.47	1.43	8.00	.87	2.50	3.87	4.00	1.43
10,000	.87	1.00	2.75	.25	.62	1.85	9.25	.87	2.62	4.87	4.62	1.87
35,000	1.31	1.50	3.75	.46	.91	2.68	12.50	1.50	3.50	6.25	6.25	2.75
45,000	1.31	1.50	3.75	.46	.87	2.68	12.50	1.50	3.50	6.25	6.25	2.75
kg/mm												
453.6-2268.0	13.5	22.1	47.5	6.4	11.9	36.3	203.2	22.1	63.5	98.3	101.6	36.3
4535.9	22.1	25.4	69.9	6.4	15.8	47.0	235.0	22.1	66.6	123.7	117.4	47.5
15,875.7	33.3	38.1	95.3	11.7	23.1	68.1	317.5	38.1	88.9	158.8	158.8	69.9
20,411.7	33.3	38.1	95.3	11.7	22.1	68.1	317.5	38.1	88.9	158.8	158.8	69.9

RLSB2 Order Information

Load Rating		Part #	Price
1000 lb	(453.6 kg)	N/A	N/A
2000 lb	(907.2 kg)	N/A	N/A
5000 lb	(2268.0 kg)	17213	$1,445.00
10,000 lb	(4535.9 kg)	N/A	N/A
35,000 lb	(15,875.7 kg)	17216	$1,595.00
45,000 lb	(20,411.7 kg)	17217	$1,595.00

Interchangeable Products

Manufacturer	Model	Capacity
Masstron®	ML1310	1000 lb (453.6 kg)
Masstron	ML1320	2000 lb (907.2 kg)
Masstron	ML1350	5000 lb (2268.0 kg)
Masstron	ML1410	10,000 lb (4535.9 kg)
Masstron	ML1435	35,000 lb (15,875.7 kg)
Masstron	ML1437**	35,000 lb (15,875.7 kg)
Masstron	ML1445	45,000 lb (20,411.7 kg)
Masstron	ML1447**	45,000 lb (20,411.7 kg)

**Load cells were originally equipped with spark gaps and stainless steel outer sheath cable*

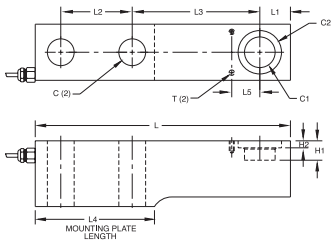
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RLSB2L/RLSB2M/RLSB2MLW Single-Ended Beam

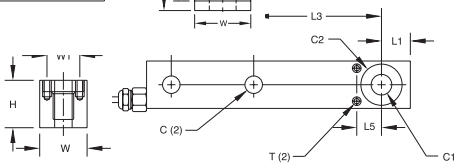
Hermetically sealed, IP67, Alloy Steel/Stainless Steel with Blind Load Hole

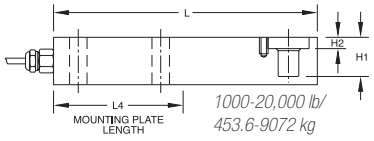


Picture is a representation of actual product



35,000-45,000 lb/
15,876-20,411.7 kg





1000-20,000 lb/
453.6-9072 kg

SPECIFICATIONS:

Full Scale Output:	2.0 mV/V ± .07% (Matched)
Bridge Resistance:	350 ohms, nominal (RLSB2L) 2000 ohms (RLSB2M, 45,000 lb)
Material/Finish:	1000-20,000 lb - Stainless steel 35,000-45,000 lb - High-alloy steel, epoxy coated
Temperature:	Compensated range 15°F to 115°F/-9°C to 46°C
Safe Overload:	150% Full scale
Safe Sideload:	100% Full scale
Rated Excitation:	10V DC (15V maximum)
Nonlinearity:	0.03% Full scale
Hysteresis:	0.03% Full scale
Insulation Resistance:	10000 megohms
Seal Type:	35,000 & 45,000 lb/15,875.7 & 20,411.7 kg, Hermetically sealed, IP67
Cable Length:	1000-20,000 lb=20'/3.1 m, 10,000-20,000 lb=15'/4.6 m, 35,000-45,000 lb=30'/9.2 m
Cable Diameter:	.299 polyurethane jacket
Cable Color Code:	Green ..... + Excitation Black ..... – Excitation White ..... + Signal Red ..... – Signal
Warranty:	Two-year limited warranty

DIMENSIONS

Rated Capacity	C	C1	C2	H	H1	H2	H3	L	L1	L2	L3	L4	L5	W	W1	T
lb/inches																
1000-5000	.53	.62	1.25	1.43	1.18	.34	—	8.00	.87	2.50	3.87	4.00	.75	1.43	1.00	8-32X.37DP
10,000	.84	.87	1.50	1.70	1.08	.39	—	9.25	.87	2.62	4.87	4.62	.87	1.68	1.12	10-32X.37DP
20,000	1.06	1.25	1.87	2.37	.81	.37	—	11.00	1.25	3.25	5.50	5.50	1.25	2.37	1.75	10-32X.37DP
35,000-45,000	1.31	1.50	2.12	3.22	.95	.37	2.75	12.50	1.50	3.50	6.25	5.84	1.37	2.75	2.00	10-32X.50DP
kg/mm																
453.6-2268.0	13.5	15.8	31.8	36.3	30.0	8.6	—	203.2	22.1	63.5	98.3	101.6	19.1	36.3	25.4	8-32X9.4DP
4535.9	21.3	22.1	38.1	43.2	27.4	9.9	—	235.0	22.1	66.6	123.7	117.4	22.1	42.7	28.5	10-32X9.4DP
9071.9	26.9	31.8	47.5	60.2	20.8	9.4	—	279.4	31.8	82.6	139.7	139.7	31.8	60.2	44.5	10-32X9.4DP
15,875.7	33.3	38.1	53.9	69.9	24.1	9.4	—	317.5	38.1	88.9	158.8	152.4	34.8	69.9	50.8	10-32X12.7DP
20,411.7	33.3	38.1	53.9	81.8	24.1	9.4	69.9	317.5	38.1	88.9	158.8	148.3	34.8	69.9	50.8	10-32X12.7DP

RLSB2L/RLSB2M/RLSB2MLW Order Information

Load Rating		Part #	Price
RLSB2MLW			
1000 lb	(453.6 kg)	92798	$865.00
3000 lb	(1360.8 kg)	92799	$865.00
5000 lb	(2268.0 kg)	92800	$865.00
10,000 lb	(4535.9 kg)	92801	$1,395.00
20,000 lb	(9071.9 kg)	92802	$1,395.00
RLSB2L			
*35,000 lb	(15,875.7 kg)	65234	$1,495.00
45,000 lb	(20,411.7 kg) 350 ohm	22279	$1,565.00
RLSB2M			
*45,000 lb	(20,411.7 kg) 2000 ohm	31915	$1,565.00
Load Cell Spacer			
(20k)		100117	$25.00
(1-5k)		100750	$35.00

** Hermetically sealed*

Interchangeable Products

Manufacturer	Model	Capacity
Masstron®	ML4311	1000 lb (453.6 kg)
Masstron	ML4331	3000 lb (1360.8 kg)
Masstron	ML4350	5000 lb (2268.0 kg)
Masstron	ML4410	10,000 lb (4535.9 kg)
Masstron	ML4420	20,000 lb (9071.9 kg)
Masstron	ML4437	35,000 lb (15,875.7 kg)
Masstron	ML4447	45,000 lb (20,411.7 kg)
Masstron	ML4449	45,000 lb (20,411.7 kg)

RICE LAKE WEIGHING SYSTEMS

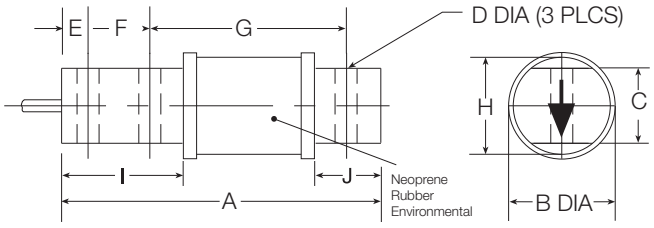
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RL50210 Single-Ended Beam

Alloy Steel, IP65



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	High-alloy steel, nickel plated
Temperature:	Compensated range 0°F to 150°F/-18°C to 65°C
Safe Overload:	150% Full scale
Rated Excitation:	10V DC (15V maximum)
Nonlinearity:	0.03% Full scale
Hysteresis:	0.02% Full scale
Insulation Resistance:	5000 megohms
Deflection at Capacity:	25-50 lb = .008"/.20 mm, 100 lb = .010"/.25 mm, 150 lb = .012"/.30 mm, 250 lb = .016"/.41 mm, 500 lb = .025"/.64 mm
Seal Type:	Environmentally sealed with neoprene sleeve, IP65
Cable Length:	20'/6.1 m
Cable Diameter:	.200 polyurethane jacket
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	FM APPROVED

DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	H	I	J
lb/inches										
25-500	2.81	1.30	.62	.26	.25	.50	1.81	1.00	1.00	.50
kg/mm										
11.3-226.8	71.4	33.0	15.8	6.6	6.4	12.7	46.0	25.4	25.4	12.7

RL50210 Order Information

Load Rating		Part #	Price
25 lb	(11.3 kg)	17385	$245.00
50 lb	(22.7 kg)	17380	$245.00
100 lb	(45.4 kg)	17381	$245.00
150 lb	(68.0 kg)	17382	$245.00
250 lb	(113.4 kg)	17383	$245.00
500 lb	(226.8 kg)	17384	$245.00

Interchangeable Products

Manufacturer	Model	Page #
Vishay Sensortronics	60040	300
Artech	50210	
Vishay Revere Transducers	5503	

Weigh Module Available

Model	Page #
RL50210 TA	32

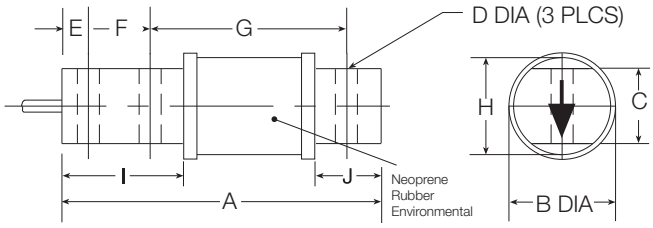
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RL60040SST Single-Ended Beam

Stainless Steel, IP65



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 0°F to 150°F/-18°C to 65°C
Safe Overload:	150% Full scale
Rated Excitation:	10V DC (15V maximum)
Nonlinearity:	0.03% Full scale
Hysteresis:	0.02% Full scale
Insulation Resistance:	5000 megohms
Deflection at Capacity:	25-50 lb = .008"/.20 mm, 100 lb = .010"/.25 mm, 150 lb = .012"/.30 mm, 250 lb = .016"/.41 mm, 500 lb = .025"/.64 mm
Seal Type:	Environmentally sealed with neoprene sleeve, IP65
Cable Length:	20'/6.1 m
Cable Diameter:	.200 polyurethane jacket
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty

DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	H	I	J
lb/inches										
25-500	2.81	1.30	.62	.26	.25	.50	1.81	1.00	1.00	.50
kg/mm										
11.3-226.8	71.4	33.0	15.8	6.6	6.4	12.7	46.0	25.4	25.4	12.7

RL50210 Order Information

Load Rating		Part #	Price
25 lb	(11.3 kg)	101972	$425.00
50 lb	(22.7 kg)	101973	$425.00
75 lb	(34.0 kg)	101974	$425.00
100 lb	(45.4 kg)	101975	$425.00
150 lb	(68.0 kg)	101976	$425.00
250 lb	(113.4 kg)	101977	$425.00
500 lb	(226.8 kg)	101978	$425.00

Interchangeable Products

Manufacturer	Model	Page #
*Vishay Sensortronics	60040	300
*Artech	50210	
*Vishay Revere Transducers	5503	

Weigh Module Available

	Model	Page #
	RL50210 TA	32

**Alloy steel*

RICE LAKE WEIGHING SYSTEMS

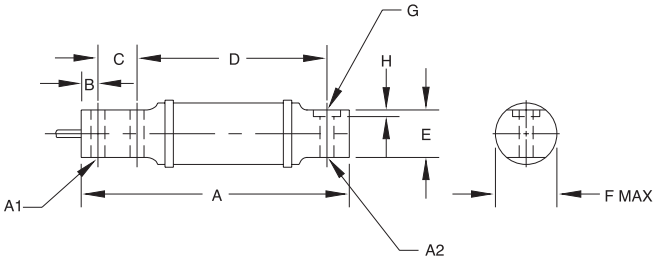
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RL40BBS Single-Ended Beam

Alloy Steel, IP65



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	50-1000 lb/750 ohms, nominal 2500 lb/347 ohms, nominal
Material/Finish:	High-alloy steel, nickel plated
Temperature:	Compensated range 0°F to 150°F/-18°C to 65°C
Safe Overload:	150% Full scale
Rated Excitation:	10V DC (15V maximum)
Nonlinearity:	0.03% Full scale
Hysteresis:	0.02% Full scale
Insulation Resistance:	5000 megohms
Deflection at Capacity:	50 lb = .015"/.38 mm, 100 lb = .005"/.64 mm, 200-250 lb = .030"/.76 mm, 500 lb = .020"/.51 mm, 1000 lb = .040"/1.02 mm, 2500 lb = .120"/3.05 mm
Seal Type:	Environmentally sealed with neoprene sleeve, IP65
Cable Length:	10'/3.1 m
Cable Diameter:	.200 polyurethane jacket
Cable Color Code:	Green ..... + Excitation Black..... – Excitation White..... + Signal Red..... – Signal
Warranty:	Two-year limited warranty

DIMENSIONS

Rated Capacity	A	A1	A2	B	C	D	E	F	G	H
lb/inches										
50-100	6.00	.31	.31	.38	.88	4.25	1.06	1.41	—	—
200-1000	6.62	.52	.52	.50	1.12	4.25	1.06	1.41	—	—
2500	11.38	.53	.62	.50	1.75	8.25	1.25	2.19	1.19	.12
kg/mm										
22.7-45.4	52.4	7.9	7.9	9.7	22.4	108.0	26.9	35.8	—	—
90.7-453.6	168.2	13.2	13.2	12.7	28.5	108.0	26.9	35.8	—	—
1134.0	289.1	13.5	15.8	12.7	44.5	209.6	31.8	55.6	30.3	3.0

RL40BBS Order Information

Load Rating		Part #	Price
50 lb	(22.7 kg)	17395	$375.00
100 lb	(45.4 kg)	17343	$375.00
200 lb	(90.7 kg)	17396	$375.00
250 lb	(113.4 kg)	17397	$375.00
500 lb	(226.8 kg)	17398	$375.00
1000 lb	(453.6 kg)	17344	$375.00
2500 lb	(1134.0 kg)	17345	$595.00

Interchangeable Products

Manufacturer	Model	Page#
HBM	BBS	231
Vishay Sensortronics	60007	
Fairbanks®	3-481XX-1	
Fairbanks	3-48660-1	

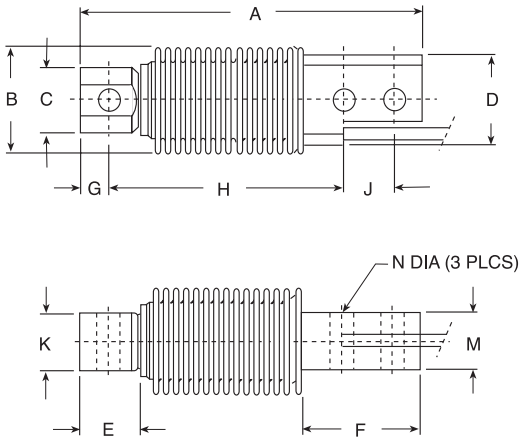
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RLHBB Single-Ended Beam

Stainless Steel, NTEP 1:5000 Class III Multiple Cell, OIML C3, Hermetically Sealed, IP68



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Rated Excitation:	10V DC (15V maximum)
Total Error:	0.02% Full scale
Insulation Resistance:	1000 megohms
Deflection at Capacity:	5-250 kg ≤ .4 mm/.015"
Seal Type:	Hermetically sealed, IP68
Cable Length:	3 m/10'
Cable Diameter:	.220 polyurethane jacket
Cable Color Code:	Blue..... + Excitation Black..... – Excitation White..... + Signal Red..... – Signal Green ..... + Sense Gray..... – Sense
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	H	J	K	M	N
kg/mm												
5-500	120.0	40.0	23.0	32.0	20.5	45.5	10.0	82.0	18.0	20.0	20.0	8.20
lb/inches												
11.0-1102.3	4.72	1.61	.91	1.26	.81	1.79	.39	3.23	.71	.79	.79	.32

RLHBB Order Information

Load Rating		Part #	Price
OIML			
5 kg	(11.0 lb)	32678	$525.00
10 kg	(22.0 lb)	32677	$525.00
20 kg	(44.1 lb)	31259	$525.00
50 kg	(110.2 lb)	31260	$525.00
100 kg	(220.5 lb)	31261	$525.00
200 kg	(441.0 lb)	31262	$525.00
250 kg	(551.2 lb)	31263	$525.00
500 kg	(1102.5 lb)	36462	$525.00
NTEP			
5 kg	(11.0 lb)	41113	$525.00
10 kg	(22.0 lb)	41114	$525.00
20 kg	(44.1 lb)	41115	$525.00
50 kg	(110.2 lb)	41116	$525.00
100 kg	(220.5 lb)	41117	$525.00
200 kg	(441.0 lb)	41118	$525.00
250 kg	(551.2 lb)	41119	$525.00
500 kg	(1102.5 lb)	41120	$525.00

Interchangeable Products

Manufacturer	Model	Page #
HBM	Z6*	234
Vishay Revere Transducers	SHB	264
Vishay Tedea-Huntleigh	355	323
Vishay Celtron	HBB**	187
Cardinal	CB6	

Weigh Module Available

	Model	Page #
	1700HE Series	14

** Non-NTEP*

*** Non-NTEP, not FM-approved*

RICE LAKE WEIGHING SYSTEMS

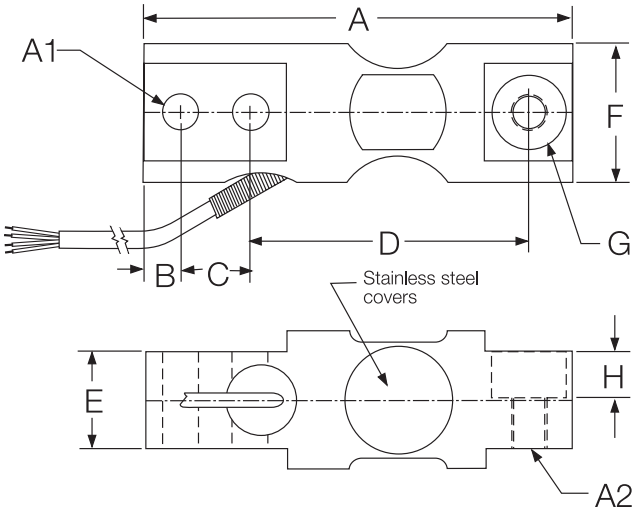
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RL32155 Single-Ended Beam

Stainless Steel, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	440 ohms, nominal w/voltage applied
Material/Finish:	Stainless steel
Temperature:	Compensated range 0°F to 150°F/-18°C to 65°C
Safe Overload:	200% Full scale
Rated Excitation:	6-15V DC
Nonlinearity:	0.03% Full scale
Hysteresis:	0.05% Full scale
Insulation Resistance:	5000 megohms
Seal Type:	Environmentally sealed, IP67
Cable Length:	15'/4.6 m
Cable Color Code:	White..... + Excitation Blue..... – Excitation Green ..... + Signal Black..... – Signal Yellow..... + Sense Red..... – Sense Orange ..... Shield
Warranty:	Two-year limited warranty
Approvals:	FM APPROVED

DIMENSIONS

Rated Capacity	A	A1	A2	B	C	D	E	F	G	H
lb/inches										
500-2000	6.13	.515	1/2 20 UNF-2B	.50	1.00	4.00	1.40	1.99	1.07 DIA.	.67
kg/mm										
226.8-907.2	155.7	13.08	1/2 20 UNF-2B	12.7	25.4	101.6	35.6	50.5	27.2 DIA.	17.0

RL32155 Order Information

Load Rating		Part #	Price
500 lb	(226.8 kg)	31914	$695.00
1000 lb	(453.9 kg)	31912	$695.00
2000 lb	(907.2 kg)	31913	$695.00
Load Cup		31911	$38.00

Interchangeable Products

Manufacturer	Model
Mettler-Toledo®	11785700A
Mettler-Toledo	11785600A, 12744300B
Mettler-Toledo	11786900A, 11788500A

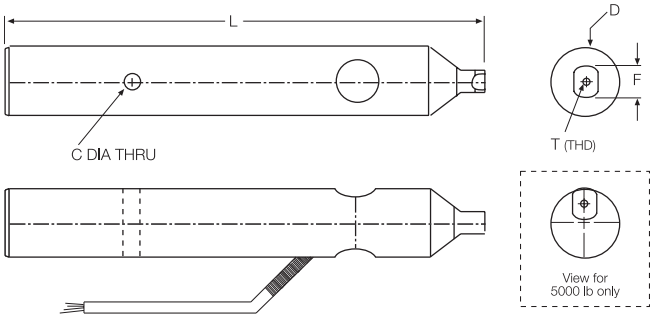
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RL75000 SS Single-Ended Beam

Stainless Steel, Welded-seal*, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 0°F to 150°F/18°C to 65°C
Safe Overload:	150% Full scale
Rated Excitation:	15V DC
Nonlinearity:	0.03% Full scale
Hysteresis:	0.05% Full scale
Seal Type:	Environmentally sealed, IP67
Cable Length:	20'/6.1 m
Cable Color Code:	Green ..... + Excitation Black ..... – Excitation White..... + Signal Red..... – Signal Orange ..... Shield
Warranty:	Two-year limited warranty
Approvals:	FM APPROVED

DIMENSIONS

Rated Capacity	C	D	F	I	T
lb/inches					
1250	.312	1.25	.63	11.50	#8-32
2500	.375	1.62	.70	11.50	#6-32
5000	.375	2.00	.88	10.88	#8-32
kg/mm					
567.0	7.9	31.7	16.0	292.1	#8-32
1134.0	9.5	41.1	17.7	292.1	#6-32
2268.0	9.5	50.8	22.3	276.3	#8-32

RL75000 SS Order Information

Load Rating		Part #	Price
1250 lb	(567 kg)	42501	$810.00
*2500 lb	(1134 kg)	42502	$810.00
*5000 lb	(2268 kg)	42503	$895.00

**welded seal*

Interchangeable Products

Manufacturer	Model
Weigh-Tronix®	Weigh Bar

RICE LAKE WEIGHING SYSTEMS

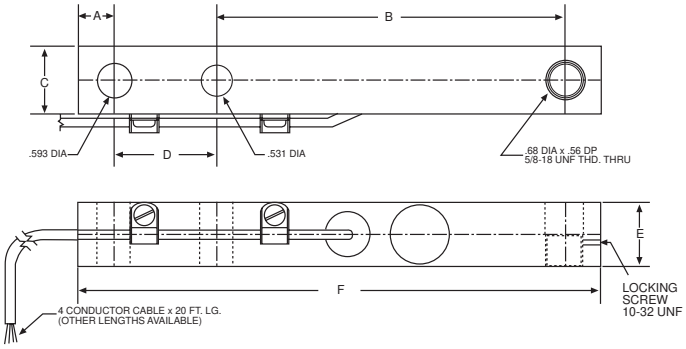
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RLSBF Single-Ended Beam

Stainless Steel, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	1000 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 0°F to 150°F/-18ºC to 65ºC
Safe Overload:	200% Full scale
Rated Excitation:	10V DC (15V maximum)
Nonlinearity:	0.03% Full scale
Hysteresis:	0.05% Full scale
Insulation Resistance:	>2000 megohms
Seal Type:	Environmentally sealed, IP67
Cable Length:	20'/6.1 m
Cable Color Code:	Green ..... + Excitation Black..... – Excitation White..... + Signal Red..... – Signal Orange ..... Shield
Warranty:	Two-year limited warranty
Approvals:	FM APPROVED

DIMENSIONS

Rated Capacity	A	B	C	D	E	F
lb/inches						
1500-2500	.63	6.00	1.19	1.75	1.13	9.00
kg/mm						
680.4-1134.0	16.0	152.4	30.2	44.4	28.7	228.6

RLSBF Order Information

Load Rating		Part #	Price
1500 lb	(680.4 kg)	53284	$615.00
2500 lb	(1134.0 kg)	53283	$615.00
Load Cup		69400	$35.00
Locking Screw		14929	$1.00

Interchangeable Products

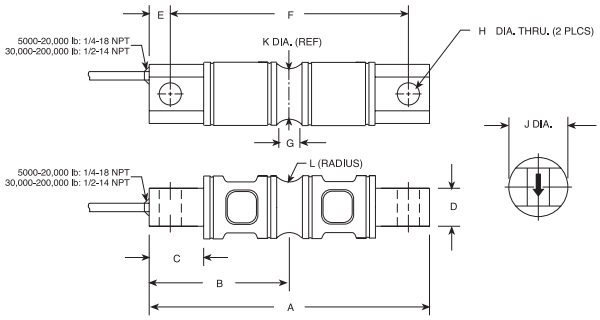
Manufacturer	Model
Fairbanks®	3-48424-X, 3-48363-1A
HBM	SBF

RL70000 Double-Ended Beam

Alloy Steel, NTEP 1:10,000 Class IIIL Multiple Cell, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	700 ohms, nominal
Material/Finish:	High-alloy steel, nickel plated
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Safe Sideload:	100% Full scale
Rated Excitation:	10V DC (15V maximum)
Combined Error:	0.02% Full scale
Insulation Resistance:	5000 megohms
Deflection at Capacity:	5000 lb = .02"/.5 mm, 10,000 lb = .025"/.6 mm, 20,000 lb = .042"/1.1 mm, 30,000-50,000 lb = .02"/.5 mm, 60,000 lb = .025"/.6 mm, 100,000 lb = .02"/.5 mm
Seal Type:	Environmentally sealed, IP67
Cable Length:	30'/9.1 m
Cable Diameter:	.200 5K-20K; .305 30K-250K
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	H	J	K	L
lb/inches											
5000-10,000	8.12	4.06	1.44	1.12	.62	6.88	.62	.66	1.83	1.48	.50
20,000	8.12	4.06	1.44	1.12	.62	6.88	.84	.66	1.83	1.62	.50
30,000-60,000	10.25	5.12	1.88	2.37	.88	8.50	1.00	1.06	3.20	2.73	1.00
100,000	11.25	5.62	1.88	2.50	.88	9.50	1.00	1.06	3.75	3.24	1.00
150,000	11.25	5.62	1.88	2.80	.88	9.50	1.25	1.06	3.90	3.64	1.50
200,000-250,000	16.10	8.05	3.05	4.60	1.55	13.00	1.30	1.56	5.38	5.17	2.00
kg/mm											
2268.0-9071.9	206.3	103.1	36.6	28.5	15.8	174.8	15.8	16.8	55.9	37.6	12.7
9071.9	206.3	103.1	36.6	14.2	21.3	174.8	21.3	16.8	52.8	37.6	12.7
13,607.8-27,215.6	260.4	130.1	47.8	60.2	22.4	215.9	25.4	26.9	81.3	69.3	25.4
45,359.4	285.8	142.8	47.8	63.5	22.4	241.3	25.4	26.9	95.3	82.3	25.4
68,038.8	285.8	142.8	47.8	63.5	22.4	241.3	31.8	26.9	99.1	92.5	38.1
90,718.5-113,398	409.0	204.5	77.5	116.8	39.4	330.2	33.0	39.6	136.7	131.3	50.8

RL70000 Order Information

Load Rating		Part #	Price
NTEP			
5000 lb	(2268.0 kg)	36263	$655.00
10,000 lb	(4535.9 kg)	36264	$655.00
20,000 lb	(9071.9 kg)	36265	$655.00
30,000 lb	(13,607.8 kg)	36266	$755.00
40,000 lb	(18,143.7 kg)	36267	$755.00
50,000 lb	(22,679.6 kg)	36268	$755.00
60,000 lb	(27,215.5 kg)	36269	$755.00
100,000 lb	(45,359.2 kg)	36270	$1,475.00
150,000 lb	(68,038.8 kg)	36976	$1,475.00
200,000 lb	(90,718.5 kg)	36977	$2,450.00
Non-NTEP			
250,000 lb	(113,398.0 kg)	36978	$2,775.00

Interchangeable Products

Manufacturer	Model	Page #
Vishay Revere Transducers	5103	266
Artech	70210	

Weigh Module Available

	Model	Page #
	EZ Mount 1	62

RICE LAKE WEIGHING SYSTEMS

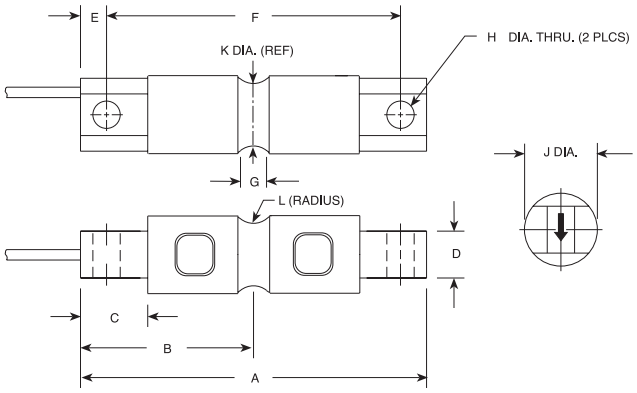
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RL70000 SS Double-Ended Beam

Stainless Steel, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	700 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 0°F to 150°F/-18°C to 65°C
Safe Overload:	150% Full scale
Safe Sideload:	100% Full scale
Rated Excitation:	10V AC/DC (15V max)
Non-repeatability:	0.02% Full scale
Combined Error:	0.1% Full scale
Insulation Resistance:	5000 megohms
Deflection at Capacity:	5000 lb = .02"/.5 mm, 10,000 lb = .025"/.6 mm, 20,000 lb = .042"/1.1 mm, 30,000-50,000 lb = .02"/.5 mm, 60,000 lb = .025"/.6 mm, 100,000-150,000 lb = .02"/.5 mm
Seal Type:	Environmentally sealed, IP67
Cable Length:	30'/9.2 m
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal Orange ..... Shield
Warranty:	Two-year limited warranty
Approvals:	FM APPROVED

DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	H	J	K	L
lb/inches											
5000-10,000	8.12	4.06	1.44	1.12	.62	6.88	.62	.66	1.83	1.48	.50
20,000	8.12	4.06	1.44	1.12	.84	6.88	.84	.66	2.08	1.48	.50
30,000-60,000	10.25	5.12	1.88	2.37	.88	8.50	1.00	1.06	3.20	2.73	1.00
100,000	11.25	5.62	1.88	2.50	.88	9.50	1.00	1.06	3.75	3.24	1.50
150,000	11.25	5.62	1.88	2.80	.88	9.50	1.25	1.06	3.90	3.64	1.50
kg/mm											
2268.0-4535.9	206.3	103.1	36.6	28.5	15.8	174.8	15.8	16.8	-55.9	37.6	12.7
9071.9	206.3	103.1	36.6	14.2	21.3	174.8	21.3	16.8	52.8	37.6	12.7
13,607.8-27,215.6	260.4	130.1	47.8	60.2	22.4	215.9	25.4	26.9	81.3	69.3	25.4
45,359.4	285.8	142.8	47.8	63.5	22.4	241.3	25.4	26.9	95.3	82.3	25.4
68,093.1	285.8	142.8	47.8	63.5	22.4	241.3	31.8	26.9	95.3	92.5	38.1

RL70000 SS Order Information

Rated Capacity		Part #	Price
5000 lb	(2268.0 kg)	30431	$700.00
10,000 lb	(4535.9 kg)	30432	$750.00
20,000 lb	(9071.9 kg)	30433	$750.00
30,000 lb	(13,607.8 kg)	30434	$825.00
40,000 lb	(18,143.7 kg)	30435	$825.00
50,000 lb	(22,679.6 kg)	30436	$925.00
60,000 lb	(27,215.5 kg)	30437	$925.00
100,000 lb	(45,359.2 kg)	30444	$1,825.00
150,000 lb	(68,038.9 kg)	30445	$1,895.00
Conduit Adapter Kit (must be factory installed to maintain warranty)*			
3/8-24 Nipple		31533*	$27.00
3/8-24 to 1/4-18 NPT		31534*	$27.00
5/8-18 UNF/1/2-14 NPT		31535**	$38.00

Interchangeable Products

Manufacturer	Model	Page #
Rice Lake Weighing Systems	RL71000 HE	134
Vishay Revere Transducers	9103	267
Artech	SS70210	

Weigh Module Available

	Model	Page #
	EZ Mount 1	62

** On capacities of 5000 to 20,000 lb, part #31534 must be installed together to form the Conduit Adapter Kit*

*** On capacities of 30,000 to 150,000 lb, order part #31535*

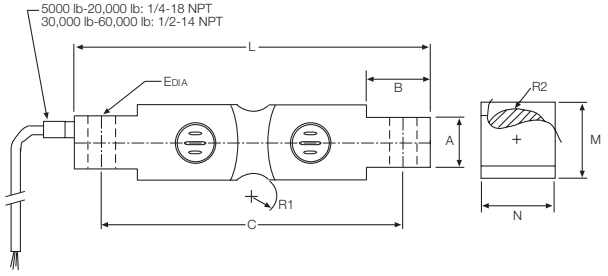
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RL71000 HE Double-Ended Beam

Stainless Steel, Hermetically sealed, IP66/68



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	700 ohms, nominal with voltage applied*
Material/Finish:	Stainless steel
Temperature:	Compensated range 0°F to 150°F/-18°C to 65°C
Safe Overload:	200% Full scale
Side Load:	100% Full scale
Rated Excitation:	6-15 VDC
Nonlinearity:	0.03% Full scale
Hysteresis:	0.05% Full scale
Insulation Resistance:	5000 megohms
Seal Type:	Hermetically sealed, IP66/68
Cable Length:	25'/7.6 m
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal Orange ..... Shield
Warranty:	Two-year limited warranty
Approvals:	FM APPROVED

DIMENSIONS

Rated Capacity	A	B	C	E	R1	R2	I	M	N
lb/inches									
5000-20,000	1.14	1.44	6.88	.68	.50	1.48	8.12	1.71	1.71
30,000-60,000	2.38	1.88	8.50	1.06	1.00	2.73	10.25	3.03	3.03
kg/mm									
2268-9072	28.9	36.5	174.7	17.2	12.7	37.5	206.2	43.43	43.43
13,608-27,216	60.4	47.7	215.9	26.9	25.4	69.3	260.3	76.96	76.96

RL71000HE Order Information

Load Rating		Part #	Price
5000 lb	(2268.0 kg)	42131	$1,295.00
10,000 lb	(4535.9 kg)	42132	$1,295.00
20,000 lb	(9071.9 kg)	42133	$1,295.00
30,000 lb	(13,608.0 kg)	42134	$1,695.00
40,000 lb	(18,144.0 kg)	42135	$1,695.00
50,000 lb	(22,679.6 kg)	42136	$1,695.00
60,000 lb	(27,216.0 kg)	42137	$1,695.00

** Consult factory for IS applications*

Interchangeable Products

Manufacturer	Model	Page #
Rice Lake Weighing Systems	RL70000 SS	133
Vishay Revere Transducers	9103	267

Weigh Module Available

	Model	Page #
	EZ Mount 1	62

RICE LAKE WEIGHING SYSTEMS

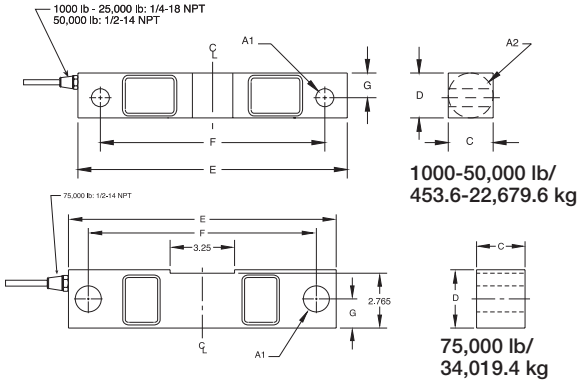
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RL75016 Double-Ended Beam

Alloy Steel, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	700 ohms, nominal
Material/Finish:	High-alloy steel, nickel plated
Temperature:	Compensated range 0°F to 150°F/-18°C to 65°C
Safe Overload:	150% Full scale
Safe Sideload:	100% Full scale
Rated Excitation:	10V DC (15V maximum)
Nonlinearity:	0.03% Full scale
Hysteresis:	0.02% Full scale
Insulation Resistance:	2000 megohms
Deflection at Capacity:	1000-3000 lb = .01"/.3 mm, 5000 lb = .015"/.4 mm 10,000-20,000 lb = .022"/.6 mm, 25,000 lb = .036"/.9 mm 50,000 lb = .052"/1.3 mm, 75,000 lb = .07"/1.8 mm
Seal Type:	Environmentally sealed, IP67
Cable Length:	25'/7.6 m
Cable Diameter:	.200 Polyurethane Jacket 1K-25K .305 Polyurethane Jacket 50K-75K
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	FM APPROVED

DIMENSIONS

Rated Capacity	A1	A2	C	D	E	F	G
lb/inches							
1000-5000	.50	1.25	1.25	1.25	7.50	6.25	.69
10,000-25,000	.81	1.99	1.44	1.94	8.75	7.50	.96
50,000	1.31	3.00	2.44	2.94	13.50	11.50	1.50
75,000	1.31	—	2.44	2.94	13.50	11.50	1.47
kg/mm							
453.6-2268.0	12.7	31.8	31.8	31.8	190.5	158.8	17.5
4535.9-11,339.8	20.6	50.8	36.6	49.3	222.3	190.5	24.4
22,679.6	33.3	76.2	62.0	74.7	342.9	292.1	38.1
34,019.4	33.3	—	62.0	74.7	342.9	292.1	37.3

RL75016 Order Information

Load Rating		Part #	Price
1000 lb	(453.6 kg)	17300	$525.00
1500 lb	(680.4 kg)	17302	$525.00
2000 lb	(907.2 kg)	17304	$525.00
2500 lb	(1134.0 kg)	17306	$525.00
3000 lb	(1360.8 kg)	17308	$525.00
5000 lb	(2268.0 kg)	17309	$525.00
10,000 lb	(4535.9 kg)	17311	$600.00
15,000 lb	(6803.9 kg)	17313	$600.00
20,000 lb	(9071.9 kg)	17315	$600.00
25,000 lb	(11,339.8 kg)	17317	$600.00
50,000 lb	(22,679.6 kg)	17319	$925.00
*75,000 lb	(34,019.4 kg)	25357	$925.00

** 75,000 lb capacity has a square center*

Interchangeable Products

Manufacturer	Model	Page #
Vishay Celtron	DSR	189
Vishay Sensortronics	65016	304
Vishay Revere Transducers	5203	

Weigh Module Available

	Model	Page #
	RL1600 Series	68 and 70

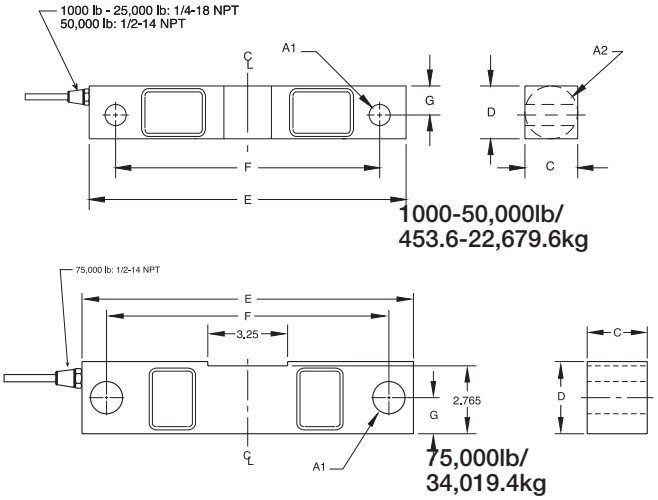
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RL75016 SS Double-Ended Beam

Stainless Steel, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	700 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 0°F to 150°F/-18°C to 65°C
Safe Overload:	150% Full scale
Safe Sideload:	100% Full scale
Rated Excitation:	10V DC (15V maximum)
Nonlinearity:	0.07% Full scale
Hysteresis:	0.02% Full scale
Insulation Resistance:	2000 megohms
Deflection at Capacity:	1000-3000 lb = .01"/.3 mm, 5000 lb = .015"/.4 mm 10,000-20,000 lb = .022"/.6 mm, 25,000 lb = .036"/.9 mm 50,000 lb = .052"/1.3 mm, 75,000 lb = .07"/1.8 mm
Seal Type:	Environmentally sealed, IP67
Cable Length:	25'/7.6 m
Cable Diameter:	.200 Polyurethane Jacket 1K-25K .305 Polyurethane Jacket 50K-75K
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	FM APPROVED

DIMENSIONS

Rated Capacity	A1	A2	C	D	E	F	G
lb/inches							
1000-5000	.50	1.25	1.25	1.25	7.50	6.25	.69
10,000-25,000	.81	1.99	1.44	1.94	8.75	7.50	.96
50,000	1.31	3.00	2.44	2.94	13.50	11.50	1.50
75,000	1.31	—	2.44	2.94	13.50	11.50	1.47
kg/mm							
453.6-2268.0	12.7	31.8	31.8	31.8	190.5	158.8	17.5
4535.9-11,339.8	20.6	50.8	36.6	49.3	222.3	190.5	24.4
22,679.6	33.3	76.2	62.0	74.7	342.9	292.1	38.1
34,019.4	33.3	—	62.0	74.7	342.9	292.1	37.3

RL75016 SS Order Information

Load Rating		Part #	Price
1000 lb	(453.6 kg)	17301	$550.00
1500 lb	(680.4 kg)	17303	$550.00
2000 lb	(907.2 kg)	17305	$550.00
2500 lb	(1134.0 kg)	17307	$550.00
5000 lb	(2268.0 kg)	17310	$550.00
10,000 lb	(4535.9 kg)	17312	$625.00
15,000 lb	(6803.9 kg)	17314	$625.00
20,000 lb	(9071.9 kg)	17316	$625.00
25,000 lb	(11,334.8 kg)	17318	$625.00
50,000 lb	(22,679.6 kg)	17320	$1,225.00
*75,000 lb	(34,019.4 kg)	25356	$1,225.00

** 75,000 lb capacity has a square center*

Interchangeable Products

Manufacturer	Model	Page
Rice Lake Weighing Systems	RL75016 WHE*	137
Vishay Sensortronics	65016W	305
Vishay Sensortronics	65016WH*	306
Vishay Revere Transducers	9203xx	
Vishay Celtron	DSR-HSS	190

Weigh Module Available

	Model	Page
	RL1600 Series	68 and 70

** Hermetically sealed*

*** Except 75K capacity*

RICE LAKE WEIGHING SYSTEMS

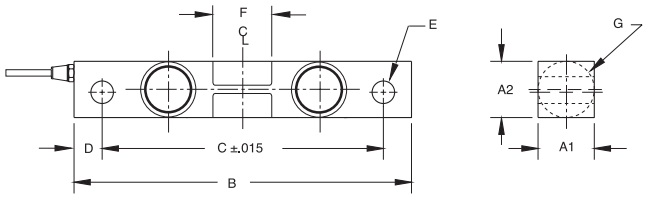
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RL75016 WHE Double-Ended Beam

Stainless Steel, Hermetically Sealed, IP66/68



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	700 ohms nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 0°F to 150°F/-18°C to 65°C
Safe Overload:	150% Full scale
Safe Sideload:	100% Full scale
Rated Excitation:	10V DC (15V maximum)
Total Error:	0.03% Full scale
Insulation Resistance:	>2000 megohms
Seal Type:	Hermetically sealed, IP66/68
Cable Length:	25'/7.6 m
Cable Diameter:	.200 Polyurethane Jacket
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A1	A2	B	C	D	E	F	G	CONDUIT ADAPTER
lb/inches									
1000-5000	1.22	1.22	7.50	6.25	.62	.50	1.12	1.25	1/2-14 NPT
10,000-25,000	1.44	1.94	8.75	7.50	.62	.81	1.62	1.99	1/2-14 NPT
kg/mm									
453.6-2268.0	31.0	31.0	190.5	158.8	15.7	12.7	28.4	31.8	
4535.9-11,339.8	36.6	49.3	222.3	190.5	15.7	20.6	41.1	50.5	

RL75016 WHE Order Information

Load Rating		Part #	Price
1000 lb	(453.6 kg)	67043	$655.00
1500 lb	(680.4 kg)	67044	$655.00
2000 lb	(907.2 kg)	67045	$655.00
2500 lb	(1124.0 kg)	67046	$655.00
5000 lb	(2268.0 kg)	67047	$655.00
10,000 lb	(4535.9 kg)	67048	$745.00
15,000 lb	(6803.9 kg)	67049	$745.00
20,000 lb	(9071.8 kg)	67050	$745.00
25,000 lb	(11,339.8 kg)	67051	$745.00

Interchangeable Products

Manufacturer	Model	Page #
Rice Lake Weighing Systems	RL75016 SS*	136
Vishay Sensortronics	65016W	305
Vishay Sensortronics	65016WH	306

** Environmentally sealed, IP67*

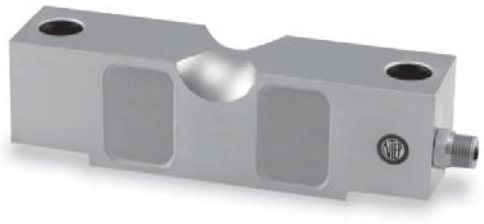
Weigh Module Available

Model	Page #
RL1600 Series	68 and 70

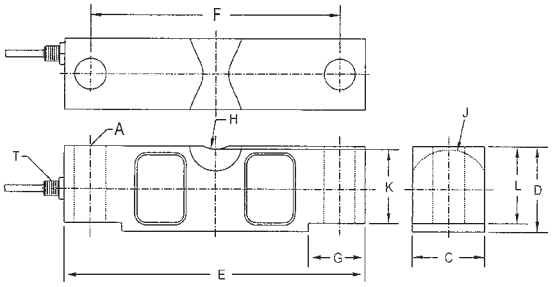
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RL75058 Double-Ended Beam, Alloy Steel

NTEP 1:10,000 Class IIIL Multiple Cell, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	700 ohms, nominal
Material/Finish:	High-alloy steel, nickel plated
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Safe Sideload:	100% Full scale
Rated Excitation:	10V DC (15V maximum)
Nonlinearity:	0.03% Full scale
Hysteresis:	0.02% Full scale
Insulation Resistance:	5000 megohms
Seal Type:	Environmentally sealed, IP67
Cable Length:	35'/10.6 m
Cable Diameter:	.200 Polyurethane Jacket 10K-25K .035 Polyurethane Jacket 40K-125K
Cable Coloring:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A	C	D	E	F	G	H	J	K	L	T
lb/inches											
10,000-25,000	.68	1.69	1.94	7.75	6.50	1.38	.75	.90	1.63	1.70	1/4-18 NPT
40,000	.81	1.94	2.44	10.25	8.50	1.93	1.00	1.12	2.00	2.10	1/4-18 NPT
50,000-75,000	1.06	2.44	2.94	10.25	8.50	1.93	1.00	1.37	2.54	2.65	1/2-14 NPT
100,000-125,000	1.62	2.90	3.86	15.25	12.75	3.13	1.50	1.80	3.30	3.43	1/2-14 NPT
kg/mm											
4536.1-11,339.8	17.3	42.9	49.3	196.9	165.1	35.1	19.1	22.9	41.4	43.2	1/4-18 NPT
18,143.7	20.6	49.3	62.0	260.4	215.9	49.0	25.4	28.5	50.8	53.3	1/4-18 NPT
22,679.6-34,019.4	26.9	62.0	74.7	260.4	215.9	49.0	25.4	34.8	64.5	67.3	1/2-14 NPT
45,359.4-56,699.1	41.2	737	980	387.4	323.9	79.5	38.1	45.7	83.8	87.1	1/2-14 NPT

RL75058 Order Information

Load Rating		Part #	Price
NTEP 1 : 10,000			
20,000 lb	(9071.9 kg)	34314	$635.00
25,000 lb	(11,339.8 kg)	34315	$635.00
40,000 lb	(18,143.7 kg)	34316	$760.00
50,000 lb	(22,679.6 kg)	34317	$835.00
60,000 lb	(27,215.5 kg)	34318	$835.00
75,000 lb	(34,019.4 kg)	34319	$835.00
100,000 lb	(45,359.4 kg)	34320	$1,575.00
125,000 lb	(56,699.1 kg)	34321	$1,575.00
Non-NTEP			
10,000 lb	(4536.0 kg)	41890	$615.00
60' Cables			
50,000 lb	(22,679.6 kg)	53417	$895.00
75,000 lb	(34,019.4 kg)	39516	$895.00
*75,000 lb	(34,019.4 kg)	73839	$995.00
125,000 lb	(45,359.4 kg)	96944	$1,625.00
100' Cable			
75,000 lb	(34,019.4 kg)	74725	$995.00

** Stainless steel overbraid cable*

Interchangeable Products

Manufacturer	Model	Page #
Vishay Sensortronics	65058	307-308
Vishay Celtron	CLB	191

Weigh Module Available

	Model	Page #
	2100HE	20
	MVS	76
	TSA	78

RICE LAKE WEIGHING SYSTEMS

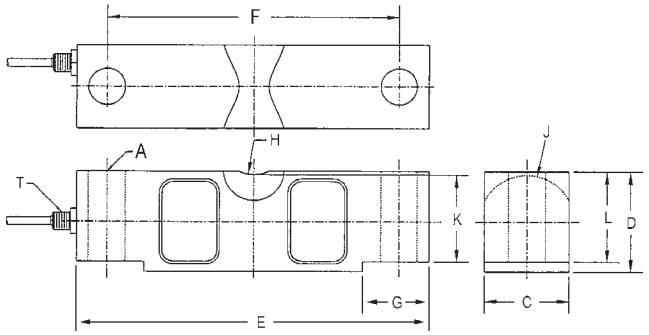
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RL75060S Double-Ended Beam

Stainless Steel, Welded-seal, IP67, NTEP 1:5000 Class III/1:10,000 Multiple Cell



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	700 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Safe Sideload:	100% Full scale
Rated Excitation:	10V DC (15V maximum)
Nonlinearity:	0.03% Full scale
Hysteresis:	0.02% Full scale
Insulation Resistance:	1000 megohms
Seal Type:	Welded-seal, IP67
Cable Length:	35'/10.6 m
Cable Diameter:	.200 Polyurethane Jacket 20K-25K .305 Polyurethane Jacket 35K-100K
Cable Coloring:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A	C	D	E	F	G	H	J	K	L	T
lb/inches											
20,000-25,000	.68	1.69	1.94	7.75	6.50	1.38	.75	.90	1.63	1.70	1/4-18 NPT
35,000-75,000	1.06	2.44	2.94	10.25	8.50	1.93	1.00	1.37	2.54	2.65	1/2-14 NPT
100,000	1.06	2.44	3.44	10.25	8.50	1.93	1.00	1.37	2.54	2.65	1/2-14 NPT
kg/mm											
9071.9	17.3	42.9	49.3	196.9	165.1	35.1	19.1	22.9	41.4	43.2	1/4-18 NPT
15,875.7-34,019.4	26.9	62.0	74.7	260.4	215.9	49.0	25.4	34.8	64.5	67.3	1/2-14 NPT
45,359.4	26.9	62.0	87.4	260.4	215.9	49.0	25.4	34.8	64.5	67.3	1/2-14 NPT

RL75060S Order Information

Load Rating		Part #	Price
20,000 lb	(9071.9 kg)	53481	$875.00
25,000 lb	(11,339.8 kg)	50559	$875.00
35,000 lb	(15,875.7 kg)	50560	$1,095.00
50,000 lb	(22,679.6 kg)	50561	$1,095.00
60,000 lb	(27,215.5 kg)	50562	$1,095.00
75,000 lb	(34,019.4 kg)	50563	$1,095.00
100,000 lb	(45,359.4 kg)	50564	$2,295.00

Interchangeable Products

Manufacturer	Model	Page #
Vishay Sensortronics	65058S	308

Weigh Module Available

Model	Page #
2100HE	20
MVS	76
TSA	78

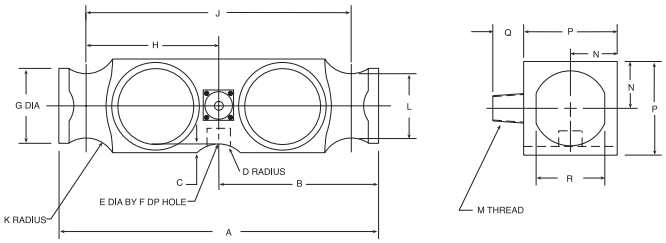
Load Cells

RL75223 Double-Ended Beam

Alloy Steel, Welded-seal, IP67, NTEP 1:10,000 Class IIIL Multiple Cell



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	700 ohms, nominal
Material/Finish:	High-alloy steel
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Safe Sideload:	100% Full scale
Rated Excitation:	10V DC (15V maximum)
Non-repeatability:	0.01% Full scale
Combined Error:	0.03% Full scale
Insulation Resistance:	5000 megohms
Deflection at Capacity:	50,000 lb = .018"/.5 mm, 65,000 lb = .022"/.6 mm, 100,000 lb = .034"/.9 mm
Seal Type:	Welded-seal strain gauge*, IP67
Cable Length:	40'/12.2 m
Cable Diameter:	.305 Polyurethane Jacket
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals	

DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
lb/inches																
50,000-65,000	10.25	5.12	.28	1.00	.75	.78	2.40	4.25	8.50	1.00	2.06	1/2-14 NPT	1.50	3.00	1.03	2.20
100,000	10.25	5.12	.28	1.00	—	—	2.40	4.25	8.50	1.00	2.06	1/2-14 NPT	1.50	3.00	1.03	2.20
kg/mm																
22,679.6-29,483.5	260.4	130.1	7.1	25.4	19.1	19.8	61.0	108.0	215.9	25.4	5.2	1/2-14 NPT	38.1	76.2	26.2	55.9
45,359.2	260.4	130.1	7.1	25.4	—	—	61.0	108.0	215.9	25.4	5.2	1/2-14 NPT	38.1	76.2	26.2	55.9

RL75223 Order Information

Load Rating		Part #	Price
**50,000 lb	(22,679.6 kg)	107583	$910.00
50,000 lb	(22,679.6 kg)	21611	$850.00
65,000 lb	(29,483.5 kg)	21612	$850.00
100,000 lb	(45,359.2 kg)	21613	$1,200.00

** Conduit is recommended for maximum protection against the ingress of water and moisture through the cable entry*

***60 feet of cable*

Interchangeable Products

Manufacturer	Model	Page #
Vishay Revere Transducers	5223	268
Artech	80210	
Thurman®	TSC 800	
Sensortronics	65040A-XX-1127W	
Unibridge	DL90000	

Weigh Module Available

	Model	Page #
	Translink	80

RICE LAKE WEIGHING SYSTEMS

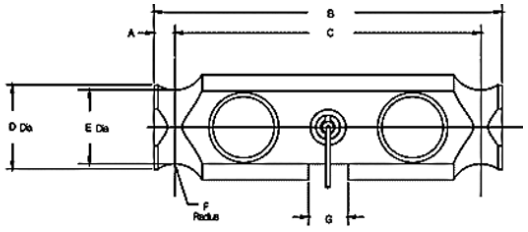
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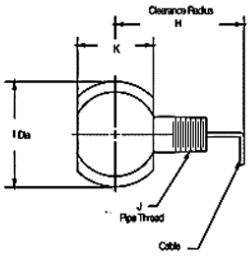
RLDB50000S Double-Ended Beam

Stainless Steel, NTEP 1:10,000 IIIL Multiple, Welded Seal IP67



Picture is a representation of actual product





SPECIFICATIONS:

Full Scale Output:	2±0.1% mV/V
Bridge Resistance:	700 ohms, nominal
Material/Finish:	Stainless Steel
Temperature:	Compensation Range 14°F-104°F/-10°C-40°C
Safe Overload:	150% Full Scale
Safe Sideload:	100% Full Scale
Rated Excitation:	10 VDC (15 VDC maximum)
Non-repeatability:	0.01% Full Scale
Combined Error:	0.03% Full Scale
Insulation Resistance:	5000 megohms
Deflection at Capacity:	0.01"/0.38mm
Seal Type:	Environmentally sealed, NEMA 6P/IP67
Cable Length:	35'/10.6 m
Cable Diameter:	.305 Polyurethane Jacket
Cable Color Code:	Red..... + Excitation Black..... - Excitation White..... - Signal Green ..... + Signal
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	J	K		
lb/inches											
	0.50	8.25	7.25	2.0	1.76	0.75	0.93	1/2-14	1.8	2.5	
kg/mm											
	12.7	209.55	184.15	50.8	44.7	19	23.6	1/2-14		45.72	63.5

RLDB5000S Order Information

Load Rating		Part #	Price
50,000 lb	(22,679.6 kg)	91765	$1,195.00

Interchangeable Products

Manufacturer	Model	Page #
Cardinal®	DB50000S	

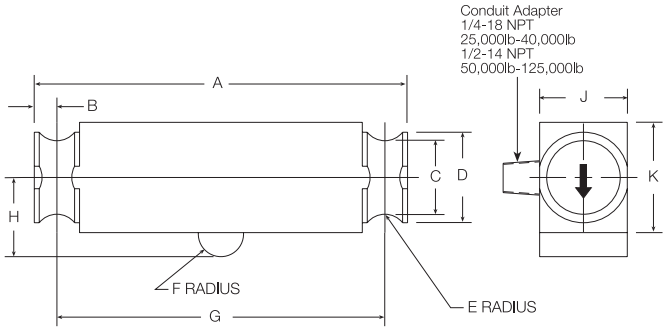
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RL75040 Double-Ended Beam

Alloy Steel, NTEP 1:10,000 Class IIIL Multiple Cell, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V
Bridge Resistance:	700 ohms, nominal
Material/Finish:	High-alloy steel, nickel plated
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Safe Sideload:	100% Full scale
Rated Excitation:	10V DC (15V maximum)
Nonlinearity:	0.03% Full scale
Hysteresis:	0.02% Full scale
Insulation Resistance:	1000 megohms
Seal Type:	Environmentally sealed, IP67
Cable Length:	35'/10.6 m or 50'/15.2 m
Cable Diameter:	.200 Polyurethane Jacket 25K .305 Polyurethane Jacket 40K-75K
Cable Coloring:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	H	J	K
lb/inches										
25,000-40,000 50K SE & 60,000 SE	8.25	.50	1.63	2.00	.50	.50	7.25	1.75	1.94	2.44
50,000-75,000	11.50	.75	1.70	2.20	.75	1.00	10.00	2.00	1.94	2.94
100,000-125,000	14.50	1.00	2.44	3.20	1.00	1.50	12.50	2.75	2.90	3.86
kg/mm										
11,339.8-18,143.7 & 27,215.5 SE	209.6	12.7	41.4	50.8	12.7	12.7	184.2	44.5	49.3	62.0
22,679.6-34,019.4	292.1	19.1	43.2	55.9	19.1	25.4	254.0	50.8	49.3	74.7
45,359.2-56,699.1	368.3	25.4	62.0	81.3	25.4	38.1	317.5	69.9	73.7	98.0

RL75040 Order Information

Load Rating		Part #	Price
35 ft Cable			
25,000 lb	(11,339.8 kg)	21614	$635.00
40,000 lb	(18,143.7 kg)	21615	$760.00
50,000 lb	(22,679.6 kg)	21616	$835.00
60,000 lb	(27,215.5 kg)	21617	$835.00
75,000 lb	(34,019.4 kg)	21618	$835.00
100,000 lb	(45,359.2 kg)	21619	$1,575.00
125,000 lb	(56,699.1 kg)	21620	$1,575.00
40 ft Cable Small Envelope			
50,000 lb SE	(22,679.6 kg)	87253	$760.00
60,000 lb SE	(27,215.5 kg)	53593	$760.00
50 ft Cable			
50,000 lb	(22,679.6 kg)	21621	$865.00
60,000 lb	(27,215.5 kg)	21622	$865.00
75,000 lb	(34,020 kg)	40951	$865.00

SE refers to small envelope

Interchangeable Products

Manufacturer	Model	Page #
Vishay Sensortronics	65040A	310
Artech	80310	
Thurman®	TSC 840	
Vishay Celtron	DLB	192

Weigh Module Available

Model	Page #
Translink	80

RICE LAKE WEIGHING SYSTEMS

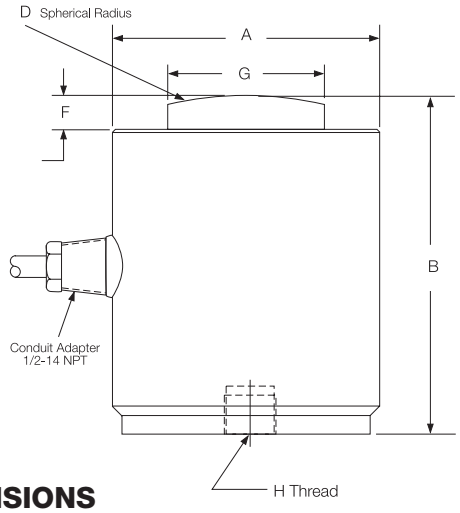
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RLCSP1 Compression Canister

Stainless Steel, Welded-seal, IP67, NTEP 1:10,000 Class IIIL Multiple Cell



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	480 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Operating range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Rated Excitation:	10V DC (15V maximum)
Combined Error:	0.03% Full scale
Non-repeatability:	0.01% Full scale
Insulation Resistance:	1000 megohms
Deflection at Capacity:	25,000-50,000 lb = .003"/.076 mm 100,000-200,000 lb = .006"/.152 mm
Seal Type:	Welded-seal, IP67
Cable Length:	35'/10.7 m
Cable Diameter:	.035 Polyurethane Jacket
Cable Color Code:	Green ..... + Excitation Black..... – Excitation White..... + Signal Red..... – Signal Orange ..... Shield
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A	B	D	F	G	H	DEPTH
lb/inches							
25,000-50,000	3.00	3.25	6.00	.40	1.25	1/2-20 UNF-2B	.31
100,000	4.00	5.00	6.00	.51	2.31	3/4-16 UNF-2B	.56
200,000	6.00	7.25	17.00	1.04	3.13	3/4-16 UNF-2B	.75
kg/mm							
11,339.8-22,679.6	76.2	82.6	152.4	10.2	31.8	1/2-20 UNF-2B	7.9
45,359.2	101.6	127.0	152.4	13.0	58.7	3/4-16 UNF-2B	14.2
90,718.5	152.4	184.2	431.8	26.4	79.5	3/4-16 UNF-2B	19.1

RLCSP1 Order Information

Load Rating		Part #	Price
25,000 lb	(11,339.8 kg)	32702	$1,505.00
50,000 lb	(22,679.6 kg)	32701	$1,505.00
100,000 lb	(45,359.2 kg)	32700	$1,895.00
200,000 lb	(90,718.5 kg)	32699	$2,795.00

Interchangeable Products

Manufacturer	Model	Page #
Vishay Sensortronics	65088-1000	
Vishay Revere Transducers	CSP	275
Vishay Revere Transducers	692B	
Howe Richardson®	244699-000X	
Streeter Amet	3760XXX	

Weigh Module Available

	Model	Page #
	MagnaMount®	88

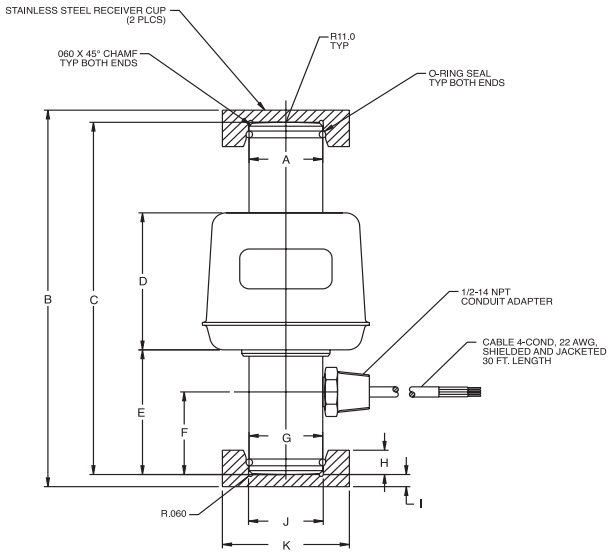
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RLSCA-50K Rocker Column

Stainless Steel, Welded-seal, IP67, NTEP 1:10,000 Class IIIL Multiple Cell



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2 mv/V nominal
Bridge Resistance:	1050 ohms
Material/Finish:	Stainless Steel
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Rated Excitation:	10V DC (15V maximum)
Combined Error:	.025% Full scale
Non-repeatability:	.01% Full scale
Insulation Resistance:	1000 megohms
Seal Type:	Welded-seal, IP67
Cable Length:	30'/9 m
Cable Diameter:	.200 Polyurethane Jacket
Cable Color Code:	Green ..... + Excitation Black..... – Excitation White..... – Signal Red..... + Signal
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	H	I	J	K
lb/inches											
50,000	1.46	7.75	7.25	2.82	2.57	1.70	1.46	.50	.25	1.48	2.50
kg/mm											
22,679.6	37.0	196.8	184.1	71.6	65.2	43.1	37.0	12.7	6.35	37.5	63.5

RLSCA Order Information

Load Rating	Part #	Price
*50,000 lb (22,679.6 kg)	68918	$995.00
Replacement load cup set upper & lower included	85433	$95.00
Replacement O-rings	92988	$1.00/each

**Load cell supplied w/ load cups*

Interchangeable Products

Manufacturer	Model
Cardinal®	SCA-50K

RICE LAKE WEIGHING SYSTEMS

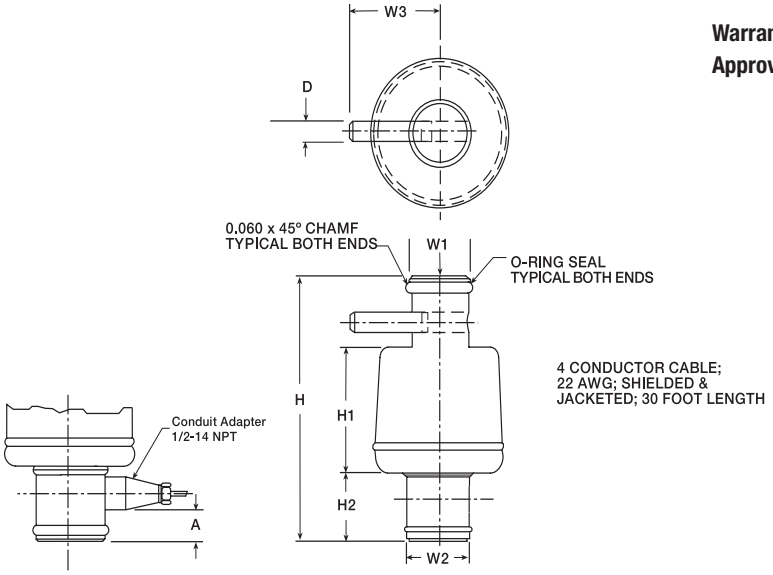
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RL75114-50K Rocker Column

Stainless Steel, Welded Seal, IP67, NTEP 1:10,000 Class III L



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	1.8mV/v nominal
Bridge Resistance:	1000 ohms
Material/Finish:	Stainless Steel
Temperature:	Compensated Range 14°F-104°F (-10°C-40°C)
Safe Overload:	150%
Rated Excitation:	10 VDC
Combined Error:	0.025% FS
Non-repeatability:	.01% FS
Insulation Resistance:	1000 megohms
Seal Type:	Welded Seal IP67
Cable Length:	30'/9 m
Cable Diameter:	.200 Polyurethane Jacket
Cable Color Code:	Green ..... + Excitation Black..... - Excitation White..... + Signal Red..... - Signal
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A	D	H	H1	H2	W1	W2	W3
lb/inches								
50,000 LE	.87	.38	7.56	2.82	2.38	1.46	1.46	2.18
kg/mm								
22,680.0	15.6	9.7	192.0	71.6	40.4	37.08	37.1	63.5

RLSCA Order Information

Load Rating		Part #	Price
50,000 lb	(22,679.6 kg)	88074	$1,195.00
Replacement o-ring		92988	$1.00

Interchangeable Products

Manufacturer	Part #	Model
Fairbanks	64166	LCFHR4020-2

Not interchangeable with Sensortronics 65114 - different mV/v

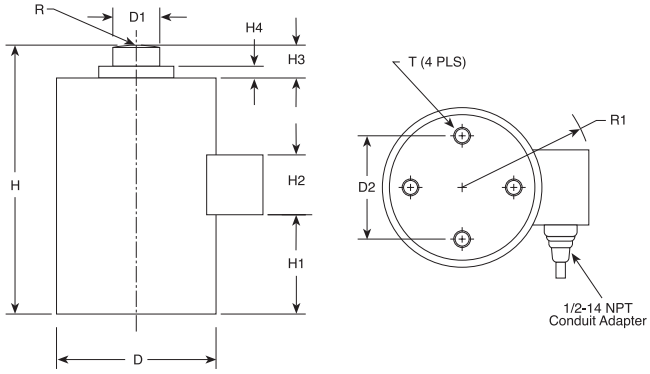
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RL8C2P1SS Compression Canister

Stainless Steel, Hermetically Sealed, IP68, NTEP 1:10,000 Class IIIL Multiple Cell



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Rated Excitation:	10V DC (15V maximum)
Non-repeatability:	0.01% Full scale
Combined Error:	0.03% Full scale
Insulation Resistance:	>1000 megohms
Deflection at Capacity:	50,000 lb = .004"/102 mm, 100,000 lb = .006"/.152 mm, 200,000 lb = .009"/.228 mm
Seal Type:	Hermetically sealed, IP68
Cable Length:	35'/10.7 m
Cable Color Code:	Green ..... + Excitation Black..... – Excitation White..... + Signal Red..... – Signal Orange ..... Shield
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	D	D1	D2	H	H1	H2	H3	H4	R	R1	T
lb/inches											
50,000	4.50	1.25	2.38	7.50	1.17	.75	.75	.25	8.00	3.75	3/8-24 UNF-2B X .63 D
100,000	5.75	1.75	4.00	9.13	2.00	.87	1.05	.17	12.00	4.05	1/2-20 UNF-2B X .75 D
200,000	7.50	2.50	5.50	11.63	2.93	.97	.97	.17	12.00	5.11	5/8-18 UNF-2B X 25.4 D
kg/mm											
22,679.6	114.3	31.8	53.4	190.5	77.7	19.1	19.1	6.4	203.2	95.3	3/8-24 UNF-2B X .63 D
45,359.2	146.1	44.5	101.6	231.9	66.0	22.1	26.6	4.3	304.8	102.9	1/2-20 UNF-2B X .75 D
90,718.5	190.5	63.5	139.7	295.4	100.0	24.6	24.6	4.3	304.8	129.8	5/8-18 UNF-2B X 25.4 D

RL8C2P1SS Order Information

Load Rating		Part #	Price
50,000 lb	(22,679.6 kg)	34855	$1,700.00
100,000 lb	(45,359.2 kg)	34856	$1,700.00
200,000 lb	(90,718.5 kg)	34857	$2,695.00

Interchangeable Products

Manufacturer	Model	Page #
Vishay Revere Transducers	792	276

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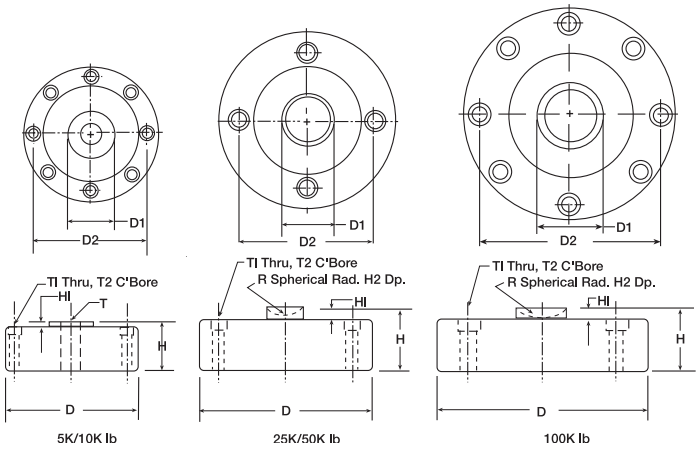
RL90000 Compression* Disk

Alloy Steel



Picture is a representation of actual product

25,000 lb model shown. Load cup sold separately on 5,000 and 10,000 lb models.



SPECIFICATIONS:

Full Scale Output:	4.0 mV/V
Bridge Resistance:	350 ohms (100,000lb=700 ohms), nominal
Material/Finish:	High-alloy steel, nickel plated
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Safe Sideload:	100% Full scale
Rated Excitation:	15V DC (15V maximum)
Nonlinearity	0.05% Full scale
Hysteresis:	0.02% Full scale
Insulation Resistance:	2000 megohms
Seal Type:	Environmentally sealed
Cable Length:	50'/15.2 m
Cable Diameter:	.200 Polyurethane Jacket 5K-25K .305 Polyurethane Jacket 50K-100K
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	FM APPROVED

DIMENSIONS

Rated Capacity	T	R	D	D1	D2	H	H1	H2	T1	T2
lb/inches										
5000*-10,000*	5/8-18 UNF-3B	—	4.12	1.26	3.50	1.37	.12	-—	.28	.406 x .283 DP
25,000-50,000	—	.875	4.75	1.53	4.00	2.12	.50	.30	.34	.508 x .38 DP
100,000	—	.875	5.50	1.98	4.60	2.25	.25	.30	.41	.626 x .4 DP
kg/mm										
2268.0*-4539.9*	5/8-18 UNF-3B	—	104.6	32.0	34.8	34.8	3.05	7.6	7.2	10.3 x 7.2 DP
11,339.8-22,679.7	—	22.2	120.7	38.9	101.6	53.8	12.7	12.7	8.7	12.9 x 9.7 DP
45,359.4	—	22.2	139.7	50.4	116.8	57.2	6.4	7.6	10.3	10.3 x 10.2 DP

RL90000 Order Information

Load Rating		Part #	Price
*5000 lb	(2268.0 kg)	33061	$650.00
*10,000 lb	(4535.9 kg))	33062	$650.00
25,000 lb	(11,339.8 kg)	33063	$795.00
50,000 lb	(22,679.7 kg)	33064	$795.00
100,000 lb	(45,359.4 kg)	33065	$935.00
*Load Cup		33616	$35.00

** 5000 lb and 10,000 lb models can be used in compression and tension load applications.*

Load cup, part #33616, is required for compression applications on 5000 lb and 10,000 lb capacity load cells.

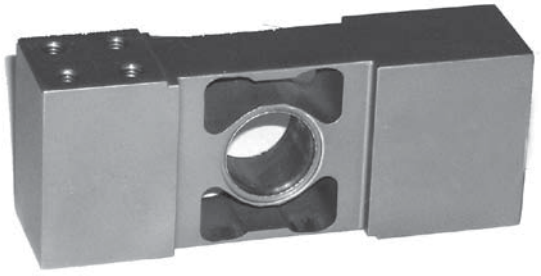
Interchangeable Products

Manufacturer	Model	Page #
Vishay Celtron	LCD	197

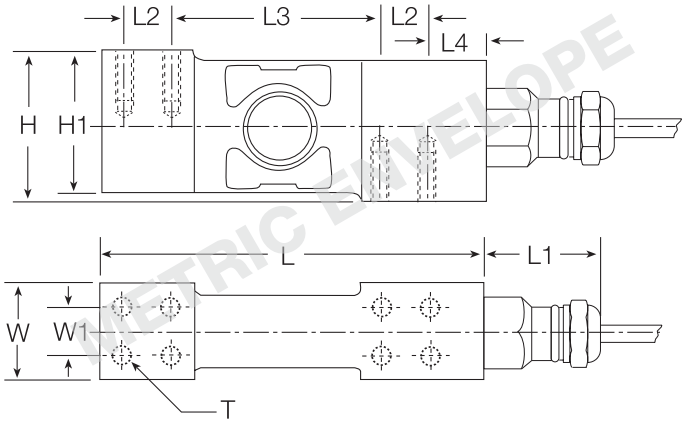
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RLPC6 Single Point

Stainless Steel, NTEP 1:5000 Class III Single Cell, Hermetically Sealed, IP69K



Picture is a representation of actual product



METRIC ENVELOPE

SPECIFICATIONS:

Full Scale Output:	2.0 mv/v
Bridge Resistance:	1000 Ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 14˚ F to 104˚ F/ -10˚ C to 40˚ C
Safe Overload:	200% FS
Safe Sideload:	100% Full scale
Rated Excitation:	10 V DC
Total Error:	0.02% FS
Insulation Resistance:	5000 megohms
Seal Type:	Hermetically sealed, IP69K
Cable Length:	10'/3.1 m
Cable Diameter:	.196 Polyurethane Jacket
Cable Color Code:	Green ..... + Excitation Black..... - Excitation White..... + Signal Red..... - Signal Yellow..... Shield
Max Deflection	.006 - .010
Max Platform Size:	24' x 24'
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	H	H1	L	L1	L2	L3	L4	W	W1	T
kg/mm										
20-200	48.0	45.5	123.0	41.0	15.2	67.6	17.8	30.1	15.2	8 X M6/15DP
lb/inches										
66.1-441.0	1.89	1.80	4.84	1.61	.60	2.66	.70	1.18	.60	8 X M6/15DP

RLPC6 Order Information

Load Rating		Part #	Price
10 kg	(22.1 lb)	87027	$595.00
20 kg	(44.1 lb)	87028	$595.00
50 kg	(110.2 lb)	87029	$595.00
100 kg	(220.5 lb)	87030	$595.00
200 kg	(441.0 lb)	87031	$595.00

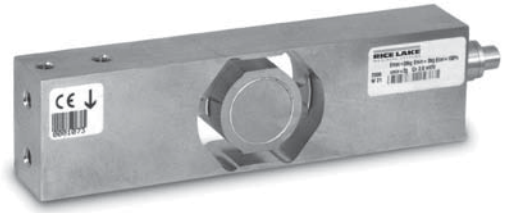
Interchangeable Products

Manufacturer	Model	Page #
Flintec	PC6	198

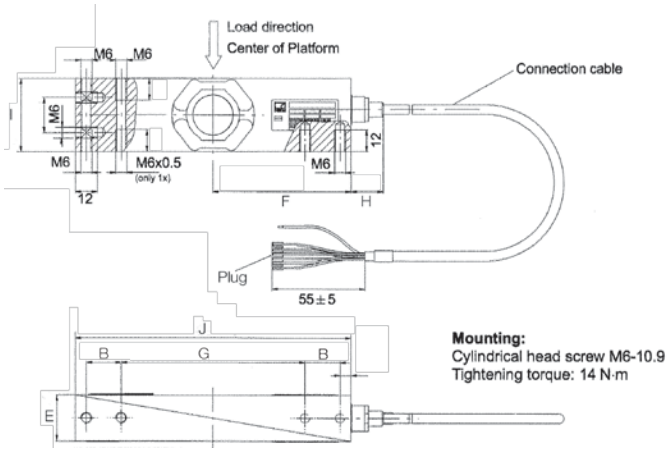
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RLPWM15HE Single Point

Stainless Aluminum, IP69K, Hermetically Sealed, NTEP 1:5000 Class III Single Cell



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Stainless Steel
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Rated Excitation:	10V DC (15V maximum)
Total Error:	0.02% Full scale
Insulation Resistance:	1000 megohms
Seal Type:	Hermetically sealed, IP69K
Cable Length:	3.1 m/10'
Cable Diameter:	.212 PVC jacket
Cable Color Code:	Blue..... + Excitation Black..... – Excitation Green ..... + Sense Grey..... – Sense White..... + Signal Red..... – Signal
Warranty:	One-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	B	E	F	G	H	I	J	K
kg/mm								
10-100	19	25	75	100	17.5	40	150	19
lb/inches								
22/220.5	.75	.98	2.95	3.94	.69	1.57	5.91	.75

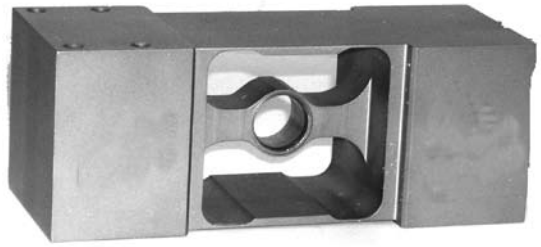
PW15AH Order Information

Load Rating		Part #	Price
10 kg	(22.0 lb)	108685	$695.00
20 kg	(44.1 lb)	108686	$695.00
50 kg	(110.2 lb)	108687	$695.00
100 kg	(220.5 lb)	108688	$695.00

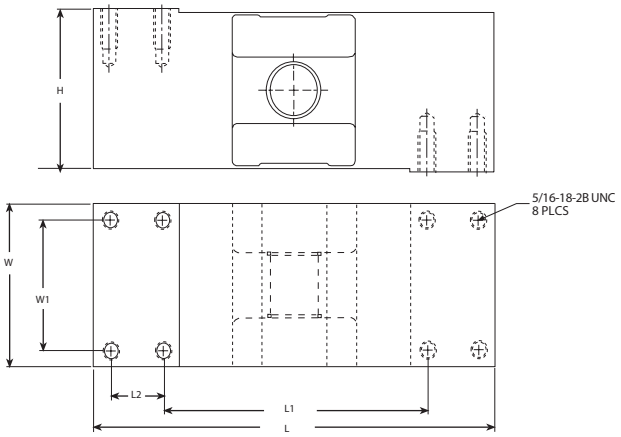
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RLPCBC-60 Single Point

Stainless Steel, NTEP 1:5000 Class III Single Cell, Hermetically Sealed IP69K



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2 mv/v
Bridge Resistance:	1000 Ohms, nominal
Material/Finish:	Stainless steel
Temperature:	14˚ F to 104˚ F/ -10˚ C to 40˚ C
Safe Overload:	200% FS
Safe Sideload:	100% Full scale
Rated Excitation:	10 VDC
Total Error:	0.020% FS
Insulation Resistance:	5000 megohms
Seal Type:	Hermetically sealed, IP69K
Cable Length:	10'/3 m
Cable Diameter:	.196 Polyurethane Jacket
Cable Color Code:	Green ..... + Excitation Black ..... - Excitation White ..... + Signal Red ..... - Signal Yellow ..... Shield Blue ..... + Sense Brown ..... - Sense
Max Platform Size	24' x 24'
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	L	L1	L2	W	W1	H
kg/mm						
50-1000	190.5	107	35	73.7	50	73.7
lb/inches						
110.3-2205	7.50	4.21	1.38	2.90	1.97	2.90

RLPCBC-60 Order Information

Load Rating		Part #	Price
50 kg	(110.3 lb)	87022	$825.00
100 kg	(220.5 lb)	87023	$825.00
250 kg	(551.3 lb)	87024	$825.00
500 kg	(1,102.5 lb)	87025	$825.00
1000 kg	(2,205 lb)	87026	$825.00

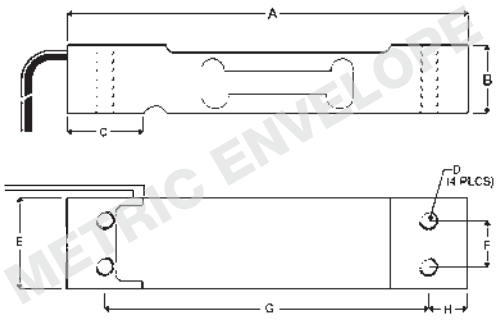
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RL1521A Single Point

Aluminum, NTEP 1:5000 Class III Single Cell



Picture is a representation of actual product



METRIC ENVELOPE

SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohm
Material/Finish:	Aluminum
Temperature:	Compensated range -10°C to 40°C/14°F to 104°F
Safe Overload:	150% Full scale
Rated Excitation:	10V DC (15V maximum)
Total Error:	0.03% Full scale
Insulation Resistance:	2000 megohms
Seal Type:	Environmentally sealed
Cable Length:	.5 m/1.50'
Cable Diameter:	.14 PVC Jacket
Cable Color Code:	Green ..... + Excitation Black..... - Excitation Red..... + Signal White..... - Signal
Max Platform Size:	13.75" x 13.75"
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	H
kg/mm								
3-7	130.0	22.0	25.0	M6 x 1.0	25.4	15.0	106.0	12.0
10-30	130.0	22.0	25.0	M6 x 1.0	30.0	15.0	106.0	12.0
35	130.0	22.0	25.0	M6 x 1.0	40.0	15.0	106.0	12.0
lb/inches								
6.6-15.4	5.12	.87	.99	M6 x 1.0	1.00	.59	4.17	.47
22.0-66.2	5.12	.87	.99	M6 x 1.0	1.18	.59	4.17	.47
77.2	5.12	.87	.99	M6 x 1.0	1.57	.59	4.17	.47

RL1521A Order Information

Load Rating		Part #	Price
3 kg	(6.6 lb)	50620	$140.00
5 kg	(11 lb)	50619	$140.00
7 kg	(15.4 lb)	50621	$140.00
10 kg	(22.1 lb)	50622	$140.00
15 kg	(33.1 lb)	50623	$140.00
20 kg	(44.1 lb)	50624	$140.00
30 kg	(66.1 lb)	50625	$140.00
35 kg	(110.2 lb)	50626	$140.00

Interchangeable Products

Manufacturer	Model	Page #
Vishay Celtron	LPS except 3kg	193
Vishay BLH	C2G1	
Fairbanks®	4900 Series Checkweighers	
NMB®	C2G1	
Vishay Tedea-Huntleigh	1022	324
Artech	61022	

RL1010 Potted and Unpotted Single Point

Aluminum, NTEP 1:5000 Class III Single Cell



Picture is a representation of actual product

SPECIFICATIONS:

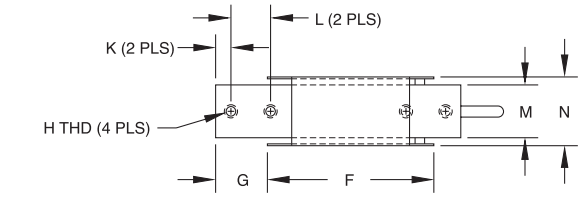
Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Anodized aluminum
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	200% at center of loading point, full scale
Rated Excitation:	10V DC (15V maximum)
Total Error:	.02% Full scale
Insulation Resistance:	5000 megohms
Deflection at Capacity:	3-90 kg ≤ .4 mm/.015"
Seal Type:	Potted & unpotted models available
Cable Length:	Potted 3.1 m/10', unpotted 0.9 m/3"
Cable Diameter:	.200/PVC jacket
Cable Color Code:	Green ..... + Excitation Black..... – Excitation Blue..... + Sense Brown..... – Sense Red..... + Signal White..... – Signal
Max Platform Size:	15.75" x 15.75"
Warranty:	Two-year limited warranty
Approvals:	

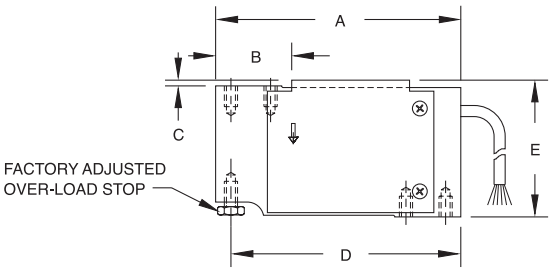
DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	H	K	L	M	N
kg/mm												
3-90	118.1	34.0	3.0	110.5	66.0	80.0	25.0	1/4-20 UNC X 13 DP	7.5	19.1	25.4	33.5
lb/inches												
6.6-198.4	4.65	1.34	.12	4.35	2.60	3.15	.98	1/4-20 UNC X 0.50 DP	.30	.75	1.00	1.32

RL1010 Order Information

Load Rating		Part #	Price
Non-NTEP, Potted			
7 kg	(15.4 lb)	17529	$195.00
10 kg	(22.1 lb)	17530	$195.00
15 kg	(33.1 lb)	17531	$195.00
20 kg	(44.1 lb)	17532	$195.00
30 kg	(66.1 lb)	17533	$195.00
50 kg	(110.2 lb)	17534	$195.00
90 kg	(198.4 lb)	17535	$195.00
Non-NTEP, Unpotted			
3 kg	(6.6 lb)	17527	$180.00
5 kg	(11.0 lb)	17528	$180.00
NTEP 1:5000, Potted			
10 kg	(22.1 lb)	50819	$195.00
15 kg	(33.1 lb)	50820	$195.00
20 kg	(44.1 lb)	50821	$195.00
30 kg	(66.1 lb)	50822	$195.00
50 kg	(110.2 lb)	50823	$195.00





Interchangeable Products

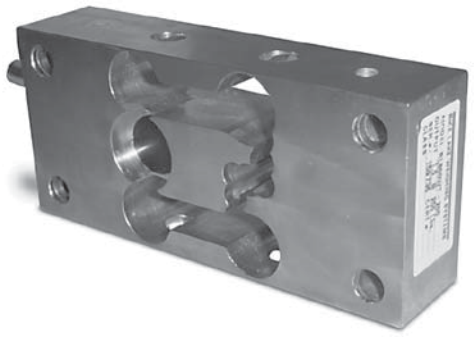
Manufacturer	Model	Page #
Vishay Tedea-Huntleigh	1010	325

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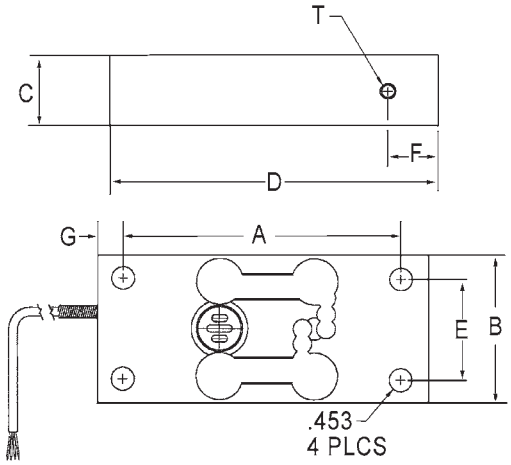
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RL800WT Single Point

Stainless Steel, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	1.0 mV/V
Bridge Resistance:	350 ohm, nominal w/voltage applied
Material/Finish:	Stainless Steel
Temperature:	Compensated range -0°F to 150ºF/-18ºC to -65ºC
Safe Overload:	200% Full scale
Rated Excitation:	10V DC (15V maximum)
Total Error:	0.02% Full scale
Hysteresis:	0.02% Full scale
Insulation Resistance:	5000 megohms
Seal Type:	Environmentally sealed, IP67
Cable Length:	10'/3.1 m
Cable Color Code:	Green ..... + Excitation Black..... – Excitation White..... + Signal Red..... – Signal Orange ..... Shield
Warranty:	Two-year limited warranty

DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	T
lb/inches								
25-50	5.50	2.90	.735	6.50	2.00	1.00	.50	5/16-18UNC x .50
100-250	5.50	2.90	1.460	6.50	2.00	1.00	.50	5/16-18UNC x .50
kg/mm								
13.6-22.7	165.1	73.6	18.7	139.7	50.8	11.5	12.7	-
45.4-90.7	165.1	73.6	37.1	139.7	50.8	11.5	12.7	-

RL800WT Order Information

Load Rating		Part #	Price
25 lb	(11.3 kg)	53295	$795.00
50 lb	(22.7 kg)	53296	$795.00
100 lb	(45.4 kg)	53297	$795.00
125 lb	(56.70 kg)	84821	$795.00
200 lb	(90.7 kg)	53298	$995.00
250 lb	(113.4 kg)	84822	$995.00

Interchangeable Products

Manufacturer	Model
Weigh-Tronix®	FLS

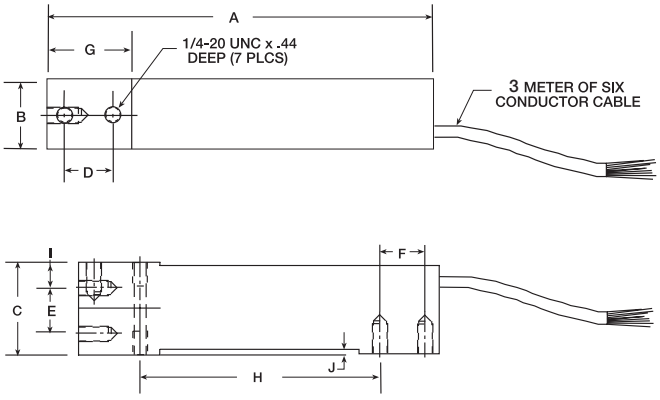
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RLSP4 Single Point

Aluminum, NTEP 1:5000 Class III Single Cell



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms nominal
Material/Finish:	Anodized Aluminum
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Rated Excitation:	10 DC (15V maximum)
Combined Error:	0.02% Full scale
Insulation Resistance:	5000 megohms
Deflection at Capacity:	5-100 kg ≤ 0.4 mm/.015"
Seal Type:	Environmentally sealed
Cable Length:	3.1 m/10'
Cable Diameter:	.19/PVC jacket
Cable Color Code:	Green ..... + Excitation Black ..... – Excitation Blue ..... + Sense Brown..... - Sense Red..... + Signal White..... – Signal Yellow..... Shield
Warranty:	Two-year limited warranty
Max Base Size:	3 kg - 10 kg (12" x 12") 15 kg - 30 kg (18" x 18") 50 kg - 100 kg (24" x 24")
Approvals:	

Dimensions

Rated Capacity	A	B	C	D	E	F	G	H	I	J
kg/mm										
3 kg-100	150.3	25.4	39.9	19.1	19.1	19.1	33.8	99.6	11.4	2.4
lb/inches										
6.6-220.5	5.92	1.0	1.57	.75	.75	.75	1.33	3.92	.45	.093

RLSP4 Order Information

Load Rating		Part #	Price
*3 kg	(6.6 lb)	91723	$180.00
*5 kg	(11.0 lb)	91724	$180.00
7 kg	(15.4 lb)	91725	$180.00
10 kg	(22.1 lb)	91726	$180.00
15 kg	(33.1 lb)	91727	$180.00
20 kg	(44.1 lb)	91728	$180.00
30 kg	(66.2 lb)	91729	$180.00
50 kg	(110.3 lb)	91730	$180.00
75 kg	(165.3 lb)	91731	$180.00
100 kg	(220.5 lb)	91732	$180.00

**Non NTEP*

Interchangeable Products

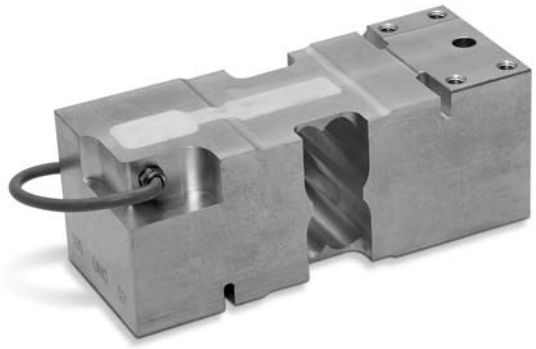
Manufacturer	Model	Page #
HBM	SP4	238
Vishay Revere Transducers	642	279
Vishay Tedea-Huntleigh	1042	327
Rice Lake	RL1042	157

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RLPWM12 Single Point

Aluminum, IP67, NTEP 1:5000 Class III Single Cell



Picture is a representation of actual product

SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Aluminum
Temperature:	Compensated temperature range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Rated Excitation:	10V DC (15V maximum)
Total Error:	0.02% Full scale
Insulation Resistance:	1000 megohms
Seal Type:	Environmentally sealed, IP67
Cable Length:	3.1 m/10'
Cable Diameter:	.190/PVC jacket
Cable Color Code:	Green ..... + Excitation Black..... – Excitation Blue..... + Sense Brown..... – Sense Red..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Max Base Size:	30"x30"
Approvals:	

DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	H	i	j	k	L
kg/mm												
50-1000	40	16	75	1.5	76	60	44	25	125	191	25	8
lb/inches												
110.2-2205.0	1.57	.62	2.95	.05	2.99	2.36	1.73	.98	4.92	7.51	.98	.31

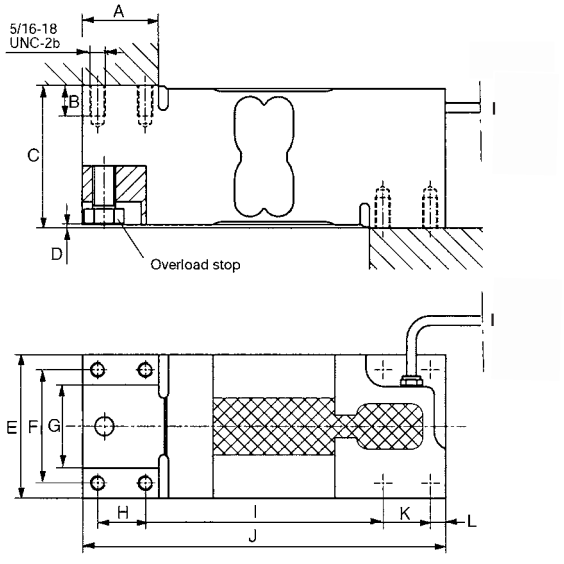
RLPWM12 Order Information

Load Rating		Part #	Price
50 kg	(110.2 lb)	91674	$275.00
75 kg	(165.4 lb)	91675	$275.00
100 kg	(220.5 lb)	91676	$275.00
150 kg	(330.7 lb)	91677	$275.00
200 kg	(440.9 lb)	91678	$275.00
250 kg	(551.2 lb)	91679	$275.00
300 kg	(661.4 lb)	91680	$275.00
500 kg	(1102.3 lb)	91681	$275.00
635 kg	(1400.1 lb)	91682	$275.00
1000 kg	(2205.0 lb)	91683	$315.00

Interchangeable Products

Manufacturer	Model	Page #
*HBM	PW12	240
Vishay Tedea-Huntleigh	1250	337
Rice Lake	RL 1250	

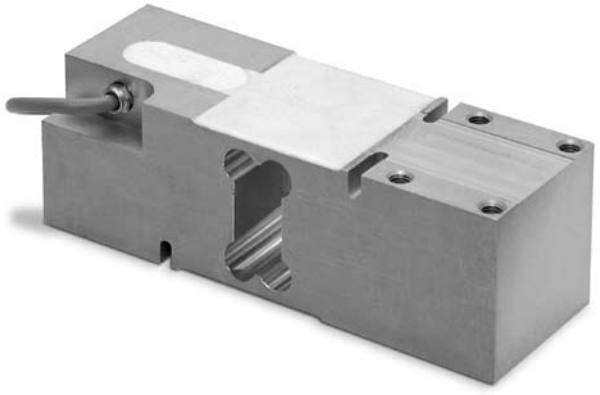
**Color code is different*



Load Cells

RLPWM16 Single Point

Aluminum, NTEP 1:5000 Class III Single Cell, IP67



Picture is a representation of actual product

SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Aluminum
Temperature:	Compensated temperature range 14°F to 104°F/-10°C to 140°C
Safe Overload:	150% Full scale
Rated Excitation:	10V DC (15V maximum)
Total Error:	0.02% Full scale
Insulation Resistance:	1000 megohms
Seal Type:	Environmentally sealed, IP67
Cable Length:	3.1 m/10'
Cable Diameter:	.190/PVC jacket
Max Base:	24" x 24"
Cable Color Code:	Green ..... + Excitation Black..... – Excitation Blue..... + Sense Brown..... – Sense Red..... + Signal White..... – Signal
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	H	I	J	K	L	M
kg/mm													
50-660	52	16	62.3	52	16	52.3	63	50	35	107	35	5.5	188
lb/inches													
110.2-1455.5	2.04	.62	2.45	2.04	.62	2.05	2.48	1.96	1.37	4.21	1.37	.21	7.40

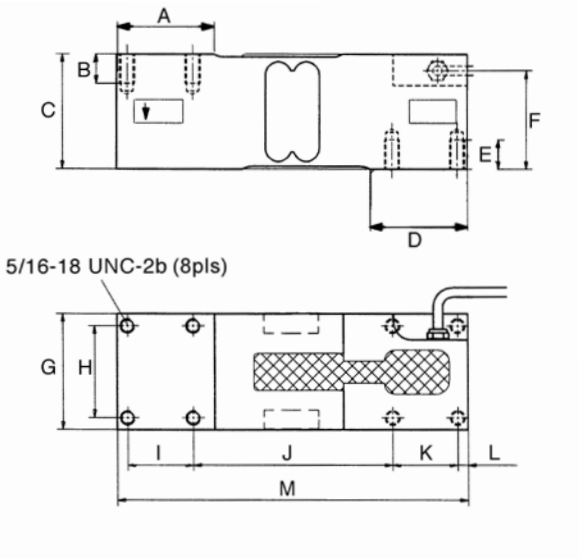
RLPW16 Order Information

Load Rating		Part #	Price
50 kg	(110.2 lb)	91684	$250.00
75 kg	(165.4 lb)	91686	$250.00
100 kg	(220.5 lb)	91687	$250.00
150 kg	(330.7 lb)	91688	$250.00
200 kg	(440.9 lb)	91689	$250.00
250 kg	(551.2 lb)	91690	$250.00
300 kg	(661.4 lb)	91691	$250.00
500 kg	(1102.3 lb)	91692	$250.00
635 kg	(1455.5 lb)	91693	$250.00

Interchangeable Products

Manufacturer	Model	Page #
*HBM	PW16	242
Vishay Tedea-Huntleigh	1260	335
Rice Lake	RL 1260	161

** Color code is different*



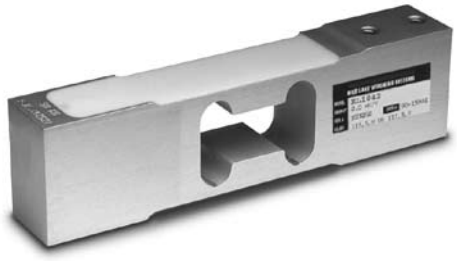
Load Cells

RICE LAKE WEIGHING SYSTEMS

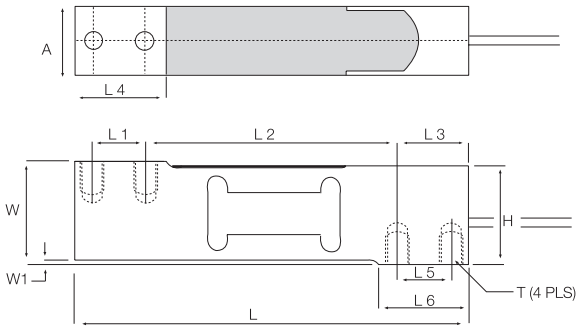
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RL1042 Single Point

Aluminum, NTEP 1:5000 Class III Single Cell



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Aluminum
Temperature:	Compensated temperature range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Rated Excitation:	10V DC (15V maximum)
Total Error:	0.02% Full scale
Deflection at Capacity:	1-100 kg ≤ .4mm/.015"
Insulation Resistance:	5000 megohms
Seal Type:	Environmentally sealed
Cable Length:	3.1 m/10'
Cable Diameter:	.20/PVC jacket
Cable Color Code:	Green ..... + Excitation Black..... – Excitation Blue..... + Sense Brown..... – Sense Red..... + Signal White..... – Signal
Max Platform Size:	16' x 16'
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A	H	L	L1	l2	l3	L4	L5	l6	W	W1	T
kg/mm												
1-30	20.0	39	150.0	19.0	100.0	25.0	34.0	19.0	34.0	40.0	1.0	1/4-20 UNC-2B
50-100	25.2	39	150.0	19.0	100.0	25.0	34.0	19.0	34.0	40.0	1.0	1/4-20 UNC-2B
lb/inches												
2.2-66.1	.787	1.54	5.91	.75	3.937	.984	1.339	.75	1.339	1.575	.040	1/4-20 UNC-2B
110.2-220.5	.992	1.54	5.91	.75	3.937	.984	1.339	.75	1.339	1.575	.040	1/4-20 UNC-2B

RL1042 Order Information

Load Rating		Part #	Price
1 kg	(2.2 lb)	40955	$180.00
3 kg	(6.6 lb)	40956	$180.00
5 kg	(11.0 lb)	40957	$180.00
10 kg	(22.0 lb)	40958	$180.00
15 kg	(33.1 lb)	40959	$180.00
20 kg	(44.1 lb)	40960	$180.00
30 kg	(66.1 lb)	40961	$180.00
50 kg	(110.2 lb)	40962	$180.00
75 kg	(165.4 lb)	40963	$180.00
100 kg	(220.5 lb)	40964	$180.00

Interchangeable Products

Manufacturer	Model	Page #
Vishay Tedea-Huntleigh	1042	327
Vishay Revere Transducers	642	279
HBM	SP4	238
Flintec	PC 42	

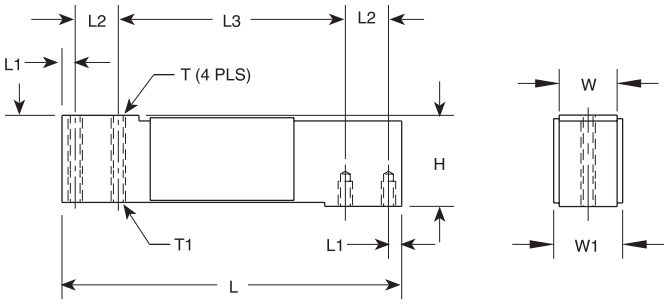
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RL1040 Potted and Unpotted Single Point

Aluminum, NTEP 1:5000 Class III Single Cell



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Anodized aluminum
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	200% at center loading point, full scale
Rated Excitation:	10V DC (15V maximum)
Total Error:	.02% Full scale
Insulation Resistance:	5000 megohms
Deflection at Capacity:	3-100 kg ≤ .4mm/.015"
Seal Type:	Environmentally sealed, potted & unpotted models
Cable Length:	3.1 m/10'
Cable Diameter:	.20/PVC jacket
Cable Color Code:	Green ..... + Excitation Black..... – Excitation Blue..... + Sense Brown..... – Sense Red..... + Signal White..... – Signal
Max Platform Size:	16" x 16"
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	H	L	L1	L2	L3	T	T1	W	W1
kg/mm									
3-100	40.0	150.0	5.95	19.05	100.0	1/4-20 UNC X 10 DP	1/4-28 UNF X 10 DP	25.4	29.4
lb/inches									
6.6-220.5	1.57	5.91	.23	.75	3.94	1/4-20 UNC X 0.39 DP	1/4-28 UNF X 0.39 DP	1.00	1.16

RL1040 Order Information

Load Rating		Part #	Price
NTEP 1:5000, Potted			
7 kg	(15.4 lb)	32860	$195.00
10 kg	(22.1 lb)	32861	$195.00
15 kg	(33.1 lb)	32862	$195.00
20 kg	(44.1 lb)	32863	$195.00
30 kg	(66.1 lb)	32864	$195.00
50 kg	(110.2 lb)	32865	$195.00
100 kg	(220.5 lb)	32866	$195.00
NTEP 1:5000, Unpotted			
5 kg	(11.0 lb)	32859	$190.00

Interchangeable Products

Manufacturer	Model	Page #
Vishay Celtron	LOC	195
Vishay Tedea-Huntleigh	1040	329

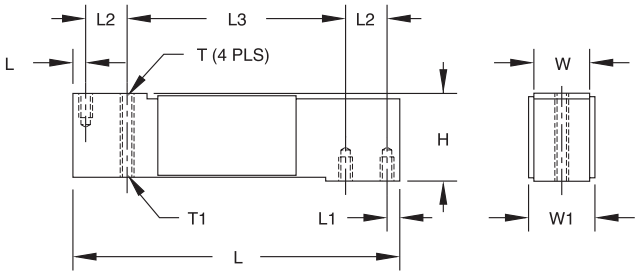
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RL1140 Potted Single Point

Stainless Steel



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	200% at center loading point, full scale
Rated Excitation:	10V DC (15V maximum)
Total Error:	.02% Full scale
Insulation Resistance:	5000 megohms
Deflection at Capacity:	15-150 kg ≤ .4mm/.015"
Seal Type:	Environmentally sealed, potted
Cable Length:	3.1 m/10'
Cable Diameter:	.20/PVC jacket
Cable Color Code:	Green ..... + Excitation Black ..... – Excitation Blue..... + Sense Brown..... – Sense Red..... + Signal White..... – Signal
Max Platform Size:	16" x 16"
Warranty:	Two-year limited warranty
Approvals:	FM APPROVED

DIMENSIONS

Rated Capacity	H	L	L1	L2	L3	T	T1	W	W1
kg/mm									
15-150	40.0	150.0	5.95	19.05	100.0	1/4-20 UNC X 10 DP	1/4-28 UNF X 10 DP	25.4	29.4
lb/inches									
33.1-330.7	1.57	5.91	.23	.75	3.94	1/4-20 UNC X 0.39 DP	1/4-28 UNF X 0.39 DP	1.00	1.16

RL1140 Order Information

Load Rating		Part #	Price
15 kg	(33.1 lb)	17544	$320.00
30 kg	(66.1 lb)	17545	$320.00
50 kg	(110.2 lb)	17546	$320.00
75 kg	(165.4 lb)	17547	$320.00
100 kg	(220.5 lb)	17548	$320.00
150 kg	(330.7 lb)	36467	$320.00

Interchangeable Products

Manufacturer	Model	Page #
Vishay Tedea-Huntleigh	1140	331

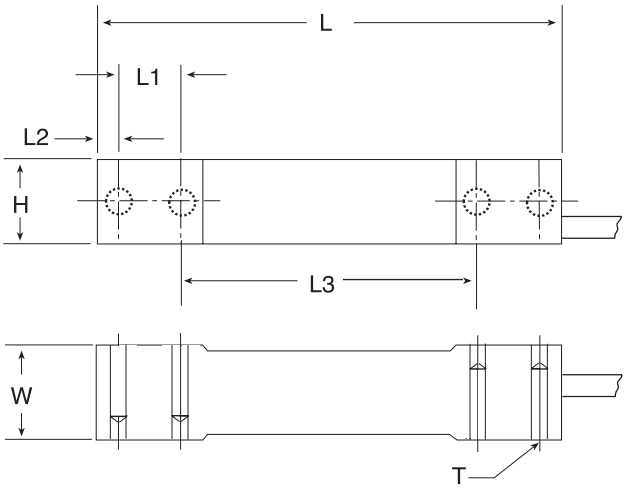
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RL1380 Single Point

Stainless Steel, NTEP 1:3000 Class III Single Cell, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms
Material/Finish:	Stainless steel
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	150% Full scale
Rated Excitation:	10V DC (15V maximum)
Combined Error:	0.03% Full scale
Insulation Resistance:	1000 megohms
Seal Type:	Environmentally sealed, IP67
Cable Length:	3.1 m/10'
Cable Diameter:	.190 polyurethane jacket
Cable Color Code:	Green ..... + Excitation Black..... – Excitation White..... + Signal Red..... – Signal Yellow..... Shield
Max Platform Size:	15.75" x 15.75"
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	H	L	L1	L2	L3	T	W
kg/mm							
7-15	19.1	139.7	19.1	6.4	88.9	1/4-20 UNC	30.2
30-60	23.9	139.7	19.1	6.4	88.9	1/4-20 UNC	30.2
lb/inches							
15.4-33.1	.75	5.50	.75	.25	3.50	1/4-20 UNC	1.19
66.1-132.3	.94	5.50	.75	.25	3.50	1/4-20 UNC	1.19

RL1380 Order Information

Load Rating		Part #	Price
7 kg	(15.4 lb)	30783	$295.00
10 kg	(22.0 lb)	30782	$295.00
15 kg	(33.1 lb)	30781	$295.00
30 kg	(66.1 lb)	30780	$295.00
60 kg	(132.3 lb)	30779	$295.00

Interchangeable Products

Manufacturer	Model	Page #
HBM	PWS	244

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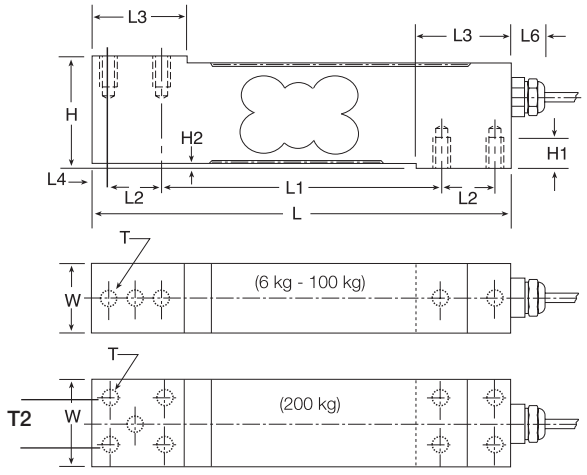
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RL1385 Single-Point

Stainless Steel, NTEP 1:3000 Class III Single Cell, IP67



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	200% Full scale
Rated Excitation:	5V DC (15V maximum)
Combined Error:	0.02% Full scale
Insulation Resistance:	5000 megohms
Seal Type:	Environmentally sealed, IP67
Cable Length:	3.1 m/10'
Cable Diameter:	.196 Polyurethane Jacket
Cable Color Code:	Green ..... + Excitation Black..... – Excitation White..... + Signal Red..... – Signal Yellow..... Shield
Max Platform Size:	18' x 18'
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	H	H1	H2	L	L1	L2	L3	L4	L5	L6	W	T	T2
kg/mm													
10-100	40.0	10.0	1.5	150.0	100.0	19.0	32.0	6.0	15.5	20.0	25.4	1/4-20 X 19.1 DP	N/A
200	40.0	10.0	1.5	150.0	100.0	19.0	32.0	6.0	15.5	20.0	38.1	1/4-20 X 19.1 DP	25.4
lb/inches													
13.2-220.5	1.57	.40	.06	5.90	3.93	.75	1.26	.24	.61	.79	1.00	1/4-20 X .75 DP	N/A
441.0	1.57	.40	.06	5.90	3.93	.75	1.26	.24	.61	.79	1.50	1/4-20 X .75 DP	1.00

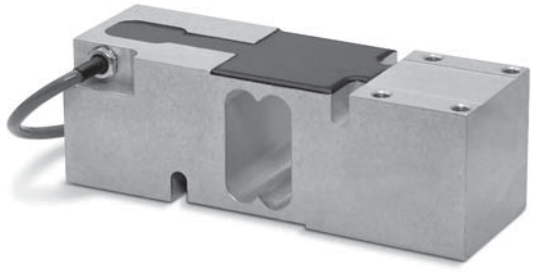
RL1385 Order Information

Load Rating		Part #	Price
10 kg	(22.0 lb)	41405	$295.00
15 kg	(33.1 lb)	41233	$295.00
30 kg	(66.1 lb)	41234	$295.00
50 kg	(110.2 lb)	41235	$295.00
75 kg	(165.4 lb)	41236	$295.00
100 kg	(220.5 lb)	41237	$295.00
200 kg	(441.0 lb)	41406	$440.00

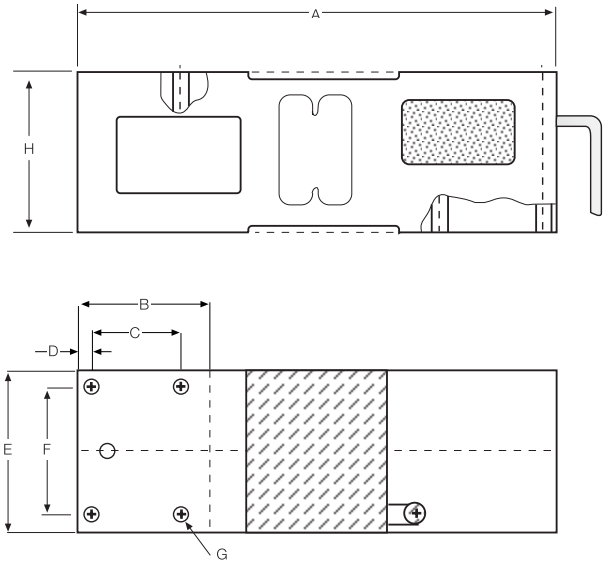
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RL1260 Single Point

Aluminum, NTEP 1:5000 Class III Single Cell



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Anodized aluminum
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	200% of full scale at center loading point
Rated Excitation:	10V DC (15V maximum)
Total Error:	0.02% Full scale
Insulation Resistance:	5000 megohms
Seal Type:	Environmentally sealed
Cable Length:	3.1 m/10'
Cable Diameter:	.220 polyurethane jacket
Cable Color Code:	Green ..... + Excitation Black..... – Excitation Blue..... + Sense Brown..... – Sense Red..... + Signal White..... – Signal
Max Platform Size:	24' x 24'
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	H
kg/mm								
50-635	188	52	35	5.5	63.5	50	5/16-18 UNC-2B	62.3
lb/inches								
110.2-1400.2	7.40	2.05	1.38	.22	2.49	1.97	5/16-18 UNC-2B	2.45

RL1260 Order Information

Load Rating		Part #	Price
50 kg	(110.2 lb)	41020	$310.00
75 kg	(165.4 lb)	41021	$310.00
100 kg	(220.5 lb)	41022	$310.00
200 kg	(440.9 lb)	41023	$310.00
250 kg	(551.2 lb)	41024	$310.00
300 kg	(661.4 lb)	41025	$310.00
500 kg	(1102.3 lb)	41026	$310.00
635 kg	(1400 lb)	41027	$310.00

Interchangeable Products

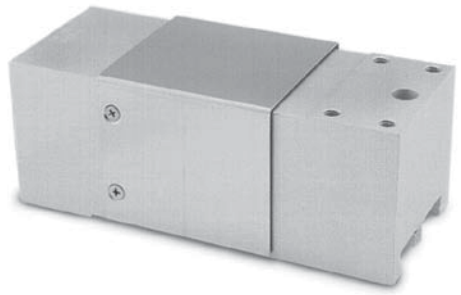
Manufacturer	Model	Page #
Vishay Tedea-Huntleigh	1260	335
HBM	PW16	242
Rice Lake	RLPWM16	156

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RL1250 Potted Single Point

Aluminum, NTEP 1:5000 Class III Single Cell



Picture is a representation of actual product

SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Anodized aluminum
Temperature:	Compensated range 14°F to 104°F/-10°C to 40°C
Safe Overload:	200% of full scale at center loading point
Rated Excitation:	10V AC/DC (15V maximum)
Total Error:	.02% Full scale
Insulation Resistance:	5000 megohms
Deflection at Capacity:	50-1000 kg ≤ .4mm/.015"
Seal Type:	Environmentally sealed, potted
Cable Length:	3.1 m/10'
Cable Diameter:	.220 polyurethane jacket
Cable Color Code:	Green ..... + Excitation Black ..... – Excitation Blue..... + Sense Brown..... – Sense Red..... + Signal White..... – Signal
Max Platform Size:	24' x 24'
Warranty:	Two-year limited warranty
Approvals:	

DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	H	J	K	L	M	N	P
kg/mm														
50-1000	191.0	7.8	25.0	125.0	25.0	7.5	60.0	75.0	82.0	75.0	1.5	57.5	85.0	5/16-18UNC X 15 DP
lb/inches														
110.2-1400.2	7.52	.31	.98	4.92	.98	.30	2.36	2.95	3.23	2.95	.06	2.26	3.35	5/16-18UNC X 0.59 DP

RL1250 Order Information

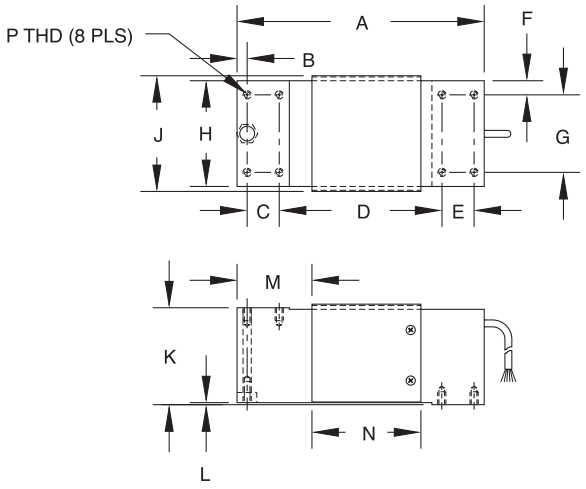
Load Rating		Part #	Price
NTEP 1:5000			
50 kg	(110.2 lb)	32849	$315.00
75 kg	(165.4 lb)	32856	$315.00
100 kg	(220.5 lb)	32855	$315.00
150 kg	(330.7 lb)	32854	$315.00
200 kg	(440.9 lb)	32853	$315.00
250 kg	(551.2 lb)	32852	$315.00
300 kg	(661.4 lb)	32851	$315.00
500 kg	(1102.3 lb)	32850	$315.00
635 kg	(1400 lb)	32857	$315.00
1000 kg	(2205 lb)	32858	$315.00

Interchangeable Products

Manufacturer	Model	Page #
Vishay Revere Transducers	652	280
Vishay Tedea-Huntleigh	1250	337
Vishay Celtron	LOC	195
Flintec	PCB*	214
HBM	PW12	240
Rice Lake	RLPWM12	155

** Stainless steel, Hermetically sealed*

Shim plate-part number 22264



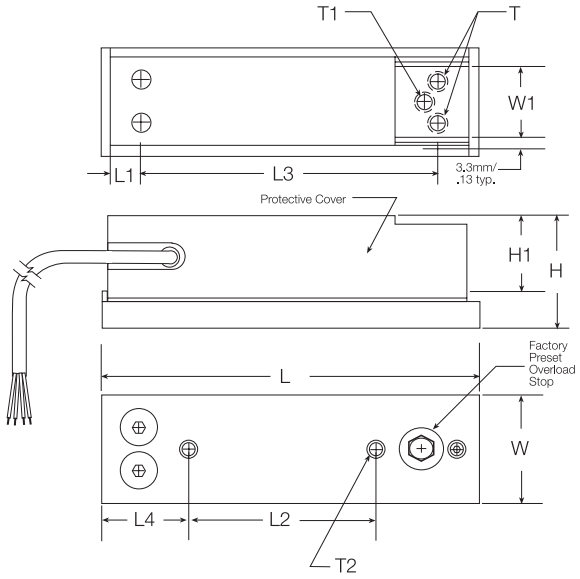
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RLMK21 Single Point

Stainless Steel



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms
Material/Finish:	Stainless steel
Temperature:	Compensated range 0°F to 150°F/-18°C to 65°C
Safe Overload:	500% Full scale
Rated Excitation:	10V DC
Nonlinearity:	0.02% Full scale
Hysteresis:	0.03% Full scale
Insulation Resistance:	>2000 megohms
Seal Type:	Environmentally sealed
Cable Length:	3.1 m/10'
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal Orange ..... Shield
Warranty:	Two-year limited warranty

DIMENSIONS

Rated Capacity	H	H1	L	L1	L2	L3	L4	T	T1	T2	W	W1
kg/mm												
4.5-50	38.1	25.4	133.4	11.2	66.8	104.9	30.5	1/4-20 UNF 2B Thd x 12.7 Min. DP.	1/4-28 UNF 2B Thru 6.7 DIA. x 10.2 DP	1/4-28 UNF Thd.	38.1	25.4
lb/inches												
9.9-110.3	1.50	1.00	5.25	.44	2.63	4.13	1.20	1/4-20 UNF 2B Thd x .50 Min. DP.	1/4-28 UNF 2B Thru .265 DIA x .4 DP	1/4-28 UNF Thd.	1.50	1.00

RLMK21 Order Information

Load Rating		Part #	Price
4.5 kg	(9.9 lb)	33296	$695.00
7.5 kg	(16.5 lb)	33297	$695.00
18 kg	(39.7 lb)	33298	$695.00
35 kg	(77.2 lb)	33299	$695.00
50 kg	(110.3 lb)	47951	$695.00

Interchangeable Products

Manufacturer	Model
NCI/Weigh-Tronix®	3270 Series Checkweigher

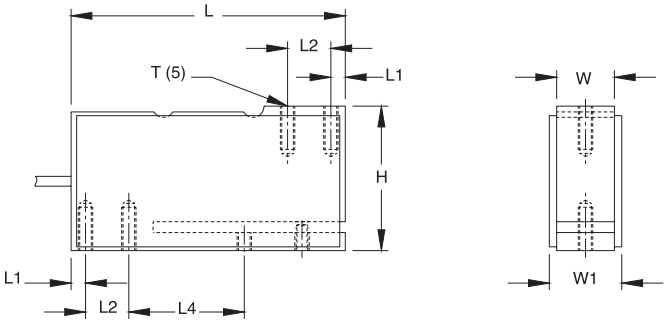
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RLMK4 Single Point

Stainless Steel



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	2.0 mV/V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Alloy steel or Stainless steel
Temperature:	Compensated range 0°F to 150°F/-18°C to 65°C
Safe Overload:	500% Full scale
Rated Excitation:	10V DC (15V maximum)
Total Error:	.03% Full scale
Seal Type:	Environmentally sealed
Insulation Resistance:	1000 megohms
Cable Length:	10'/3.1 m
Cable Color Code:	Red..... + Excitation Black..... – Excitation White..... + Signal* Green ..... – Signal* Orange ..... Shield *** Cell is wired for negative reading**
Warranty:	Two-year limited warranty
Approvals:	FM APPROVED

DIMENSIONS

Rated Capacity	H	L	L1	L2	L4	T	W	W1
lb/inches								
10-100	2.50	4.75	.25	.75	2.00	1/4-20 X 0.50 DP	1.00	1.26
kg/mm								
4.5-45.3	63.5	120.7	6.4	19.1	0.08	1/4-20 X 12.7 DP	25.4	31.9

RLMK4 ORDER INFORMATION

Load Rating		Part #	Price
Stainless steel			
10 lb	(4.5 kg)	25375	$695.00
15 lb	(6.8 kg)	25376	$695.00
25 lb	(11.3 kg)	25377	$695.00
30 lb	(13.6 kg)	25378	$695.00
50 lb	(22.7 kg)	25379	$695.00
100 lb	(45.3 kg)	25380	$695.00

Interchangeable Products

Manufacturer	Model
NCI/Weigh-Tronix®	Mark IV
Artech	SS61010

RLMK1 Single Point

Alloy Steel



Picture is a representation of actual product

SPECIFICATIONS:

Full Scale Output:	2.0 mV/ V
Bridge Resistance:	350 ohms, nominal
Material/Finish:	High-alloy steel, nickel plated
Temperature:	Compensated range 0°F to 150°F/-18°C to 65°C
Safe Overload:	180% Full scale
Rated Excitation:	10V DC (15V maximum)
Nonlinearity:	0.02% Full scale
Hysteresis:	0.05% Full scale
Insulation Resistance:	1000 megohms
Seal Type:	Environmentally sealed
Cable Length:	25'/7.6 m
Cable Color Code:	Red..... + Excitation Black..... – Excitation White..... + Signal Green ..... – Signal Yellow..... + Sense Blue..... – Sense Orange ..... Shield
Warranty:	Two-year limited warranty
Approvals:	FM APPROVED

DIMENSIONS

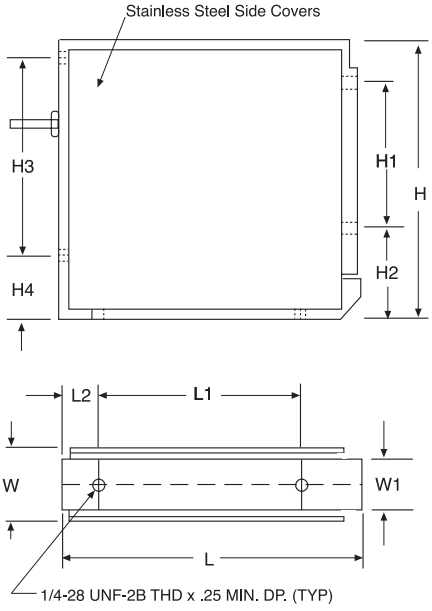
Rated Capacity	H	H1	H2	H3	H4	L	L1	L2	W	W1
lb/inches										
50-3000	5.3	2.75	1.72	3.74	1.22	5.9	4.00	.70	1.29	.89
kg/mm										
22.7-1360.8	134.6	69.9	43.7	95.0	31.0	149.9	101.6	17.8	32.8	22.6

RLMK1 Order Information

Load Rating		Part #	Price
50 lb	(22.7 kg)	26226	$860.00
100 lb	(45.3 kg)	26227	$860.00
200 lb	(90.7 kg)	26228	$860.00
500 lb	(226.8 kg)	26229	$995.00
1000 lb	(453.6 kg)	26230	$995.00
2000 lb	(907.2 kg)	26231	$995.00
3000 lb	(1360.8 kg)	26232	$995.00

Interchangeable Products

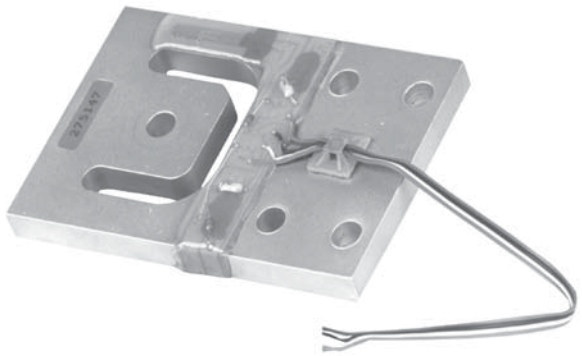
Manufacturer	Model
NCI/Weigh-Tronix®	Mark I



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RLBLP Planar Beam



SPECIFICATIONS:

Full Scale Output:	1 mV/V
Bridge Resistance:	350 ohms
Material/Finish:	Aluminum
Temperature:	0°F to 150°F/-18°C to 65°C
Safe Overload:	150% Full scale
Rated Excitation:	5-15 VDC
Combined Error:	0.05% Full scale
Seal Type:	Environmentally sealed, IP65
Insulation Resistance:	5000 megohms
Cable Length:	1.0 m 3.75/7.5/15 kg 1.5 m 37.5/75/150/375 kg
Cable Color Code:	Green ..... + Excitation Black ..... – Excitation White..... + Signal Red..... – Signal
Warranty:	Two-year limited warranty

DIMENSIONS

Type	L1	L2	L3	L4	L5	W1	W2	H1	H2 (min)	D1	D2	Deflection (mm) at E max
PB-3.75 kg-RS	70	4.9	14	28	23.7	39	27.8	2	3	5.1	5.1	0.46
PB-7.5 kg-RS	70	4.9	14	28	23.7	39	27.8	2.5	3	5.1	5.1	0.40
PB-15 kg-RS	70	4.9	14	28	23.7	39	27.8	4.1	4.5	7.6	5.1	0.27
PB-37.5 kg-RS	76.2	6	15	29.3	27	44.5	30	4.8	5	7.6	6.6	0.36
PB-75 kg-RS	84.4	6.4	15	34	27.7	54.8	30	6.4	5	7.6	6.6	0.35
PB-150 kg-RS	107.3	7.8	22.9	45.9	38.4	69.9	44.5	7.9	6	9.1	8.1	0.56

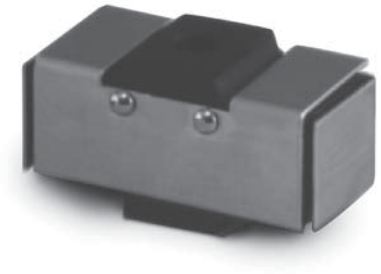
RLBLP Order Information

Load Rating	Part #	Price
Stainless steel		
15 kg	100272	$80.00
37.5 kg	104645	$85.00
75 kg	100273	$90.00
150 kg	100274	$95.00

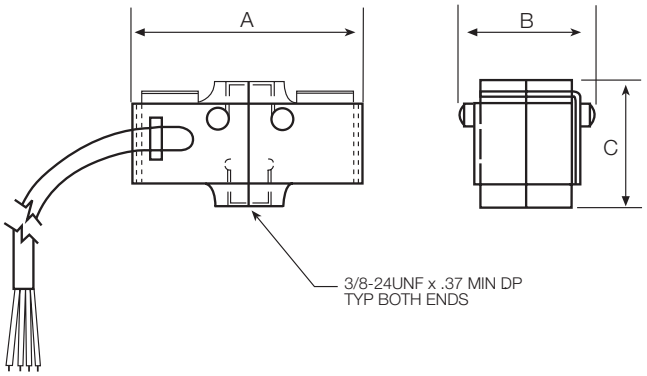
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RLS3030 Low-Profile Load Sensor

Aluminum, Tension and Compression



Picture is a representation of actual product



SPECIFICATIONS:

Full Scale Output:	1.5-2.0 mV/V nominal
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Black anodized aluminum
Temperature:	Compensated range 0°F to 150°F/-18°C to 65°C
Safe Overload:	150% Full scale
Rated Excitation:	1-10V DC
Nonlinearity:	0.05% Full scale
Hysteresis:	0.05% Full scale
Seal Type:	Environmentally sealed
Cable Length:	18"/.45 m
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	One-year limited warranty

DIMENSIONS

Rated Capacity	A	B	C
lb/inches			
2-300	1.86	1.05	1.0
kg/mm			
0.9-136.0	47.2	26.6	25.4

RLS3030 Order Information

Load Rating		Part #	Price
2 lb	(0.9 kg)	42545	$425.00
10 lb	(4.5 kg)	42546	$425.00
25 lb	(11.3 kg)	42547	$525.00
50 lb	(22.6 kg)	42548	$525.00
100 lb	(45.3 kg)	42549	$525.00
150 lb	(68.0 kg)	42550	$525.00
200 lb	(90.7 kg)	42551	$525.00
250 lb	(113.4 kg)	42552	$525.00
300 lb	(136.0 kg)	42553	$525.00

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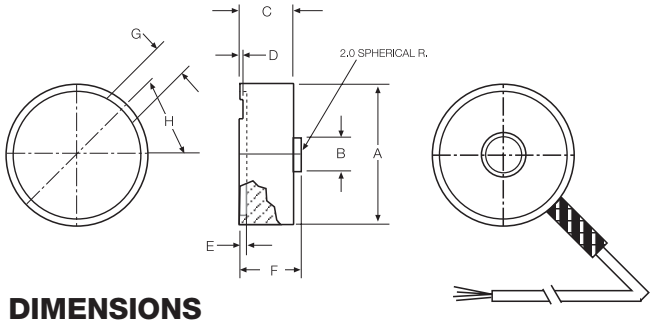
RLS1000 Button Sensor

Stainless Steel



Picture is a representation of actual product

RLS1000 only



SPECIFICATIONS:

Full Scale Output:	3.0 mV/V nominal
Bridge Resistance:	350 ohms, nominal
Material/Finish:	Stainless steel
Temperature:	Compensated range 0°F to 150°F/-18°C to 65°C
Safe Overload:	200% Full scale
Rated Excitation:	15V DC
Nonlinearity:	0.05% Full scale
Hysteresis:	0.05% Full scale
Seal Type:	Environmentally sealed
Cable Length:	10'/.45 m
Cable Color Code:	Red..... + Excitation Black..... – Excitation Green ..... + Signal White..... – Signal
Warranty:	One-year limited warranty
Approvals:	FM APPROVED

DIMENSIONS

Rated Capacity	A	B	C	D	E	F	G	H
RLS1000								
lb/inches								
500-5000	1.25	.30	.485	.032	.062	.52	.312	45°
kg/mm								
226.8-2268.0	31.7	7.6	12.3	.812	1.5	13.2	7.9	45°

RLS1000 Order Information

Load Rating		Part #	Price
500 lb	(226.8 kg)	42150	$495.00
1000 lb	(453.6 kg)	42151	$495.00
2000 lb	(907.2 kg)	42152	$495.00
3000 lb	(1360.8 kg)	42153	$495.00
4000 lb	(1814.4 kg)	42154	$495.00
5000 lb	(2268.0 kg)	42155	$495.00

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Notes

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NEW RL-440HH



Model RL-440HH

STANDARD FEATURES

- Weigh in pounds, kilograms or stones
- Easy to read 1.5 inch LCD display
- Durable platform with non-slip surface
- Auto holds weight value on display
- Lithium battery included
- Tap to turn on, automatic switch off

SPECIFICATIONS

CAPACITY:
440 lb x 0.2 lb (200 kg x 0.1 kg)
1st - 10 st x 0.5 lb; 10 st - 31st x 1.0 lb
st = stone

PLATFORM DIMENSIONS:
13.7 in (L) x 12.9 in (W) x 2 in (H)

WARRANTY:
One-year limited warranty

PART #	MODEL	CAPACITY	EST. SHIP WEIGHT	PRICE
112566	RL-440HH	440 lb x 0.2 lb (200 kg x 0.1 kg) 1st - 10 st x 0.5 lb; 10 st - 31st x 1.0 lb	4.0 lb	$58.00

NEW RL-330HHL/RL-330HHD



Model RL-330HHL



Model RL-330HHD

STANDARD FEATURES

- Easy to read 7 7/8 inch diameter dial
- Colorful markers for record purpose
- Durable steel base and platform
- Non-slip mat

SPECIFICATIONS

CAPACITY:
330 lb x 1 lb (RL-330HHL)
330 lb (150 kg) x 1 lb (0.5 kg) (RL-330HHD)

PLATFORM DIMENSIONS:
16.93 in (L) x 11.22 in (W) x 3.3 in (H)

WARRANTY:
One-year limited warranty

PART #	MODEL	CAPACITY	EST. SHIP WEIGHT	PRICE
110592	RL-330HHL	330 lb x 1 lb	9.0 lb	$58.00
113500	RL-330HHD	330 lb (150 kg) x 1 lb (0.5 kg)	9.0 lb	58.00

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Mechanical Physician Scale



Model RL-MPS

STANDARD FEATURES

- Dual read capacity and height rod
- Capacity: 440 lb x 4 oz (200 kg x 100 g)
- 10.75 in x 14.75 in Platform
- Sturdy enameled steel body
- Die cast beam
- Rugged scale understructure
- Removable slip-resistant plastic base cover
- Retractable aluminum height rod
- Easy operation with two sliding weights
- Rear wheels for ease of portability

SPECIFICATIONS

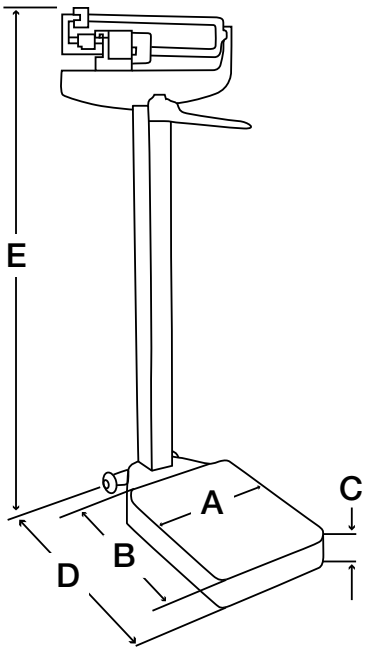
HEIGHT ROD:
24-84 in (60-210 cm)

HEIGHT DIVISION:
0.125 in (0.1 cm)

WARRANTY:
Two-year limited warranty

PART #	MODEL	CAPACITY	EST. SHIP WEIGHT	PRICE
102613	RL-MPS	440 lb (200 kg) x 4 oz (100 g)	43 lb	$280.00

DIMENSIONS			
A	10.75 in (27.3 cm)	**D**	22.25 in (56.5 cm)
B	14.75 in (37.5 cm)	**E**	58.5 in (148.6 cm)
C	4.125 in (10.5 cm)		



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Digital Physician Scales



Eye Level
Model 140-10-5



Waist Level
Model 140-10-6



Floor Level
Model 140-10-7

STANDARD FEATURES

- Capacity: 550lb x 0.2lb (250kg x 0.1kg)
- Platform Dimensions: 14in x 14.5in x 3in (355.6mm x 368.3mm x 76.2mm)
- Motiontrap™ (movement compensation technology)
- Large 1in LCD display
- AC adaptor and internal rechargeable battery
- Low battery indication/automatic power-off
- BMI (body mass index) function
- Reweigh function
- Hold function
- Unit of measure: lb only, kg only, lb/kg
- RS-232 output
- Updatable firmware

Eye-Level Physician Scale (Model 140-10-5)

- Height measuring rod measures from 35in to 82in x 1/8in (90cm to 209cm x 1mm)
- Integrated wheels for ease of portability

Waist-Level Physician Scale (Model 140-10-6)

- Integrated wheels for ease of portability

Floor-Level Physician Scale (Model 140-10-7)

- 6.5ft cable between scale base and indicator



Transport/Carrying Case for Floor Level Scale

APPROVALS

CE

Motiontrap™

SPECIFICATIONS

POWER:
9VDC, provided by AC adaptor or internal rechargeable battery

BATTERY TYPE:
Sealed lead acid

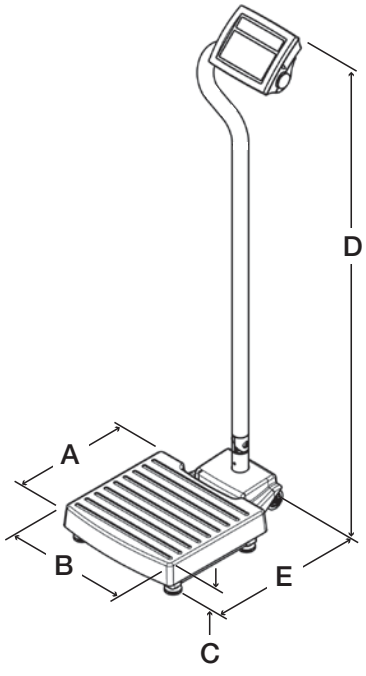
BATTERY USE:
75 hours
Automatic power-off can be configured from 0-20 minutes

OPERATING TEMPERATURE:
50°F to 104°F (14°C to 40°C)

APPROVALS:
CE

WARRANTY:
Two-year limited warranty

DIMENSIONS			
Eye Level			
A	14in	**D**	54.45in
B	14.5in	**E**	20.5in
C	3in		
Waist Level			
A	14in	**D**	50.5in
B	14.5in	**E**	20.5n
C	3in		
Floor Level			
A	14in	**D**	N/A
B	14.5in	**E**	N/A
C	3in		



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Digital Physician Scales

PART #	MODEL	CAPACITY	EST. SHIP WEIGHT	PRICE
Eye-Level Physician Scale				
100124	140-10-5	550 lb (250 kg) x 0.2 lb (0.1 kg) includes 120 VAC adaptor	37 lb	$525.00
100127	140-10-5	550 lb (250 kg) x 0.2 lb (0.1 kg) includes 230 VAC adaptor	37 lb	525.00
Waist-Level Physician Scale				
100189	140-10-6	550 lb (250 kg) x 0.2 lb (0.1 kg) includes 120 VAC adaptor	33 lb	490.00
100191	140-10-6	550 lb (250 kg) x 0.2 lb (0.1 kg) includes 230 VAC adaptor	33 lb	490.00
Floor-Level Physician Scale				
100185	140-10-7	550 lb (250 kg) x 0.2 lb (0.1 kg) includes 120 VAC adaptor	20 lb	430.00
100187	140-10-7	550 lb (250 kg) x 0.2 lb (0.1 kg) includes 230 VAC adaptor	20 lb	430.00
Options				
100719	RS-232 cable, 4 ft cable DB9 female to RJ-45			17.50
72704	USB to serial converter			70.00
107445	Transport/carrying case (Floor Level Scale only)			90.00

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Digital Baby Scale



Model RL-DBS

STANDARD FEATURES

- Capacity: 44 lb x 0.5 oz (20 kg x 10 g)
- Convenient lb/kg toggle key
- Large, easy-to-read 1 in Liquid Crystal Display (LCD)
- Built-in measuring tape: 0 - 22.5 in (0 - 57 cm)
- Recall key to view last weight measurement
- Four AA batteries (included) or AC adaptor (included)
- Automatic shut-off ensures long battery life

SPECIFICATIONS

CAPACITY:
44 lb x 0.5 oz
20 kg x 0.01 kg

PLATFORM DIMENSIONS:
23.5 in (L) x 11 in (W)

POWER:
Four AA batteries (included) or
AC adaptor (included)
Adaptor is UL and C-UL approved

WARRANTY:
Two-year limited warranty

PART #	MODEL	CAPACITY	EST. SHIP WEIGHT	PRICE
107423	RL-DBS	44 lb x 0.5 oz (20 kg x 10 kg) includes 120V AC adaptor		$280.00
112571	RL-DBS	44 lb x 0.5 oz (20 kg x 10 kg) includes 230V AC adaptor		280.00

OPTIONS/ACCESSORIES

112570	Transport/carrying case (RL-DBS)		55.00



Transport/Carrying Case



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Neonatal Scale



Model 610-10-2

STANDARD FEATURES

- Capacity: 0-5lb x 0.05oz (0-2kg x 1g); 5-12lb x 0.1oz (2-6kg x 2g); 12-30lb x 0.2oz (6-15kg x 5g)
- Tray dimensions: 12in x 22in x 4-1/4in Removeable tray with built-in measuring tape (up to 21-3/4in x 1/8in or 55cm x 1/4cm)
- Motiontrap™ (movement compensation technology)
- 1inch LCD display
- Buttons: reweigh, lb/kg, zero, on/off
- Reweigh function
- Low battery indication
- Movement compensation technology

APPROVALS

CE

Motiontrap™

SPECIFICATIONS

POWER:
9VDC, provided by AC adaptor or internal rechargeable battery

BATTERY TYPE:
Sealed lead acid

BATTERY USE:
75 hours
Automatic power-off can be configured from 0-20 minutes

OPERATING TEMPERATURE:
50°F to 104°F (14°C to 40°C)

APPROVALS:
CE

WARRANTY:
Two-year limited warranty

PART #	MODEL	CAPACITY	EST. SHIP WEIGHT	PRICE
101133	610-10-2	0-5lb (0-2kg) x 0.05oz (1g); 5-12lb (2-6kg) x 0.1oz (2g); 12-30lb (6-15kg) x 0.2oz (5g) includes 120V AC adaptor	25lb	$950.00
101134	610-10-2	0-5lb (0-2kg) x 0.05oz (1g); 5-12lb (2-6kg) x 0.1oz (2g); 12-30lb (6-15kg) x 0.2oz (5g) includes 230V AC adaptor	25lb	950.00

OPTIONS

102084	Four-sided clear tray with built-in measuring tape	150.00
110995	Stainless Steel cart (inside rail dimensions 23in L x 16.5in W)	616.00



Pictured with four-sided tray option



Stainless Steel Cart

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NEW Bariatric/Handrail Scales



Bariatric/Handrail
Model 240-10



Bariatric/Handrail with Chair Seat
Model 240-10-1

STANDARD FEATURES

- Platform dimensions: 20in x 25in x 3in
- Handrails for extra support and safety
- Integrated wheels for ease of portability
- Motiontrap™ (movement compensation technology)
- Large 1in LCD display
- Low battery indicator/automatic power-off
- BMI (body mass index) function
- Reweigh function
- Hold function
- Unit of measure: lb only, kg only, lb/kg
- RS-232 output
- Updatable firmware

Bariatric/Handrail (Model 240-10)

- Capacity: 700lb x 0.2lb (310kg x 0.1kg)

Bariatric/Handrail with Chair Seat (Model 240-10-1)

- Capacity: 1000lb x 0.2lb (450kg x 0.1kg)
- Folding seat

APPROVALS

CE

Motiontrap™

SPECIFICATIONS

POWER:
9VDC, provided by AC adaptor or internal rechargeable battery

BATTERY TYPE:
Sealed lead acid

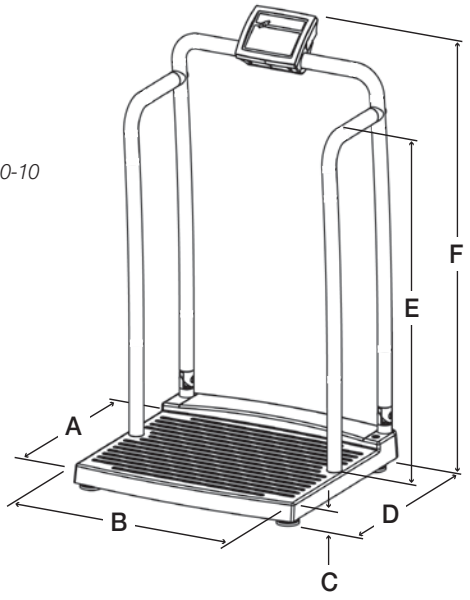
BATTERY USE:
75 hours
Automatic power-off can be configured from 0-20 minutes

OPERATING TEMPERATURE:
50°F to 104°F (14°C to 40°C)

APPROVALS:
CE

WARRANTY:
Two-year limited warranty

Model 240-10



DIMENSIONS			
A	20in	**D**	25in
B	25in	**E**	34in
C	3in	**F**	44.5in

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Bariatric/Handrail Scales

PART #	MODEL	CAPACITY	EST. SHIP WEIGHT	PRICE
Bariatric/Handrail				
100193	240-10	700 lb (310 kg) x 0.2 lb (0.1 kg) includes 120 V AC adaptor	65 lb	$1,360.00
100195	240-10	700 lb (310 kg) x 0.2 lb (0.1 kg) includes 230 V AC adaptor	65 lb	1,360.00
Bariatric/Handrail with Chair Seat				
110588	240-10-1	1000 lb (450 kg) x 0.2 lb (0.1 kg) includes 120V AC adaptor	75 lb	1,660.00
112720	240-10-1	1000 lb (450 kg) x 0.2 lb (0.1 kg) includes 230V AC adaptor	75 lb	1,660.00

OPTIONS

100719	RS-232 cable, 4 ft cable DB9 female to RJ-45	17.50
72704	USB to serial convertor	70.00

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Mechanical Chair Scale



Model RL-MCS

STANDARD FEATURES

- Capacity: 440lb x 0.25lb (200kg x 100g)
- Swing-up arms for easy access and exit
- Fold up footrest
- Sturdy enameled, steel frame
- Dual read die cast beam
- ABS plastic seat, seat back and arm rests
- Four heavy duty wheels for mobility

SPECIFICATIONS

CAPACITY:
440lb x 0.25lb (200kg x 0.1kg)

WARRANTY:
Two-year limited warranty

PART #	MODEL	CAPACITY	EST. SHIP WEIGHT	PRICE
111326	RL-MCS	440lb (200kg) x 4oz (100g)	85lb	$895.00



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Digital Chair Scales



Chair Scale
Model 540-10-1



Premium Chair Scale with extended footrest
Model 540-10-2

STANDARD FEATURES

- Capacity: 600 lb x 0.2 lb (270 kg x 0.1 kg)
- Swing-up armrests for easy access and exit
- Integrated wheels for ease of portability
- Motiontrap™ (movement compensation technology)
- Large 1 inch LCD display
- BMI (body mass index) function
- Reweigh function
- Hold function
- Unit of measure: lb only, kg only, lb/kg
- RS-232 output
- Updatable firmware

Premium Chair Scale (Model 540-10-2)

- Upholstered and cushioned seat

Chair Scale (Model 540-10-1)

- Plastic seat

APPROVALS

CE

Motiontrap™

SPECIFICATIONS

POWER:
9 VDC, provided by AC adaptor or internal rechargeable battery

BATTERY TYPE:
Sealed lead acid

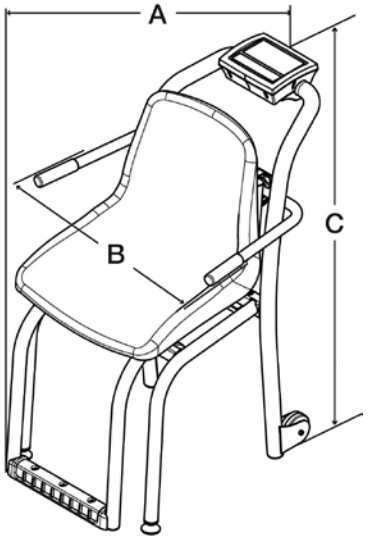
BATTERY USE:
75 hours
Automatic power-off can be configured from 0-20 minutes

OPERATING TEMPERATURE:
50°F to 104°F (14°C to 40°C)

APPROVALS:
CE

WARRANTY:
Two-year limited warranty

DIMENSIONS			
Eye Level			
A	31 in	**C**	37.5 in
B	23.5 in		



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Digital Chair Scales

PART #	MODEL	CAPACITY	EST. SHIP WEIGHT	PRICE
Chair Scale Model 540-10-1				
100232		600 lb (270 kg) x 0.2 lb (100 g) includes 120 V AC adaptor	51 lb	$1,140.00
100234		600 lb (270 kg) x 0.2 lb (100 g) includes 230 V AC adaptor	51 lb	1,140.00
Chair Scale Model 540-10-1 with extended footrest				
107438		600 lb (270 kg) x 0.2 lb (100 g) includes 120 V AC adaptor	53 lb	1,215.00
113689		600 lb (270 kg) x 0.2 lb (100 g) includes 230 V AC adaptor	53 lb	1,215.00
Premium Chair Scale Model 540-10-2				
101664		600 lb (270 kg) x 0.2 lb (100 g) includes 120 V AC adaptor	73 lb	1,240.00
101665		600 lb (270 kg) x 0.2 lb (100 g) includes 230 V AC adaptor	73 lb	1,240.00
Premium Chair Scale Model 540-10-2 with extended footrest				
107440		600 lb (270 kg) x 0.2 lb (100 g) includes 120 V adaptor	75 lb	1,315.00
113690		600 lb (270 kg) x 0.2 lb (100 g) includes 230 V adaptor	75 lb	1,315.00
Options				
100719		RS-232 cable, 4 ft cable DB9 female to RJ-45		17.50
72704		USB serial convertor		70.00

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Single Ramp Wheelchair Scales



Wheelchair Scale
Model 340-10-2



Wheelchair Platform Scale
Model 340-10-7

STANDARD FEATURES

- Capacity: 1000lb x 0.2lb (450kg x 0.1kg)
- Platform dimensions: 29.5in x 32in
- Single ramp for on-off access
- Two wheels for ease of portability
- Motiontrap™ (movement compensation technology)
- Large 1inch LCD display
- Ability to manually enter the tare weight of a wheelchair
- AC adaptor and internal rechargeable battery
- BMI (body mass index) function
- Reweigh function
- Hold function
- Unit of measure: lb only, kg only, lb/kg
- RS-232 port
- Updatable firmware

Wheelchair Platform (Model 340-10-7)

- 6.5ft cable between scale base and indicator

APPROVALS

CE

Motiontrap™

SPECIFICATIONS

POWER:
9VDC, provided by AC adaptor or internal rechargeable battery

BATTERY TYPE:
Sealed lead acid

BATTERY USE:
75 hours
Automatic power-off can be configured from 0-20 minutes

OPERATING TEMPERATURE:
50°F to 104°F (14°C to 40°C)

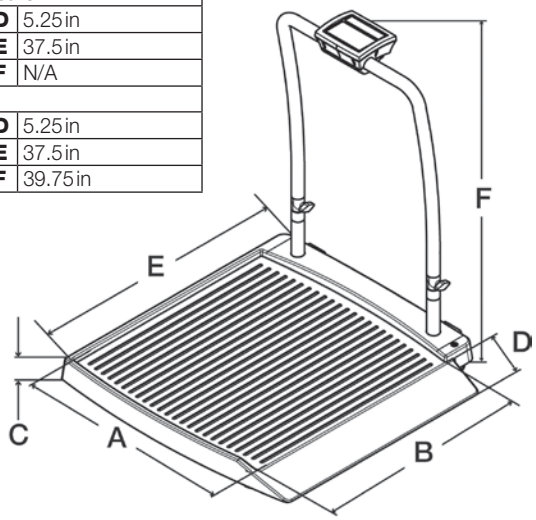
APPROVALS:
CE

WARRANTY:
Two-year limited warranty



Wheelchair scale in folded position

DIMENSIONS			
Wheelchair Platform Scale			
A	29.5in	**D**	5.25in
B	32in	**E**	37.5in
C	2.375in	**F**	N/A
Wheelchair Scale			
A	29.5in	**D**	5.25in
B	32in	**E**	37.5in
C	2.375in	**F**	39.75in



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Single Ramp Wheelchair Scales

PART #	MODEL	CAPACITY	EST. SHIP WEIGHT	PRICE
Single Ramp Wheelchair Scale				
112159	340-10-2	1000 lb (450 kg) x 0.2 lb (0.1 kg) includes 120 VAC adaptor	72 lb	$1,440.00
112160	340-10-2	1000 lb (450 kg) x 0.2 lb (0.1 kg) includes 230 VAC adaptor	72 lb	1,440.00
Single Ramp Wheelchair Platform Scale				
112161	340-10-7	1000 lb (450 kg) x 0.2 lb (0.1 kg) includes 120 VAC adaptor	60 lb	1,360.00
112162	340-10-7	1000 lb (450 kg) x 0.2 lb (0.1 kg) includes 230 VAC adaptor	60 lb	1,360.00

OPTIONS

100719	RS-232 cable, 4 ft cable DB9 female to RJ-45	17.50
72704	USB to serial convertor	70.00

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Dual Ramp Wheelchair Scales



Dual Ramp Wheelchair
Model 340-10-3

STANDARD FEATURES

- Capacity: 1000lb x 0.2lb (450kg x 0.1kg)
- Platform dimensions: 29.5in x 32in
- Dual ramp for on-off access
- Two wheels for ease of portability
- Motiontrap™ (movement compensation technology)
- Large 1inch LCD display
- Ability to manually enter the tare weight of a wheelchair
- AC adaptor and internal rechargeable battery
- BMI (body mass index) function
- Reweigh function
- Hold function
- Unit of measure: lb only, kg only, lb/kg
- RS-232 port
- Updatable firmware

Chair Seat (Model 340-10-4)

- Includes padded, fold away chair with back rest

Wheelchair Platform (Model 340-10-8)

- 6.5ft cable between scale base and indicator

Motiontrap™



Dual Ramp
Wheelchair Platform
Model 340-10-8

SPECIFICATIONS

POWER:
9VDC, provided by AC adaptor or internal rechargeable battery

BATTERY TYPE:
Sealed lead acid

BATTERY USE:
75 hours
Automatic power-off can be configured from 0-20 minutes

OPERATING TEMPERATURE:
50°F to 104°F (14°C to 40°C)

APPROVALS:
CE

WARRANTY:
Two-year limited warranty



Dual Ramp Wheelchair Platform
with Chair Seat
Model 340-10-4

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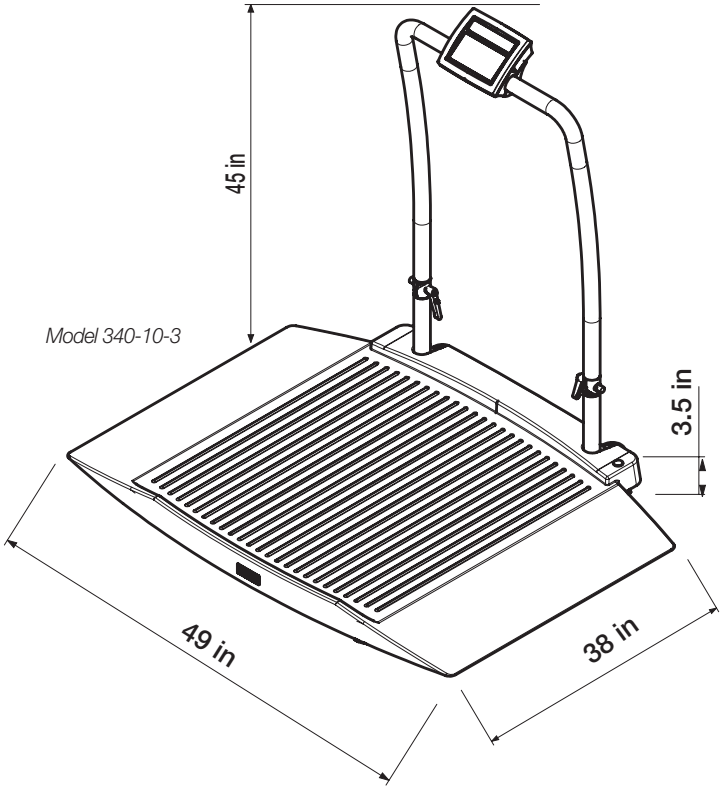
Dual Ramp Wheelchair Scales

PART #	MODEL	CAPACITY	EST. SHIP WEIGHT	PRICE
Dual Ramp Wheelchair Scale				
112163	340-10-3	1000 lb (450 kg) x 0.2 lb (0.1 kg) includes 120VAC adaptor	75 lb	$1,995.00
112164	340-10-3	1000 lb (450 kg) x 0.2 lb (0.1 kg) includes 230VAC adaptor	75 lb	1,995.00
Dual Ramp Wheelchair Scale with Chair Seat				
112165	340-10-4	1000 lb (450 kg) x 0.2 lb (0.1 kg) includes 120VAC adaptor	85 lb	2,295.00
112166	340-10-4	1000 lb (450 kg) x 0.2 lb (0.1 kg) includes 230VAC adaptor	85 lb	2,295.00
Dual Ramp Wheelchair Platform Scale				
112167	340-10-8	1000 lb (450 kg) x 0.2 lb (0.1 kg) includes 120VAC adaptor	63 lb	1,915.00
112168	340-10-8	1000 lb (450 kg) x 0.2 lb (0.1 kg) includes 230VAC adaptor	63 lb	1,915.00

OPTIONS/ACCESSORIES

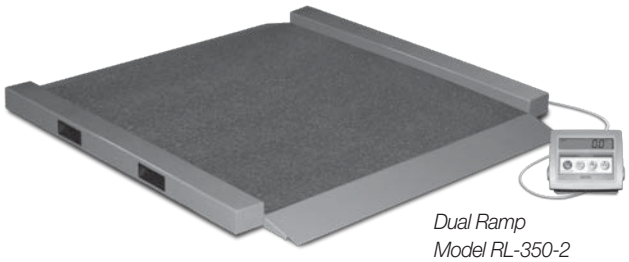
100719	RS-232 cable, 4 ft cable DB9 female to RJ-45	17.50
72704	USB to serial convertor	70.00

DIMENSIONS			
A	29.5 in	**D**	9.25 in
B	32 in	**E**	37.5 in
C	2.375 in	**F**	39.75 in

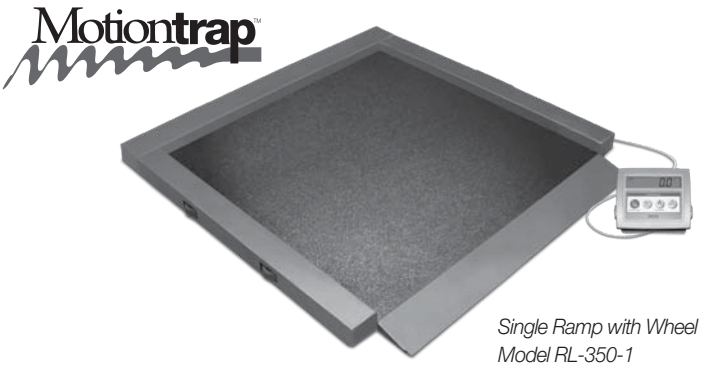


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Portable Bariatric/Wheelchair Scale



Dual Ramp
Model RL-350-2



Single Ramp with Wheel Stop
Model RL-350-1

STANDARD FEATURES

- Capacity: 1000 lb x 0.2 lb (500 kg x 0.1 kg)
- Platform dimensions: 34 in x 34 in
- Anti slip rubber surface on platform
- Two integral handles and wheels for ease of portability
- Motiontrap™ (movement compensation technology)
- Large 1 inch LCD display
- Ability to manually enter the tare weight of a wheelchair
- AC adaptor and internal rechargeable battery
- BMI (body mass index) function
- Reweigh function
- Hold function
- Unit of measure: lb only, kg only, lb/kg
- RS-232 port
- Updatable firmware
- 10 ft cable between scale base and indicator

SPECIFICATIONS

POWER:
9 VDC, provided by AC adaptor or internal rechargeable battery

BATTERY TYPE:
Sealed lead acid

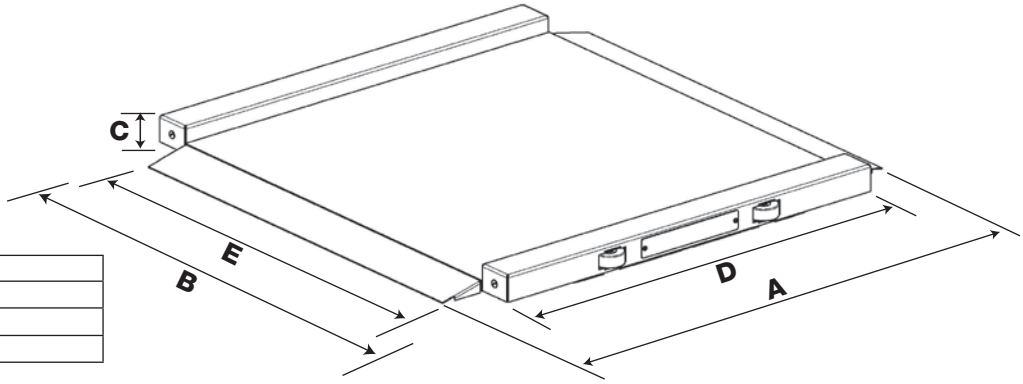
BATTERY USE:
75 hours
Automatic power-off can be configured from 0-20 minutes

OPERATING TEMPERATURE:
50°F to 104°F (14°C to 40°C)

APPROVALS:
CE

WARRANTY:
Two-year limited warranty

PART #	MODEL	CAPACITY	EST. SHIP WEIGHT	PRICE
Single Ramp with Wheel Stop				
113643	RL-350-1	1000 lb (450 kg) x 0.2 lb (0.1 kg) includes 120VAC adaptor	135 lb	$1,995.00
113651	RL-350-1	1000 lb (450 kg) x 0.2 lb (0.1 kg) includes 230VAC adaptor	135 lb	1,995.00
Dual Ramp				
110584	RL-350-2	1000 lb (450 kg) x 0.2 lb (0.1 kg) includes 120VAC adaptor	135 lb	1,995.00
112735	RL-350-2	1000 lb (450 kg) x 0.2 lb (0.1 kg) includes 230VAC adaptor	135 lb	1,995.00

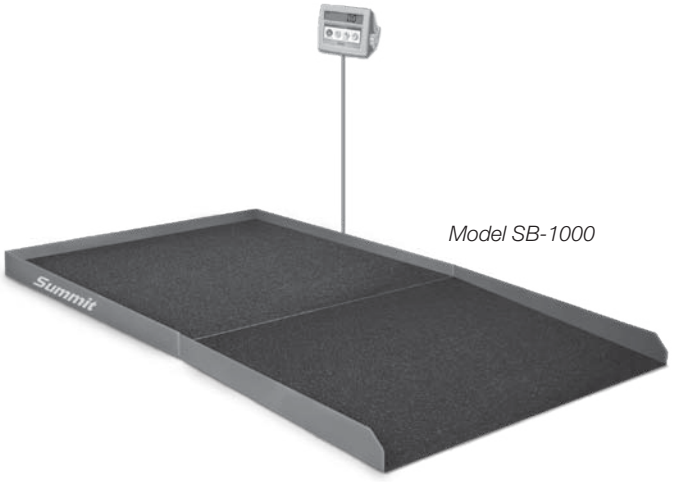


Model RL-350-2

DIMENSIONS			
A	41 in	**D**	34 in
B	40 in	**E**	34 in
C	2.22 in		

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Bariatric/Wheelchair Scale



Model SB-1000

STANDARD FEATURES

- 36in W x 36in L - 1,000lb mild steel painted scale with anti-slip rubber surface and three-sided safety rails
- Access ramp 36in W x 28.5in L with anti-slip rubber surface
- Motiontrap™ (movement compensation technology)
- Large 1inch liquid crystal display (LCD)
- AC adaptor and internal rechargeable battery
- Pushbutton or manual entry of tare weight
- Unit of measure: lb only, kg only, lb/kg
- 10ft interface cable from scale to indicator
- RS-232 port
- BMI (body mass index) function
- Reweigh function
- Hold function

APPROVALS

CE

Motiontrap™

SPECIFICATIONS

POWER:
9VDC, provided by AC adaptor or internal rechargeable battery

BATTERY TYPE:
Sealed lead acid

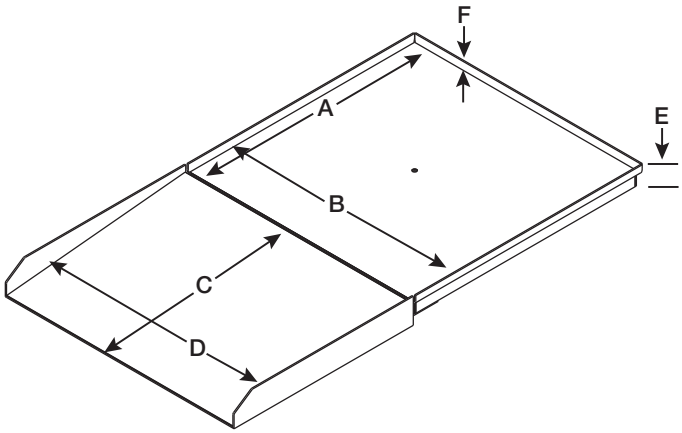
APPROVALS:
CE

BATTERY USE:
75 hours
Automatic power-off can be configured from 0-20 minutes

OPERATING TEMPERATURE:
50°F to 104°F
(14°C to 40°C)

WARRANTY:
Two-year limited warranty

PART #	MODEL	CAPACITY	EST. SHIP WEIGHT	PRICE
106658	SB-1000	1000lb (500kg) x 0.2lb (0.1kg)	370lb	$1,650.00



DIMENSIONS			
A	36in	**D**	36in
B	36in	**E**	4in
C	28.5in	**F**	1in

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Dialysis Scale



Model SD-1000

STANDARD FEATURES

- 36in W x 36in L - 1,000lb mild steel painted scale with anti-slip rubber surface
- 36in (H) x 30in (L) handrail and mounting hardware
- Motiontrap™ (movement compensation technology)
- Large 1inch liquid crystal display (LCD)
- AC adaptor and internal rechargeable battery
- Pushbutton or manual entry of tare weight
- Unit of measure: lb only, kg only, lb/kg
- 10ft interface cable from scale to indicator
- RS-232 port
- BMI (body mass index) function
- Reweigh function
- Hold function

APPROVALS

CE

Motiontrap™

SPECIFICATIONS

POWER:
9VDC, provided by AC adaptor or internal rechargeable battery

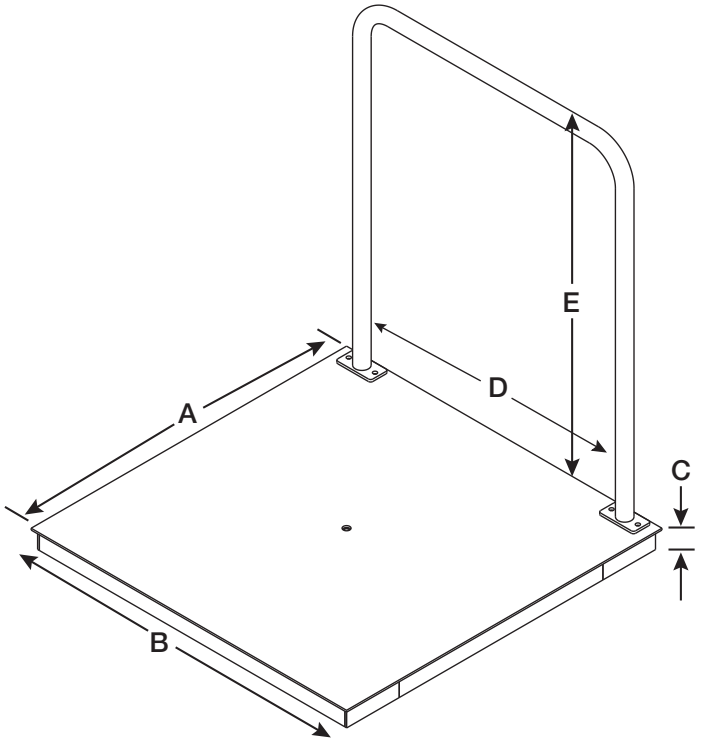
BATTERY TYPE:
Sealed lead acid

BATTERY USE:
75 hours
Automatic power-off can be configured from 0-20 minutes

APPROVALS:
CE

OPERATING TEMPERATURE:
50°F to 104°F
(14°C to 40°C)

WARRANTY:
Two-year limited warranty



DIMENSIONS			
A	36in	**D**	31.5in
B	36in	**E**	37in
C	3in		

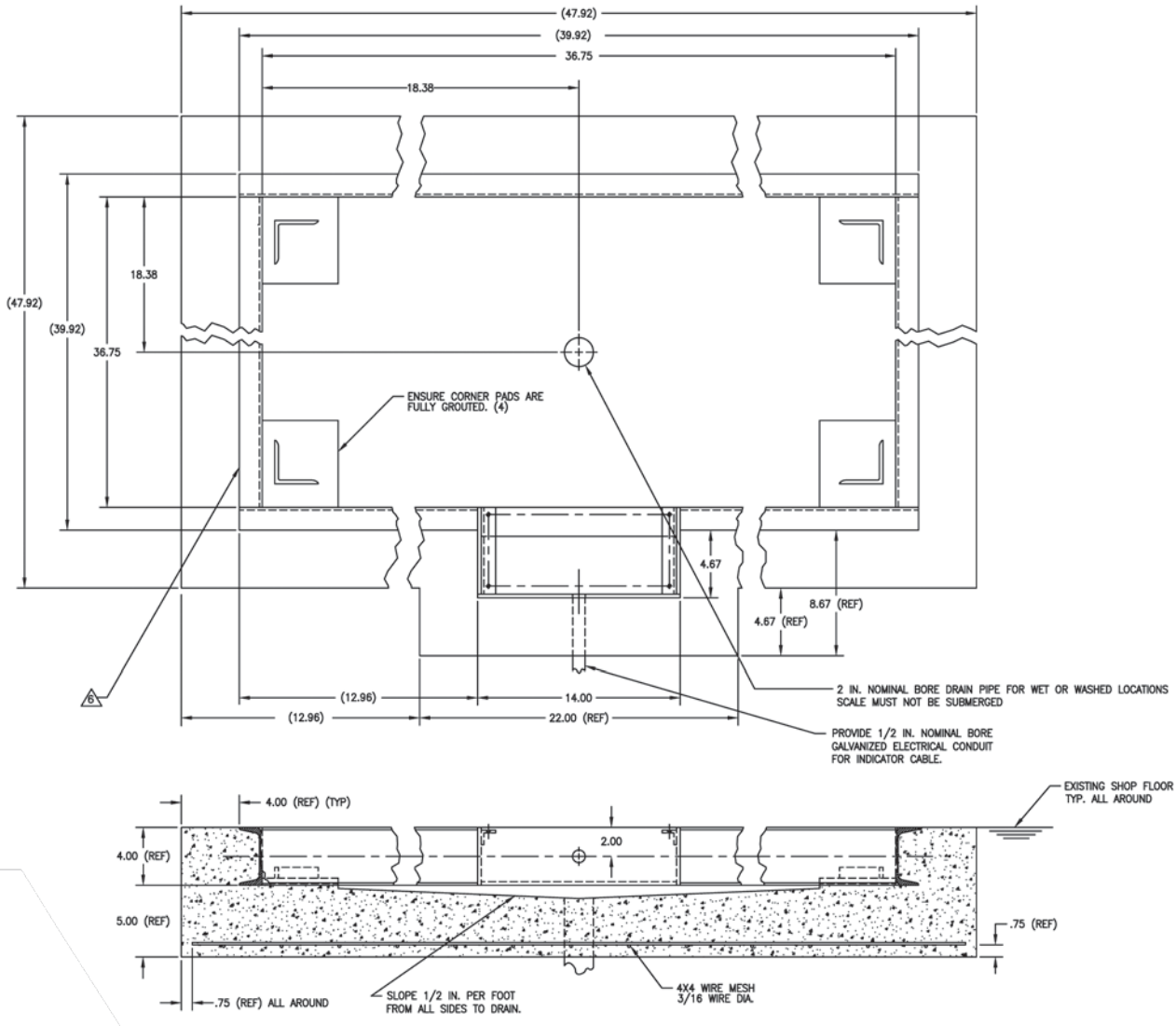
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Dialysis Scale

PART #	MODEL	CAPACITY	EST. SHIP WEIGHT	PRICE
106789	SD-1000	1000 lb (500 kg) x 0.2 lb (0.1 kg)	295 lb	$1,450.00

OPTIONS/ACCESSORIES

106905	Pit frame 36 in x 36 in painted mild steel	100 lb	270.00



NOTE:

1. USE CONCRETE OF MINIMUM YIELD STRENGTH 5000 PSI OR 6–BAG MIX.
2. ALLOW 7 DAYS TO CURE. WET CONCRETE PERIODICALLY DURING THIS TIME.
3. DIMENSIONS SHOWN ASSUME FIRM, STABLE SOIL CONDITIONS. WHEN SOIL CONDITIONS ARE NOT ADEQUATE, PLACE FOUNDATION AT SUFFICIENT DEPTH.
4. IN WET OR WASHDOWN APPLICATIONS WE RECOMMEND THE USE OF HERMETICALLY SEALED LOAD CELLS, AND THAT THE JUNCTION BOX BE MOUNTED REMOTELY IN A DRY LOCATION.
5. WIRE MESH TO HAVE MINIMUM .75 COVER BOTTOM AND SIDES.

⚠6 ON STAINLESS STEEL VERSIONS, TWO PIECES OF 2 INCH ANGLE WILL BE SUBSTITUTED FOR THE 4 INCH CHANNEL.

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Veterinary/Platform Scale



Model 740-10-2

STANDARD FEATURES

- Capacity: 600 lb x 0.2 lb (270 kg x 0.1 kg)
- Platform dimensions: 22 in x 42 in x 2 in
- Epoxy painted steel platform with removable non-slip, hygienic rubber mat
- Motiontrap™ (movement compensation technology)
- Large 1 inch LCD display
- AC adaptor and internal rechargeable battery
- Low battery indication/automatic power-off
- BMI (body mass index) function
- Reweigh function
- Hold function
- Unit of measure: lb only, kg only, lb/kg
- RS-232 output
- Updatable firmware
- 6.5 ft cable between scale base and indicator

APPROVALS

CE

Motiontrap™

SPECIFICATIONS

POWER:
9 VDC, provided by AC adaptor or internal rechargeable battery

BATTERY TYPE:
Sealed lead acid

BATTERY USE:
75 hours
Automatic power-off can be configured from 0-20 minutes

OPERATING TEMPERATURE:
50°F to 104°F (14°C to 40°C)

APPROVALS:
CE

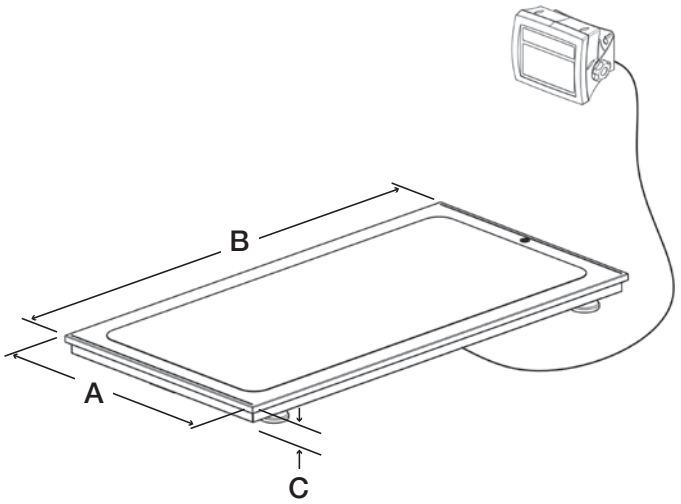
WARRANTY:
Two-year limited warranty

PART #	MODEL	CAPACITY	EST. SHIP WEIGHT	PRICE
100643	740-10-2	600 lb (270 kg) x 0.2 lb (0.1 kg) includes 120 V AC adaptor	51 lb	$700.00
100644	740-10-2	600 lb (270 kg) x 0.2 lb (0.1 kg) includes 230 V AC adaptor	51 lb	700.00

OPTIONS

100719	RS-232 cable, 4 ft cable DB9 female to RJ-45	17.50
72704	USB to serial convertor	70.00

DIMENSIONS			
A	22 in	**C**	2.5 in
B	42 in		



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Ishida iPC Series

Digital Dietary Scale



* Batteries and AC adaptor not included

STANDARD FEATURES

- Six-digit Liquid Crystal Display (LCD)
- Powered by two "D" cell batteries* (up to 500 hours operation)
- Auto power-off function
- Low battery indicator
- Overload stops

APPROVALS

SPECIFICATIONS

DISPLAY:
Six digits (7-segment), LCD
Character height: 1 in (25.4 mm)

KEYBOARD:
Zero, tare, on/off, unit (lb/kg)
NOTE: oz version only displays weight in oz

POWER:
Two dry cell "D" type batteries* (up to 500 hours) or AC adapter
Auto power-off function (can be set to 60 min., 20 min., or off)

OPERATIONAL TEMPERATURE:
23°F to 104°F (-5°C to 40°C)

DIVISIONS (AUTO RANGING):
100 oz: 0.05 oz from 0–50 oz, 0.1 oz from 50–100 oz
6 lb (3 kg): 0.002 lb (0.001 kg) from 0–3 lb (0–1.5 kg), 0.005 lb (0.002 kg) from 3–6 lb (1.5–3 kg)
15 lb (6 kg): 0.005 lb (0.002 kg) from 0–6 lb (0–3 kg), 0.01 lb (0.005 kg) from 6–15 lb (3–6 kg)
30 lb (15 kg): 0.01 lb (0.005 kg) from 0–15 lb (0–7.5 kg), 0.02 lb (0.01 kg) from 15–30 lb (7.5–15 kg)
60 lb (30 kg): 0.02 lb (0.01 kg) from 0–30 lb (0–15 kg), 0.05 lb (0.02 kg) from 30–60 lb (15–30 kg)

APPROVALS:
NTEP Certified CC# 02-139, UL listed

PLATTER SIZE:
100 oz: (3 kg) 9.1 in x 7.8 in (231 mm x 198.1 mm)
6 lb (3 kg): 9.1 in x 7.8 in (231 mm x 198.1 mm)
15 lb (6 kg): 9.1 in x 7.8 in (231 mm x 198.1 mm)
30 lb (15 kg): 11 in x 11.5 in (279.4 mm x 292.1 mm)
60 lb (30 kg): 11 in x 11.5 in (279.4 mm x 292.1 mm)

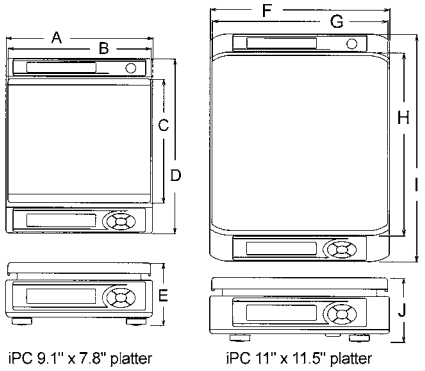
WARRANTY:
One-year limited warranty

PART #	CAPACITY	PLATFORM DIMENSIONS	EST. SHIP WEIGHT	PRICE
Single display				
75466	100 oz (3 kg)	9.1 in x 7.8 in	6 lb	$225.00
Single display, multi-ranging				
75454	6 lb (3 kg)	9.1 in x 7.8 in	6 lb	225.00
75455	15 lb (6 kg)	9.1 in x 7.8 in	6 lb	225.00
75457	30 lb (15 kg)	11 in x 11.5 in	8 lb	225.00
75458	60 lb (30 kg)	11 in x 11.5 in	8 lb	225.00

OPTIONS/ACCESSORIES

75470	Stainless steel platter cover (100 oz, 6 lb, and 15 lb capacity)	20.00
75739	Stainless steel platter cover (30 lb and 60 lb capacity)	20.00
75473	AC adapter	25.00

DIMENSIONS			
A	9.3 in (236.2 mm)	**F**	11.3 in (287 mm)
B	9.1 in (231.1 mm)	**G**	11 in (279.4 mm)
C	7.8 in (198.1 mm)	**H**	11.5 in (292.1 mm)
D	11.1 in (281.9 mm)	**I**	14.3 in (363.2 mm)
E	3.9 in (99.1 mm)	**J**	4 in (101.6 mm)



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MONORAIL SCALES

MS200 & MS202 ..... **MS-2**

MotoWeigh® Stainless Steel Multi-Cell **MS-3**

VBS In-Motion High Accuracy..... **MS-4**

MS200 & MS202

Portable & Permanent Monorail Scales



APPROVALS

Measurement Canada Approved

F M APPROVED LOAD CELLS

STANDARD FEATURES

- 8 in long live rail designed to weigh one trolley at a time
- 750 lb x .5 lb resolution in both portable and permanent models
- Available for rail sizes 3/8 in x 2 1/2 in or 1/2 in x 2 1/2 in
- Requires less than 41 inches of straight rail to install (14 in between rail hangers for permanent model)
- Zinc-plated, steel construction
- High accuracy, stainless steel load cell
- 25 ft of load cell cable for flexible installation
- Slightly recessed live rail for the trolley roller provides stable weighments

SPECIFICATIONS

MS200/MS202 CONSTRUCTION:
Zinc-plated steel construction, stainless steel hardware

LOAD CELL CONSTRUCTION:
Stainless steel

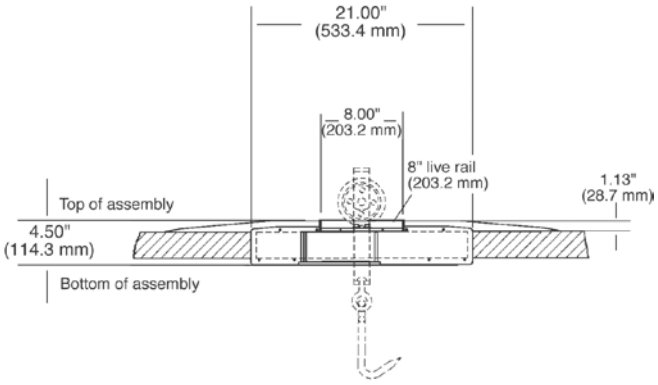
EXCITATION:
10 VD

BRIDGE RESISTANCE:
350 ohms nominal

RATED OUTPUT:
2 mV/V

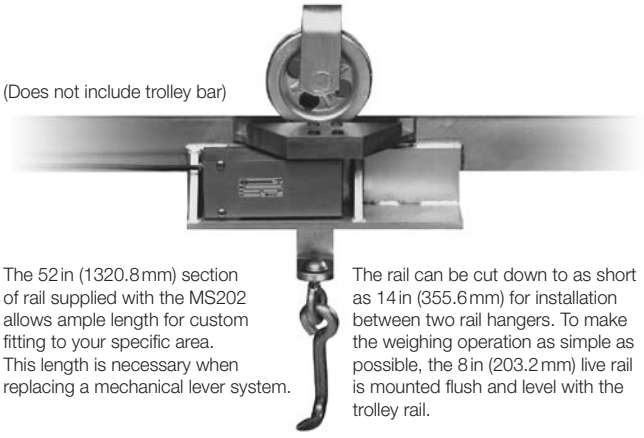
NONLINEARITY:
0.03% full scale

MS200/MS202 DIMENSIONS



MS202 PERMANENT MONORAIL SCALE

(Does not include trolley bar)



The 52 in (1320.8 mm) section of rail supplied with the MS202 allows ample length for custom fitting to your specific area. This length is necessary when replacing a mechanical lever system.

The rail can be cut down to as short as 14 in (355.6 mm) for installation between two rail hangers. To make the weighing operation as simple as possible, the 8 in (203.2 mm) live rail is mounted flush and level with the trolley rail.

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
19743*	MS200HB, NTEP Certified portable	38 lb	$1,575.00
19744*	MS202HB-3/8 in, NTEP Certified permanent	38 lb	1,575.00
19745*	MS202HB-1/2 in, NTEP Certified permanent	38 lb	1,575.00

*Scale only, indicator not included.

OPTIONS/ACCESSORIES

16984	Additional operating manual	5.00
N/A	2 scales installed and connected to one indicator	Consult Factory

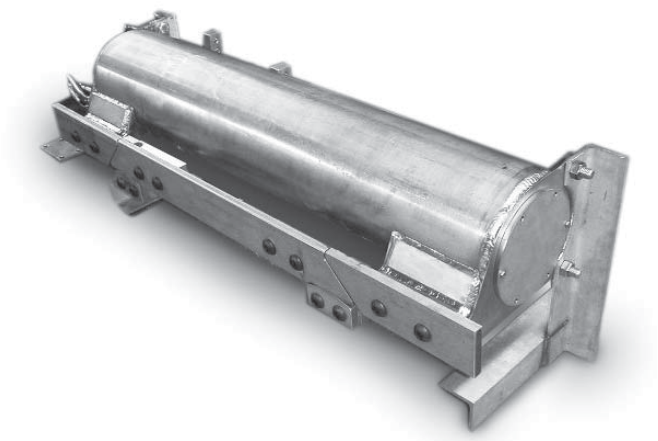
NOTE: If scale is not going to be moved to different locations, the MS-202 permanent model is recommended for easier transfer of the load.

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MotoWeigh® Stainless Steel Multi-Cell

Static Monorail Scale



STANDARD FEATURES

- 1,000 - 4,000 lb capacity
- Up to 5,000 divisions
- 18 in - 60 in live rail
- Stainless steel round tube frame
- Designed for harsh operating environments
- Stainless steel construction standard (mild steel available)
- Stainless steel rail
- Internally mounted load cell summing board
- Rear structural mounting points
- Rail design provides uniform loading using a wide variety of trolleys
- Choice of Rice Lake NEMA 4X indicators

Options

- Mild steel dead rails

Applications

- Smokehouse rail weighing
- Static weighing of carcasses

SPECIFICATIONS

CONSTRUCTION:
Stainless steel

LOAD CELL CONSTRUCTION:
Stainless steel

EXCITATION:
10 VD

BRIDGE RESISTANCE:
350 ohms

RATED OUTPUT:
2 mV/V

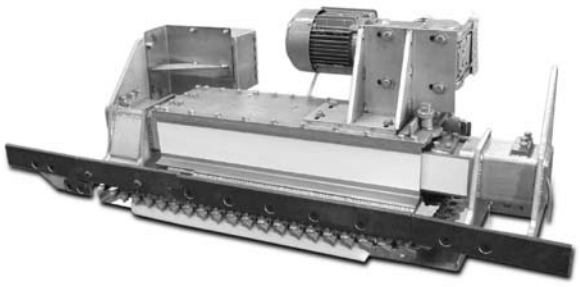
NONLINEARITY:
0.03% full scale

Due to the variety of configurations, please consult the factory to discuss application requirements and for complete specifications and price quotations.

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VBS High Accuracy In-Motion

Monorail Scale



STANDARD FEATURES

- NTEP approved CC - 97-005
- Patented in the U.S. and Canada
- 750 lb capacity with .2 lb increments possible
- Dual load cell design
- Chain speeds from 45 - 2,100 drafts per hour (species dependant)
- Chain conveyor mechanism reduces trolley rolling and push dog issues
- Designed for harsh environments with sealed load cells enclosed in tubes
- Stainless steel construction

Applications

- Pork, beef, lamb or veal carcass in-motion rail weighing
- Hot or cold scale weighing
- Yield control tracking
- Grade weighing

SPECIFICATIONS

CONSTRUCTION:
Stainless steel

LOAD CELL CONSTRUCTION:
Stainless steel

EXCITATION:
10 VD

BRIDGE RESISTANCE:
350 ohms

RATED OUTPUT:
2 mV/V

NONLINEARITY:
0.03% full scale

POWER:
Line voltages: 115 or 230 VAC
Frequency: 50 or 60 Hz
Power consumption: 340 mA, maximum @ 115 VAC (26 W) 240 mA @ 230 VAC (26 W)

EXCITATION VOLTAGE:
10 ± VDC, 16 x 350 Ω or 32 x 700 Ω load cells per A/D card

ANALOG SIGNAL INPUT RANGE:
-10 mV to +45 mV

ANALOG SIGNAL SENSITIVITY:
0.3 µV/graduation minimum @ 7.5 Hz
1.0 µV/graduation typical @ 120 Hz
4.0 µV/graduation typical @ 960 Hz

A/D SAMPLE RATE:
7.5 to 960 Hz, software selectable

RESOLUTION:
Internal resolution: 8 million counts
Weight display resolution: 9,999,999

SYSTEM LINEARITY:
± 0.01% full scale

DIGITAL I/O:
Four I/O channels on CPU board; optional 24-channel I/O expansion boards available

CIRCUIT PROTECTION:
RFI, EMI, ESD protection

SERIAL PORTS:
Four ports on CPU board support up to 115,200 bps; optional dual-channel serial expansion boards available
Port 1: Full duplex RS-232
Port 2: RS-232 with CTS/RTS; PS/2 keyboard interface via DB-9 connector
Port 3: Full duplex RS-232, 20 mA output
Port 4: Full duplex RS-232, 2-wire RS-485, 20 mA output

DISPLAY (W X H):
4.6 in x 3.4 in (116 W x 86 mm H), 320 x 240 pixel VGA Liquid Crystal Display (LCD) module with adjustable contrast

DIMENSIONS:
Universal: 10.5 in W x 10.9 in H x 4.5 in D (266 W x 215 H x 114 mm D)
Deep Universal: 10.75 in W x 10.75 in H x 5.4 in D (273 W x 273 H x 137 mm D)

WEIGHT:
Universal enclosure: 9.5 lb (4.3 kg)
Panel Mount enclosure: 8.5 lb (3.9 kg)
Deep Universal: 11 lb (5.0 kg)

KEYBOARD:
27-key membrane panel, tactile feel, PS/2 port for external keyboard connection

OPERATING TEMPERATURE:
Legal: 14°F to 104°F (-10°C to +40°C)
Industrial: 14°F to 122°F (-10°C to +50°C)

RATING/MATERIAL:
NEMA 4X/IP66, stainless steel

APPROVALS:
CE marked
UL & C-UL listed (Universal, Deep & Wall Mount)
Custom Wall Mount approved for 508A (optional)
Panel Mount UL recognized

WARRANTY:
Two-year limited warranty

Due to the variety of configurations, please consult the factory to discuss application requirements and for complete specifications and price quotations.

RICE LAKE WEIGHING SYSTEMS

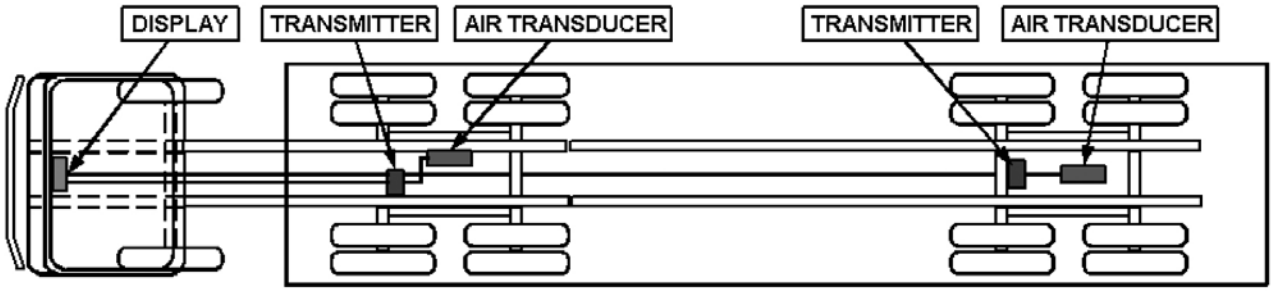
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Precision Loads
Semi Trailer Kits **O-2**
Precision Loads
Straight Truck Kits **O-4**
Precision Loads
Components **O-5**

Precision Loads

Semi Trailer Kits



COMPLETE TRACTOR/TRAILER AIR-RIDE KITS

DESCRIPTION	PRICE
Single transducer kit for Tractor/Trailer	$2,350.00
Dual transducer kit for Tractor/Trailer	2,995.00
Three Channel Air Transducer System	4,395.00
Four Channel Air Transducer System	5,295.00
Three Channel Auto-ID Air System	4,425.00
Four Channel Auto-ID Air System	5,340.00

HALF SYSTEM AIR-RIDE KITS

DESCRIPTION	PRICE
Single Transducer kit, Tractor only	$1,695.00
Dual Transducer kit, Tractor only	1,995.00
Single Transducer kit, Trailer only	860.00
Dual Transducer kit, Trailer only	1,225.00

HALF SYSTEM 5TH WHEEL KITS

DESCRIPTION	PRICE
Holland Fixed 5th wheel kit	$3,450.00
Fontaine Fixed 5th wheel kit	3,450.00

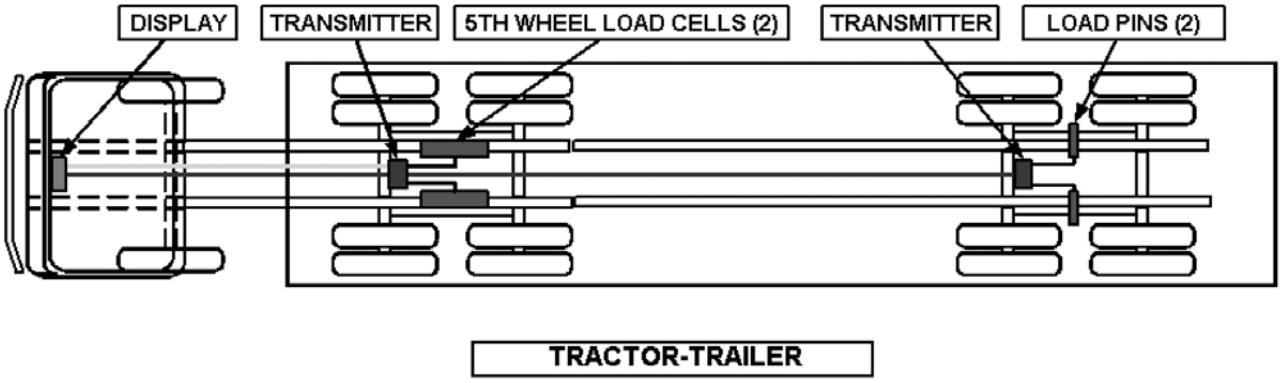
EQUALIZING LEAF SPRING SUSPENSION KITS

DESCRIPTION	PRICE
Equalizer Hanger Pin Kit, Tandem	$1,895.00
Equalizer Hanger Pin Kit, Triaxle	3,250.00
Dual Center Hanger Load Cell Kit	2,240.00
Triaxle Center Hanger Load Cell Kit	3,980.00

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Precision Loads

Semi Trailer Kits



TRAILER KINGPIN PLATE KIT

DESCRIPTION	PRICE
Kingpin Plate Load Cell Kit	$3,250.00

TANDEM TRAILER SINGLE-POINT SUSPENSION KITS

DESCRIPTION	PRICE
Single Point Load Cell Kit	$2,450.00

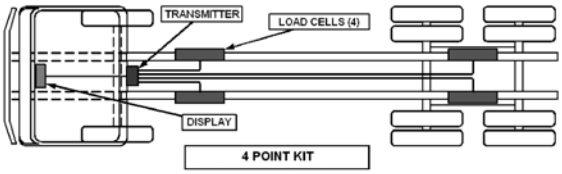
ELECTRONICS KITS

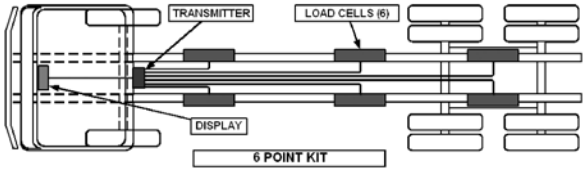
DESCRIPTION	PRICE
Dual Channel Kit	$1,645.00
Dual Channel Kit, Serial Ports, L/D	1,695.00
Three Channel Kit	2395.00
Four Channel Kit	2,850.00
Weatherproof Option, NEMA 12/4X Enclosure, trailer mount, safety glass window on lockable door	400.00
Weatherproof Option, NEMA 12/4X Enclosure, wall-mount, safety glass window on lockable door	660.00

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Precision Loads

Straight Truck Kits





UNDERBODY LOAD CELL KITS

DESCRIPTION	PRICE
Three Point Load Cell Kit with PL9710 In-cab Display	$3,895.00
Four Point Load Cell Kit with PL9710 In-cab Display	4,695.00
Six Point Load Cell Kit with PL9710 In-cab Display	5,995.00
Four Point Heavy Duty Kit with PL9710 In-cab Display	4,995.00

TIPPING BODY/HOIST CHASSIS KITS

DESCRIPTION	PRICE
Three Point Loadpin Kit with PL9700 In-cab Display, Lift	$3,895.00
Four Point Loadpin Kit with PL9700 In-cab Display, Lift	4,695.00
Three Point Kit with Loadpins and Hydraulic Pressure with PL9700 In-cab Display, Lift	3,895.00

STRAIGHT TRUCK AIR-RIDE KIT

DESCRIPTION	PRICE
Dual Transducer Kit for Truck air-ride suspension, with PL9700 In-cab Display	$1,995.00

ELECTRONICS KITS

DESCRIPTION	PRICE
Four Point Kit with PL9710 in-cab display, four lead transmitter, 15 ft power and 35 ft truck cable	$1,640.00
Six Point Kit with PL9710 in-cab display, six lead transmitter, 15 ft power and 35 ft truck cable	1,680.00
Three Point Kit, Lift-to-Weigh, in-cab PL9700, dual transmitters, 15 ft power and dual 35 ft truck cables	1,640.00
Four Point Kit, Lift-to-Weigh, in-cab PL9700, dual transmitters, 15 ft power and dual 35 ft truck cables	1,640.00
Printer Option: Includes in-cab printer, printer u-bracket, knobs, serial cable, power cable and 2 paper rolls	895.00
Heavy duty remote zero and print Smash button set with 10 ft cable	185.00
Handheld Remote Display unit for PL9700/PL9710 units:	
Includes Handheld display, battery, external transceiver, all required cabling	895.00
Dual Limit Setpoint relay module	300.00

REPLACEMENT COMPONENTS FOR ONBOARD SCALES - LOAD CELLS

COMPONENT	REPLACEMENT FOR	RLWS MODEL	PRICE
Feed wagon cantilever beam	LODEC D30046	PL9000-11	$400.00
13 in low profile bending beam	SI, Precision Loads, Vulcan	PL9000-14	700.00
14.4 in underbody shear beam	SI, Vulcan L02, Precision Loads 14.4	PL9000-14.4	800.00
Single point clamp load cell	SI83-001615-10, Vulcan	PL9000-16	1,100.00
22 in underbody/axle load cell	SI83-00	PL9000-22	900.00
26 in shear beam load cell	SI, Vulcan, PrecisionLoads-26	PL9000-26	770.00
5th wheel bending beam cell	LODEC 72-001068-73, Precision Loads 50	PL9000-50	770.00

REPLACEMENT COMPONENTS FOR ONBOARD SCALES - TRANSMITTERS

COMPONENT	REPLACEMENT FOR	RLWS MODEL	PRICE
Dual lead SI replacement	SI	PL9720-8705	$360.00
Dual lead vulcan	Vulcan LXX	PL9720-XXXX	360.00

REPLACEMENT COMPONENTS FOR ONBOARD SCALES - DIGITAL INDICATORS

COMPONENT	REPLACEMENT FOR	RLWS MODEL	PRICE
In-cab display	SI9100	PL9700	$895.00

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Precision Loads

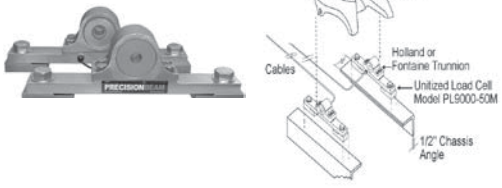
Components

Precision Load kits are simple to install, typically requiring between 8 and 20 man-hours per truck, including wiring. Several mounting design options are available. The system selected depends on the type of equipment and the intended use of the scale system (i.e. payload maximization or split/ load delivery).



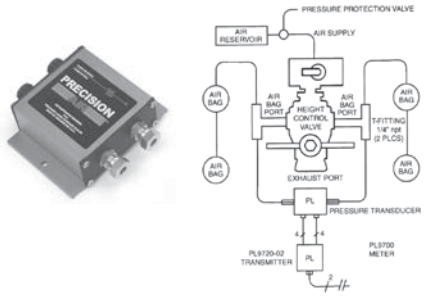
Kingpin plate load cells allow for a complete, self-contained trailer scale system.

Part #	Description	Price
PL9000-14	Underbody load cell	$700.00
PL9000-16	Load cell HD, clamp	990.00
PL9000-22	Underbody/Axle scale load cell	840.00
PL9000-26	Heavy duty bunk/underbody load cell	770.00
PL9000-50	5th wheel/suspension load cell	770.00
PL9000-08MS	Hanger loadpin	700.00
PL9000-08K	Anti-rotation bracket, hanger loadpin	40.00
PL7000-200	Loadpin, 2 in diameter	600.00
PL7000-250	Loadpin, 2.50 in diameter	640.00
905-54-241	height control valve, haldex	180.00



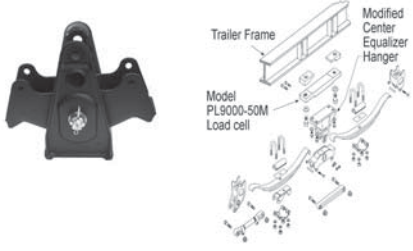
Tractor 5th Wheels can be fit with bolt-down load cell kits..

Part #	Description	Price
PL9000-50H	Holland 5th wheel trunnion kit	$180.00
PL9000-50F	Fontaine 5th wheel trunnion kit	180.00
PL9000-50S	Shear slug, -50 load cell	5.00
PL9000-58B	Poly bushing, Holland trunnion	32.00
PL9000-59B	Poly bushing, Fontaine trunnion	36.00



Air-ride suspension transducer kits may be used on either tractor or trailer or both

Part #	Description	Price
PL9000-101	Air pressure transducer, single element	$400.00
PL9000-201	Air pressure transducer, dual element	750.00



Tandem equalizing spring suspensions use center hanger load assemblies.

Part #	Description	Price
PL9000-50C	Hutch center hanger assembly/each	$200.00
PL9000-50B	Bearing plate, -50 cell	40.00
PL9000-14B	Single piece bearing plate, -14 cell	80.00
PL9000-24B	Single piece bearing plate, -22 cell	200.00
PL9000-26B	Bearing plate, -26 load cell	40.00
PL9000-26C	Plated Bolt, 1-1/8 in 12 UNF x 3.25 in L Grade 8	10.00
PL9000-13C	Plated bolt, 1.25-12 x 2.50 Grade 8	10.00
PL9000-22C	Plated bolt, 1-14 x 1.50 Grade 8	5.00
PL9000-22D	Plated bolt, 1-14 x 2.50 Grade 8	6.00
PL9000-22F	Plated bolt, 1-14 UNF x 4.50 in L Grade 8	8.00
PL9000-17C	Plated bolt, 3/4-16 x 1.50 Grade 8	3.00
PL9000-17D	Plated bolt, 3/4-16 x 2.00 Grade 8	3.00
PL9000-17E	Plated bolt, 3/4-16 x 4.00 Grade 8	5.00
PL9000-13W	Plated F436 washer, 1.25 in	1.00
PL9000-22W	Plated F436 washer, 1.00 in	1.00
PL9000-17W	Plated F436 washer, 3/4 in	1.00
PL9000-26W	Plated F436 washer, 1-1/8 in	1.00
PL9000-08CP	Cotter pin	1.00
PL9000-08SN	Slotted nut 1-14 UNF	6.00
PL9000-01S	Body spring, 3/4 in bolt, powder coat	30.00
PL9000-02S	Body spring, 1 in bolt, powder coat	40.00



Indicator model suits a wider range of on-board scale applications. The liquid crystal display (LCD) allows the operator to view all channels and total simultaneously while loading.

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PIPE LEVER

Pipe Lever Scale **PL-2**

Pipe Lever Customization Form..... **PL-3**

Pipe Lever Scale



STANDARD FEATURES

- Capacity range: 5,000 to 50,000 lb
- NTEP and Canadian type-approved models available
- RL20000 alloy steel load cell standard (prices includes load cell and ITCM load cell assembly)
- Mild steel construction, black paint finish
- Stainless steel, hermetically-sealed load cells available
- Custom built



Custom sizes fit your tank/hopper system for fewer modifications and less installation time.

APPROVALS

Measurement Canada Approved

F M APPROVED LOAD CELLS

SPECIFICATIONS

END LOAD CAPACITY:
100% full scale

MV/V OUTPUT:
1.50 - 1.87 mV/V nominal

CABLE LENGTH:
20 ft (6.1 m)

APPROVALS:
NTEP Certified, Model PLS-XXYY-ZZK Class III/IIIL, 5000, CC #94-126A1
Measurement Canada Approved, AM-5114, Legal-for-Trade on sizes greater than 1.6 m, or a capacity greater than 10,000 kg

WARRANTY:
One-year limited warranty

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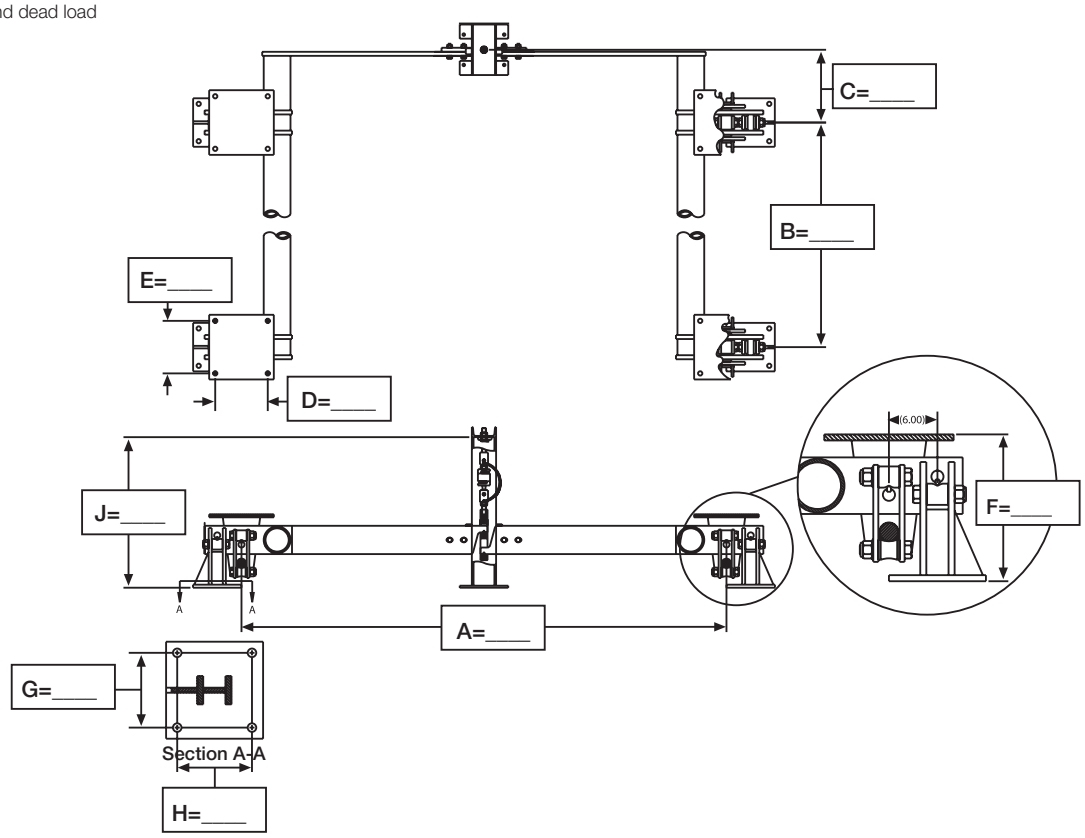
Pipe Lever Customization & Quote Request Form

Please complete and fax this form to RLWS for pricing. Fax: (715) 234-6967

STANDARD AND MINIMUM LEVER LENGTH SPECIFICATIONS.

	10K TOTAL LOAD*		25K TOTAL LOAD*		30K TOTAL LOAD*		40/50K TOTAL LOAD*	
	Standard	Minimum	Standard	Minimum	Standard	Minimum	Standard	Minimum
A	–	48.00 in	–	48.00 in	–	60.00 in	–	60.00 in
B	–	48.00 in	–	48.00 in	–	60.00 in	–	60.00 in
C	12.25 in	4.50 in	15.50 in	7.00 in	15.62 in	7.00 in	18.00 in	7.00 in
D	6.00 in	6.00 in	9.50 in	8.75 in	9.50 in	8.75 in	13.00 in	12.00 in
E	6.00 in	6.00 in	9.50 in	8.75 in	9.50 in	8.75 in	13.00 in	12.00 in
F	8.62 in	8.62 in	13.56 in	13.56 in	13.81 in	13.81 in	18.18 in	18.18 in
G	4.50 in	3.50 in	6.50 in	4.75 in	6.50 in	4.75 in	9.25 in	6.50 in
H	4.50 in	3.50 in	6.50 in	4.75 in	6.50 in	4.75 in	9.25 in	6.50 in
J	24.00 in	24.00 in	32.25 in	32.25 in	32.25 in	32.25 in	37.25 in	37.25 in
	A x B must be equal to or less than 64 square feet, or consult factory.		A x B must be equal to or less than 100 square feet, or consult factory.		A x B must be equal to or less than 100 square feet, or consult factory.		A x B must be equal to or less than 100 square feet, or consult factory.	

* Live and dead load



A	
B	
C	
D+	
E+	
F	
G**	
H**	
J	

*+ Chair hole dimensions ** Stand hole dimensions*

- ❑ 5K Total Load***
- ❑ 10K Total Load***
- ❑ 25K Total Load***
- ❑ 30K Total Load***
- ❑ 40K Total Load***
- ❑ 50K Total Load***
- ❑ Stainless steel hermetically-sealed load cell *(specify model number)*
- ❑ Mild steel load cell *(specify model number)*

Material Type: _____

Finish: _____

NTEP: ❑Yes ❑No

*** Live and dead load

These drawings are not to be used as installation guidelines

Pipe Lever

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PORTABLE VEHICLE SCALES

Intercomp SW™

Deluxe Portable Vehicle Scale..... **PV-2**

Intercomp SWII™

Portable Vehicle Scale..... **PV-3**

Intercomp PT300™/PT300DW™

Wheel Load Scale..... **PV-4**

Intercomp SW™

Deluxe Portable Vehicle Scales



STANDARD FEATURES

- High visibility Liquid Crystal Display (LCD)
- Individual wheel weight, percentage of total weight on each wheel, LR and RF total weight plus percentage; RR and LF total weight plus percentages at the same time; plus all other possible combinations
- Storage of up to 100 complete setups including vehicle type and I/O number
- Built-in self-diagnostics
- Push-button zero
- Push-button night-light
- Automatic turn off to extend battery life
- Low battery indicator
- Internal memory recalls data of last vehicle weighed when unit is turned on
- Rugged, protective waterproof carrying case
- Each system consists of four weigh pads, cables for control box (with case), battery recharger and instruction manual

SPECIFICATIONS

DISPLAY:
Four-line, 20-character alphanumeric LCD readout

GENERAL CONTROLS:
Zero, lb/kg, test, light, print, help, set time/date, on, off, 13-key standard numeric layout

CHANNEL SELECTION:
Left front (LF), right front (RF), left rear (LR), right rear (RR), all

WEIGHT AND PERCENT:
Weight and percent selection

STORAGE REGISTERS:
Two-key register and I.D. selection

INDICATORS:
lb/kg, Lo bat

OUTPUTS:
RS-232 serial

INPUTS:
Four analog channels

SPEED:
950 milliseconds to typical reading (static)

ACCURACY:
± 0.1% or 1 lb/0.5 kg

CALIBRATION:
Keypad calibration

UNITS OF MEASURE:
lb/kg selectable

VOLTAGE:
12 VAC/VDC, 115/230 VAC

BATTERIES:
AA size rechargeable Ni-Cads

HUMIDITY:
10 to 95% non-condensing

TEMPERATURE:
Operating: 32°F to 122°F (0°C to 50°C)
Storage: -40°F to 170°F (-40°C to 75°C)

CARRYING CASE/CONTROL BOX (W X L X H):
Overall dimensions: 11 in x 17 in x 7 in
Weight: 10 lb/4.5 kg
Material: ABS structural foam

WEIGH PAD (W X L X H):
Overall dimensions: 15 in x 15 in x 4 in per pad
Weight: 35 lb (16 kg)
Material: Aerospace grade cost aluminum

WARRANTY:
One-year limited warranty

DIMENSIONS					
PART #	**MODEL**	**WEIGH PAD SIZE**	**CAPACITY**	**GRADUATION**	**EST. SHIP WEIGHT**
43684	SW-D 6000	15 IN X 15 IN X 4 IN	1,500 lb (700 kg) per pad	1 lb (0.5 kg)	155 lb (70.3 kg)
43686	SW-D 8800	15 IN X 15 IN X 4 IN	2,200 lb (1,000 kg) per pad	1 lb (0.5 kg)	155 lb (70.3 kg)

PART #	MODEL	SIZE	CAPACITY	EST. SHIP WEIGHT	PRICE
43684	SW-D 6000	15 in x 15 in	6,000 lb	155 lb	$3,795.00
43686	SW-D 8800	15 in x 15 in	8,800 lb	155 lb	4,795.00

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Intercomp SWII™

Portable Vehicle Scales



STANDARD FEATURES

- Display shows any combination of wheel weights or percentages of weight: left side, wedge, etc.
- Easy-to-use automatic zero and keypad calibration
- High accuracy and repeatability
- Full one-year warranty
- Units of measure: lb/kg
- Lightweight, low-profile weigh pads, 15in L x 15in W x 4in H
- Weigh pads have leveling feet and handles
- Large Liquid Crystal Display (LCD)
- Powered by six AA batteries
- Indicator carrying case

SPECIFICATIONS

GENERAL CONTROLS:
Zero, on, off, weight/%

CHANNEL SELECTION:
Left front (LF), right front (RF), left rear (LR), right rear (RR), All

WEIGHT & PERCENT:
Weight and percent selection indicators: Lo bat, lb/kg

SPEED:
950 milliseconds to typical reading (static)

ACCURACY:
± 0.1% or 1lb/0.5kg

CALIBRATION:
Keypad calibration

UNITS OF MEASURE:
lb, kg selectable

VOLTAGE:
12/VDC, 115/230VAC

BATTERIES:
AA size rechargeable Ni-cad or alkaline

HUMIDITY:
10 to 95% non-condensing

TEMPERATURE:
Operating: 32°F to 122°F (0°C to 50°C)
Storage: -40°F to 170°F (-40°C to 75°C)

WEIGH PAD (W X L X H):
Overall dimensions: 15in x 15in x 4in
Weight: 23lb (10.5kg)
Material: Aerospace gradecast aluminum

WARRANTY:
One-year limited warranty

DIMENSIONS					
PART #	**MODEL**	**WEIGH PAD SIZE**	**CAPACITY**	**GRADUATION**	**EST. SHIP WEIGHT**
43688	SWII 4000	**15in X 15in X 4in**	4,000lb (1800kg)/1,000lb (450kg) per pad	1lb (0.5kg)	105lb (47.6kg)
43689	SWII 6000	**15in X 15in X 4in**	6,000lb (2800kg)/1,500lb (700kg) per pad	1lb (0.5kg)	105lb (47.6kg)

PART #	MODEL	PAD SIZE	WEIGH CAPACITY	EST. SHIP WEIGHT	PRICE
43688	SWII-4000	15in x 15in	4,000lb	105lb	$1,795.00
43689	SWII-6000	15in x 15in	6,000lb	105lb	1,795.00

OPTIONS/ACCESSORIES

43948	Serial RS-232 output	75.00

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Intercomp PT300™/PT300DW™

Wheel Load Scale



PT300DW shown

APPROVALS

STANDARD FEATURES

- 20mA current loop data interface
- Operates on six 1.2 Volt NiCad (standard) or alkaline batteries
- Battery life: Approximately 1,500 charge/discharge cycles
- Battery duration between charges: Approximately eight hours of continuous use before the scale shuts itself off. These numbers are lowered by the use of the lamps or active current loop transmission.
- Charging voltage: 11.5 Volts — 14.5 Volts DC. Protection is provided for accidental reversal of the charging connections
- Charging current starts at 300mA and drops down to 50mA after eight hours
- Charging time: Eight hours if the batteries are discharged to the point of turning off the scale

SPECIFICATIONS

HUMIDITY:
10 to 95% non-condensing

TEMPERATURE:
Operating: -20°F to 150°F (-29°C to 65°C)
Storage: -40°F to 170°F (-40°C to 75°C)

EMI/RFI:
Meets Mil Spec 461

VOLTAGE:
Self-contained nickel cadmium batteries (standard) or alkaline
Integral recharger to charge or operate from a 12, 115 or 230 volt power source

AXLE TOTALIZING OUTPUT:
Transmits weight to another scale for totalizing individual axles. Will totalize axles, tandem axles or wheel groups

PRINTER OUTPUT:
20mA passive current loop to interface with a remote printer or remote display

CONTROLS:
All controls are located on a waterproof membrane keypad with large contact surfaces

PRINT:
When activated, outputs weight local

ON/OFF:
Two separate switches for convenient operation

ZERO/TEST:
Push-button zero: Checks for motion to HB-44.
Test: Performs internal test

HOLD/RELEASE:
Hold: places scale in automatic capture mode for in-motion weighing.
Release: places scale in "normal" static weighing mode

LAMP:
Momentary action to activate high efficiency Light Emitting Diodes (LED) for night usage

LB/KG:
Sets units of measure

LOCAL/TOTAL:
Local: Standard mode for weighing
Total Mode: Enables the scale to accumulate weights

INDICATORS:
Total: Accumulative mode of weighing
Battery: Low battery
Hold: In-motion weighing mode
lb/kg: Unit of measure

SPEED:
950 milliseconds to typical reading (static)

ACCURACY:
± 1% of reading static mode
± 2% of reading hold mode

UNITS OF MEASURE:
lbs, kg selectable

SAFE OVERLOAD:
150% of capacity

OVERALL SIZE (W X D X H):
PT300: 16in x 20in x 3in (406mm x 508mm x 76mm)
PT300DW: 26in x 20in x 3in (660mm x 508mm x 76mm)

PLATFORM SIZE:
PT300: 12in x 12in (305mm x 305mm)
PT300DW: 22in x 14in (559mm x 356mm)

WEIGHT:
PT300: 37lb (16.8kg)
PT300DW: 49lb (22kg)

CASE:
Heat treated aluminum

APPROVALS:
NTEP Certified (PT300-50 only) Class IV CC # 90-106P

WARRANTY:
One-year limited warranty

DIMENSIONS				
PART #	**MODEL**	**PLATFORM SIZE**	**CAPACITY/GRADUATION**	**EST. SHIP WEIGHT**
43661	PT300	**12in X 12in**	5,000lb X 5lb	40lb
43662	PT300	**12in X 12in**	10,000lb X 5lb	40lb
43663	PT300	**12in X 12in**	20,000lb X 20lb	40lb
43738	PT300	**12in X 12in**	20,000lb X 50lb	40lb
43664	PT300DW	**22in X 14in**	5,000lb X 5lb	60lb
43665	PT300DW	**22in X 14in**	10,000lb X 5lb	60lb
43666	PT300DW	**22in X 14in**	20,000lb X 20lb	60lb
43667	PT300DW	**22in X 14in**	30,000lb X 50lb	75lb
43668	PT300DW	**22in X 14in**	40,000lb X 100lb	75lb

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Intercomp PT300™/PT300DW™

Wheel Load Scale

PART #	MODEL	PLATFORM SIZE	CAPACITY/ GRADUATION	EST. SHIP WEIGHT	PRICE
PT300					
43661†	PT300	12 in x 12 in	5,000 lb x 5 lb	40 lb	$1,595.00
43662†	PT300	12 in x 12 in	10,000 lb x 5 lb	40 lb	1,745.00
43663†	PT300	12 in x 12 in	20,000 lb x 20 lb	40 lb	1,595.00
43738†*	PT300	12 in x 12 in	20,000 lb x 50 lb	40 lb	1,595.00

* NTEP Certified Class IV

† Battery charging cable and transformer is included with orders for 2, 4, or 6 scales. Interconnect cable is optional and shown below. See options for pricing on single scale charging cable and transformers.

PT300 DW					
43664†	PT300DW	22 in x 14 in	5,000 lb x 5 lb	60 lb	2,095.00
43665†	PT300DW	22 in x 14 in	10,000 lb x 5 lb	60 lb	2,245.00
43666†	PT300DW	22 in x 14 in	20,000 lb x 20 lb	60 lb	2,095.00
43667†	PT300DW	22 in x 14 in	30,000 lb x 50 lb	75 lb	3,095.00
43668†	PT300DW	22 in x 14 in	40,000 lb x 100 lb	75 lb	3,595.00

† Battery charging cable and transformer is included with orders for 2, 4, or 6 scales. Interconnect cable is optional and shown below. See options for pricing on single scale charging cable and transformers.

OPTIONS/ACCESSORIES

43951	115 VAC charging cable (1 scale)	160.00
43952	115 VAC interconnect/charging cable (2 scales) (Totalizes scales together)	330.00
43953	115 VAC interconnect/charging cable (4 scales) (Totalizes scales together)	500.00
43954	115 VAC interconnect/charging cable (6 scales) (Totalizes scales together)	670.00

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Notes

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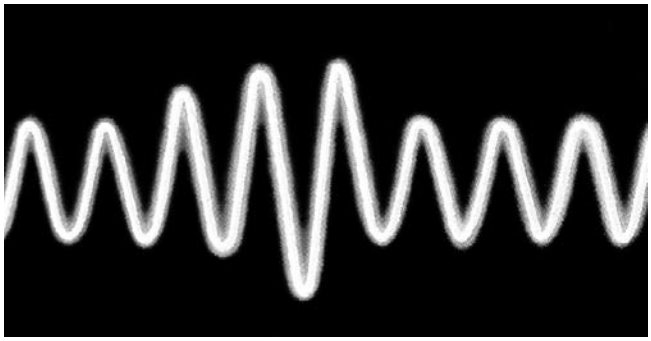
SELECTING THE BEST POWER CONDITIONING DEVICES/EQUIPMENT FOR YOUR APPLICATIONS

Digital weighing indicators utilize an incredibly small signal in their operation. These signals are easily disturbed by any number of voltage distortions. Additionally, many weighing systems are now designed with a complex array of peripheral equipment, including printers and computers. To maintain proper operation and provide maximum protection, Rice Lake Weighing Systems offers this wide variety of power conditioning products as your first line of defense in the battle to improve power problems.

The following is a list of power problems you are likely to experience, with a reference to the equipment we recommend to solve that particular problem. A "quick reference" Power Conditioning equipment chart found on page PC-4 is also included for easy reference.

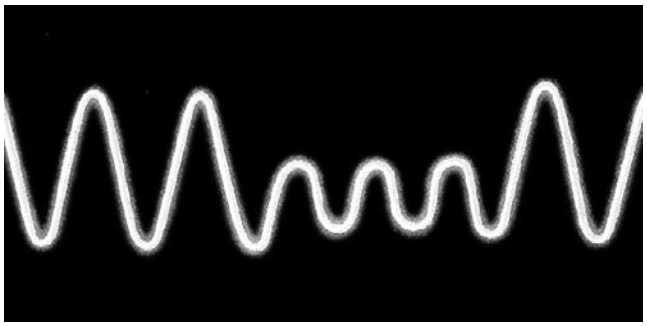
VOLTAGE SURGE

A voltage surge is a temporary rise in voltage level lasting at least one AC cycle (1/60 second). Typically caused by switching off high-power electric motors (electric welders, compressors, machine tools, conveyors, material handling equipment and power tools), momentarily boosting the line voltage. Regulation of the line to an acceptable voltage level is required to prevent the damage caused by voltage surges. The SOLA MCR series of voltage regulators, MCR070, MCR150 and MCR250, are designed to keep the voltage level within acceptable and harmless limits.



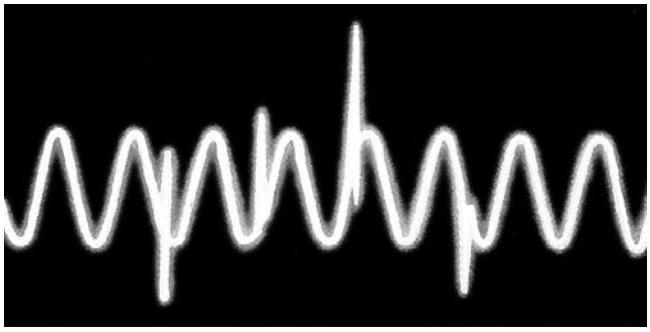
VOLTAGE DIP

A voltage dip is the opposite of a voltage surge, lasting at least one AC cycle (1/60 second). Typically caused by a sudden nearby increase in an electrical load, such as turning on high-power electrical motors (electric welders, compressors, machine tools, conveyors, material handling equipment and power tools). During this time, every other piece of operating equipment is forced to operate with the reduced available voltage. Regulation of the line voltage is required to remedy this situation. The SOLA MCR series of voltage regulators, MCR070, MCR150 and MCR250, solve your problem by temporarily boosting the line voltage to within acceptable limits, until the voltage dip condition has corrected itself.



VOLTAGE SPIKES

A voltage spike is a large, damaging voltage pulse caused when lightning strikes a powerline, a communications line, a signal or sensing line, or even the nearby ground. Voltage spikes last only a few milliseconds, but can reach a potential of 1,000 volts. High-quality protection is the only practical answer.
For your load cells, RS-232 or 20 mA communication lines and other DC protection needs, our UJB3T6, LCP-1 and TP-75 are practical solutions. For line-powered equipment, the Tripp-Lite ISOBLOK® and ISOBAR® or the Rice Lake Weighing Systems EL225 or EL226 are the most effective protection against voltage spikes.

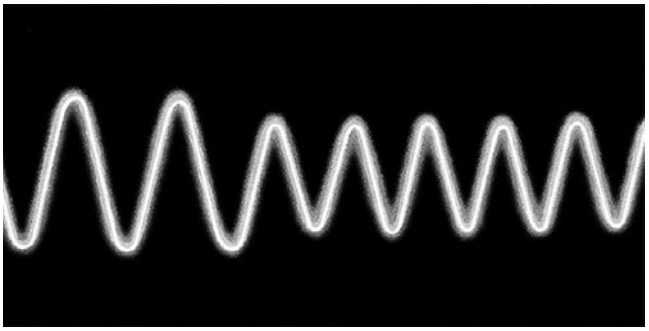


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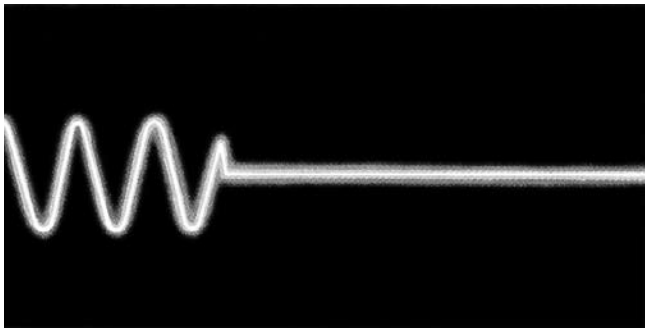
BROWNOUTS

Brownouts are prolonged voltage dips of as much as 15 percent, lasting from several hours to several days. This condition is initiated by local power companies during hours of unusually high demands. Brownouts create many forms of abnormal behavior. The only way to safeguard the operation of critical equipment is to bring the powerline voltage back up to normal specifications. The SOLA MCR series of line voltage regulators, MCR070, MCR150 and MCR250; or the Powerware® 3105 Series Uninterruptible Power Systems can eliminate the problems associated with brownout conditions.



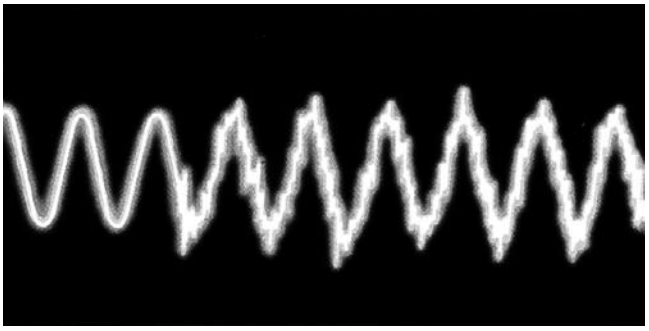
BLACKOUTS

The ultimate power problem! The only way to keep critical electrical equipment running during a blackout is to provide a new supply of power, either from batteries or mechanical generators. The Powerware® 3105 Series Uninterruptible Power System is our answer to battery-supplied electrical power.



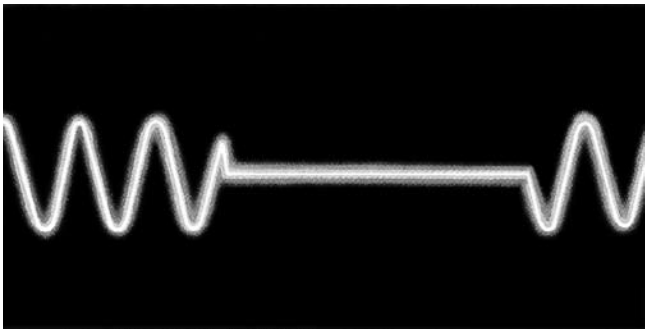
ELECTRICAL NOISE

Noise is a disturbance of electrical power caused by distant lightning, radio transmitters, welding equipment, electrical switching equipment and poor brush contact on motors and other electronic devices utilizing switching power supplies. One solution is to prevent noise from entering the equipment by filtering the powerline input. The Tripp-Lite ISOBLOK® and ISOBAR®, or the Rice Lake Weighing Systems EL225 or EL226 will effectively filter most electrical noise problems. In severe cases, the use of uninterruptible power systems such as Powerware® 3105 Series and Sola 5K Series are recommended.



DROPOUTS

A dropout is a temporary loss of electrical power normally caused by utility and maintenance switching functions where break-before-make switching strategies are used. This simply means that the old source of power is disconnected momentarily prior to the connection of the new power source. Your local utility company may be the most common source of this type of disturbance, causing many problems — notably computer lockups, software errors, equipment resets and diagnostic self-tests. The SOLA MCR series of regulators; MCR070, MCR150 and the MCR250 are available to deal with short-term dropouts (less than 3 milliseconds). For longer-lasting protection, Powerware® 3105 Series and Sola 5K Series Uninterruptible Power Systems are recommended.



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Transient Protection AC, DC, Series and Parallel

AC PROTECTION

Designed for filtering voltage spikes and electrical noise from AC wall receptacles providing power to sensitive microprocessor-based equipment such as computers, printers and indicators. Clamping voltages typically are set to 140 volts AC rms and peak current handling capacities are near 6000 amperes.

DC PROTECTION

Designed for filtering voltage spikes and electrical noise from load cell cables, and both RS-232 and 20 mA serial communication lines protecting indicators, communications interfaces and computers.

PARALLEL PROTECTION

Protection is provided by "diverting" or "bypass" elements that attempt to quickly change the direction of the voltage spike, typically toward earth ground. Examples of "diverting" type elements are gas tubes, MOVs and Transzorbs™. In a parallel-type of transient protector, the equipment to be protected is not removed from the line in the event of a protector damaging voltage spike, leaving the possibility of a second catastrophic voltage spike to enter the unprotected equipment.

SERIES PROTECTION

Protection is provided by "blocking" type elements that buffer the equipment to be protected from the line voltage available at the wall receptacle. Examples of "blocking" type protective elements that are used in series-type transient protectors are fuses, circuit breakers, common mode coils and inductors. In addition, series-type protectors will also utilize "diverting" elements used in parallel protectors. In the series type of transient protector, the equipment to be protected is generally removed from the line source in the event of a damaging transient or surge.

Rice Lake Weighing Systems endorses only series type AC and DC transient protectors. The additional performance and protection provided by them are substantial compared to parallel type counterparts.

A WORD ABOUT GROUNDS...

A good ground is essential for any successful transient protection scheme. However, simply driving a copper ground rod is not enough. The conductivity of the soil can vary seasonally, particularly if the local water table rises and falls with the season. An adequate ground in spring, when the water table is high, may not be adequate in late summer when the water table is low (and thunderstorms are common!). Check the resistivity of your ground regularly throughout the year. If problems appear, check with your local utility about alternate grounding techniques.

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TYPE OF DISTURBANCE	AC Line Disturbance Solutions		
	TRANSIENT PROTECTORS	VOLTAGE REGULATORS	UNINTERRUPTIBLE POWER SYSTEMS
	ISOBLOK®/ISOBAR® *Our Best* -EL225, EL226	MCR Series	Sola Series
SURGE	*	✓	✓
DIP		✓	✓
BROWNOUT		✓	✓
DROPOUT		✓	✓
BLACKOUT			✓
SPIKES	✓		✓
NOISE EMI/RFI	✓		✓

* Will provide some protection against surges; however, we recommend that transient protectors be used on lines where spikes, noise and interference occur.

OUR POLICY

Rice Lake Weighing Systems recommends the installation of AC and/or DC transient protection, which is effective in significantly reducing both the frequency and degree of damage caused by AC and/or DC transient voltage occurrences. However, transient protection devices will not eliminate all damage caused by transient voltage. Rice Lake Weighing Systems does not warrant or guarantee any transient protection device against damage or repair or any scale-related or other electrical/electronic device, which is intended to be protected by any transient protection device. No other warranty or guarantees — express or implied — contrary to this written policy are supported or acknowledged by Rice Lake Weighing Systems.

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TP232 RS-232

High Energy Serial Surge Protector



STANDARD FEATURES

- Two metal mounting brackets
- Three stages of protection: gas discharge tube, series resistor, and Transient Voltage Suppressor (TVS)
- Two terminal posts for ground
- RS-232 high energy surge protector
- Terminal blocks for transmit, receive, request to send, clear to send and signal ground
- Safe for use with Computers and PLC's

IQ plus® 710 Indicator



SURVIVOR® LaserLight™ Series Remote Display

APPROVALS

CE

SPECIFICATIONS

CLAMPING VOLTAGE (STAGE ONE):
72 VDC minimum, 108 VDC maximum

SERIES RESISTANCE (STAGE TWO):
2.7 Ohms

CLAMPING VOLTAGE (STAGE THREE):
14.3 V minimum, 15.7 maximum

CLAMPING TIME:
Less than 5 x 10-9 seconds

CONNECTORS:
5 position terminal blocks

DIMENSIONS:
Approximately 4.5 in L x 3.3 in W x 1.8 in H (114.3 mm L x 83.8 mm W x 45.7 mm H)

WEIGHT:
Approximately 0.42 lb (0.19 kg)

APPROVALS:
CE marked

TP232

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
69201	TP232 high energy surge protector	1.0 lb	$155.00

OPTIONS/ACCESSORIES

17778	12 in Ground strap	10.25
17781	24 in Ground strap	13.25
69516	Additional installation manual	5.00

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Tripp-Lite DNET1

Network Surge Suppressor



STANDARD FEATURES

- RJ45 input and output connections
- 5in Ethernet patch cable enables ideal protection placed as close as possible to the point of use
- 6in heavy gauge lead connects to designated grounding lugs on protected equipment
- Surge suppression utilizing high speed avalanche diodes divert excess energies on the network to ground

SPECIFICATIONS

INTERFACE TYPE:
RJ45

APPLICATION:
100 Base-T, 10 Base-T, Token Ring, AS400/ Sys3x, RS-422. Ideal for NICs, terminals, hubs, MAUs, LAN equipment. RJ11/45-compatible. RJ45 cable included

LINES PROTECTED:
1-8

PEAK PULSE CLAMPING VOLTAGE:
7.5V

MAXIMUM CURRENT:
750 Amps

SHUNT CAPACITANCE:
<40µF

DNET1

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
72682	DNET1 network surge suppressor	1 lb	$35.00

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LCP-1 DC

Transient Protection



STANDARD FEATURES

- Low cost, non-serviceable
- Self-contained; NEMA 1, 2, 3, 11 enclosure
- Effective series protection for strain gauge transducers
- Encapsulated circuitry ensures positive protection against fungus or corrosion on boards
- Two nylon strain reliefs for 0.187 in-0.312 in (4.7 mm-7.9 mm) diameter cable

SPECIFICATIONS

PROTECTION TYPE:
Four-channel series type with separate shield

MAXIMUM EXCITATION VOLTAGE:
18 VDC or 18 VAC

CLAMPING VOLTAGE:
75 VDC or 75 VAC

CLAMPING TIME:
<100 nanoseconds typical

PEAK SURGE CURRENTS:
5,000 Amps any line to ground and
5,000 Amps excitation to excitation

MAXIMUM SERIAL TRANSMISSION RATE:
30 Kbaud

GROUNDING:
Through a .25 in(6.35 mm) lug to a 20 ft (6.1 m) insulated #10 AWG ground wire provided

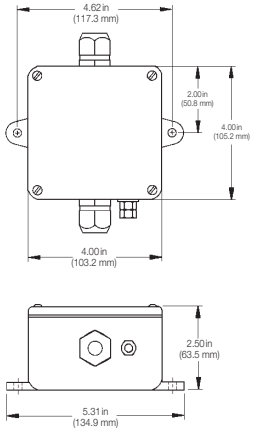
CABLE FITTING:
(2) Standard nylon strain relief for 0.187 in-0.312 in (4.7 mm-7.9 mm) diameter cable

ENCLOSURE:
Chemically-resistant PVC. This device, for outdoor or indoor service, is not intended for washdown service (NEMA 4) or for submersion (NEMA 6).
Optional NEMA 4X available

OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C) consistent with NTEP guidelines

LEAKAGE:
7,500 MΩ minimum

DIMENSIONS:
4.0 in W x 4.0 in H x 2.50 in D
(103.2 mm W x 103.2 mm H x 63.5 mm D)



LCP-1

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
21143	LCP-1 DC with cable compression fittings	2 lb	$195.00

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UJB3T6 DC

Transient Protection



STANDARD FEATURES

- Factory serviceable
- Full 6-wire with shield protection
- #6 SEMS screw type; accepts spade lugs, tinned leads or bare wires up to #12 AWG
- Up to 8 parallel or summed load cells
- 50 Kbaud maximum transmission frequency
- Up to 6 serial data lines can be protected instead of load cells

SPECIFICATIONS

PROTECTION TYPE:
Six-channel series type with separate shield

MAXIMUM EXCITATION VOLTAGE:
20 VDC or 20 VAC

CLAMPING VOLTAGE:
75 VDC or 75 VAC

CLAMPING TIME:
75 VDC Stages <100 nanoseconds typical

PEAK SURGE CURRENTS:
75 VDC Stage - 5,000 Amps

MAXIMUM SERIAL TRANSMISSION RATE:
50 Kbaud

SERIES RESISTANCE:
0.219 ohms typical

SERIES INDUCTANCE:
110 µh typical

GROUNDING:
20 ft (6.1 m) insulated #10 AWG wire

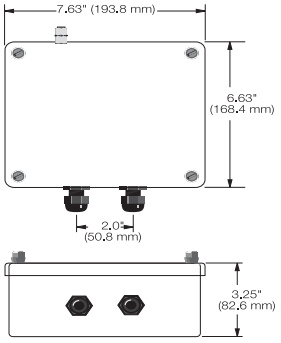
CABLE FITTING:
(2) nylon strain relief for 0.079 in-0.236 in (2.0-6.0 mm) diameter cable

ENCLOSURE:
Fiberglass-Reinforced Polyester (FRP) NEMA 4X, maximum 40 psi washdown

OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C)

CIRCUIT BOARD:
6.75 in x 4.75 in (171.5 mm x 120.7 mm) with anti-fungal coating

DIMENSIONS:
7.63 in W x 6.63 in H x 3.25 in D (193.8 mm W x 168.3 mm H x 82.6 mm D)



UJB3T6

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
21134	UJB3T6 DC	4 lb	$335.00

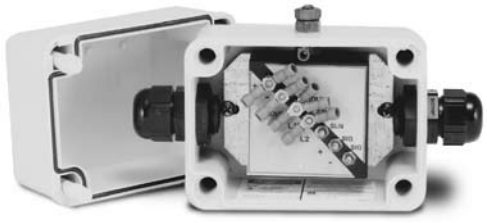
OPTIONS/ACCESSORIES

21135	UJB3T6 DC 6-channel load cell transient protector, board only	240.00

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TP75 DC

Transient Protection



STANDARD FEATURES

- Avalanche diode design
- Full 6-wire with shield protection
- NEMA 4X enclosure
- Unlimited number of parallel load cells; up to eight in series
- Terminal lugs provided

SPECIFICATIONS

PROTECTION TYPE:
Six-channel parallel type with separate shield

MAXIMUM EXCITATION VOLTAGE:
22.8 VDC

RESPONSE TIME:
Five nanoseconds

PEAK SURGE CURRENTS:
100 Amps

SERIES RESISTANCE:
0.0 ohms

SERIES INDUCTANCE:
0.0 µh

GROUNDING:
10 AWG wire or larger (not provided)

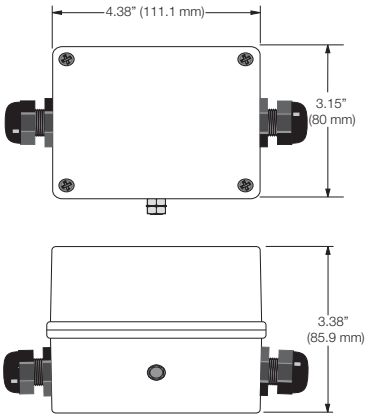
CABLE FITTING:
(2) nylon strain relief for 0.187 in-0.312 in (4.7 mm-7.9 mm) diameter cable

ENCLOSURE:
Impact-resistant polycarbonate
NEMA 4X, maximum 40 psi washdown

OPERATING TEMPERATURE:
4°F to 121°F (–20°C to 85°C)

CIRCUIT BOARD:
2.22 in x 2.22 in (56.4 mm x 56.4 mm)

DIMENSIONS:
4.38 in W x 3.15 in H x 3.38 in D
(111.1 mm W x 80 mm H x 85.9 mm D)



PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
33185	TP75	2 lb	$210.00

OPTIONS/ACCESSORIES

31164	TP75 DC transient protection, board only	159.00

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ISOBLOK®

AC Transient Protector



STANDARD FEATURES

- Two outlets, direct plug-in
- LED indicator for power on
- LED indicator for protection circuitry
- UL1449 listed at 330 volts
- Mounting clamp assures positive connection

SPECIFICATIONS

CLAMP VOLTAGE:
140 V rms

PEAK SURGE CURRENT:
6,500 Amps

CLAMPING TIME:
<5 nanoseconds

INPUT VOLTAGE:
120 VAC

MAXIMUM CURRENT:
15 Amps

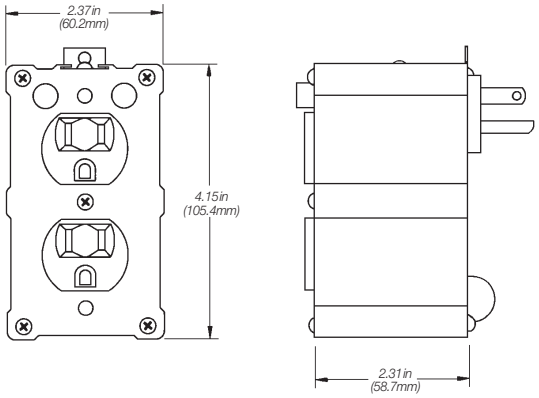
MAXIMUM POWER:
1875 Watts

NOISE SUPPRESSION:

Frequency	Attenuation
50 KHz	>20 db
150 KHz	>40 db
1 MHz	>80 db
>6 MHz	>30 db

DIMENSIONS:
2.37 in W x 4.15 in H x 2.31 in D
(60.2 mm W x 105.4 mm H x 58.7 mm D)

WEIGHT:
Approximately 1 lb (0.45 kg)



PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
21145	ISOBLOK® AC two-outlet transient protector	1 lb	$51.00

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ISOBAR®

AC Transient Protector



STANDARD FEATURES

- Four outlets
- 6-foot cord with grounded three-prong plug
- Lighted on/off switch
- Circuit breaker protected
- Multiple filter design prevents the different components of your system from interfering with each other
- UL1449 listed at 330 volts
- Exclusive isolated filter banks prevent equipment interaction
- ISOBAR's cascade circuitry allows you to choose more protection for your most sensitive equipment and a lesser degree of protection for equipment with more tolerance

SPECIFICATIONS

CLAMP VOLTAGE:
140 V rms

PEAK SURGE CURRENT:
13,000 Amps

CLAMPING TIME:
Less than five nanoseconds

INPUT VOLTAGE:
120 VAC

MAXIMUM CURRENT:
15 Amps

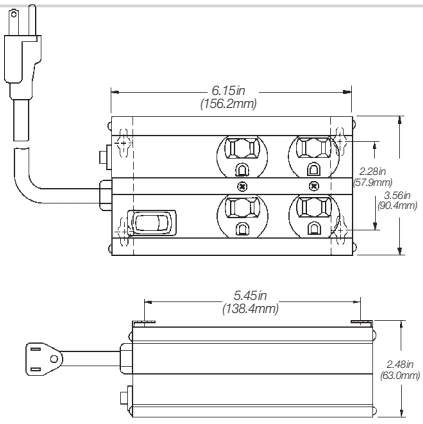
MAXIMUM POWER:
1875 Watts

NOISE SUPPRESSION:

Frequency	Attenuation
50 KHz	>20 db
150 KHz	>40 db
1 MHz	>80 db
>6 MHz	>30 db

DIMENSIONS:
6.15 in W x 3.56 in H x 2.48 in D
(156.2 mm W x 90.4 mm H x 63.0 mm D)

WEIGHT:
Approximately 2 lb (0.91 kg)

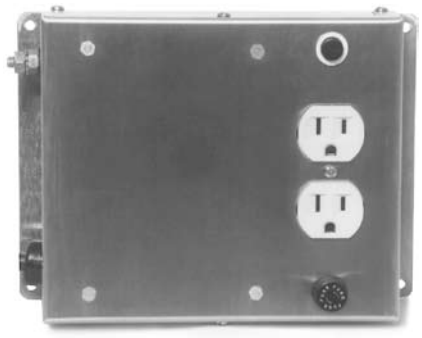


PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
21146	ISOBAR® AC four-outlet transient protector	2 lb	$81.00
36663	ISOBAR 230 VAC	3 lb	118.00

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EL226

AC Transient Protector



STANDARD FEATURES

- Duplex receptacle
- 20ft (6.1m) ground cable
- Factory serviceable
- 9ft (2.7m) cord with three-prong plug
- Stainless steel industrial enclosure
- Plugs into any grounded three-prong outlet
- Indicator light shows protection is secure
- Excellent as a prefilter for voltage regulators
- Reliability and quality top-of-the-line performance
- Shielded line cord for protection against induced transients
- Positive proven protection for scales, computers and printers
- Convenient mounting holes; can be mounted on any surface

SPECIFICATIONS

OPERATING VOLTAGE:
120VAC 50/60Hz, nominal

MAXIMUM CURRENT:
10A rms instantaneous, 7.5A rms continuous

CLAMPING TIME:
Less than 3 to 5 nanoseconds

EMI/RFI PROTECTION:
13 stages

PROTECTION TYPE:
13-stage series type filters out both common and normal mode transients

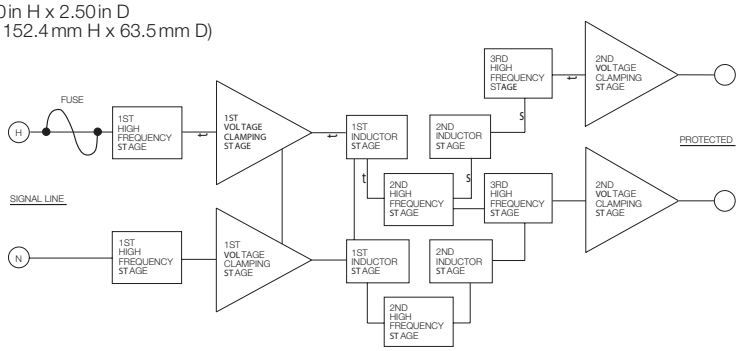
GROUNDING:
20ft (6.1m) insulated #10 AWG wire provided

ENCLOSURE:
Stainless steel

OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C)

CIRCUIT BOARD:
Fiberglass-reinforced 4-glass epoxy

DIMENSIONS:
8.00in W x 6.00in H x 2.50in D
(203.2mm W x 152.4mm H x 63.5mm D)



PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
21136	EL226 AC two-outlet transient protector	6lb	$325.00

EL225-4

Dedicated In-Line Instrument Transient Protection System



STANDARD FEATURES

- Dedicated series transient protection
- Bidirectional design reduces noise on surrounding lines

SPECIFICATIONS

OPERATING VOLTAGE:
117 VAC 50/60 Hz, nominal

MAXIMUM CURRENT:
2 Amps continuous

CLAMPING TIME:
Less than 5 nanoseconds

EMI/RFI PROTECTION:
9 stages

PROTECTION TYPE:
Nine-stage series type filters out both common and normal mode transients

GROUNDING:
20 ft (6.1 m) insulated #10 AWG wire provided

OPERATING TEMPERATURE:
14°F to 104°F (-10°C to 40°C)

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
21142	EL225-4 AC transient protector (chassis mount)	1 lb	$250.00

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Sola MCR Series

Mini/Microcomputer AC Power Regulators



STANDARD FEATURES

- UL listed, CSA certified
- Automatic overload protection
- Convenient lighted on/off switches
- Available in 70, 150 and 250 VA outputs
- Offered in standard 120 volt, 60 Hz models
- Two duplex receptacles allow several pieces of equipment to economically share the same source of regulated power

APPROVALS

SPECIFICATIONS

INPUT:
Voltage: 120 V
Input Voltage Range: +10% to -20% of input nominal voltage
Control: Lighted enable switch

OUTPUT:
Voltage: 120 V
Voltage Regulation: ±3% for an input line variation of +10% to -20%. Output will remain within NEMA voltage specifications for input voltages as low as 65% of nominal. No loss of output for line loss of 3 milliseconds.
Harmonic Distortion: Less than 3% total RMS content at full load

NOISE REDUCTION:
Common mode noise rejection exceeds 120 dB (DC to 1 MHz). Transverse mode noise rejection exceeds 60 dB (10 KHz to 1 MHz)

PROTECTION:
Input: Surge suppression module
Output: Surge suppression module and ferroresonant technology suppresses ANSI/IEEE C62.41-1980 Class A and B waveforms to safe levels (formerly IEEE 587-1980)

EFFICIENCY:
90% at full load (typical)

RELIABILITY:
25-year continuous life, average

OPERATING TEMPERATURE:
-4°F to 122°F (-20°C to 50°C)

CONSTRUCTION:
Cruciform-type construction with precision die-cut shunts, gaps, and spacing between windings

APPROVALS:
UL listed to UL1012; CSA certified to CSA C22.2-66

DIMENSIONS:
70, 150 & 250 VA - 6.75 in W x 6.25 in H x 9.25 in D (171.5 mm W x 158.8 mm H x 235.0 mm D)

WEIGHT:
70 VA - Approximately 16 lb (7.3 kg)
150 VA - Approximately 21 lb (9.5 kg)
250 VA - Approximately 26 lb (11.8 kg)

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
21155	Sola MCR 070 AC power regulator, 70 VA	16 lb	$510.00
21156	Sola MCR 150 AC power regulator, 150 VA	21 lb	675.00
21157	Sola MCR 250 AC power regulator, 250 VA	29 lb	845.00

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Tripp-Lite PV Series

Power Inverters



STANDARD FEATURES

- Two conductor outlet
- Convenient on/off switch
- 120VAC 60Hz square wave output
- Transistorized and solid state for long life and quiet operation
- Packaged in a compact, rugged aluminum case

SPECIFICATIONS

INPUT VDC:
PV-375—12V

OUTPUT VAC:
PV-375—120VAC

FREQUENCY HZ:
PV-375—60Hz

MAXIMUM OUTPUT CONTINUOUS:
PV-375—375 Watts

MAXIMUM OUTPUT INTERMITTENT:
PV-375—375 Watts

INPUT AMP - NO LOAD:
PV-375—.65 Amps

INPUT AMP - FULL LOAD:
PV-375—40 Amps

ENCLOSURE:
Non-sealed aluminum

DIMENSIONS:
4.25in W x 2in H x 7in D

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
79679	375VA**, 200VA	7lb	$130.00

* Frequency controlled

** Car charger adapter

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Tripp-Lite LC1200

Line Conditioner & Voltage Regulator



STANDARD FEATURES

- Maintains usable 120V nominal output during brownouts as low as 87V and overvoltages as high as 140V
- 1,200 Watts output power rating supports heavy 120V loads up to 10 Amps
- Network grade surge suppression rated at 1200 joules
- Complete EMI/RFI noise filtering
- Seven diagnostic LEDs indicate input voltage levels, surge suppression status and line fault conditions
- protected NEMA5-15R outlets
- 6ft AC power cord with standard NEMA5-15P input plug

SPECIFICATIONS

OUTPUT WATTAGE (CONTINUOUS):
1,200

VOLTAGE/FREQUENCY:
120/60

CORDSET:
6ft (1.8m)

AC RECEPTACLES:
Four NEMA 5-15R

LED INDICATORS:
Seven (very high voltage, high voltage, normal voltage, low voltage, very low voltage, line fault, line OK)

SURGE ENERGY RATING (JOULES):
1,200

HIGH FREQUENCY NOISE SUPPRESSION (@ 1 MHZ):
80 dB

DIMENSIONS:
6.75in H x 5.75in W x 6.75in D
(171.4mm H x 146.1mm W x 171.4mm D)

SHIP WEIGHT:
9lb (4kg)

NOTE: LC models have isolated filter banks. Each duplex outlet pair is filtered from the rest to prevent interference between connected equipment.

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
70726	LC1200	11lb	$195.00

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Powerware® 3105 Series

Uninterruptible Power Supply



STANDARD FEATURES

- UL listed, C-UL listed to Canadian standards
- Small unobtrusive design
- LED indicators and audible alarms warn of power problems and low battery conditions
- User-replaceable battery
- Cold-start capability
- Data line protection

Powerware is registered trademark of SOLA

APPROVALS

c UL us LISTED Measurement Canada Approved CE CSA

SPECIFICATIONS

INPUT VOLTAGE RANGE (FOR ONLINE OPERATION):
115 VAC: 90-152 Volts
230 VAC: 176-272 Volts

OPERATING FREQUENCY (ONLINE):
50/60 Hz ±1 Hz auto sensing
On line: 50/60 Hz auto sensing based on input frequency

OVERLOAD CAPACITY:
120% ±10% (3 minutes on line mode, 10 seconds on battery)

TRANSFER TIME:
Six ms typical

ON BATTERY VOLTAGE:
115 VAC: 115 VAC rms ±10%
230 VAC: 230 VAC rms ±10%

OUTPUT VOLTAGE WAVEFORM:
Regulated step wave

OUTPUT PROTECTION:
Electronically limited

INPUT PROTECTION:
Circuit breaker

RECHARGE TIME (TO 95% CAPACITY):
Eight hours maximum

LIGHTNING & SURGE PROTECTION:
ANSI/IEEE C62.41 categories A & B, IEC801.4, 801.5

SURGE ENERGY CAPACITY:
120 V 320 Joules
230 V 476 Joules

EFFICIENCY:
>95% online

SAFETY CERTIFICATION:
115 VAC: UL listed to 1778, designed to meet UL497A, CSA certified to CSAC22.2 No. 107.1
230 VAC: CE marked, low voltage directive, EN50091-1

EMI COMPLIANCE:
115 VAC: FCC Class B
230 VAC: EN55022, Class B, CE EMC directive

COMMUNICATIONS:
VSB

DATA LINE PROTECTION:
115 VAC: Fax/modem, network
230 VAC: Fax/modem

INDICATORS:
Online/utility fail/overlaid/replace battery

AUDIBLE ALARMS:
Utility fail/overload/replace battery

PART #	MODEL	CAPACITY (VA/WATTS)	DIMENSIONS	WEIGHT	OUTPUT QUANTITY	RECEPTACLES TYPES
115 VAC:						
89489	500VA	500/300	4.4 in H x 11 in W x 7 in L (112 mm x 279 mm x 178 mm)	11.7 lb (5.3 kg)	4 (UPS & Surge) 4 (Surge only)	NEMA 5-15R
89490	700VA	700/420	4.4 in H x 11 in W x 7 in L (112 mm x 279 mm x 178 mm)	14.5 lb (6.6 kg)	4 (UPS & Surge) 4 (Surge only)	NEMA 5-15R
230 VAC:						
89491	500VA	500/300	4.6 in H x 7 in W x 11 in L (117 mm x 178 mm x 279 mm)	12.1 lb (5.5 kg)	4 (UPS & Surge) 4 (Surge only)	C13 (10 amp)
89492	700VA	700/420	4.6 in H x 7 in W x 11 in L (117 mm x 178 mm x 297 mm)	15.4 lb(7.0 kg)	4 (UPS & Surge) 4 (Surge only)	C13 (10 amp)

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
115 VAC:			
89489	Powerware 500 VA	12 lb	$250.00
89490	Powerware 700 VA	15 lb	365.00
230 VAC:			
89491	Powerware 500 VA	12 lb	310.00
89492	Powerware 700 VA	15 lb	365.00

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Sola S1K/S3K

Uninterruptible Power System



STANDARD FEATURES

- Offline with Automatic Voltage Regulation (AVR) topology
- Protects against most adverse power conditions, including: frequency variations, surge, noise, blackouts, lightning, spike, brownouts and over and under voltages
- Data-line surge protection for phone or network included on every unit
- Greater uptime with intelligent power management, full-sequence battery testing and two-level overload protection

APPROVALS

c UL us LISTED

SPECIFICATIONS

INPUT VOLTAGE RANGE:
Input: 90-5 VAC, single phase, two-wire plus ground

COMMUNICATIONS:
SiteNet® one shutdown interface

APPROVALS:
UL & C-UL listed

WARRANTY:
Two-year limited warranty

MODEL	CAPACITY (VA/WATTS)	VOLTS, FREQUENCY IN/OUT	TYPICAL RUNTIME*	INPUT PLUG/ OUTPUT RECEPTACLE	WEIGHT
115 VAC:					
520VA	300	115/115, 50/60 Hz	8/24	5-15P(4) 5-15R	12 lb (5.3 kg)
1000VA	1000/750	115/115, 50/60 Hz	4/13	5-15P(4) 5-15R	39 lb (17.7 kg)

* Full/half load (in minutes)

Note: Air around the above units must be free of dust, chemicals or other materials that corrode or contaminate.

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
110812	Sola 520VA, 115 VAC (S1K)	12 lb	$325.00
109910	Sola 1000VA, 115 VAC (S3K)	39 lb	850.00

NOTE: 230 VAC versions available. Consult factory.

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Notes

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Sartorius® Combics CW Series

Plug-and-Weigh



APPROVALS

STANDARD FEATURES

- Cost-effective industrial weighing
- Ready to go out-of-the-box, simply unpack, plug and weigh
- Platforms constructed of galvanized and stainless steel, or 100% stainless steel
- Prewired, preconfigured, and preprogrammed to 50,000dd with lb/kg unit toggling
- Prepackaged with the most applicable Combics indicator
  - Gross/Net toggling, automatic container toggling, single print on stability
- Application software included
- Column included (upon request)

APPLICATIONS

- Pharmaceutical, chemical, electronics, food processing, precious metals, metal production and processing

REGULATORY COMPLIANCE

- NEMA, HACCP, FDA, GLP/GMP*

*GLP/GMP requires use of Combics 1 Plus or higher digital weight indicator

SPECIFICATIONS

SUPPLY VOLTAGE:
9V

DISPLAY:
0.8in x 7in segment backlit LCD

KEYPAD:
CISLIU - ON/OFF, Zero, Tare Function, Print/Data Output
CISLIN - ON/OFF, Zero, Tare Function, Print/Data Output Number Keys for ID Codes, Preset Tare
CIS2U - ON/OFF, Platform Toggle, Zero, Tare, Function, Print/Data Output, CF, REF, OK, Toggle

HOUSING:
AISI 304 stainless steel

DIMENSIONS:
11.9in W x 7.4in D x 3.5in H

OPTIONS:
Wall Mount Bracket
Panel Mount Kit
Battery Power Supply

COLUMN HEIGHT
10 x 10, 12 x 12 = 13in height
18 x 18 = 29in height

PLATFORM CABLE LENGTH:
10ft/3m

PLATFORM RATING:
NEMA4, IP65

PLATFORM OPERATING TEMPERATURE:
+14°F to 104°F

ADJUSTABLE FEET:
5.7in - 6.71in

WARRANTY:
Two-year limited warranty
Accessories one year

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Sartorius® Combics CW Series

Plug-and-Weigh

RLWS PN	INDICATOR	SARTORIUS BASE PN	BASE DIMENSIONS (IN)	# LOAD CELLS	CAPACITY READABILITY (LB)		CAPACITY READABILITY (KG)		EST. SHIP WEIGHT (LB)	LIST PRICE
100774	CISL1U	CAPP1U-10CC-LU	10 x 10	1	15	0.0005	6	0.0002	21	$1,435.00
100775	CISL1U	CAPP1U-20CC-LU	10 x 10	1	30	0.001	15	0.0005	21	1,435.00
100776	CISL1U	CAPP1U-50CC-LU	10 x 10	1	60	0.002	30	0.001	21	1,435.00
100777	CISL1U	CAPP1U-50DD-LU	12 x 12	1	60	0.002	30	0.001	25	1,520.00
100778	CISL1U	CAPP1U-100DD-LU	12 x 12	1	150	0.005	60	0.002	25	1,520.00
100779	CISL1U	CAPP1U-50EE-LU	18 v 18	1	60	0.002	30	0.001	71	1,645.00
100780	CISL1U	CAPP1U-100EE-LU	18 x 18	1	150	0.005	60	0.002	71	1,730.00
100781	CISL1U	CAPP1U-200EE-LU	18 x 18	1	200	0.01	100	0.005	71	1,730.00

Base Construction: Galvanized or painted steel base mechanism with stainless steel platform cover
Indicator Included: CISL1U IP44 protection rated (PN 102396) - See Combics 1 Catalog Page

100782	CISL1N	CAPP1U-10CC-LU	10 x 10	1	15	0.0005	6	0.0002	21	$1,575.00
100783	CISL1N	CAPP1U-20CC-LU	10 x 10	1	30	0.001	15	0.0005	21	1,575.00
100784	CISL1N	CAPP1U-50CC-LU	10 x 10	1	60	0.002	30	0.001	21	1,575.00
100785	CISL1N	CAPP1U-50DD-LU	12 x 12	1	60	0.002	30	0.001	25	1,665.00
100786	CISL1N	CAPP1U-100DD-LU	12 x 12	1	150	0.005	60	0.002	25	1,665.00
100787	CISL1N	CAPP1U-50EE-LU	18 x 18	1	60	0.002	30	0.001	71	1,905.00
100788	CISL1N	CAPP1U-100EE-LU	18 x 18	1	150	0.005	60	0.002	71	1,905.00
100789	CISL1N	CAPP1U-200EE-LU	18 x 18	1	200	0.01	100	0.005	71	1,905.00

Base Construction: Galvanized or painted steel base mechanism with stainless steel platform cover
Indicator Included: CISL1N IP44 protection rated (PN 102399) See Combics 1 Plus Catalog Page

100790	CISL1U	CAPS1U-10CC-LU	10 x 10	1	15	0.0005	6	0.0002	21	$2,045.00
100791	CISL1U	CAPS1U-20CC-LU	10 x 10	1	30	0.001	15	0.0005	21	2,045.00
100792	CISL1U	CAPS1U-50CC-LU	10 x 10	1	60	0.002	30	0.001	21	2,045.00
100793	CISL1U	CAPS1U-50DD-LU	12 x 12	1	60	0.002	30	0.001	25	2,160.00
100794	CISL1U	CAPS1U-100DD-LU	12 x 12	1	150	0.005	60	0.002	25	2,160.00
100795	CISL1U	CAPS1U-50EE-LU	18 x 18	1	60	0.002	30	0.001	71	2,425.00
100796	CISL1U	CAPS1U-100EE-LU	18 x 18	1	150	0.005	60	0.002	71	2,425.00
100797	CISL1U	CAPS1U-200EE-LU	18 x 18	1	200	0.01	100	0.005	71	2,425.00

Base Construction: 100% ASIS 304 stainless steel
Indicator Included: CISL1U IP67 protection rated (PN 102398) See Combics 1 Plus Catalog Page

100802	CIS1N	CAPS1U-10CC-LU	10 x 10	1	15	0.0005	6	0.0002	21	$2,160.00
100803	CIS1N	CAPS1U-20CC-LU	10 x 10	1	30	0.001	15	0.0005	21	2,160.00
100804	CIS1N	CAPS1U-50CC-LU	10 x 10	1	60	0.002	30	0.001	21	2,160.00
100805	CIS1N	CAPS1U-50DD-LU	12 x 12	1	60	0.002	30	0.001	25	2,275.00
100806	CIS1N	CAPS1U-100DD-LU	12 x 12	1	150	0.005	60	0.002	25	2,275.00
100807	CIS1N	CAPS1U-50EE-LU	18 x 18	1	60	0.002	30	0.001	71	2,540.00
100808	CIS1N	CAPS1U-100EE-LU	18 x 18	1	150	0.005	60	0.002	71	2,540.00
100809	CIS1N	CAPS1U-200EE-LU	18 x 18	1	200	0.01	100	0.005	71	2,540.00

Base Construction: 100% ASIS 304 stainless steel
Indicator Included: CIS1N IP67 protection rated (PN 102401) See Combics 1 Plus Catalog Page

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Sartorius® Combics CW Series

Plug-and-Weigh

RLWS PN	INDICATOR	SARTORIUS PN	BASE DIMENSIONS (IN)	# LOAD CELLS	CAPACITY READABILITY (LB)		CAPACITY READABILITY (KG)		EST. SHIP WEIGHT (LB)	LIST PRICE
100813	CISL2U	CAPP1U-10CC-LU	10 x 10	1	15	0.0005	6	0.0002	21	$1780.00
100814	CISL2U	CAPP1U-20CC-LU	10 x 10	1	30	0.001	15	0.0005	21	1,780.00
100815	CISL2U	CAPP1U-50CC-LU	10 x 10	1	60	0.002	30	0.001	21	1,780.00
100816	CISL2U	CAPP1U-50DD-LU	12 x 12	1	60	0.002	30	0.001	25	1,865.00
100818	CISL2U	CAPP1U-100DD-LU	12 x 12	1	150	0.005	60	0.002	25	1,865.00
100819	CISL2U	CAPP1U-50EE-LU	18 x 18	1	60	0.002	30	0.001	71	2,100.00
100821	CISL2U	CAPP1U-100EE-LU	18 x 18	1	150	0.005	60	0.002	71	2,100.00
100822	CISL2U	CAPP1U-200EE-LU	18 x 18	1	200	0.01	100	0.005	71	2,100.00

Base Construction: Galvanized or painted steel base mechanism with stainless steel platform cover
Indicator Included: CISL2-U IP44 protection rated PN102402) - See Combics 2 Catalog Page

100824	CIS2U	CAPS1U-10CC-LU	10 x 10	1	15	0.0005	6	0.0002	21	$2,360.00
100825	CIS2U	CAPS1U-20CC-LU	10 x 10	1	30	0.001	15	0.0005	21	2,360.00
100826	CIS2U	CAPS1U-50CC-LU	10 x 10	1	60	0.002	30	0.001	21	2,360.00
100827	CIS2U	CAPS1U-50DD-LU	12 x 12	1	60	0.002	30	0.001	25	2,470.00
100828	CIS2U	CAPS1U-100DD-LU	12 x 12	1	150	0.005	60	0.002	25	2,470.00
100829	CIS2U	CAPS1U-50EE-LU	18 x 18	1	60	0.002	30	0.001	71	2,740.00
100830	CIS2U	CAPS1U-100EE-LU	18 x 18	1	150	0.005	60	0.002	71	2,740.00
100831	CIS2U	CAPS1U-200EE-LU	18 x 18	1	200	0.01	100	0.005	71	2,740.00

Base Construction: 100% stainless steel IP67
Indicator Included: CIS2U IP67 protection rated (PN 102404) - See Combics 2 Catalog Page

100875	CISL3U	CAPP1U-10CC-LU	10 x 10	1	15	0.0005	6	0.0002	21	$2,255.00
100876	CISL3U	CAPP1U-20CC-LU	10 x 10	1	30	0.001	15	0.0005	21	2,255.00
100877	CISL3U	CAPP1U-50CC-LU	10 x 10	1	60	0.002	30	0.001	21	2,255.00
100878	CISL3U	CAPP1U-50DD-LU	12 x 12	1	60	0.002	30	0.001	25	2,330.00
100879	CISL3U	CAPP1U-100DD-LU	12 x 12	1	150	0.005	60	0.002	25	2,330.00
100880	CISL3U	CAPP1U-50EE-LU	18 x 18	1	60	0.002	30	0.001	71	2,565.00
100881	CISL3U	CAPP1U-100EE-LU	18 x 18	1	150	0.005	60	0.002	71	2,565.00
100882	CISL3U	CAPP1U-200EE-LU	18 x 18	1	200	0.01	100	0.005	71	2,565.00

Base Construction: Galvanized or painted steel base mechanism with stainless steel platform cover
Indicator included: CISL3U IP44 protection rated (PN 102405)

100883	CIS3U	CAPS1U-10CC-LU	10 x 10	1	15	0.0005	6	0.0002	21	$2,825.00
100884	CIS3U	CAPS1U-20CC-LU	10 x 10	1	30	0.001	15	0.0005	21	2,825.00
100885	CIS3U	CAPS1U-50CC-LU	10 x 10	1	60	0.002	30	0.001	21	2,825.00
100886	CIS3U	CAPS1U-50DD-LU	12 x 12	1	60	0.002	30	0.001	25	2,940.00
100887	CIS3U	CAPS1U-100DD-LU	12 x 12	1	150	0.005	60	0.002	25	2,940.00
100888	CIS3U	CAPS1U-50EE-LU	18 x 18	1	60	0.002	30	0.001	71	3,210.00
100889	CIS3U	CAPS1U-100EE-LU	18 x 18	1	150	0.005	60	0.002	71	3,210.00
100890	CIS3U	CAPS1U-200EE-LU	18 x 18	1	200	0.01	100	0.005	71	3,210.00

Base Construction: 100% AISI 304 stainless steel
Indicator included: CIS3U IP67 protection rated (PN 102407)

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Sartorius® Combics Pro

Digital Weight Indicators



STANDARD FEATURES

- High-contrast, backlit, color display with 320 x 240 pixel resolution
- Alphanumeric keypad with ABC input
- Five soft keys
- RS-232C, Ethernet and PS/2 interfaces
- Wall mount bracket
- Fully programmable graphical development tool (GDT) for easy programming and testing (ColdFire technology)
- GMP/GLP printout
- Configured printout
- Real time clock for time and date

SPECIFICATIONS

POWER REQUIREMENTS:
120 - 240 VAC, 50/60 HZ

POWER CONSUMPTION:
14.5 W/ 19 VA

SUPPLY VOLTAGE:
12 VDC
8 Load Cells of 650 ohms
4 Load Cells of 350 ohms

DIMENSIONS:
14.8 in W x 11.1 in D x 5.7 in H

OPERATING TEMPERATURE:
+14°F to 104° F

NET WEIGHT:
8.4 lb

ENCLOSURE:
AISI 304 stainless steel
IP30, IP67 with optional kit

OPTIONAL INTERFACES:
PR 5510, RS-232, RS-485/422
PR 5510/07, Analog Output 0/4-20 mH
PR 1721/31 Profibus-DP Slave
PR1721/32 Interbus-S Slave
PR 1721/34 Device Net Slave
PR 5510/14 Ethernet 10/100 Modbus TCP

WARRANTY:
Two-year limited warranty
One year accessories

RLWS PN	SARTORIUS PN	DESCRIPTION	EST. SHIP WEIGHT (LB)	LIST PRICE
102395	CISPRO	Combics Pro Weighing Terminal	17	$2,305.00
OPTIONS/ACCESSORIES:				
N/A	YAS04CISPRO	Control Panel Front Mount Kit		Consult Factory
N/A	YAS05CISPRO	Front Plate for Flush Mount		Consult Factory
N/A	YAS06CISPRO	Wall Mount Bracket Kit		Consult Factory

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Sartorius® Combics 1

Digital Weight Indicators



STANDARD FEATURES

- Choice of IP protection rating (IP44, IP45, IP67)
- Amber backlit LCD display, .8 in, 7 Segment
- External calibration routine
- RS-232C - DB25 Female
- On/Off , Zero, Tare, Print/Data Key
- Function Keys For: Gross/net toggle; three-way unit toggle; 10X higher resolution toggle
- Automatic tare feature
- Two header line storage
- Battery charge status display (with connection of battery pack)

APPLICATION NOTE

- Combics 1 and Combics 1 Plus indicators are designed for use with both Combics and IF series platforms. However, various accessories may differ and are application dependent.
- Battery Pack (optional) 10-40 hours run time, 6 hours change time.

SPECIFICATIONS

LOAD CELL CONNECTION:
4 or 6 wire

SUPPLY VOLTAGE:
9 V

BATTERY OPTIONS:
10-40 hours run time
6 hours charge time

POWER REQUIREMENTS:
120-240 VAC, 17 W/23 VA maximum

HOUSING:
AISI 304 stainless steel

DIMENSIONS:
11.9 in W x 7.4 in D x 3.5 in H

OPERATING TEMPERATURE:
+14° to 104° F

NET WEIGHT:
5 lb

WARRANTY:
Two-year limited warranty
Accessories-one year

RLWS PN	SARTORIUS PN	DESCRIPTION	EST. SHIP WEIGHT (LB)	LIST PRICE
102396	CISL1U	IP44 Protection rated	7.5	$680.00
102397	CISL1U-4	IP65/NEMA4 Protection Rated; includes YAS01CISL upgrade	7.5	790.00
102398	CIS1U	IP67/NEMA4X Protection Rated	7.5	940.00
OPTIONS/ACCESSORIES				
103044	YDA01C-2O mA	Analog Output 0/4-20 mH		355.00
103045	YDO01C-DP	Profibus		795.00
103046	YDO01C-EN	Ethernet		530.00
103052	YRB102	Battery Pack requires 103050		515.00
103050	YCC02-RB01	Battery Pack Cable		215.00
105606	YASO3C1	Panel Mount Kit		190.00
105607	YDH02CISUS	Wall Mount Bracket		65.00
Consult		Columns Available		Consult

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Sartorius® Combics 1 Plus

Digital Weight Indicators



STANDARD FEATURES

- Choice of IP protection rating (IP44, IP45, IP67)
- Amber backlit LCD display - .8 in, 7 segment
- External calibration routine
- RS-232C
- On/Off , Zero, Tare Print/Data Keys
- Function Keys For: Gross/net toggle; three-way unit toggle; 10X higher resolution toggle
- Automatic tare feature
- Two header line storage
- Battery charge status display (with connection of battery pack)
- Numeric keypad with two “ID” for entering identifier codes and preset tare
- Info key for quick and easy display of tare input and ID codes
- Date/time printout
- GMP/GLP printable record

APPLICATION NOTE

- Combics 1 and Combics 1 Plus indicators are designed for use with both Combics and IF series platforms. However, various accessories may differ and are application dependent.

SPECIFICATIONS

LOAD CELL CONNECTION:
4 or 6 wire

SUPPLY VOLTAGE:
9 V

BATTERY OPTION:
10-40 hours run time
6 hours charge time

POWER REQUIREMENTS:
120-240 VAC, 17 W / 23 VA maximum

HOUSING:
AISI 304 stainless steel

DIMENSIONS:
11.9 in W x 7.4 in D x 3.5 in H

OPERATING TEMPERATURE:
+14°F to 104° F

NET WEIGHT:
5 lbs

WARRANTY:
Two-year limited warranty
One year accessories

RLWS PN	SARTORIUS PN	DESCRIPTION	EST. SHIP WEIGHT (LB)	LIST PRICE
102399	CISL1N	IP44 Protection rated	7.5	$820.00
102400	CISL1N-4	IP65/NEMA4 Protection Rated; With YAS01CISL upgrade	7.5	940.00
102401	CIS1N	IP67/NEMA4X Protection Rated	7.5	1,055.00
OPTIONS/ACCESSORIES				
103044	YDA01C-20mA	Analog Output-0/20/4-20mA		355.00
103045	YDO01C-DP	Profibus		795.00
103046	YDO01C-EN	Ethernet		530.00
103052	YRB10Z	Battery Pack, requires 103050		515.00
103050	YCC02-RB01	Battery Pack Cable		215.00
105606	YAS03C1	Panel Mount Kit		190.00
105607	YDH02CISUS	Wall Mount Bracket		65.00
N/A		Columns Available		Consult

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Sartorius® Combics 2

Digital Weight Indicators



APPLICATION NOTE

- Combics 2 and Combics 3 indicators are designed for use with both Combics and IF series platforms. However, various accessories may differ and are application dependent.

APPLICATIONS SOFTWARE PRE-INSTALLED

- Counting, checkweighing, differential weighing, percentage weighing, gross-net-tare; sorting; net-total, animal weighing
- Battery pack (optional) 10-40 run time, 6 hours change time

STANDARD FEATURES

- Choice of IP protection rating (IP44, IP45, IP67)
- Amber backlit LCD display, .8in, 7 segment
- External calibration routine
- RS-232C
- On/Off, Zero, Tare, Print/Data Keys
- Function Keys For: Gross/net toggle; three-way unit toggle; 10X higher resolution toggle
- Automatic tare feature
- Two header line storage
- Battery charge status display (with connection of battery pack)
- Numeric keypad with two "ID" for entering identifier codes and preset tare
- Info key for quick and easy display of tare input and ID codes
- Date/time fully integrated
- GMP compliant printable record
- NICE Label Express FlexiPrint compatible
- Platform toggling and four function keys
- Three built-in LED checkweighing lights
- Bar graph weighing range indicator
- Application data and totalization memory stored in battery-backed RAM
- Optional barcode scanner for preset tare, reference weight and ID entry
- Stored customer specific data records

SPECIFICATIONS

LOAD CELL CONNECTION:
4 or 6 wire

SUPPLY VOLTAGE:
9V

BATTERY PACK OPTION:
10-40 hours run time
6 hours charge time

POWER REQUIREMENTS:
120-240VAC, 17W / 23VA maximum

HOUSING:
AISI 304 stainless steel

DIMENSIONS:
11.9in W x 7.4in D x 3.5in H

OPERATING TEMPERATURE:
+14°F to 104° F

NET WEIGHT:
5lb

WARRANTY:
Two-year limited warranty
Accessories one year

RLWS PN	SARTORIUS PN	DESCRIPTION	EST. SHIP WEIGHT (LB)	LIST PRICE
102402	CISL2U	IP44 Protection rated	7.5	$1,015.00
102403	CISL2U-4	(IP65/NEMA4 protection rated; includes YAS01CISL)	7.5	1,130.00
102404	CIS2U	IP67/NEMA4X Protection Rated	7.5	1,245.00
OPTIONS/ACCESSORIES				
103044	YDA01C-20mA	Analog Output 014-20mA		355.00
103045	YDO01C-DP	Profibus		795.00
103046	YDO01C-EN	Ethernet		530.00
103052	YRB102	Battery Pack requires 103050		515.00
103050	YCC02-RB01	Battery Pack Cable		215.00
105606	YAS03C1	Panel Mount Kit		190.00
105607	YDH02CISUS	Wall Mount Bracket		65.00
N/A		Columns Available		Consult

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Sartorius® Combics 3

Digital Weight Indicators



APPLICATIONS SOFTWARE PRE-INSTALLED

- Counting, checkweighing, differential weighing, percentage weighing, gross-net-tare; sorting; net-total, animal weighing

CUSTOM APPLICATIONS PACKAGES

- Single component batching BASIC
- Single component batching PRO

ACCESSORIES

- A full array of electrical components; software, optional interfaces, power supplies, indicator mounting hardware and others accessories are available. Please call for details.

STANDARD FEATURES

- Choice of IP protection rating (IP44, IP45, IP67)
- Amber backlit LCD display
- External calibration routine
- Two Serial Ports
- On/Off Zero, Tare, Print/Data Keys
- Function Keys For: Gross/net toggle; 3-way unit toggle; 10X higher resolution toggle
- Automatic tare feature
- Two header line storage
- Battery charge status display (with connection of optional battery pack)
- Numeric keypad with two “ID” for entering identifier codes and preset tare
- Info key for quick and easy display of tare input and ID codes
- Date/time fully integrated
- GMP/GLP printable record
- NICE Label Express FlexiPrint compatible
- Platform toggling and four function keys
- Three built-in LED checkweighing lights
- Bar graph weighing range indicator
- Application data and totalization memory stored in battery-backed RAM
- Optional barcode scanner for preset tare, reference weight and ID entry
- Stored customer specific data records
- Alphanumeric keypad
- Key for toggling between weighing application, and five soft keys with text-supported user guidance
- Input functions for entering up to four alphanumeric ID texts

SPECIFICATIONS

LOAD CELL CONNECTION:
4 or 6 wire

SUPPLY VOLTAGE:
9V

POWER REQUIREMENTS:
120-240VAC, 17W / 23VA maximum

HOUSING:
AISI 304 stainless steel

DIMENSIONS:
11.9in W x 7.4in D x 3.5in H

OPERATING TEMPERATURE:
+14°F to 104°F

NET WEIGHT:
5lb

WARRANTY:
Two-year limited warranty
One year accessories

RLWS PN	SARTORIUS PN	DESCRIPTION	EST. SHIP WEIGHT (LB)	LIST PRICE
102405	CISL3U	IP44 Protection rated	7.5	$1,470.00
102406	CISL3U-4	IP65/NEMA4 protection rated; includes YAS01CISL	7.5	1,510.00
102407	CIS3U	IP67/NEMA4X Protection Rated	7.5	1,585.00
OPTIONS/ACCESSORIES				
103044	YDA01C-20mA	Analog Output 0/4-20mA		355.00
103045	YDO01C-DP	Profibus		795.00
103046	YDO01C-EN	Ethernet		530.00
103052	YRB102	Battery Pack requires 103050		515.00
103050	YCC02-RB01	Battery Pack Cable		215.00
105606	YAS03C1	Panel Mount Kit		190.00
105607	YDHO2CISUS	Wall Mount Bracket		65.00
N/A		Columns Available		Consult

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Sartorius® Combics

Bench and Floor Platforms





Pictured w/optional Indicator

STANDARD FEATURES

- Cost-effective industrial weighing
- Eleven sizes and capacities
- One or four load cells (as noted)
- Choice of smooth steel or treadplate load ramps available
- Complete selection of pit frames for flush mounting available
- NTEP (up to 5000e) and high resolution 30,000 dd versions available
- Compatible with all Combics indicators

MILD STEEL

- NEMA4/IP65 protection rating
- Zinc plated steel frame for basis up to 30 in x 30 in
- Painted steel frame and platform for basis 36 in x 36 in and larger
- 304 stainless steel platforms

STAINLESS STEEL

- IP67/NEMA4X-cell/IP68/4 cell systems
- 304 stainless steel
- Hermetically-sealed, IP68 load cells

OPTIONAL CONFIGURATIONS

MILD STEEL

- 304 stainless steel platform cover for bases 36 in x 36 in and larger
- Painted steel treadplate platform cover for bases 36 in x 36 in and larger

STAINLESS STEEL

- 304 stainless steel platform cover for bases 36 in x 36 in and larger
- Painted steel treadplate platform cover for bases 36 in x 36 in and larger

APPROVALS

SPECIFICATIONS

CABLE LENGTH:
10 ft/3 m-up to 1000 lbs 30 in x 30 in
20 ft/6 m 1000 lbs and above 36 in x 36 in

OPERATING TEMPERATURE:
+14°F to 104°F

HEIGHT:
Adjustable feet

WARRANTY:
Two-year limited warranty
Accessories one year

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Sartorius® Combics

Painted Steel

RLWS PN	SARTORIUS PN	DIMENSIONS (IN)	FOOT ADJUSTABLE HEIGHT (IN)	# LOAD CELLS	CAPACITY READABILITY (LB) NON-NTEP		CAPACITY READABILITY (KG) NON-NTEP		EST. SHIP WEIGHT (LB)	LIST PRICE
102285	CAPP1U-10CC-LU	10 x 10	2.7-3.6	1	15	0.005	6	0.002	14	$630.00
102286	CAPP1U-20CC-LU	10 x 10	2.7-3.6	1	30	0.001	15	0.0005	14	630.00
102287	CAPP1U-50CC-LU	10 x 10	2.7-3.6	1	60	0.002	30	0.001	14	630.00
102288	CAPP1U-50DD-LU	12 X 12	3.6-4.5	1	60	0.002	30	0.001	18	695.00
102291	CAPP1U-100DD-LU	12 X 12	3.6-4.5	1	150	0.005	60	0.002	18	695.00
102289	CAPP1U-50EE-LU	18 x 18	3.5-4.4	1	60	0.002	30	0.001	64	925.00
102292	CAPP1U-100EE-LU	18 x 18	3.5-4.4	1	150	0.005	60	0.002	64	925.00
102297	CAPP1U-200EE-LU	18 x 18	3.5-4.4	1	200	0.01	100	0.005	64	925.00
102290	CAPP1U-50GE-LU	24 X 18	3.8-4.1	1	60	0.002	30	0.001	99	1,325.00
102293	CAPP1U-100GE-LU	24 X 18	3.8-4.1	1	150	0.005	60	0.002	99	1,325.00
102298	CAPP1U-200GE-LU	24 X 18	5.7-6.7	1	200	0.01	100	0.005	99	1,325.00
102294	CAPP1U-100GG-LU	24 X 24	5.7-6.7	1	150	0.005	60	0.002	121	1,385.00
102299	CAPP1U-250GG-LU	24 X 24	5.9-6.4	1	300	0.01	150	0.005	121	1,385.00
102302	CAPP1U-500GG-LU	24 X 24	5.7-6.7	1	600	0.02	300	0.01	121	1,385.00
102295	CAPP1U-100HG-LU	30 X 24	5.71-6.71	1	150	0.005	60	0.002	143	1,685.00
102300	CAPP1U-250HG-LU	30 X 24	5.71-6.71	1	300	0.01	150	0.005	143	1,665.00
102303	CAPP1U-500HG-LU	30 X 24	5.71-6.71	1	600	0.02	300	0.01	143	1,665.00
102305	CAPP1U-1000HG-LU	30 X 24	5.7-6.71	1	1500	0.05	600	0.02	143	1,665.00
102296	CAPP1U-100HH-LU	30 X 30	5.71-6.71	1	150	0.005	60	0.002	187	1,725.00
102301	CAPP1U-250HH-LU	30 X 30	5.71-6.71	1	300	0.01	150	0.005	187	1,725.00
102304	CAPP1U-500HH-LU	30 X 30	5.71-6.71	1	600	0.02	300	0.01	187	1,725.00
102306	CAPP1U-1000HH-LU	30 X 30	5.71-6.71	1	1500	0.05	600	0.02	187	1,725.00
102307	CAPP4U-1000KK-LU	36 X 36	3.5	4	1500	0.05	600	0.02	250	2,430.00
102311	CAPP4U-2500KK-LU	36 X 36	3.5	4	3000	0.1	1500	0.05	250	2,430.00
102315	CAPP4U-5000KK-LU	36 X 36	3.5	4	6000	0.2	3000	0.1	250	2,430.00
102308	CAPP4U-1000NN-LU	48 X 48	3.5	4	1500	0.05	600	0.02	390	2,940.00
102312	CAPP4U-2500NN-LU	48 X 48	3.5	4	3000	0.1	1500	0.05	390	2,940.00
102316	CAPP4U-5000NN-LU	48 X 48	3.5	4	6000	0.2	3000	0.1	390	2,940.00
102319	CAPP4U-10000NN-LU	48 X 48	3.5	4	15,000	0.5	6000	0.2	390	2,940.00
102309	CAPP4U-1000RN-LU	60 X 48	3.5	4	1500	0.05	600	0.02	465	3,260.00
102313	CAPP4U-2500RN-LU	60 X 48	3.5	4	3000	0.1	1500	0.05	465	3,260.00
102317	CAPP4U-5000RN-LU	60 X 48	3.5	4	6000	0.2	3000	0.1	465	3,260.00
102320	CAPP4U-10000RN-LU	60 X 48	3.5	4	15,000	0.5	6000	0.2	465	3,260.00
102310	CAPP4U-1000RR-LU	60 X 60	4.2-5.2	4	1500	0.05	600	0.02	600	3,595.00
102314	CAPP4U-2500RR-LU	60 X 60	4.2-5.2	4	3000	0.1	1500	0.5	600	3,595.00
102318	CAPP4U-5000RR-LU	60 X 60	4.2-5.2	4	6000	0.2	3000	0.1	600	3,595.00
102321	CAPP4U-10000RR-LU	60 X 60	4.2-5.2	4	15,000	0.5	6000	0.2	600	3,595.00

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Sartorius® Combics

Stainless Steel

RLWS PN	SARTORIUS PN	DIMENSIONS (IN)	FOOT ADJUSTMENT HEIGHT (IN)	# LOAD CELLS	CAPACITY READABILITY (LB) NON-NTEP		CAPACITY READABILITY (KG) NON-NTEP		EST. SHIP WEIGHT (LB)	LIST PRICE
102429	CAPS1U-10CC-LU	10 x 10	2.6-3.4 in	1	15	0.005	6	0.002	16	$830.00
102430	CAPS1U-20CC-LU	10 x 10	2.6-3.4 in	1	30	0.001	15	0.0005	16	830.00
102431	CAPS1U-50CC-LU	10 x 10	2.6-3.4 in	1	60	0.002	30	0.001	16	830.00
102432	CAPS1U-50DD-LU	12 X 12	3.3-4.4 in	1	60	0.002	30	0.001	24	930.00
102433	CAPS1U-100DD-LU	12 X 12	3.5-4.4 in	1	150	0.005	60	0.002	24	930.00
102434	CAPS1U-50EE-LU	18 x 18	3.5-4.4 in	1	60	0.002	30	0.001	62	1,150.00
102435	CAPS1U-100EE-LU	18 x 18	3.5-4.4 in	1	150	0.005	60	0.002	62	1,150.00
102436	CAPS1U-200EE-LU	18 x 18	3.5-4.4 in	1	200	0.01	100	0.005	62	1,150.00
102437	CAPS4U-50GE-LU	24 X 18	3.4-3.6 in	1	60	0.002	30	0.001	99	2,815.00
102438	CAPS4U-100GE-LU	24 X 18	3.4-3.6 in	4	150	0.005	60	0.002	99	2,815.00
102439	CAPS4U-200GE-LU	24 X 18	3.4-3.6 in	4	300	0.01	150	0.005	121	2,815.00
102458	CAPS4U-100GG-LU	24 X 24	3.4-3.6 in	4	150	0.005	60	0.002	121	3,070.00
102460	CAPS4U-250GG-LU	24 X 24	3.4-3.6 in	4	300	0.01	150	0.005	121	3,070.00
102461	CAPS4U-500GG-LU	24 X 24	3.4-3.6 in	4	600	0.02	300	0.01	121	3,070.00
102462	CAPS4U-100HG-LU	30 X 24	3.4-3.6 in	4	150	0.005	60	0.002	250	3,325.00
102463	CAPS4U-250HG-LU	30 X 24	3.4-3.6 in	4	300	0.01	150	0.005	250	3,325.00
102464	CAPS4U-500HG-LU	30 X 24	3.4-3.6 in	4	600	0.02	300	0.01	250	3,325.00
102465	CAPS4U-1000HG-LU	30 X 24	3.4-3.6 in	4	1500	0.05	600	0.02	250	3,325.00
102466	CAPS4U-100HH-LU	30 X 30	3.4-3.6 in	4	150	0.005	60	0.002	187	3,390.00
102467	CAPS4U-250HH-LU	30 X 30	3.4-3.6 in	4	300	0.01	150	0.005	187	3,390.00
102468	CAPS4U-500HH-LU	30 X 30	3.4-3.6 in	4	600	0.02	300	0.01	187	3,390.00
102469	CAPS4U-1000HH-LU	30 X 30	3.4-3.6 in	4	1500	0.05	600	0.02	187	3,390.00
102470	CAPS4U-1000KK-LU	36 X 36	3.5 in	4	1500	0.05	600	0.02	250	4,545.00
102471	CAPS4U-2500KK-LU	36 X 36	3.5 in	4	3000	0.1	1500	0.05	250	4,325.00
102472	CAPS4U-5000KK-LU	36 X 36	3.5 in	4	6000	0.2	3000	0.1	250	4,325.00
102473	CAPS4U-1000NN-LU	48 X 48	3.5 in	4	1500	0.05	600	0.02	390	5,505.00
102474	CAPS4U-2500NN-LU	48 X 48	3.5 in	4	3000	0.1	1500	0.05	390	5,240.00
102475	CAPS4U-5000NN-LU	48 X 48	3.5 in	4	6000	0.2	3000	0.1	390	5,240.00
102476	CAPS4U-10000NN-LU	48 X 48	3.5 in	4	15,000	0.5	6000	0.2	390	5,665.00
102477	CAPS4U-1000RN-LU	60 X 48	3.5 in	4	1500	0.05	600	0.02	465	6,205.00
102478	CAPS4U-2500RN-LU	60 X 48	3.5 in	4	3000	0.1	1500	0.05	465	5,240.00
102479	CAPS4U-5000RN-LU	60 X 48	3.5 in	4	6000	0.2	3000	0.1	465	5,905.00
102480	CAPS4U-10000RN-LU	60 X 48	3.5 in	4	15,000	0.5	6000	0.2	465	5,905.00
102481	CAPS4U-1000RR-LU	60 X 60	3.5 in	4	1500	0.05	600	0.02	600	6,975.00
102482	CAPS4U-2500RR-LU	60 X 60	3.5 in	4	3000	0.1	1500	0.5	600	5,905.00
102483	CAPS4U-5000RR-LU	60 X 60	3.5 in	4	6000	0.2	3000	0.1	600	6,405.00
102484	CAPS4U-10000RR-LU	60 X 60	3.5 in	4	15,000	0.5	6000	0.2	600	6,940.00

RICE LAKE WEIGHING SYSTEMS

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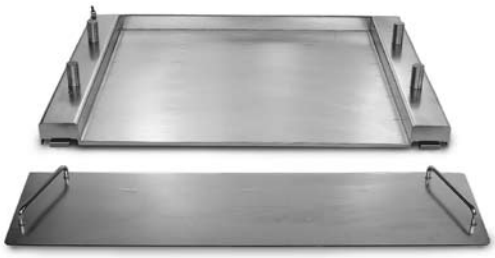
Sartorius® IF Series

Painted Steel Platforms





Optional Handles



STANDARD FEATURES

- Various options for portability utilizing unique MoveLine weighing platform
- Four strain gauge stainless steel load cells ensure precise results
- Ultra low profile: standard platform height is 35 mm; optional heights available as low as 25 mm (call for details)
- Material/surface finish: mild steel powder coated
- Resolution: scale intervals of 15,000 dd or 30,000 dd
- Drive-on ramp included with every platform
- Eleven sizes and six capacities
- No pit required
- IP65/NEMA4 dust and water protection
- Compatible with all Combics indicators

APPLICATIONS

- Pharmaceutical, chemical, electronics, food processing, precious metals, metal production and processing

SPECIFICATIONS

RATING:
IP68

LOAD CELLS:
Four hermetically sealed IP68

CABLE LENGTH:
6 m (19.7 ft)

REGULATORY COMPLIANCE:
HACCP, FDA

WARRANTY:
Two-year limited warranty

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Sartorius® IF Series

Painted Steel

RLWS PN	SARTORIUS PN	DIMENSIONS (IN)	# LOAD CELLS	CAPACITY	READABILITY (LB)	CAPACITY	READABILITY (KG)	EST. SHIP WEIGHT (LB)	LIST PRICE
100970	IFP4-150GG-I	23.6 X 23.6	4	330	0.01	150	0.005	198	$4,750.00
100973	IFP4-300GG-I	23.6 X 23.6	4	660	0.02	300	0.01	198	4,750.00
100974	IFP4-600GG-I	23.6 X 23.6	4	1320	0.05	600	0.02	198	4,750.00
100975	IFP4-1000GG-I	23.6 X 23.6	4	2200	0.1	1000	0.05	198	4,750.00
100984	IFP4-150IG-I	31.5 X 23.6	4	330	0.01	150	0.005	221	4,810.00
100986	IFP4-300IG-I	31.5 X 23.6	4	660	0.02	300	0.01	221	4,810.00
100987	IFP4-600IG-I	31.5 X 23.6	4	1320	0.05	600	0.02	221	4,810.00
100988	IFP4-1000IG-I	31.5 X 23.6	4	2200	0.1	1000	0.05	221	4,810.00
100991	IFP4-150II-I	31.5 X 31.5	4	330	0.01	150	0.005	243	4,860.00
100992	IFP4-300II-I	31.5 X 31.5	4	660	0.02	300	0.01	243	4,860.00
100993	IFP4-600II-I	31.5 X 31.5	4	1320	0.05	600	0.02	243	4,860.00
100994	IFP4-1000II-I	31.5 X 31.5	4	2200	0.1	1000	0.05	243	4,860.00
100995	IFP4-1500II-I	31.5 X 31.5	4	3300	0.1	1500	0.05	243	4,860.00
101005	IFP4-150LG-I	39.4 X 23.6	4	330	0.01	150	0.005	243	4,860.00
101006	IFP4-300LG-I	39.4 X 23.6	4	660	0.02	300	0.01	243	4,860.00
101007	IFP4-600LG-I	39.4 X 23.6	4	1320	0.05	600	0.02	243	4,860.00
101008	IFP4-1000LG-I	39.4 X 23.6	4	2200	0.1	1000	0.05	243	4,860.00
101009	IFP4-1500LG-I	39.4 X 23.6	4	3300	0.1	1500	0.05	243	4,860.00
101010	IFP4-150LI-I	39.4 X 31.5	4	330	0.01	150	0.005	265	4,915.00
101011	IFP4-300LI-I	39.4 X 31.5	4	660	0.02	300	0.01	265	4,915.00
101012	IFP4-600LI-I	39.4 X 31.5	4	1320	0.05	600	0.02	265	4,915.00
101013	IFP4-1000LI-I	39.4 X 31.5	4	2200	0.1	1000	0.05	265	4,915.00
101014	IFP4-1500LI-I	39.4 X 31.5	4	3300	0.1	1500	0.05	265	4,915.00
101015	IFP4-150LL-I	39.4 X 39.4	4	330	0.01	150	0.005	375	5,185.00
101016	IFP4-300LL-I	39.4 X 39.4	4	660	0.02	300	0.01	375	5,185.00
101017	IFP4-600LL-I	39.4 X 39.4	4	1320	0.05	600	0.02	375	5,185.00
101018	IFP4-1000LL-I	39.4 X 39.4	4	2200	0.1	1000	0.05	375	5,185.00
101019	IFP4-1500LL-I	39.4 X 39.4	4	3300	0.1	1500	0.05	376	5,185.00
101020	IFP4-3000LL-I	39.4 X 39.4	4	6600	0.2	3000	0.1	376	5,185.00
101021	IFP4-150NL-I	49.2 X 39.4	4	330	0.01	150	0.005	397	5,290.00
101022	IFP4-300NL-I	49.2 X 39.4	4	660	0.02	300	0.01	397	5,290.00
101023	IFP4-600NL-I	49.2 X 39.4	4	1320	0.05	600	0.02	397	5,290.00
101024	IFP4-1000NL-I	49.2 X 39.4	4	2200	0.1	1000	0.05	397	5,290.00
101025	IFP4-1500NL-I	49.2 X 39.4	4	3300	0.1	1500	0.05	397	5,290.00
101026	IFP4-3000NL-I	49.2 X 39.4	4	6600	0.2	3000	0.1	397	5,290.00
101027	IFP4-150NN-I	49.2 X 49.2	4	330	0.01	150	0.005	481	5,515.00
101028	IFP4-300NN-I	49.2 X 49.2	4	660	0.02	300	0.01	481	5,515.00
101029	IFP4-600NN-I	49.2 X 49.2	4	1320	0.05	600	0.02	481	5,515.00
101030	IFP4-1000NN-I	49.2 X 49.2	4	2200	0.1	1000	0.05	481	5,515.00
101031	IFP4-1500NN-I	49.2 X 49.2	4	3300	0.1	1500	0.05	481	5,515.00
101032	IFP4-3000NN-I	49.2 X 49.2	4	6600	0.2	3000	0.1	481	5,515.00
101033	IFP4-150RN-I	59.1 X 49.2	4	330	0.01	150	0.005	547	5,780.00
101034	IFP4-300RN-I	59.1 X 49.2	4	660	0.02	300	0.01	547	5,780.00
101035	IFP4-600RN-I	59.1 X 49.2	4	1320	0.05	600	0.02	547	5,780.00
101036	IFP4-1000RN-I	59.1 X 49.2	4	2200	0.1	1000	0.05	547	5,780.00
101037	IFP4-1500RN-I	59.1 X 49.2	4	3300	0.1	1500	0.05	547	5,780.00

RICE LAKE WEIGHING SYSTEMS

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Sartorius® IF Series

Painted Steel

RLWS PN	SARTORIUS PN	DIMENSIONS (IN)	# LOAD CELLS	CAPACITY	READABILITY (LB)	CAPACITY	READABILITY (KG)	EST. SHIP WEIGHT (LB)	LIST PRICE
101038	IFP4-3000RN-I	59.1 X 49.2	4	6600	0.2	3000	0.1	547	$5,780.00
101039	IFP4-150RR-I	59.1 X 59.1	4	330	0.01	150	0.005	628	6,055.00
101040	IFP4-300RR-I	59.1 X 59.1	4	660	0.02	300	0.01	628	6,055.00
101041	IFP4-600RR-I	59.1 X 59.1	4	1320	0.05	600	0.02	628	6,055.00
101042	IFP4-1000RR-I	59.1 X 59.1	4	2200	0.1	1000	0.05	628	6,055.00
101043	IFP4-1500RR-I	59.1 X 59.1	4	3300	0.1	1500	0.05	628	6,055.00
101044	IFP4-3000RR-I	59.1 X 59.1	4	6600	0.2	3000	0.1	628	6,055.00
101045	IFP4-150WR-I	78.7 X 59.1	4	330	0.01	150	0.005	739	6,270.00
101046	IFP4-300WR-I	78.7 X 59.1	4	660	0.02	300	0.01	739	6,270.00
101047	IFP4-600WR-I	78.7 X 59.1	4	1320	0.05	600	0.02	739	6,270.00
101048	IFP4-1000WR-I	78.7 X 59.1	4	2200	0.1	1000	0.05	739	6,270.00
101049	IFP4-1500WR-I	78.7 X 59.1	4	3300	0.1	1500	0.05	739	6,270.00
101050	IFP4-3000WR-I	78.7 X 59.1	4	6600	0.2	3000	0.1	739	6,270.00

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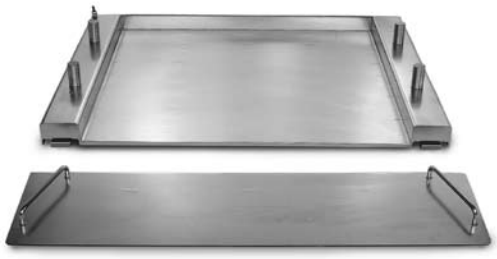
Sartorius® IF Series

Stainless Steel Platforms





Optional Handles



STANDARD FEATURES

- Each IF series stainless steel platform is built with an IP68 protection rating
- 708 basic models with customized options
- Capacities from 150 to 3000kg with resolutions up to 30,000dd
- Various portability options utilizing the unique MoveLine weighing platform
- Pressure lift option
- Ultra low profile: standard platform height is 35mm; optional heights available as low as 25mm
- Material/surface finish: 304 bead-blasted stainless steel
- Drive-on ramp included with every platform
- No pit required
- Convenient for application-oriented weighing systems from processing to the chemical industry
- Compatible with all Combics indicators
- All units built for easy cleaning and disinfection to meet HACCP and FDA requirements for the food/pharmaceutical industries
- Standard configuration: AISI 304 stainless steel

NOTES:

- Add lift = Pharmaline
- Add wheels = Moveline

APPLICATIONS

- Pharmaceutical, chemical, electronics, food processing, precious metals, metal production and processing

SPECIFICATIONS

RATING:
IP68

LOAD CELLS:
Four hermetically sealed IP68

CABLE LENGTH:
6m (19.7ft)

REGULATORY COMPLIANCE:
HACCP, FDA, Class 10,000 clean rooms (US Federal Standard 209D)

WARRANTY:
Two-year limited warranty

RICE LAKE WEIGHING SYSTEMS

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Sartorius® IF Series

Stainless Steel

RLWS PN	SARTORIUS PN	DIMENSIONS (IN)	# LOAD CELLS	CAPACITY READABILITY (LB)		CAPACITY READABILITY (KG)		EST. SHIP WEIGHT (LB)	LIST PRICE
101266	IFS4-150GG-I	23.6 X 23.6	4	330	0.01	150	0.005	198	$7,890.00
101267	IFS4-300GG-I	23.6 X 23.6	4	660	0.02	300	0.01	198	7,890.00
101268	IFS4-600GG-I	23.6 X 23.6	4	1320	0.05	600	0.02	198	7,890.00
101269	IFS4-1000GG-I	23.6 X 23.6	4	2200	0.1	1000	0.05	198	7,890.00
101270	IFS4-150IG-I	31.5 X 23.6	4	330	0.01	150	0.005	221	8,075.00
101274	IFS4-300IG-I	31.5 X 23.6	4	660	0.02	300	0.01	221	8,075.00
101275	IFS4-600IG-I	31.5 X 23.6	4	1320	0.05	600	0.02	221	8,075.00
101279	IFS4-1000IG-I	31.5 X 23.6	4	2200	0.1	1000	0.05	221	8,075.00
101281	IFS4-150II-I	31.5 X 31.5	4	330	0.01	150	0.005	243	8,225.00
101282	IFS4-300II-I	31.5 X 31.5	4	660	0.02	300	0.01	243	8,225.00
101283	IFS4-600II-I	31.5 X 31.5	4	1320	0.05	600	0.02	243	8,225.00
101284	IFS4-1000II-I	31.5 X 31.5	4	2200	0.1	1000	0.05	243	8,225.00
101285	IFS4-1500II-I	31.5 X 31.5	4	3300	0.1	1500	0.05	243	8,225.00
101286	IFS4-150LG-I	39.4 X 23.6	4	330	0.01	150	0.005	243	8,500.00
101287	IFS4-300LG-I	39.4 X 23.6	4	660	0.02	300	0.01	243	8,500.00
101288	IFS4-600LG-I	39.4 X 23.6	4	1320	0.05	600	0.02	243	8,500.00
101289	IFS4-1000LG-I	39.4 X 23.6	4	2200	0.1	1000	0.05	243	8,500.00
101290	IFS4-1500LG-I	39.4 X 23.6	4	3300	0.1	1500	0.05	243	8,500.00
101291	IFS4-150LI-I	39.4 X 31.5	4	330	0.01	150	0.005	265	8,750.00
101293	IFS4-300LI-I	39.4 X 31.5	4	660	0.02	300	0.01	265	8,750.00
101294	IFS4-600LI-I	39.4 X 31.5	4	1320	0.05	600	0.02	265	8,750.00
101295	IFS4-1000LI-I	39.4 X 31.5	4	2200	0.1	1000	0.05	265	8,750.00
101296	IFS4-1500LI-I	39.4 X 31.5	4	3300	0.1	1500	0.05	265	8,750.00
101304	IFS4-150LL-I	39.4 X 39.4	4	330	0.01	150	0.005	375	9,200.00
101305	IFS4-300LL-I	39.4 X 39.4	4	660	0.02	300	0.01	375	9,200.00
101306	IFS4-600LL-I	39.4 X 39.4	4	1320	0.05	600	0.02	375	9,200.00
101307	IFS4-1000LL-I	39.4 X 39.4	4	2200	0.1	1000	0.05	375	9,200.00
101308	IFS4-1500LL-I	39.4 X 39.4	4	3300	0.1	1500	0.05	375	9,200.00
101309	IFS4-3000LL-I	39.4 X 39.4	4	6600	0.2	3000	0.1	375	9,200.00
101310	IFS4-150NL-I	49.2 X 39.4	4	330	0.01	150	0.005	397	9,545.00
101311	IFS4-300NL-I	49.2 X 39.4	4	660	0.02	300	0.01	397	9,545.00
101312	IFS4-600NL-I	49.2 X 39.4	4	1320	0.05	600	0.02	397	9,545.00
101313	IFS4-1000NL-I	49.2 X 39.4	4	2200	0.1	1000	0.05	397	9,545.00
101314	IFS4-1500NL-I	49.2 X 39.4	4	3300	0.1	1500	0.05	397	9,545.00
101315	IFS4-3000NL-I	49.2 X 39.4	4	6600	0.2	3000	0.1	397	9,545.00
101317	IFS4-150NN-I	49.2 X 49.2	4	330	0.01	150	0.005	481	9,945.00
101318	IFS4-300NN-I	49.2 X 49.2	4	660	0.02	300	0.01	481	9,945.00
101319	IFS4-600NN-I	49.2 X 49.2	4	1320	0.05	600	0.02	481	9,945.00
101320	IFS4-1000NN-I	49.2 X 49.2	4	2200	0.1	1000	0.05	481	9,945.00
101321	IFS4-1500NN-I	49.2 X 49.2	4	3300	0.1	1500	0.05	481	9,945.00
101322	IFS4-3000NN-I	49.2 X 49.2	4	6600	0.2	3000	0.1	481	9,945.00
101323	IFS4-150RN-I	59.1 X 49.2	4	330	0.01	150	0.005	547	10,395.00
101324	IFS4-300RN-I	59.1 X 49.2	4	660	0.02	300	0.01	547	10,395.00
101325	IFS4-600RN-I	59.1 X 49.2	4	1320	0.05	600	0.02	547	10,395.00
101326	IFS4-1000RN-I	59.1 X 49.2	4	2200	0.1	1000	0.05	547	10,395.00
101327	IFS4-1500RN-I	59.1 X 49.2	4	3300	0.1	1500	0.05	547	10,395.00

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Sartorius® IF Series

Stainless Steel

RLWS PN	SARTORIUS PN	DIMENSIONS (IN)	# LOAD CELLS	CAPACITY READABILITY (LB)		CAPACITY READABILITY (KG)		EST. SHIP WEIGHT (LB)	LIST PRICE
101328	IFS4-3000RN-I	59.1 X 49.2	4	6600	0.2	3000	0.1	628	$10,395.00
101329	IFS4-150RR-I	59.1 X 59.1	4	330	0.01	150	0.005	628	10,745.00
101330	IFS4-300RR-I	59.1 X 59.1	4	660	0.02	300	0.01	628	10,745.00
101331	IFS4-600RR-I	59.1 X 59.1	4	1320	0.05	600	0.02	628	10,745.00
101332	IFS4-1000RR-I	59.1 X 59.1	4	2200	0.1	1000	0.05	628	10,745.00
101333	IFS4-1500RR-I	59.1 X 59.1	4	3300	0.1	1500	0.05	628	10,745.00
101334	IFS4-3000RR-I	59.1 X 59.1	4	6600	0.2	3000	0.1	739	10,745.00
101335	IFS4-150WR-I	78.7 X 59.1	4	330	0.01	150	0.005	739	11,125.00
101337	IFS4-300WR-I	78.7 X 59.1	4	660	0.02	300	0.01	739	11,125.00
101338	IFS4-600WR-I	78.7 X 59.1	4	1320	0.05	600	0.02	739	11,125.00
101339	IFS4-1000WR-I	78.7 X 59.1	4	2200	0.1	1000	0.05	739	11,125.00
101340	IFS4-1500WR-I	78.7 X 59.1	4	3300	0.1	1500	0.05	739	11,125.00
101341	IFS4-3000WR-I	78.7 X 59.1	4	6600	0.2	3000	0.1	739	11,125.00

OPTIONS/ACCESSORIES-NOT AVAILABLE ON ALL MODELS

MECHANICAL OPTIONS

Sartorious Part # — **Description** — **Price**

T4 ..... Stop Bar $475.00
T5 ..... Tow Bar & Stop Bar 850.00
T6 ..... 2 Handles & 2 Rollers ..... Consult
T7 ..... Retractable Wheels ..... Consult
T9 ..... Bottom Plate ..... Consult

Height

V1 ..... 25 mm from floor 160.00
V2 ..... 35 mm from floor 160.00

Steel

R2 ..... 316 T1 stainless steel ..... Consult Factory
R6 ..... 304 2b stainless steel 1,450.00

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Sartorius® Pharmaline IF Series

Stainless Steel Platforms





STANDARD FEATURES

- Capacities from 150 to 3000 kg with resolutions up to 30,000 dd
- Integrated pressure lift system is particularly well-suited for use in pharmaceutical industry.
- Ultra low profile: standard platform height is 35 mm; optional heights available as low as 25 mm
- Material/surface finish: 304 bead-blasted stainless steel
- Drive-on ramp included with every platform
- No pit required
- Convenient for application-oriented weighing systems from processing to chemical industry
- Compatible with all Combics indicators
- All units built for easy cleaning and disinfection to meet HACCP and FDA requirements for food/pharmaceutical industries

APPLICATIONS

- Pharmaceutical, chemical, electronics, food processing, precious metals, metal production and processing

SPECIFICATIONS

RATING:
IP68

LOAD CELLS:
Four hermetically sealed IP68

CABLE LENGTH:
6 m (19.7 ft)

REGULATORY COMPLIANCE:
HACCP, FDA, Class 10,000 clean rooms (US Federal Standard 209D)

WARRANTY:
Two-year limited warranty

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Sartorius® Pharmaline IF Series

Stainless Steel

RLWS PN	SARTORIUS PN	DIMENSIONS (IN)	# LOAD CELLS	CAPACITY	READABILITY (LB)	CAPACITY	READABILITY (KG)	EST. SHIP WEIGHT (LB)	LIST PRICE
101179	IFS4-150LG-I-T8	39.4 X 23.6	4	330	0.02	150	0.01	243	$12,595.00
101180	IFS4-300LG-I-T8	39.4 X 23.6	4	660	0.05	300	0.02	243	12,595.00
101181	IFS4-600LG-I-T8	39.4 X 23.6	4	1320	0.1	600	0.05	243	12,595.00
101182	IFS4-1000LG-I-T8	39.4 X 23.6	4	2200	0.2	1000	0.1	243	12,595.00
101183	IFS4-1500LG-I-T8	39.4 X 23.6	4	3300	0.2	1500	0.1	243	12,595.00
101184	IFS4-150LI-I-T8	39.4 X 31.5	4	330	0.02	150	0.01	265	13,225.00
101187	IFS4-300LI-I-T8	39.4 X 31.5	4	660	0.05	300	0.02	265	13,225.00
101189	IFS4-600LI-I-T8	39.4 X 31.5	4	1320	0.1	600	0.05	265	13,225.00
101190	IFS4-1000LI-I-T8	39.4 X 31.5	4	2200	0.2	1000	0.1	265	13,225.00
101191	IFS4-1500LI-I-T8	39.4 X 31.5	4	3300	0.2	1500	0.1	265	13,225.00
101192	IFS4-150LL-I-T8	39.4 X 31.5	4	330	0.02	150	0.01	375	13,550.00
101193	IFS4-300LL-I-T8	39.4 X 31.5	4	660	0.05	300	0.02	375	13,550.00
101194	IFS4-600LL-I-T8	39.4 X 31.5	4	1320	0.1	600	0.05	375	13,550.00
101195	IFS4-1000LL-I-T8	39.4 X 31.5	4	2200	0.2	1000	0.1	375	13,550.00
101196	IFS4-1500LL-I-T8	39.4 X 31.5	4	3300	0.2	1500	0.1	375	13,550.00
101197	IFS4-3000LL-I-T8	39.4 X 31.5	4	6600	0.5	3000	0.2	375	13,550.00
101198	IFS4-150NL-I-T8	49.2 X 39.4	4	330	0.02	150	0.01	397	13,975.00
101199	IFS4-300NL-I-T8	49.2 X 39.4	4	660	0.05	300	0.02	397	13,975.00
101200	IFS4-600NL-I-T8	49.2 X 39.4	4	1320	0.1	600	0.05	397	13,975.00
101201	IFS4-1000NL-I-T8	49.2 X 39.4	4	2200	0.2	1000	0.1	397	13,975.00
101202	IFS4-1500NL-I-T8	49.2 X 39.4	4	3300	0.2	1500	0.1	397	13,975.00
101203	IFS4-3000NL-I-T8	49.2 X 39.4	4	6600	0.5	3000	0.2	397	13,975.00
101204	IFS4-150NN-I-T8	49.2 X 49.2	4	330	0.02	150	0.01	481	14,375.00
101205	IFS4-300NN-I-T8	49.2 X 49.2	4	660	0.05	300	0.02	481	14,375.00
101206	IFS4-600NN-I-T8	49.2 X 49.2	4	1320	0.1	600	0.05	481	14,375.00
101207	IFS4-1000NN-I-T8	49.2 X 49.2	4	2200	0.2	1000	0.1	481	14,375.00
101208	IFS4-1500NN-I-T8	49.2 X 49.2	4	3300	0.2	1500	0.1	481	14,375.00
101209	IFS4-3000NN-I-T8	49.2 X 49.2	4	6600	0.5	3000	0.2	481	14,375.00

OPTIONS/ACCESSORIES

SARTORIUS

PART NUMBER	DESCRIPTION	PRICE
V1	Height profile 25 mm	Consult
V2	Height profile 35 mm	Consult
R2	Cold rolled AISI 316Ti stainless steel, electro-polished	Consult
R6	AISI 304 2b stainless steel, electro-polished	$1,450.00
T4	Stop bar	475.00
T9	Additional Bottom Plated	2,350.00

RICE LAKE WEIGHING SYSTEMS

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Sartorius® IS Series

Weighing Platforms



STANDARD FEATURES

- Networkable: RS-485 The standard RS-485 interface is X-bus compatible. An RS-232C interface is optionally available. Power requirements range from 10.6V DC to 30V DC.
- Built-in ISO TEST function: At the touch of the unique ISO TEST key, the IS platform calibrates and adjusts itself automatically using a built-in calibration weight.
- High resolution: High internal resolution guarantees reliable weight readouts.
- Fast weighing results: up to 50 times/second
- Stainless steel load plate: All scales come standard with stainless steel load plate (wrap-around design optional). High IP rating for ideal protection.

ACCESSORIES AND OPTIONS

- A complete selection of options and accessories are available, including interfaces, cables and connectors, power supplies, mechanical accessories, software and mechanical security devices. Please call for details.

SPECIFICATIONS

SPECIFICATION:
Indicator Connectivity
Combics II and III

SENSING:
Force Motor Cell

CABLE LENGTH:
9ft

STABILITY:
Weight Stabilizes 1.5 second

WEIGHING DESIGN:
Electro magnetic

INDICATORS OPTIONS:
Combics I
Combics II with optional accessories
Combics III

CONSTRUCTION:
Stainless Steel Platforms
Die-cast or galvanized base construction (model dependent)

RATINGS:
BBE/CCE - IP54
EDE - IP65
FEC/I66 - IP67

WARRANTY:
Two-year limited warranty
Accessories-one year

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Sartorius® IS Series

Stainless Steel

RLWS PN	SARTORIUS PN	PLATFORM SIZE (IN)	# LOAD CELLS	CAPACITY (LB)	READABILITY (LB)	CAPACITY (KG)	READABILITY (G)	EST. SHIP WEIGHT (LB)	LIST PRICE
101342	IS06BBE-S	5.1	1	1.3	0.000002	0.62	0.001	18	$3,310.00
101999	IS2CCE-S	8.5 x 8	1	4.8	0.00002	2.2	0.01	19	2,925.00
102000	IS6CCE-H	8.5 x 8	1	13.6	0.00002	6.2	0.01	19	3,500.00
102001	IS6CCE-S	8.5 x 8	1	13.6	0.0002	6.2	0.1	19	2,900.00
102002	IS12CCE-S	8.5 x 8	1	26	0.0002	12	0.1	19	2,910.00
102003	IS16EDE-H	15.8 x 11.8	1	35	0.0002	16	0.1	41	3,315.00
102004	IS34EDE-H	15.8 x 11.8	1	75	0.0002	34	0.1	41	4,250.00
102005	IS64EDE-S	15.8 x 11.8	1	141	0.002	64	1	41	3,700.00
102006	IS64EDE-H	15.8 x 11.8	1	141	0.002	64	0.1	41	4,250.00
102007	IS64FEG-S	22 x 18	1	141	0.002	64	1	79	4,700.00
102008	IS150IGG-H	32 x 24	1	330	0.002	150	1	185	8,895.00
102009	IS300IGG-H	32 x 24	1	660	0.005	300	2	18	6,095.00
SPECIAL ORDER									
102010	IS16EDE-H1	15.8 x 11.8	1	35	0.00002	16	0.01	41	4,250.00
102011	IS64FEG-S1	22 x 18	1	141	0.002	64	0.1	79	5,345.00
102012	IS150IGG-H1	32 x 24	1	330	0.002	150	0.1	185	6,675.00
102013	IS300IGG-H1	32 x 24	1	660	0.0005/0.002	300	0.2/1.0	185	6,845.00
OPTIONS/ACCESSORIES									
Consult	YDO01C-485	Interface Mode (RS-485/422) required with Combics II indicators							290.00
32636	YRB06Z	Battery Pack, external (requires YASO315)							550.00
Consult	YAS031S	DC power supply to weigh platform							140.00

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Sartorius® FB Series

Factory Basic Scale



STANDARD FEATURES

- Applications Programs: counting, weighing in percent, checkweighing, net-total formulation and mass unit conversion by toggling for accurate weighing within an application program.
- Built-in ISO TEST function.
- LCD backlit remote display continuously shows maximum weighing capacity and resolution
- Fast weighing results
- Bidirectional RS-232 standard interface
- ISO Cal
- GMP/GLP Printout
- Number/Alpha keys

SPECIFICATIONS

DIMENSIONS:
FB-BBE/CCE 9.5 in W x 17.4 in H x 11.6 in D
FBG-EDE 12.1 in W x 21.2 in H x 4.8 in D

DISPLAY CABLE:
2.6 ft

RATING:
Units<12 kg capacity rated IP54;
units rated >16 kg rated IP65

BELOW BALANCE WEIGHT:
Includes a hook for all units <12 kg; for all other units, use metric M8 screws, 8 mm diameter, 80 mm long

WARRANTY:
Two-year limited warranty
One year accessories

RLWS PN	SARTORIUS PN	PLATFORM SIZE (IN)	# LOAD CELLS	CAPACITY READABILITY (LB)		CAPACITY READABILITY (KG)	(G)	EST. SHIP WEIGHT (LB)	LIST PRICE
102848	FB06BBE-S	5.1 dia	1	1.3	0.000002	0.62	0.001	24	$4,215.00
102849	FB2CCE-S	8.5 X 8	1	4.8	0.00002	2.2	0.01	26	3,685.00
102850	FB6CCE-H	8.5 X 8	1	13.6	0.00002	6.2	0.01	26	4,395.00
102851	FB6CCE-S	8.5 X 8	1	13.6	0.002	6.2	0.1	26	3,385.00
102852	FB12CCE-S	8.5 X 8	1	26	0.002	12	0.1	26	4,100.00
102853	FB16EDE-H	15.8 X 11.8	1	35	0.002	16	0.1	50	4,815.00
102854	FBG34EDE-P	15.8 X 11.8	1	18/36/75	0.0002/0.0005/0.001	8/16/1934	0.1/0.2/0.5	50	4,945.00
102855	FBG34EDE-H	15.8 X 11.8	1	75	0.002	34	0.1	50	5,405.00
102856	FBG64EDE-S	15.8 X 11.8	1	141	0.002	64	1	50	5,280.00
102857	FBG64EDE-H	15.8 X 11.8	1	141	0.0002	64	0.1	50	6,125.00
OPTIONS/ACCESSORIES									
36907	YDP03-OCE	Data printer, statistics & T/D function, 5 ft cable (requires 83248)							950.00
31106	6906918	Ribbon							33.00
31103	6906937	Paper							25.00
83248	YCC01-0016MS	Cable 9.8 ft, 12 pin round to 25D-sub female							215.00
32636	YRBO6Z	Battery pack, external rechargeable, approx 28 hours							550.00
31080	6971899	220 V power supply							275.00

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Sartorius® FC Series

Factory Application Scale



STANDARD FEATURES

- Applications program: checkweighing,
- Built-in ISO TEST function.
- High-contrast display continuously shows maximum weighing capacity and resolution
- Bidirectional RS-232 standard interface
- LCD backlit display
- ISO Cal
- IP54/IP65
- GMP/GLP Printout
- Number/Alpha keys
- Below balance weighing
- Application programs: counting, checkweighing, percent weighing, unit toggle, preset tare, animal weighing, net-total, formulation, statistics, calculation, timer, differential weighing 999 samples, density determination, memory (300), AWC/SPC

SPECIFICATIONS

RATING:
Units<12 kg capacity rated IP54;
Units rated >16 kg rated IP65

BELOW BALANCE WEIGHT:
Includes a hook for all units <12 kg; for all other units, use metric M8 screws, 8 mm diameter, 80 mm long

DISPLAY CABLE:
2.6 ft

DIMENSIONS:
FC-BBE/FC-CCE
9.4 in W x 11.6 in H x 17.3 in D
FCG-EDE
11.8 in W x 23 in H x 4.8 in D

WARRANTY:
Two-year limited warranty
Accessories one year

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Sartorius® FC Series

Factory Application Scale

RLWS PN	SARTORIUS PN	PLATFORM SIZE (IN)	# LOAD CELLS	CAPACITY READABILITY (LB)		CAPACITY READABILITY (KG)	(G)	EST. SHIP WEIGHT (LB)	LIST PRICE
102858	FC06BBE-S	5.1	1	1.3	0.000002	0.62	0.001	24	$4,565.00
102859	FC2CCE-S	8.5 X 8	1	4.8	0.00002	2.2	0.01	26	4,100.00
102860	FC6CCE-H	8.5 X 8	1	13.6	0.00002	6.2	0.01	26	4,695.00
102861	FC6CCE-S	8.5 X 8	1	13.6	0.002	6.2	0.1	26	3,745.00
102862	FC12CCE-S	8.5 X 8	1	26	0.002	12	0.1	26	4,455.00
102863	FC16EDE-H	15.8 X 11.8	1	35	0.002	16	0.1	50	5,175.00
102864	FCG34EDE-P	15.8 X 11.8	1	8/16/75	0.0002/0.0005/0.001	8/16/1934	0.1/0.2/0.5	50	5,280.00
102865	FCG34EDE-H	15.8 X 11.8	1	75	0.002	34	0.1	50	5,705.00
102866	FCG64EDE-S	15.8 X 11.8	1	141	0.002	64	1	50	5,585.00
102867	FCG64EDE-H	15.8 X 11.8	1	141	0.0002	64	0.1	50	6,445.00
OPTIONS/ACCESSORIES									
36907	YDP03-OCE	Data printer, statistics & T/D function, 5 ft cable (requires 83248)							950.00
31106	6906918	Ribbon							33.00
31103	6906937	Paper							25.00
83248	YCC01-0016MS	Cable 9.8 ft, 12 pin round to 25D-sub female							215.00
32636	YRBO6Z	Battery pack, external rechargeable, approx 28 hours							550.00
31080	6971899	220 V power supply							275.00

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Sartorius® Midrics Series

Bench Scale



STANDARD FEATURES

- There are hundreds of possible applications for an industrial scale. Not everyone needs a standard “off-the-rack” solution. Whatever, wherever, and however – the Midrics® can do it all: Order a complete scale, individual configurations, or separate modules. From 0.2g to 3t, verified or non-verified, with or without EX protection, Zone 2 and 22.
- Painted versions have IP65 protection rating for industrial use
- 304 Stainless steel versions have IP67/IP68 protection ratings
- Four adjustable feet, level indicator on LCE and NCE
- Two display and indicator units
- Midrics 1 for simple weighing tasks
- Midrics 2 with 10 key touch pad and application programs
- Midrics 2 application programs – counting, checkweighing, classification, totalizing, net-total formulation, animal weighing, percent weighing, neutral measurement
- Ten weighing ranges from 3kg to 3T
- 13 platform dimensions
- Accessories: user installed interface kits, printer, external battery pack, software tools, panel mount kit.

SPECIFICATIONS

Part No. Configuration

MAP / P / 1 / U - 30ED-L

- Model
- P=Painted, S-Stainless
- I Cell
- Kg Capacity
- Platform Size
- Selected Resolution

DC= 12 x 9.5 x 3.4in
ED= 15.8 x 11.8 x 3.4in
FE = 19.7 x 15.8 x 4.3in
GF= 25.6 x 19.7 x 5.6in
IG = 31.5 x 23.6 x 5.6in

Kits:

4 Load Cell Platforms:
- KK-36 x 36
- NN-48 x 48
- RR-60 x 60

4 Load Cell Capacities
- 1500lb x .1
- 3000lb x .2
- 6000lb x .5

Capacities

I Cell base
- 3kg x .2
- 6kg x .5
- 15kg x 1
- 30kg x 2

60kg x 5
- 150kg x 10
- 300kg x 20

INDICATORS:
MIS1 - UR 20mm LCD
MIS2 - UR with application programs

POWER SUPPLY:
100 - 200VAC, 50 - 60Hz

READABILITY:
15,000 scale intervals

CABLE LENGTH:
1.5 to 6mm (varies by capacity)

WARRANTY:
Two-year limited warranty

RLWS PN	SARTORIUS PN	DIMENSIONS (IN)	# LOAD CELLS	CAPACITY (KG)	READABILITY (G)	EST. SHIP WEIGHT (LB)	LIST PRICE
103668	MW1PU1-6DC-L	12.6 x 9.5	1	6	0.5	22	$955.00
103669	MW1PU1-15DC-L	12.6 x 9.5	1	15	1	24	955.00
103670	MW1PU1-30ED-L	15.8 x 11.8	1	35	2	24	1,110.00
103671	MW1PU1-60ED-L	15.8 x 11.8	1	60	5	24	1,110.00
103672	MW1PU1-60FEG-L	19.7 x 15	1	60	15	22	1,235.00
103673	MW1PU1-150GF-L	25.6 x 19.7	1	150	10	24	1,705.00
103674	MW1PU1-300GF-L	25.6 x 19.7	1	300	20	24	1,705.00
OPTIONS/ACCESSORIES							
36907	YDP03-OCE	Printer Statistics ST/D (requires cable YCC02-D09F6)					950.00
31103		Printer Paper					25.00
31106		Ink Ribbon					33.00

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Sartorius® Signum Series

Bench Scale



STANDARD FEATURES

- The Signum is extremely rugged and resistant, and adapts perfectly to any ambient conditions in an industrial environment.
- Compact scale built as custom.
- Three indicators
- Three weighing technologies - load cell, mechatronic or monolithic
- Resolution 35,000 dd to 350,000 dd
- Optionally selectable interfaces
- Built-in motorized calibration weight (Signum Supreme)
- Various application levels available for all models
- Dual range scales available with choice of line range only for specific capacity level, or fine range that can be continuously used.
- RS-232 output

SPECIFICATIONS

PLATFORM SIZE:
13.8 in x 9.5 in

OPERATING TEMPERATURE:
-108°C to +40°C/ 14°F to 104°F

MEASUREMENT TECHNOLOGY:
SIWRDCP-Load cell signum regular
SIWADCP-Mechatronic cell-advanced
SIWSDCP-Monolythic-supreme

CABLE:
Display, 6 ft approximately

WARRANTY:
Two-year limited warranty
Accessories one year

WEIGHING TECHNOLOGY	INDICATOR	PLATFORM	READABILITY	OPTIONS
SIWRDCP (Load Cell)	1 (6 KEY)	6 - 6 kg	-I 30,000d	-I65 IP65
SIWADCP (Mechatronic)	2 (14 KEY)	15 - 15 kg	-T 35,000d	-A32 RS-232
SIWSDCP (Monolythic)	3 (17 KEY)	16-3.5/16 kg	-S 60,000d	-A15 Analog output
		16 kg	-P 70,000d	Other options available
		35-7/35 kg	-H > 150,000	Other options available
		35 kg	Multi-Interval	Other options available

RLWS PN	SARTORIUS PN	DIMENSIONS (IN)	# LOAD CELLS	CAPACITY READABILITY (KG)	(G)	EST. SHIP WEIGHT (LB)	LIST PRICE
103657	SIWRDCP-V7	13.8 x 9.5	1	6	0.2	22	$1,460.00
103658	SIWRDCP-V8	13.8 x 9.5	1	15	0.5	24	1,460.00
103659	SIWRDCP-V9	13.8 x 9.5	1	35	1	24	1,470.00
103660	SIWRDCP-V10	13.8 x 9.5	1	60	2	24	1,470.00
103661	SIWRDCP-V11	13.8 x 9.5	1	6	0.2	24	1,645.00
103662	SIWRDCP-V13	13.8 x 9.5	1	15	0.5	24	1,695.00
103663	SIWRDCP-V14	13.8 x 9.5	1	35	1	24	1,695.00
103664	SIWRDCP-V15	13.8 x 9.5	1	60	2	24	1,695.00
103665	SIWADCP-V3	13.8 x 9.5	1	7	0.1	24	1,805.00
103666	SIWADCP-V4	13.8 x 9.5	1	7	0.1	24	2,310.00
105853	SIWADCP-V5	13.8 x 9.5	1	35	0.5	24	2,330.00
105854	SIWADCP-V6	13.8 x 9.5	1	65	1	24	2,350.00
105855	SIWRDCP-V6	13.8 x 9.5	1	3	1	22	1,430.00
105856	SIWRDCP-V12	13.8 x 9.5	1	6	1	22	1,655.00
OPTIONS/ACCESSORIES							
36907	YDP030CE	Data Printer, Statistics & T/D Functions, 5 ft Cable (requires 83248)					950.00
31106	6906918	Ribbon					33.00
31103	6906937	Paper					25.00
83248	YCC010016MS	Cable, 9.8 ft, 12 Pin Round to 25 D-Sub Female					250.00
105007	YDH02CISUS	Wall Mount Bracket					65.00
Consult	YDH01P	Column					Consult

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Sartorius® EB-X and PMA-X

Explosion Proof Bench Scale



STANDARD FEATURES

Economy EB-X

- Backlit display allows error-free operation.
- Intrinsically safe
- SPEED UP technology: super fast stability within approx. 0.5 sec
- Weighing range from 0.1 g to 150 kg
- PolyRange structure (EB)
- An RS-232 interface port is standard
- Power supply not included, order separately

PMA7500 -X

- Rugged, standard paint mixing scales.
- Corrects non-conforming mixes (optional recalculation feature)
- Especially suited for mixing in tough ambient conditions
- Housing parts resistant to solvents
- Easy-to-clean keypad
- Round stainless steel weighing pan is removable and features a wrap-around design
- Reliable overload protection, side impact protection
- Raised backlit LCD display unit, tiltable
- Conversion mode for other paint can sizes as a standard feature
- Standard data interface
- All models are also available with approval certificates for use in Zone 1 and Zone 2 hazardous areas
- Power supply included

SPECIFICATIONS

CABLE LENGTH:
EB-X - 1.6 ft for DCE/EDE
8.2 ft for FE6

RATING:
EB-X

PLATFORM:
IP54

INDICATOR:
IP40

COMMUNICATION:
Zenier Barrier Required

APPROVALS:
USA IS Class 1, Div 2, Groups ABCDT4:
Canada: Int Safe Class 1, Div 1, Groups ABCDT4

WARRANTY:
Two-year limited warranty
Accessories-one year

RLWS PN	SARTORIUS PN	DIMENSIONS (IN)	# LOAD CELLS	CAPACITY	READABILITY (LB)	CAPACITY	READABILITY (KG) / (G)	EST. SHIP WEIGHT (LB)	LIST PRICE
100891	EB6DCE-IX	12.6 x 9.4	1	6.6/13.2	0.0002/0.0005	3/6	0.1/0.2	16	$3,130.00
100892	EB15DCE-IX	12.6 x 9.4	1	16.5/33	0.0005/0.001	7.5/15	0.2/0.5	16	3,130.00
100893	EB35EDE-IX	15.7 x 11.8	1	38.5/77	0.001/0.002	17.5/35	0.5/1	24	3,185.00
100894	EB60EDE-IX	15.7 x 11.8	1	60/132	0.002/0.005	30/60	1/2	24	3,185.00
100895	EB60FEC-IX	19.7 x 15.7	1	60/132	0.002/0.005	30/60	1/2	68	3,455.00
100896	EB150FEG-IX	19.7 x 15.7	1	165/330	0.005/0.01	75/150	2/5	68	3,585.00
34303	PMA7501-X	9 Dia	1	-	-	7500g	0.1	13	2,700.00
OPTIONS/ACCESSORIES									
103068	YRB02-X	Safe area, battery pack, EB-X (requires cable YCC02-XRBEX and YRB02-LD							1,275.00
103069	YRB02-LD	Charger							330.00
108065	YCC02-XRBEX	Cable							95.00
83245	609308-61	Safe area power supply (65 ft cable)							345.00
Consult	YP503-XKR	Hazardous area power supply 8 ft IS cable/ 8 ft cable							1,365.00

EB-X Series: Approved For Class I, Division 1, Groups ABCD (Select Safe or Hazardous Area Power Supply)
PMA-X Series: Approved For Class I, Division 1, Groups CD (Pricing Includes Safe Area Power Supply)

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Sartorius® FC-EX and FCA-EX

Explosion Proof Bench Scale



STANDARD FEATURES

- ISO cal
- RS-232 (Zener barrier required for communications)
- IP54 protection rated
- GMP/GLP printout
- LCD backlit remote display
- Number/alpha keys
- Below scale weighing
- Applications on board: counting, checkweighing, percent weighing, unit toggle, preset tare, animal weighing, net-total, formulation, statistics, calculation, timer, differential weighing (up to 999 samples, density determination, memory (300), diameter determination)
- Display column

SPECIFICATIONS

CABLE LENGTH:
FC-2.6 ft
FCA-16.9 ft

RATING:
BBE/CCE-IP54
IGG-IP67
EDE-IP65
FCA-IP67

OPERATING TEMPERATURE:
0°C to 40°C

BATTERY OPTION:
14 hours operation

WEIGHING UNITS:
Grams, kilograms, carats, pounds, ounces, troy ounces, Hong Kong taels, Singapore taels, Taiwanese taels, grains, penny weights, milligrams, parts per pound, Chinese taels, Austrian carats, Tola, Baht, and Mesgral

WARRANTY:
Two-year limited warranty

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Sartorius® FC-EX

Explosion Proof Bench Scale

RLWS PN	SARTORIUS PN	PLATFORM SIZE (IN)	# LOAD CELLS	CAPACITY READABILITY (LB)		CAPACITY READABILITY (KG)	(G)	EST. SHIP WEIGHT (LB)	LIST PRICE
46512	FC06BBE-SX	5.1 dia	1	1.3	0.000002	0.62	0.001	22	$5,600.00
46513	FC2CCE-SX	8.5 x 7.9	1	4.8	0.00002	2.2	0.01	24	4,585.00
46514	FC6CCE-HX	8.5 x 7.9	1	13.6	0.00002	6.2	0.01	24	4,860.00
46515	FC6CCE-SX	8.5 x 7.9	1	13.6	0.0002	6.2	0.1	24	4,585.00
46516	FC12CCE-SX	8.5 x 7.9	1	26	0.0002	12	0.1	24	4,860.00
100898	FC16EDE-HX	15.8 x 11.8	1	35	0.0002	16	0.1	50	5,295.00
100899	FC34EDE-PX	15.8 x 11.8	1	--	--	8/16/34	0.1/0.2/0.5 g	50	5,510.00
100900	FC34EDE-HX	15.8 x 11.8	1	75	0.0002	34	0.1	50	5,945.00
100901	FC64EDE-SX	15.8 x 11.8	1	141	0.002	64	0.1	50	6,320.00
100902	FC64EDE-HX	15.8 x 11.8	1	141	0.0002	64	0.1	50	7,075.00
FC Series Approved for Class I Division 1, Groups ABCD Power Supply Purchased Separately									

Sartorius® FCA-EX

Explosion Proof Bench Scale

RLWS PN	SARTORIUS PN	PLATFORM SIZE (IN)	# LOAD CELLS	CAPACITY READABILITY (LB)		CAPACITY READABILITY (KG)	(G)	EST. SHIP WEIGHT (LB)	LIST PRICE
100906	FCA16EDE-HX	15.8 x 11.8	1	35	0.0002	16	0.1	50	$5,890.00
100907	FCA34EDE-PX	15.8 x 11.8	1	--	--	8/16/34	0.1/0.2/0.5 g	50	6,105.00
100908	FCA34EDE-HX	15.8 x 11.8	1	75	0.0002	34	0.1	50	6,485.00
100909	FCA64EDE-SX	15.8 x 11.8	1	141	0.002	64	0.1	35	6,915.00
100910	FCA64EDE-HX	15.8 x 11.8	1	141	0.0002	64	0.1	35	7,675.00
100911	FCA1501GG-HX	32 x 24 dia	1	330	0.002	150	1	155	8,050.00
100912	FCA300lGG-HX	32 x 24 dia	1	660	0.005	300	2	155	8,265.00
FCA Series Approved for Class I, II, III, Division 1, Groups ABCDEFGT4 (Prices Do Not Include Power Supply Which Is Purchased Separately)									
OPTIONS/ACCESSORIES									
46518	YPS02-XKR	Hazardous area power supply (8 ft IS cable, 8 ft of cable)							1,930.00
46517	YPS02-ZKR	Safe area power supply (65 ft IS cable)							1,360.00
103068	YRB02X	IS battery pack requires 103069							1,275.00
103069	YRB02LD	Charger							330.00
46520	YD103-Z	Zenier Barrier							1,305.00
72130	-	Communication cable for Zenier Barrier							215.00

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Sartorius® FCT01-X

Explosion Proof Digital Weight Indicators



STANDARD FEATURES

- Factory Ex stainless steel terminal, designed for use in Zone 1 hazardous area with a built-in A/D converter (max. 60,000 digits, not for use in legal metrology).
- The backlit graphical display ensures excellent readability and high degree of operator convenience.
- Various applications can be programmed in scale's menu, such as checkweighing, net-total formulation, product data memory, printouts, timer function, etc.).
- A/D converter. Scale can be connected to all conventional strain gauge scales and analog platforms of the IF Series (flat-bed scales), as well as all Combics-EX Platforms (with EX-approval). Pursuant to Number 5.4 of EN 50020/1994, simple electrical equipment does not need certification or special marking if they fulfill the technical specifications.
- Standard RS-232 data interface (or optionally RS-485).
- Various installation options (bench mounted, floor stand, wall mounted, built into a control panel) are available.
- All cables are equipped with cable glands or threaded round connectors for networking.
- All Sartorius Ex-products have an additional ATEX-approval verification of intrinsic safety (for explosion protection document)

APPLICATIONS SOFTWARE PRE-INSTALLED

- Counting, checkweighing, percent weighing, unit toggle, preset tare, animal weighing, net-total, formulation, statistics, calculation, timer, differential weighing (up to 999 samples), density determination, memory (300), diameter determination

SPECIFICATIONS

CAPACITY:
up to 120t (max. 60,000 digits, not for use in legal metrology)

BRIDGE IMPEDANCE:
83 ohms minimum (FCT01-XV1: 140 ohms minimum)
2,000 ohms maximum (FCT01-XV1: 2,000 ohms maximum)

SENSOR TECHNOLOGY:
6-conductor technology
4-conductor technology

HOUSING:
Tilted design
Footprint 87 x 268 mm
Front 268 x 144 mm
Stainless steel, AISI 304

POWER SUPPLY:
Via separate power supply (choice of power supply either for use within or outside a hazardous area)

BRIDGE SUPPLY VOLTAGE:
Amplitude 5.2 V dc
Constant voltage (±2.6 V dc)

INPUT VOLTAGE:
0.05 mV/V minimum
3.6 mV/V maximum

ANALOG SIGNAL INPUT VARIATION:
0.5 mV/V minimum
3.3 mV/V maximum

PARTIAL ERROR OF THE ELECTRONICS:
pi=0.5 6,250e
pi=0.3 3,750e

DATA TRANSFER FROM HAZARDOUS AREAS:
Via Zener barrier

DEAD WEIGHT:
Maximum for dead weight 0.7 mV/V
Minimum for dead weight 0.05 mV/V

TEMPERATURE RANGE:
0°C - + 40°C

CABLE CAN BE CONNECTED TO LOAD RECEPTOR (RECOMMENDED):
8 x 0.5 mm : Length ≤150 m, model LiYCY (resistance over the entire length of one wire: <13 ohms)
Braided: round copper wire, tin-plated, 80% sheathed

APPROVAL FOR USA (FM)
Canada (CSA):
IS CL I, II, III, DIV1, GP A, B, C, D, E, F, G T4
CL I DIV1GP A, B, C, D T4

IP PROTECTION RATING:
IP65

WARRANTY:
Two-year limited warranty
Accessories one year

RLWS PN	SARTORIUS PN	DESCRIPTION	EST. SHIP WEIGHT (LB)	LIST PRICE
100960	FCT01-X*	Protection rating IP-65	7	$2,095.00
OPTIONS/ACCESSORIES				
46520	YD103-Z	Zenier Barrier 4 data / 4 control / 60 ft cable		1,305.00
72130		Communication cable 12 pin (round male to DB9 female 16 ft		215.00
103068	YRB02-X	Intrinsically Safe Battery pack (requires 103069)		1,275.00
103069	YRB02-LD	Charger for battery pack		330.00
46517	YPS02-ZKR	Safe area power supply		1,360.00
46518	YPS02-XKR	Hazardous area power supply		1,930.00

*The power supply must always be ordered separately depending on the area of use.

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Sartorius® Combics 3 Ex

Explosion Proof Digital Weight Indicators



APPLICATIONS SOFTWARE PRE-INSTALLED

- Counting, checkweighing, differential weighing, percentage weighing, gross-net-tare, sorting, net-total, animal weighing
- Ex approval: FM Class 1,2,3, Division 1, Groups ABCDEFG and temperature class T4
- Weighbridge connectivity – maximum two precision weighing platforms or load cells, and one precision platform or 1 Combics Ex and one precision platform
- Power Supply can be provided by 110-220 vAC connections and a 24 VDC industrial power module (each suitable for hazardous and safe areas) and a rechargeable battery pack in stainless steel casing.

STANDARD FEATURES

- Amber backlit LCD dot matrix display
- On/Off, Zero, Tare, and Print/Data Keys
- Function Keys For: Gross/net toggle; three-way unit toggle; 10X higher resolution toggle
- Two header line storage
- Battery charge status display (with connection of battery pack)
- Includes one configurable interface for RS-232; RS-422 or RS-485 data communication
- Numeric keypad with two "ID" for entering identifier codes and preset tare
- Date/time fully integrated
- GMP printable record
- Three built-in LED checkweighing lights
- Bar graph weighing range indicator
- Application data and totalization memory stored in battery-backed RAM
- Optional barcode scanner for preset tare, reference weight and ID entry
- Alphanumeric keypad

APPROVALS

FM APPROVED

SPECIFICATIONS

LOAD CELL:
4 or 6 wire

SUPPLY VOLTAGE:
6 V

HOUSING:
304 stainless steel

RATING:
IP67/NEMA 4X

DIMENSIONS:
11.9 in W x 7.4 in D x 3.5 in H

OPERATING TEMPERATURE:
14°F to 104°F

WARRANTY:
Two-year limited warranty
Accessories one year

RLWS PN	SARTORIUS PN	DESCRIPTION	EST. SHIP WEIGHT (LB)	LIST PRICE
100961	CIXS3-U*	IP44 Protection rated	7	$2,850.00
OPTIONS/ACCESSORIES				
46518	YPS02-XKR	Power supply, hazardous area		1,930.00
46517	YPS02-ZKR	Power supply, safe area, 65 ft cable		1,360.00
103068	YRB02-X	Battery pack, 30+ hours (requires 103069)		1,275.00
103069	YBR02-LD	Charger for battery pack		330.00
103055	YDI05-ZU2	Zenier Barrier (requires 103054)		795.00
103054		Quick disconnect cable		65.00
105606	YAS03CI	Panel mount kit		190.00

*IS power supply or battery pack required

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Sartorius® Combics

Explosion Proof Bench and Floor Platforms





APPROVALS

FM APPROVED

SPECIFICATIONS

CABLE LENGTH:
Up to 30 x 30 - 10ft
36 x 36 and over - 20ft

OPERATING TEMPERATURE:
+14°F to 104°F

RATING:
NEMA 4/IP65

INDICATOR OPTION:
CIX53-U

WARRANTY:
Two-year limited warranty
Accessories one year

STANDARD FEATURES

- Cost-effective industrial weighing
- Various materials and finishes
- FM Approved: Classes 1,2,3, Division 1, Groups ABCDEGFT4, US and Canadian hazardous areas, when used with CISX3-U or FCT01-X indicator
- Can be used in areas where explosive gas and dust mixtures occur
- Documentation to verify intrinsic safety available upon request
- Completely constructed with AISI 304 stainless steel
- All units are built for easy cleaning and disinfection and meet HACCP and FDA requirements for the food industry.
- Load cells are hermetically sealed, IP68 protection rated
- Load cell cables are 10ft (for bases up to 30in x 30in) or 20ft (for bases 36in x 36in and larger)
- NEMA4/IP65 protection rated
- Pit frames for flush mounting available
- High resolution 30,000dd
- Compatible with all Combics indicators

OPTIONAL CONFIGURATIONS

- Custom sizes available
- AISI 316Ti stainless steel platforms and base frames
- AISI 316Ti stainless steel pans and base frames
- AISI 304 Complete, AISI 304 treadplate (R4) (36in x 36in and larger)
- AISI 304 pressure lift system (T1) (36in x 36in and larger)
- Platform AISI 316Ti, base frame 304 (R2)
- Platform and base AISI 316Ti stainless steel (R2+S2)
- Load ramps and pit frames

APPLICATIONS

- Pharmaceutical, chemical, electronics, food processing, precious metals, metal production and processing

REGULATORY COMPLIANCE

- NEMA, HACCP, FDA, GLP/GMP*, FM

*GLP/GMP requires use of Combics 1 Plus or higher digital weight indicator

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Sartorius® Combics

Stainless Steel

RLWS PN	SARTORIUS PN	DIMENSIONS (IN)	HEIGHT ADJUSTMENT (IN)	# LOAD CELLS	CAPACITY	READABILITY (LB)	CAPACITY	READABILITY (KG)	EST. SHIP WEIGHT (LB)	LIST PRICE
100919	CAPXS1U-10CC	10 x 10	2.37	1	15	0.0005	6	0.0002	16	$1,025.00
100920	CAPXS1U-20CC	10 x 10	2.37	1	30	0.001	15	0.0005	16	1,025.00
100921	CAPXS1U-50CC	10 x 10	2.37	1	60	0.002	30	0.001	16	1,025.00
100922	CAPXS1U-50DD	12 X 12	3.87	1	60	0.002	30	0.001	24	1,180.00
100923	CAPXS1U-100DD	12 X 12	3.87	1	150	0.005	60	0.002	24	1,180.00
100924	CAPXS1U-50EE	18 x 18	3.5	1	60	0.002	30	0.001	62	1,435.00
100925	CAPXS1U-100EE	18 x 18	3.5	1	150	0.005	60	0.002	62	1,435.00
100926	CAPXS1U-200EE	18 x 18	3.5	1	200	0.01	100	0.005	62	1,435.00
100930	CAPXS4U-50GE	24 X 18	3.31	4	60	0.002	30	0.001	99	2,880.00
100931	CAPXS4U-100GE	24 X 18	3.31	4	150	0.005	60	0.002	99	2,880.00
100932	CAPXS4U-200GE	24 X 18	3.31	4	300	0.01	150	0.005	99	2,880.00
100933	CAPXS4U-100GG	24 X 24	3.31	4	150	0.005	60	0.002	12	3,035.00
100934	CAPXS4U-250GG	24 X 24	3.31	4	300	0.01	150	0.005	12	3,035.00
100935	CAPXS4U-500GG	24 X 24	3.31	4	600	0.02	300	0.01	12	3,035.00
100936	CAPXS4U-100HG	30 X 24	3.31	4	150	0.005	60	0.002	143	3,190.00
100927	CAPXS4U-250HG	30 X 24	3.31	4	300	0.01	150	0.005	143	3,190.00
100938	CAPXS4U-500HG	30 X 24	3.31	4	600	0.02	300	0.01	143	3,190.00
100939	CAPXS4U-1000HG	30 X 24	3.31	4	1500	0.05	600	0.02	143	3,190.00
100941	CAPXS4U-100HH	30 X 30	3.31	4	150	0.005	60	0.002	143	3,240.00
100942	CAPXS4U-250HH	30 X 30	3.31	4	300	0.01	150	0.005	187	3,240.00
100943	CAPXS4U-500HH	30 X 30	3.31	4	600	0.02	300	0.01	187	3,240.00
100944	CAPXS4U-1000HH	30 X 30	3.31	4	1500	0.05	600	0.02	187	3,240.00
100945	CAPXS4U-1000KK	36 X 36	3.75	4	1500	0.05	600	0.02	250	4,115.00
100946	CAPXS4U-2500KK	36 X 36	3.75	4	3000	0.1	1500	0.05	250	4,115.00
100947	CAPXS4U-5000KK	36 X 36	3.75	4	6000	0.2	3000	0.1	250	4,115.00
100948	CAPXS4U-1000NN	48 X 48	3.75	4	1500	0.05	600	0.02	390	4,785.00
100949	CAPXS4U-2500NN	48 X 48	3.75	4	3000	0.1	1500	0.05	390	4,785.00
100950	CAPXS4U-5000NN	48 X 48	3.75	4	6000	0.2	3000	0.1	390	4,785.00
100951	CAPXS4U-10000NN	48 X 48	3.75	4	15,000	0.5	6000	0.2	390	4,785.00
100952	CAPXS4U-1000RN	60 X 48	4.5	4	1500	0.05	600	0.02	465	5,865.00
100953	CAPXS4U-2500RN	60 X 48	4.5	4	3000	0.1	1500	0.05	465	5,865.00
100954	CAPXS4U-5000RN	60 X 48	4.5	4	6000	0.2	3000	0.1	465	5,865.00
100955	CAPXS4U-10000RN	60 X 48	4.5	4	15,000	0.5	6000	0.2	465	5,865.00
100956	CAPXS4U-1000RR	60 X 60	4.5	4	1500	0.05	600	0.02	600	6,485.00
100957	CAPXS4U-2500RR	60 X 60	4.5	4	3000	0.1	1500	0.5	600	6,485.00
100958	CAPXS4U-5000RR	60 X 60	4.5	4	6000	0.2	3000	0.1	600	6,485.00
100959	CAPXS4U-10000RR	60 X 60	4.5	4	15,000	0.5	6000	0.2	600	6,485.00

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Sartorius® IF Series

Explosion Proof Weighing Platforms





APPROVALS

FM APPROVED

REGULATORY COMPLIANCE

- NEMA, HACCP, FDA, GLP/GMP*, Class 10,000 Clean Rooms (US Federal Standard 209D) (Equivalent to Class C in accordance with EEC-GWP), FM

**GLP/GMP requires use of Combics 1 Plus or higher digital weight indicator*

STANDARD FEATURES

- 708 basic models with customized options
- Capacities from 150 to 3000 kg with resolutions up to 30,000 dd
- Ultra low profile: standard platform height is 35 mm; optional heights available as low as 25 mm
- Material/surface finish: 304 bead-blasted stainless steel
- Drive-on ramp included with every platform
- No pit required
- Convenient for application-oriented weighing systems from processing to the chemical industry
- Compatible with all Combics indicators
- Standard configuration: AISI 304 stainless steel
- Explosion-Proof platforms (IFXS4 series) are certified for use in Class 1,2,3, Div. 1, Groups ABCDEFT4 (Verification of Intrinsic Safety included; also covers any explosion-protected Sartorius components combined with this platform series)
- Approval met only with FCT01-X Indicator/C1SX3, Class 1, Div 2, Groups ABCD met with X5/FM controllers

OPTIONAL CONFIGURATIONS

- Electro-polished finish
- AISI 304 electro-polished stainless steel platform
- AISI 316Ti electro-polished stainless steel platform
- Ingenious manually operated lifting mechanism option (patented system) for effortless raising of the platform For it easy-to-clean under the platform at the place of installation.
- V1: Height profile = 25 mm
- V2: Height profile = 35 mm
- V3: Height profile = 45 mm
- R2: Cold rolled AISI 316Ti stainless steel, electro-polished
- R6: AISI 304 2b stainless steel, electro-polished
- T4: Stop bar
- T5: Tow bar and stop bar
- T6: Two handles and two rollers
- T7: Retractable wheels (reduces effective resolution to 15,000 dd)
- T9: Additional bottom plate

APPLICATIONS

- Pharmaceutical, chemical, electronics, food processing, precious metals, metal production and processing

SPECIFICATIONS

RATING:
IP68

LOAD CELLS:
Four hermetically sealed IP68

CABLE LENGTH:
6 m (19.7 ft)

REGULATORY COMPLIANCE:
HACCP, FDA, Class 10,000 clean rooms (US Federal Standard 209D)

WARRANTY:
Two year limited warranty

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Sartorius® IF Series

Stainless Steel

RLWS PN	SARTORIUS PN	DIMENSIONS (IN)	# LOAD CELLS	CAPACITY	READABILITY (LB)	CAPACITY	READABILITY (KG)	EST. SHIP WEIGHT (LB)	LIST PRICE
102530	IFXS4-150GG-I	23.6 X 23.6	4	330	0.01	150	0.005	198	$8,545.00
102531	IFXS4-300GG-I	23.6 X 23.6	4	660	0.02	300	0.01	198	8,545.00
102532	IFXS4-600GG-I	23.6 X 23.6	4	1320	0.05	600	0.02	198	8,545.00
102533	IFXS4-1000GG-I	23.6 X 23.6	4	2200	0.1	1000	0.05	198	8,545.00
102534	IFXS4-150IG-I	31.5 X 23.6	4	330	0.01	150	0.005	221	8,625.00
102536	IFXS4-300IG-I	31.5 X 23.6	4	660	0.02	300	0.01	221	8,625.00
102537	IFXS4-600IG-I	31.5 X 23.6	4	1320	0.05	600	0.02	221	8,625.00
102538	IFXS4-1000IG-I	31.5 X 23.6	4	2200	0.1	1000	0.05	221	8,625.00
102540	IFXS4-150II-I	31.5 X 31.5	4	330	0.01	150	0.005	243	8,850.00
102541	IFXS4-300II-I	31.5 X 31.5	4	660	0.02	300	0.01	243	8,850.00
102542	IFXS4-600II-I	31.5 X 31.5	4	1320	0.05	600	0.02	243	8,850.00
102543	IFXS4-1000II-I	31.5 X 31.5	4	2200	0.1	1000	0.05	243	8,850.00
102544	IFXS4-1500II-I	31.5 X 31.5	4	3300	0.1	1500	0.05	243	8,850.00
102545	IFXS4-150LG-I	39.4 X 23.6	4	330	0.01	150	0.005	243	9,075.00
102546	IFXS4-300LG-I	39.4 X 23.6	4	660	0.02	300	0.01	243	9,075.00
102547	IFXS4-600LG-I	39.4 X 23.6	4	1320	0.05	600	0.02	243	9,075.00
102548	IFXS4-1000LG-I	39.4 X 23.6	4	2200	0.1	1000	0.05	243	9,075.00
102549	IFXS4-1500LG-I	39.4 X 23.6	4	3300	0.1	1500	0.05	243	9,075.00
102550	IFXS4-150LI-I	39.4 X 31.5	4	330	0.01	150	0.005	265	9,475.00
102551	IFXS4-300LI-I	39.4 X 31.5	4	660	0.02	300	0.01	265	9,475.00
102552	IFXS4-600LI-I	39.4 X 31.5	4	1320	0.05	600	0.02	265	9,475.00
102553	IFXS4-1000LI-I	39.4 X 31.5	4	2200	0.1	1000	0.05	265	9,475.00
102554	IFXS4-1500LI-I	39.4 X 31.5	4	3300	0.1	1500	0.05	265	9,475.00
102555	IFXS4-150LL-I	39.4 X 39.4	4	330	0.01	150	0.005	375	9,845.00
102556	IFXS4-300LL-I	39.4 X 39.4	4	660	0.02	300	0.01	375	9,845.00
102557	IFXS4-600LL-I	39.4 X 39.4	4	1320	0.05	600	0.02	375	9,845.00
102558	IFXS4-1000LL-I	39.4 X 39.4	4	2200	0.1	1000	0.05	375	9,845.00
102559	IFXS4-1500LL-I	39.4 X 39.4	4	3300	0.1	1500	0.05	375	9,845.00
102560	IFXS4-3000LL-I	39.4 X 39.4	4	6600	0.2	3000	0.1	375	9,845.00
102561	IFXS4-150NL-I	49.2 X 39.4	4	330	0.01	150	0.005	397	10,175.00
102562	IFXS4-300NL-I	49.2 X 39.4	4	660	0.02	300	0.01	397	10,175.00
102563	IFXS4-600NL-I	49.2 X 39.4	4	1320	0.05	600	0.02	397	10,175.00
102564	IFXS4-1000NL-I	49.2 X 39.4	4	2200	0.1	1000	0.05	397	10,175.00
102565	IFXS4-1500NL-I	49.2 X 39.4	4	3300	0.1	1500	0.05	397	10,175.00
102566	IFXS4-3000NL-I	49.2 X 39.4	4	6600	0.2	3000	0.1	397	10,175.00
102567	IFXS4-150NN-I	49.2 X 49.2	4	330	0.01	150	0.005	481	10,500.00
102568	IFXS4-300NN-I	49.2 X 49.2	4	660	0.02	300	0.01	481	10,500.00
102569	IFXS4-600NN-I	49.2 X 49.2	4	1320	0.05	600	0.02	481	10,500.00
102570	IFXS4-1000NN-I	49.2 X 49.2	4	2200	0.1	1000	0.05	481	10,500.00
102571	IFXS4-1500NN-I	49.2 X 49.2	4	3300	0.1	1500	0.05	481	10,500.00
102572	IFXS4-3000NN-I	49.2 X 49.2	4	6600	0.2	3000	0.1	481	10,500.00
102573	IFXS4-150RN-I	59.1 X 49.2	4	330	0.01	150	0.005	547	10,845.00
102574	IFXS4-300RN-I	59.1 X 49.2	4	660	0.02	300	0.01	547	10,845.00
102575	IFXS4-600RN-I	59.1 X 49.2	4	1320	0.05	600	0.02	547	10,845.00
102576	IFXS4-1000RN-I	59.1 X 49.2	4	2200	0.1	1000	0.05	547	10,845.00
102577	IFXS4-1500RN-I	59.1 X 49.2	4	3300	0.1	1500	0.05	547	10,845.00

RICE LAKE WEIGHING SYSTEMS

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Sartorius® IF Series

Explosion Proof Weighing Platforms

RLWS PN	SARTORIUS PN	DIMENSIONS (IN)	# LOAD CELLS	CAPACITY READABILITY (LB)		CAPACITY READABILITY (KG)		EST. SHIP WEIGHT (LB)	LIST PRICE
102578	IFXS4-3000RN-I	59.1 x 59.1	4	6600	0.2	3000	0.1	547	$10,845.00
102579	IFXS4-150RR-I	59.1 x 59.1	4	330	0.01	150	0.005	628	11,175.00
102580	IFXS4-300RR-I	59.1 x 59.1	4	660	0.02	300	0.01	628	11,175.00
102581	IFXS4-600RR-I	59.1 x 59.1	4	1320	0.05	600	0.02	628	11,175.00
102582	IFXS4-1000RR-I	59.1 x 59.1	4	2200	0.1	1000	0.05	628	11,175.00
102583	IFXS4-1500RR-I	59.1 x 59.1	4	3300	0.1	1500	0.05	628	11,175.00
102584	IFXS4-3000RR-I	59.1 x 59.1	4	6600	0.2	3000	0.1	628	11,175.00
102585	IFXS4-150WR-I	78.7 x 59.1	4	330	0.01	150	0.005	739	11,400.00
102586	IFXS4-300WR-I	78.7 x 59.1	4	660	0.02	300	0.01	739	11,400.00
102587	IFXS4-600WR-I	78.7 x 59.1	4	1320	0.05	600	0.02	739	11,400.00
102588	IFXS4-1000WR-I	78.7 x 59.1	4	2200	0.1	1000	0.05	739	11,400.00
102589	IFXS4-1500WR-I	78.7 x 59.1	4	3300	0.1	1500	0.05	739	11,400.00
102590	IFXS4-3000WR-I	78.7 x 59.1	4	6600	0.2	3000	0.1	739	11,400.00

OPTIONS/ACCESSORIES - NOT AVAILABLE ON ALL MODELS

SARTORIUS Part #	DESCRIPTION	PRICE
T4	Stop bar	$475.00
T5	Tow bar & stop bar	850.00
T6	Two handles & two rollers	900.00
T7	Retractable wheels	2,200.00
T9	Bottom plate	2,350.00
V1	25 mm height	160.00
V2	35 mm height	160.00
Steel		
R2	316 stainless steel	Consult Factory
R6	304 stainless steel	1,450.00

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Sartorius® Pharmaline IF

Explosion Proof Platforms



APPROVALS

FM APPROVED

REGULATORY COMPLIANCE

- NEMA, HACCP, FDA, GLP/GMP*, Class 10,000 Clean Rooms in accordance with US Federal Standard 209D (Equivalent to Class C in accordance with EEC-GWP)

*GLP/GMP requires use of Combics 1 Plus or higher digital weight indicator

STANDARD FEATURES

- Ultra low profile eliminates the necessity of pit.
- Integrated pressure lift system is particularly well-suited for use in the pharmaceutical industry.
- Standard configuration: stainless steel, AISI 304 platform with integral pressure left system and ramp.
- Five sizes and six capacities
- Capacities from 150 to 3000kg with resolutions up to 30,000d
- Standard platform height is 35mm; optional heights available as low as 25mm
- Material/surface finish: 304 bead-blasted stainless steel
- Convenient for application-oriented weighing systems from processing to the chemical industry.
- Compatible with all Combics indicators
- Explosion proof platforms are certified for use in Class 1, 2, 3, Div. 1, Groups ABCDEFT4, (Verification of Intrinsic Safety included; also covers any explosion-protected Sartorius components combined with platform series).
- Approvals met only with FCT01-X indicator or C1SX3 indicators
- Use in clean rooms rated to Class 10,000 in accordance with US Federal Standard 209D

OPTIONAL CONFIGURATIONS

- Electro-polished finish
- V1: Height profile = 25mm
- V2: Height profile = 35mm
- V3: Height profile – 45mm
- R2: Cold rolled AISI 316Ti stainless steel, electro-polished
- R6: AISI 304 2b stainless steel, electro-polished
- T4: Stop bar
- T9: Additional Bottom Plate

APPLICATIONS

- Pharmaceutical, chemical, electronics, food processing, precious metals, metal production and processing

SPECIFICATIONS

RATING:
IP68

LOAD CELLS:
Four hermetically sealed loadcells

CABLE LENGTH:
6m (19.7ft)

WARRANTY:
Two-year limited warranty

RICE LAKE WEIGHING SYSTEMS

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Sartorius® Pharmaline IF

Stainless Steel

RLWS PN	SARTORIUS PN	DIMENSIONS (IN)	# LOAD CELLS	CAPACITY	READABILITY (LB)	CAPACITY	READABILITY (KG)	EST. SHIP WEIGHT (LB)	LIST PRICE
101210	IFXS4-150LG-I-T8	39.4 X 23.6	4	330	0.02	150	0.01	243	$12,950.00
101215	IFXS4-300LG-I-T8	39.4 X 23.6	4	660	0.05	300	0.02	243	12,950.00
101218	IFXS4-600LG-I-T8	39.4 X 23.6	4	1320	0.01	600	0.05	243	12,950.00
101219	IFXS4-1000LG-I-T8	39.4 X 23.6	4	2200	0.02	1000	0.01	243	12,950.00
101220	IFXS4-1500LG-I-T8	39.4 X 23.6	4	3300	0.02	1500	0.01	243	12,950.00
101221	IFXS4-150LI-I-T8	39.4 X 31.5	4	330	0.02	150	0.01	265	13,595.00
101222	IFXS4-300LI-I-T8	39.4 X 31.5	4	660	0.05	300	0.02	265	13,595.00
101223	IFXS4-600LI-I-T8	39.4 X 31.5	4	1320	0.01	600	0.05	265	13,595.00
101224	IFXS4-1000LI-I-T8	39.4 X 31.5	4	2200	0.02	1000	0.01	265	13,595.00
101225	IFXS4-1500LI-I-T8	39.4 X 31.5	4	3300	0.02	1500	0.01	265	13,945.00
101231	IFXS4-150LL-I-T8	39.4 X 31.5	4	330	0.02	150	0.01	375	13,945.00
101234	IFXS4-300LL-I-T8	39.4 X 31.5	4	660	0.05	300	0.02	375	13,945.00
101235	IFXS4-600LL-I-T8	39.4 X 31.5	4	1320	0.01	600	0.05	375	13,945.00
101236	IFXS4-1000LL-I-T8	39.4 X 31.5	4	2200	0.02	1000	0.01	375	13,945.00
101237	IFXS4-1500LL-I-T8	39.4 X 31.5	4	3300	0.02	1500	0.01	375	13,945.00
101238	IFXS4-3000LL-I-T8	39.4 X 31.5	4	6600	0.05	3000	0.02	375	13,945.00
101240	IFXS4-150NL-I-T8	49.2 X 39.4	4	330	0.02	150	0.01	397	14,345.00
101241	IFXS4-300NL-I-T8	49.2 X 39.4	4	660	0.05	300	0.02	397	14,345.00
101242	IFXS4-600NL-I-T8	49.2 X 39.4	4	1320	0.01	600	0.01	397	14,345.00
101243	IFXS4-1000NL-I-T8	49.2 X 39.4	4	2200	0.02	1000	0.02	397	14,345.00
101245	IFXS4-1500NL-I-T8	49.2 X 39.4	4	3300	0.02	1500	0.05	397	14,345.00
101246	IFXS4-3000NL-I-T8	49.2 X 39.4	4	6600	0.05	3000	0.01	397	14,345.00
101247	IFXS4-150NN-I-T8	49.2 X 49.2	4	330	0.02	150	0.01	481	14,745.00
101248	IFXS4-300NN-I-T8	49.2 X 49.2	4	660	0.05	300	0.02	481	14,745.00
101249	IFXS4-600NN-I-T8	49.2 X 49.2	4	1320	0.01	600	0.05	481	14,745.00
101250	IFXS4-1000NN-I-T8	49.2 X 49.2	4	2200	0.02	1000	0.01	481	14,745.00
101254	IFXS4-1500NN-I-T8	49.2 X 49.2	4	3300	0.02	1500	0.01	481	14,745.00
101255	IFXS4-3000NN-I-T8	49.2 X 49.2	4	6600	0.05	3000	0.02	481	14,745.00

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Notes

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SP2200

Ticket Printer



Shown with optional switch mode

STANDARD FEATURES

- Double-strike high speed, 180 characters per second (cps)
- Single copy or up to five-part multicopy forms
- Functions in slave capacity, printing information sent via RS-232 or weight extraction smart mode, processing information before printing
- Cash drawer kick-out function
- Inexpensive ink cartridge for no-mess ribbon changes
- Battery backup; optional time/date and consecutive number (or ID) are retained for a year or more in the event of a power failure
- Compatible with most Mettler-Toledo indicators

APPROVALS

c UL us LISTED CE

SPECIFICATIONS

PRINT SPEED:
3.5 lines per second,
180 characters per second

CHARACTERS PER LINE:
40 characters at 12 cpi
Print Area: 3.33 in (84.6 mm) wide

CHARACTER FORMATION:
5 x 9 dot matrix

CHARACTER HEIGHT:
0.1 in (2.5 mm) enhanced double-wide or 0.45 in (11.4 mm) on 4X. Can be inverted for left side of tickets

CHARACTER SET:
Full 96-character ASCII (upper and lower case set)
Dimensions:
7 in H x 8 in W x 11 in L

LINE SPACING:
Six lines per inch (25.4 mm)

COPY CAPABILITIES:
Single copy or up to five-part multicopy forms

PRINT MEDIA:
Form thickness adjustable from 0.004 in to 0.026 in (0.1 to 0.7 mm) by 0.004 in step increments

RIBBON:
Cartridge-type black or blue ink ribbon. Ribbon life is approximately 1 million standard characters

SERIAL INTERFACES:
RS-232 standard, 20 mA current loop (passive only) or Centronics® Parallel

WEIGHT:
12 lb

BAUD RATES:
300, 600, 1200, 2400, 4800, 9600 or 19,200 selectable

PARITY:
1 parity bit (even ignored by printer)

APPROVALS:
UL & C-UL listed, CE marked

WARRANTY:
One-year limited warranty (includes printhead)

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SP2200

Ticket Printer

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
34229	SP2200 Ticket Printer, 115 VAC w/RS-232 (black/light gray)	12 lb	$1,360.00
35855	SP2200 Ticket Printer, 230 VAC w/RS-232 (black/light gray)	12 lb	1,360.00

SP2200 WITH TIME/DATE AND SWITCH MODULE

34228	SP2200 Ticket Printer, 115 VAC w/RS-232 (black/light gray)	12 lb	1,460.00
35856	SP2200 Ticket Printer, 230 VAC w/RS-232 (black/light gray)	12 lb	1,460.00

OPTIONS/ACCESSORIES

35231	Switch module	90.00
20232	Time/date clock chip	90.00
20302	20 mA current loop	75.00
20308	Ink cartridge (black)	24.00
21210	Protective dust cover	75.00
34282	Maintenance and service manual	27.00
34171	Additional operating manual	27.00

CABLES

15548	25-pin D-sub male to 25-pin D-sub male 20 mA serial interface cable	55.00
15568	25-pin D-sub male to 25-pin D-sub male RS-232 serial interface cable	55.00
15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable	55.00

Interfaces to: Rice Lake indicators with a serial port screw terminal connection

Consult	Custom 20 mA/RS-232 serial interface cable	100.00

Custom cables are designed to interface with your specific equipment. Please specify equipment model number and connector type.

Standard cable length is 5 feet. $2.00 charge for each additional foot.

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RL-22DT/RL-42DT/RL-42TT

Label Printer



RL-22DT



RL-42DT



RL-42TT

STANDARD FEATURES

- 203 dpi
- Drop in media loading
- USB or RS232
- Gap label, black mark plain or fanfold label
- Label length detection
- Direct thermal
- Model RL-42TT - direct thermal/thermal transfer
- 32 Bit CPU
- Memory - 4MB flash, 8MB SDRAM

SPECIFICATIONS

PRINT SPEED:
RL-22DT/RL-42DT 2 - 4 ips
RL-42TT 6 ips

PRINT LENGTH:
Minimum - 0.47 in
Maximum - 68 in

PRINT WIDTH:
RL-22DT - 2.2 in
RL-42DT/RL-42TT - 4.25 in

MEDIA:
Label roll O.D. max: 4.92 in
Core: 1 in, 1.5 in
Thickness: 0.06 - 0.25 mm

RIBBON (RL-42TT):
Core: 1 in
Length: 300 m
Max ribbon roll O.D.: 2.67 in
Wide: 1.88 - 4.33 in

PRINTER LANGUAGE:
EZPL (Firmware downloadable)

RESIDENT FONTS:
11 resident alphanumeric fonts (included OCR A & B) those are expandable eight times horizontally and vertically. All bit mapped fonts in eight orientations

BAR CODES:
Code 39, Code 93, Code 128 (subset A, B, C,) UCC/EAN - 128 K-Mart, UCC/EAN - 128, UPC A/E (add on 2 & 5,) 2 of 5, EAN 8/13 (add on 2 & 5.) Codabar, Post Net, EAN 128, DUN 14, MaxiCode, HIBC, Plessey, Random Weight, Telepen, FIM, China Postal Code, RPS 128, PDF 417, Datamatrix code, QR Code

INTERFACES:
Baud rate 4800 - 115,200
USB port U2.0

POWER:
Auto switching 100/240 VAC 50/60 Hz

ENVIRONMENT:
Operation: 40°F to 104°F
Storage: -40°F to 122°F

HUMIDITY:
Operation: 30 - 85 % non-condensing, free air
Storage: 10 - 90% non-condensing, free air

PRINTER DIMENSIONS:
RL-22DT: 3.94 x 8.58 x 6.77 in, weight 1.8 kg
RL-42DT: 6.61 x 8.58 x 6.53 in, weight 2.5 kg
RL-42TT: 8.9 x 11.2 x 6.8 in, weight 2.72 kg

WARRANTY:
Two-year limited

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RL-22DT/RL-42DT/RL-42TT

Label Printer

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
107403	RL-22DT 2 in direct thermal, 10/240 VAC printer	12 lb	$389.00
107404	RL-42DT 4 in direct thermal, 110/240 VAC printer	12 lb	525.00
107405	RL-42TT 4 in thermal transfer, 110/240 VAC printer	N/A	625.00

OPTIONS/ACCESSORIES

RL-22DT

107406	Label peeler	60.00
107407	Cutter	330.00
107532	Print head	195.00
108222	Manual	15.00

RL-42DT

107409	Label peeler	60.00
107410	Cutter	455.00
107531	Print head	310.00
108222	Manual	15.00
107638	Guardian Enclosure	1,095.00

RL-42TT

107528	Label peeler	65.00
107529	Cutter	750.00
107531	Print head	310.00
108223	Manual	15.00
108793	Real time clock	45.00
107639	Guardian Enclosure	1,095.00

CABLES FOR ALL PRINTERS

41276	6 ft serial cable (DB9 to blunt end)	55.00
79074	USB cable	20.00
64661	6 ft serial cable DB9 m to 8 Pin Din	55.00
64660	6 ft serial cable DB9 m to DB9 male	55.00
Custom Pin ...	Custom RS232 serial cable	100.00

OPTIONS/ACCESSORIES

43900	Label View Pro bar code software	549.00
38941	Cleaning pen for open printhead printers 12 per box	57.00
38794	Cleaning cards, 2 in (W) x 6 in (L) 25 per box	50.00
111085	Power supply, Rice Lake printers	158.00

LABEL STOCK/RIBBON

RL-22DT

110347	Direct thermal, 2.25 W x 1.25 in L, 5 in diameter, 2100/roll	12.80/roll
40332	Direct thermal, 2.25 W x 2 in L, 5 in diameter, 1445/roll	13.50/roll
110348	Direct thermal, 2.25 W x 3 in L, 5 in diameter, 950/roll	13.50/roll
110349	Direct thermal, 2.25 W x 4 in L, 5 in diameter, 700/roll	10.80/roll
65617	Direct thermal, 2.25 W x 4.25 in L, 5 in diameter, 600/roll	14.60/roll
110346	Direct thermal, 1.20 in x .85 in 2710/roll 5 in diameter with perf.	7.60/roll

RL-42DT/RL-42TT

40332	Direct thermal, 2.25 W x 2 in L, 5 in diameter, 1445/roll	13.50/roll
53251	Direct thermal, 4 W x 3 in L, 5 in diameter, 930/roll	19.50/roll
40331	Direct thermal, 4 W x 4 in L, 5 in diameter, 745/roll	22.50/roll
37345	Direct thermal, 4 W x 6 in L, 5 in diameter, 450/roll	12.50/roll
47761	Direct thermal, 2.5 W x 121 ft L, continuous12 rolls/case	66.00/case
53261	Thermal transfer, 4 W x 3 in L, 5 in diameter, 930/roll	16.70/roll
110536	Ribbon (black),4.3 in wax/resin, 984 ft length	9.00/roll
110537	Ribbon (black),2.5 in wax/resin, 984 ft length	4.50/roll

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SURVIVOR® SST3



STANDARD FEATURES

- IP69K washdown rating
- Washdown 304 stainless steel enclosure
- Electronics protected from splashes
- Direct thermal
- 203 dpi printhead
- Label length detection
- Real time clock
- USB, serial or parallel communications
- Line mode
- Tested and passed IP65, IP66 and IP69K

Options

- Wireless or wired Ethernet
- Heater
- Thermal transfer

APPROVALS

UL LISTED

SPECIFICATIONS

PRINT SPEED:
2 in - 10 in per second (51 mm - 152 mm)

SUPPLY ROLL CAPACITY:
8 in (203 mm) O D on 1.5 in - 3.0 in (38 mm - 76.2 mm) cores.

BAR CODE MODULUS:
5 mil - 55 mil "X" dimension in picket fence or ladder orientations

MEDIA WIDTH:
.75 in - 4.65 in (17 mm - 118 mm)

MEDIA TYPE:
Roll fed, die-cut or continuous labels; perforated or continuous tag/ticket stock

PRINT LENGTH:
.25 in - 99 in (6 mm - 2475 mm)

MEDIA THICKNESS:
.0025 in - .0100 in (.0635 mm - .254 mm)

RIBBONS (OPTIONAL):
Industry standard ribbon widths: 1 in (25 mm) ribbon core, 1476 ft (450 m) in length

BAR CODES:
Code 3 of 9, UPC-A, UPC-E, Interleaved 2 of 5, code 128, EAN-8, EAN-13, HIBC, Codabar, Plessey, UPC 2 and 5 digit addendums, Code 93, Postnet, UCC/Ean Code 128, Telepen, UPS MaxiCode, FIM, PDF417, USD-8, Datamatrix, QR Code, Aztec, TLC 39, Micro PDF417, RSS

GRAPHICS SUPPORT:
.PCX, .BMP and .IMG files

MEMORY:
16 MB RAM (8 MB FLASH) - 3 MB user available

RATING/MATERIAL:
IP69K/Stainless Steel 304

INTERFACES:
USB, Centronics® Parallel port, RS-232 at 600 - 38,400 BPS

POWER SOURCE:
Auto-sensing 103.5 - 126.50 or 207 - 253 VAC @ 47 - 63 Hz; US or European power cord

OPERATING TEMPERATURE:
40°F to 95°F (4°C to 35°C)

DIMENSIONS:
27 in x 14 in x 13.6 in

APPROVALS:
UL listed

PROCESSOR:
Dragon ball, 150 MHz

WARRANTY:
One-year limited warranty
One-year or 1-million linear inches on original printhead. 90 days on replacement printhead

RICE LAKE WEIGHING SYSTEMS

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SURVIVOR® SST3

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
107402	SST3 direct thermal, peel and present, internal rewinder included 115VAC US power cord	70lb	$4,595.00
110303	SST3 printer with heater installed	70lb	4,950.00
111868	SST3 direct thermal, peel and present, internal rewinder, 230 VAC European power cord		4,595.00
111871	SST3 direct thermal, peel and present, internal rewinder, 230 VAC European power cord, heater		4,950.00

OPTIONS/ACCESSORIES

111121	Heater kit for SST3 115 VAC (for installs after printer has been purchased)	505.00
111872	Heater kit for SST3, 230 VAC (for installs after printer has been purchased)	505.00
76729	Thermal transfer option	100.00
76732	Present sensor only	95.00
52412	Network connectivity (MPS-1T,) 10 mbps micro print server	495.00
35664	Pre-saturated cleaning cards, 4in x 6in, 25 per box	30.00
93181	Film, printhead cleaning 4in wide, 3 per box	18.00
76734	Programmer's manual (pdf included on Datamax CD-ROM)	125.00
77562	Operating manual (pdf included on Datamax CD-ROM)	25.00
109181	Manual service SST3	15.00
76735	Maintenance manual, M class	95.00
103372	Internal LAN (Ethernet) card	175.00
113764	Wireless and LAN card, attaches to back	940.00
103374	USB Host, LAN and Wireless card	550.00

LABEL STOCK/RIBBON

21776	Direct thermal, 3in W x 3in L, 8in diameter, 2000/roll	36.50/roll
25973	Direct thermal, 4in W x 6in L, 6in diameter, 460/roll	15.70/roll
25975	Direct thermal, 4.25in W x 2.5in L, 6in diameter, 1095/roll	22.40/roll
21785	Thermal transfer, 2in W x 1in L, 8in diameter, 5500/roll	12.20/roll
21788	Thermal transfer, 4in W x 6in L, 8in diameter, 1000/roll	16.80/roll
20573	Thermal transfer, 4in W x 6.5in L, 8in diameter, 900/roll	17.90/roll
34051	Ribbon, black 2in	12.15/roll
34056	Ribbon, black 4in	25.25/roll

PRINTHEAD

103369	Printhead 203 dpi	425.00

CABLES

41276	DB9 male RS-232 serial data cable with blunt end	55.00
64794	DB9 RS-232 serial data cable with DB9F to DB9M	55.00
37527	6ft parallel cable	35.00
79074	USB cable	20.00

Interfaces to: UMC555, UMC600, IQ700, IQ plus 355, IQ plus 390-DC, IQ plus 510, IQ plus 590-DC, IQ plus 710, 520 and 920i

Consult	Custom 20 mA/RS-232 serial interface cable	100.00

Custom cables are designed to interface with your specific equipment. Please specify equipment model number and connector type.

Standard cable length is 5 feet. $2.00 charge for each additional foot.

GUARDIAN™/GUARDIAN G-2™

Steel Printer Enclosures



Guardian Plus/Guardian Max



Guardian G-2

STANDARD FEATURES

GUARDIAN

- Designed to protect the Datamax® Prodigy™ Plus, Prodigy Max™, M4206/M4208, I-4206, I-4208, I-4308 and I-4212 printers from harsh washdown environments
- Single lift-and-turn latch for easy access
- Adjustable anti-skid feet for easy leveling alignment and cleaning under unit
- Sliding label-access door
- Heavy-gauge 304 stainless steel construction for durability

GUARDIAN G-2

- Designed to protect the DATAMAX® E-4203 and Zebra® LP/TLP-2642, LP/TLP-2742, and LP/TLP-2844 printers from harsh washdown environments
- Single lift-and-turn latch for easy access
- Adjustable anti-skid feet for easy leveling alignment and cleaning under unit
- Sliding label-access door
- Heavy-gauge 304 stainless steel construction for durability

GUARDIAN MODEL SPECIFICATIONS

ENCLOSURE:
304 stainless steel; piano-style hinge

DIMENSIONS:
Part #66762: 14.25 in W x 14.25 in H x 21.25 in D (361.2 mm W x 361.2 mm H x 539.7 mm D)

WEIGHT:
Approximately 38 lb (17.2 kg)

WARRANTY:
One-year limited warranty

GUARDIAN G-2 MODEL SPECIFICATIONS

ENCLOSURE:
Heavy-gauge 304 stainless steel

DIMENSIONS:
Part #78672: 12.75 in W x 8.25 in H x 18.5 in D (323.8 mm W x 209.5 mm H x 469.9 mm D)

WEIGHT:
Approximately 30 lb (13.6 kg)

WARRANTY:
One-year limited warranty

GUARDIAN

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
66762	Guardian stainless steel printer enclosure for DATAMAX® I-4206, I-4208, I-4308 and I-4212	38 lb	$2,650.00

Consult factory for additional models and pricing.

GUARDIAN G-2

PART #	DESCRIPTION	PRICE
78672	Guardian, GT for Zebra TLP2844	$1,095.00
99465	Guardian, GT/z DT LP2844	1,095.00
107638	Guardian, G-2 RL-42DT	1,095.00
107639	Guardian, G-2 RL-42TT	1,095.00

OPTIONS/ACCESSORIES

46341	Heater option	202.00
46342	Fan option	98.00

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POLY GUARD

Clear Printer Enclosures



STANDARD FEATURES

- Designed for use in meat and food processing plants
- Cover separates from bottom
- In washdown position, stainless latches hold bottom and cover together
- Power and data cable feed through sealed notch in back of enclosure
- Side door for easy label loading

SPECIFICATIONS

DIMENSIONS:
Part #88531: 13 in W x 12 ¾ in T x 23 ½ in L Base
Add ½ in sides for latches and ½ in side door
Part #88532: 14 in W x 14 ¾ in T x 24 1/2 in L Base
Add ½ in sides for latches and ½ in side door

WEIGHT:
24 lbs

ENCLOSURE:
¼ in Polycarbonate
Base-Natural polyethylene (butcher's block)

WARRANTY:
One-year limited warranty

PART #	DESCRIPTION	PRICE
88531	Datamax-O'Neil® M-Class, enclosure	$1,150.00
88532	Datamax-O'Neil® I-Class, enclosure	1,300.00

OPTIONS/ACCESSORIES

Consult	Ventilation fan	Consult Factory
Consult	Heater assembly with power	Consult Factory

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Datamax-O'Neil® Ex2

Direct Thermal



STANDARD FEATURES

- 203 dpi (8 dots/mm) print resolution
- Direct thermal printing of bar codes, text and graphics; on-demand and batch printing
- 32-bit multi-tasking processor
- 2MB DRAM memory (temp label storage)
- 4MB Flash downloadable program memory (firmware)
- No dip switches
- Adjustable media width
- Datamax CD-ROM (contains Windows® print drivers and manuals)
- Tear bar up or down

Windows is a registered trademark of Microsoft Corporation

APPROVALS

SPECIFICATIONS

PRINT SPEED:
3 in (76 mm) per second

PRINT RESOLUTION:
203 dpi

PRINT LENGTH RANGE:
0.375 in-11 in (9.53 in to 279 mm) programmable

MAXIMUM PRINT WIDTH:
4.09 in (104 mm)

MAXIMUM LABEL LENGTH:
11 in (279 mm)

MEDIA WIDTH:
4.12 in (104.6 mm) maximum, 1 in (25 mm) minimum

MEDIA CORE:
1 in (25.4 mm)

MEDIA TYPES:
Roll-fed, die-cut, continuous, fanfold

MINIMUM LABEL LENGTH:
Tear off mode: 0.25 in (6.35 mm)
Peel Mode: 1 in (25.4 mm)
Cutter Mode: 1 in (25.4 mm)

MEDIA THICKNESS:
0.0025 in to 0.0075 in (0.06 to 0.19 mm)

MAXIMUM MEDIA ROLL DIAMETER O.D.:
5 in (102 mm)

FAN FOLD MEDIA:
Loads through rear of printer

GAP AND NOTCH SENSING STANDARDS:
Gap between labels: 0.1 in (3 mm) minimum

INTERNAL FONT SETS:
Nine bit-mapped fonts, rotatable 0, 90, 180, and 270 degrees

FONT ENGINE:
Scalable

DIMENSIONS:
8.6 in - Wide
10.4 in - Deep
7 in - High

INTERFACES:
Select one:
-RS-232/DB-9 serial connection
600-38.4K band supported
-Centronics parallel
-USB

OPERATING VOLTAGE:
115 or 230 VAC, 50/60 Hz, auto ranging (option)

APPROVALS:
UL listed, CSA certified, complies with FCC, CFR 47 part 15 Class A

OPERATING TEMPERATURE:
40°F to 95°F (4°C to 35°C)

WEIGHT:
4.2 lb

WARRANTY:
One-year limited warranty on parts.
One-year or 1 million linear inches on original printhead. 90 days on replacement printhead.

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Datamax-O'Neil® Ex2

Direct Thermal

PART #	DESCRIPTION	PRICE
92487	Ex2 Direct Thermal Label Printer w/4MB	$520.00
92488	Ex2 Direct Thermal Label Printer w/Peel & Present (sensor included) w/4MB	645.00
92489	Ex2 Direct Thermal Label Printer w/8MB	600.00
92490	Ex2 Direct Thermal Label Printer w/8MB w/Peel & Present (sensor included)	725.00

OPTIONS/ACCESSORIES

93181	Film, printhead cleaning 4 in wide, box of 3	18.00
92491	External 12 in Media Supply	450.00
92492	Battery Pack	295.00
Consult	Quick Start Guide	N/C

Ex2 Operator's Manual (available free on www.datamaxcorp.com)

Consult	Ex2 Programmer's Manual (available free on www.datamaxcorp.com)	N/C
Consult	Accessories CD Ex2 Windows Driver (included with printer & driver available free on www.datamaxcorp.com)	N/C
92493	CG Triumvirate Scalable Font	30.00
92494	CG Times ILPC Font	15.00
92495	Kanj Gothic B Font	100.00

REPLACEMENT PARTS

72473	Printhead, 203 dpi E class	200.00
64802	Power supply, auto ranging 120-240 VAC	95.00

CABLES

41276	DB9 male RS-232 serial data cable with blunt end	55.00
64794	DB9 RS-232 serial cable DB9F to DB9M	55.00
37527	6 ft parallel cable	35.00
79074	USB cable	20.00
37527	Parallel Data Cable 6 ft	35.00

LABEL STOCK

110350	Direct thermal, 2 in W x 1 in L, 5 in diameter, 2600 labels/roll	15.05/roll
110352	Direct thermal, 3 in W x 3 in L, 4 in diameter, 950 labels/roll	18.72/roll
37345	Direct thermal, 4 in W x 6 in L, 4 in diameter, 450 labels/roll	12.50/roll
43900	Labelview Pro, parallel key	549.00

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NEW Datamax-O'Neil® E-4205e Mark II



STANDARD FEATURES

- 203 dpi
- Drop in media loading
- USB, RS-232, or Parallel
- Gap label, black mark plain or fanfold label
- Label length detection
- Direct thermal and thermal transfer models
- Die cast frame, plastic shell with media viewing window
- Field installable options

OPTIONS:

- Thermal transfer
- Label presenter

APPROVALS

UL LISTED

SPECIFICATIONS

PRINT SPEED:
5 in (127 mm) per second

PRINT LENGTH RANGE:
0.375 in - 100 in

PRINT WIDTH:
4.25 in

MEDIA TYPES:
Fan-fold; die-cut; or perforated or continuous tag/ticket stock

MINIMUM LABEL LENGTH:
1.25 in with optional cutter installed

MEDIA:
Label roll O.D. : 5.0 in (max)
Core: 1 in
Width: 0.75 in - 4.3 in
Thickness: 0.0025 - 0.02 in

RIBBON:
(OPTIONAL - THERMAL TRANSFER)
Length: 1184 ft (361M)
Core: 0.5 in (1.27 cn)

PRINTER LANGUAGE:
DPL (Firmware downloadable)
Also available to flashed ZPL or IPL

RESIDENT FONTS:
10 alphanumeric fonts from 0.08 to 0.25 in including OCR-A, OCR-B, CG triumvirate smooth font from AGFA

BAR CODES:
Linear Code 3 of 9, Code 93, Code 128, UCC/EAN-128, UPC E, EAN 8/13, Interleaved 2 or 5, Codabar, Post Net, HIBC, UPC 2 and 5 Addendums, Plessey and Telepen

2-D SYMBOLOGIES
MaxiCode, PDF417, Datamatrix, QR Code, USD-8, Aztec, TLC 39 and Micro PDF417

DIMENSIONS:
7.05 in x 8.77 in x10 in
(179 mm x 223 mm x 25 mm)

MEMORY:
DRAM: 16MB/Flash: 4 MB

INTERFACES:
Baud rate: up to 38,400 BPS
Standard: USB<Parallel Centronics, Serial RS-232 (DB-9)

POWER:
Auto switching 100/240 VAC, 50/60 Hz, US power cord

OPERATING TEMPERATURE:
40°F to 95°F (4°C to 35°C)

WEIGHT:
5.2 lb (2.4 kg)

WARRANTY:
One-year limited warranty

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Datamax-O'Neil® E-4205e Mark II

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
112435	Printer, E-4205e, 4 in direct thermal, 110/240 VAC cool grey	6 lb	$525.00
112436	Printer, E-4205e, 4 in thermal transfer, 110/240 VAC cool grey	6 lb	595.00

OPTIONS/ACCESSORIES

64792	Label presenter (downward looking) and peeler kit	160.00
112437	Cutter, grey (5mil)	200.00
112517	Print head E class	110.00
64791	Thermal transfer kit (field installable)	75.00
64794	RS-232, 9 Pin serial cable DB9F to DB9M	55.00
52412	DMX-100 external ethernet print server	495.00
79074	USB cable	20.00
41276	6 ft serial cable, DB to blunt end	55.00
43900	Label View Pro bar code software parallel key	549.00
38941	Cleaning pens for open printhead printers, 12 per box	57.00

LABEL STOCK/RIBBON

40332	Direct thermal, 2.25 W x 2 in L, 5 in diameter, 1445 per roll	13.50
53251	Direct thermal, 4.0 W x 3 in L. 5 in diameter, 930 per roll	19.50
40331	Direct thermal, 4.0 W x 4.0 in L, 5 in diameter, 745 per roll	22.50
37345	Direct thermal, 4.0 W x 6.0 in L, 5 in diameter, 450 per roll	12.50
53261	Thermal transfer, 4.0 W x 3.0 in L, 5 in diameter, 930 per roll	16.70
35477	Ribbon, 3.5 in x 360 ft	6.10
35478	Ribbon, 4.33 in x 360 ft	7.70

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RFID OPTION Datamax-O'Neil® M-4206 Mark II/M-4210 Mark II



STANDARD FEATURES

- 203 dpi (8 dots/mm) print resolution
- Light weight die-cast aluminum frame
- Supplies loading diagram embossed into the frame
- Collapsible ribbon hub for loading and unloading of ribbons
- Media window
- Scaleable font engine
- USB, serial and parallel communications
- Reverse fields/mirror image (fonts/graphics can be printed as a normal or reverse image)
- Real time clock (M-4210)
- Datamax CD-ROM (contains DMX EM conf. tool, Windows® print drivers and manuals)
- Line mode
- LCD Graphical Display

OPTION:
R-series RFID HF & UHF M210 Mark II

Windows is a registered trademark of Microsoft Corporation

APPROVALS

UL LISTED CE CSA

SPECIFICATIONS

PRINT SPEED:
M-4206 Mark II: 2 in to 6 in per second (51 mm to 152 mm)
M-4210 Mark II: 2 in to 10 in per second (51 mm to 152 mm)

SUPPLY ROLL CAPACITY:
8 in (203 mm) O D on 1.5 in – 3.0 in (38 mm–76.2 mm) cores. Fanfold stock accepted from rear and bottom of printer.

BAR CODE MODULUS:
5 mil to 55 mil "X" dimension in picket fence or ladder orientations

MEDIA WIDTH:
.75 in to 4.65 in (17 mm to 118 mm)

MEDIA TYPE:
Roll fed or fan-fold materials, die-cut or continuous labels; perforated or continuous tag/ticket stock

PRINT LENGTH:
.25 in – 99 in (6 mm – 2475 mm)

MEDIA THICKNESS:
.0025 in – .01 in (.0635 mm – .254 mm)

RIBBONS:
Industry standard ribbon widths; 1 in (25 mm) ribbon core, 1476 ft (450 m) in length

BAR CODES:
Code 3 of 9, UPC-A, UPC-E, Interleaved 2 of 5, Code 128, EAN-8, EAN-13, HIBC, Codabar, Plessey, UPC 2 and 5 digit addendums, Code 93, Postnet, UCC/EAN Code 128, Telepen, UPS MaxiCode, FIM, PDF417, USD-8, Datamatrix, QR Code, Aztec, TLC 39, Micro PDF417, RSS

GRAPHICS SUPPORTED:
.PCX, .BMP and .IMG files

MEMORY:
M4206 - 8MB RAM (4MB FLASH)-1MB user available
M4210 - 16MB RAM (8MB FLASH)-3MB user available

CONSTRUCTION:
Metal

INTERFACES:
USB, Centronics® Parallel port, RS-232 at 600 to 38,400 BPS

POWER SOURCE:
Auto-sensing 90 – 132 or 180 – 264 VAC @ 47 – 63 Hz; specify appropriate power supply and cord when ordering

OPERATING TEMPERATURE:
40°F to 95°F (4°C to 35°C)

OVERALL DIMENSIONS:
10.21 in H x 10.10 in W x 18.19 in D (259 mm H x 257 mm W x 462 mm D)

APPROVALS:
UL listed, CSA certified, CE marked, TUV-GS safety standards, FCC Class A emissions, ROHS and WEE compliant

PROCESSOR:
M-4206 Mark II Dragonball, 100 MHz
M-4210 Mark II Dragonball, 150 MHz

WEIGHT:
27 lb

WARRANTY:
Two-year limited warranty.
One-year or 1-million linear inches on original printhead. 90 days on replacement printhead.

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Datamax-O'Neil® M-4206 Mark II/M-4210 Mark II

M-4206 MARK II

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
103364	Datamax M-4206 Mark II Direct Thermal, 115/230 VAC	27 lb	$1,145.00
103365	Datamax M-4206 Mark II Direct Thermal, 115/230 VAC, Ethernet	27 lb	1,320.00

M-4210 MARK II

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
103367	Datamax M-4210 Mark II Direct Thermal, 115/230 VAC	27 lb	$1,495.00
103366	Datamax M-4210 Mark II Direct Thermal 115/230 VAC, Ethernet	27 lb	1,670.00
108891	Datamax M-4210 Mark II Direct Thermal, peel and present, internal rewind	30 lb	1,870.00

OPTIONS/ACCESSORIES

76729	Thermal transfer option, coated side in	100.00
76730	Peel mechanism and present sensor (requires internal rewinder)	175.00
76731	Internal rewinder	200.00
76732	Present sensor only	95.00
76733	Standard cutter kit for 10 mil stock	695.00
52412	Network connectivity (MPS-1T), 10 mbps micro print server	495.00
35664	Pre-saturated cleaning cards, 4 in x 6 in 25/box	30.00
93181	Film, printhead cleaning 4 in wide, 3 per box	18.00
76734	Programmer's manual (pdf included on Datamax CD-ROM)	125.00
77562	Operating manual (pdf included on Datamax CD-ROM)	25.00
76735	Maintenance manual, M class	95.00
103372	Internal LAN (Ethernet) Card	175.00
103373	Wireless and LAN Card	450.00
103374	USB Host, LAN and Wireless Card M-4210 only	550.00

LABEL STOCK/RIBBON

21776	Direct thermal, 3 in W x 3 in L, 8 in diameter, 2000/roll	36.50/roll
25973	Direct thermal, 4 in W x 6 in L, 6 in diameter, 460/roll	15.70/roll
25975	Direct thermal, 4.25 in W x 2.5 in L, 6 in diameter, 1095/roll	22.40/roll
21785	Thermal transfer, 2 in W x 1 in L, 8 in diameter, 5500/roll	12.20/roll
21788	Thermal transfer, 4 in W x 6 in L, 8 in diameter, 1000/roll	16.80/roll
20573	Thermal transfer, 4 in W x 6.5 in L, 8 in diameter, 900/roll	17.90/roll
34051	Ribbon, black, 2 in	12.15/roll
34056	Ribbon, black, 4 in	25.25/roll

PRINTHEAD

103369	Printhead 203 dpi M-class	425.00

CABLES

41276	DB9 male RS-232 serial data cable with blunt end	55.00
64794	DB9 RS-232 serial data cable with DB9F to DB9M	55.00
37527	6 ft parallel cable	35.00
79074	USB Cable 6 ft	20.00

ALSO AVAILABLE

Consult	M-4308 models by request	Consult

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Datamax-O'Neil® I-4208/I-4308 Direct Thermal/Thermal Transfer Label Printer



APPROVALS

STANDARD FEATURES

- 203 dpi (8 dots/mm) print resolution (I-4208)
- 300 dpi (11.8 dots/mm) print resolution (I-4308)
- Easy-to-read Liquid Crystal Display (LCD)
- Scaleable engine
- 3 in/1.5 in (76.2/38.1 mm) revolving media hub
- 32-bit 66 Mhz microprocessor
- Media window
- 8MB addressable RAM
- 1MB flash ROM
- 186 in (4724.4 mm) print buffer size
- Datamax CD-ROM (contains Windows® print drivers and manuals)

Windows is a registered trademark of Microsoft Corporation

SPECIFICATIONS

PRINT SPEED:
2 in to 8 in per second (51 to 152 mm)

RESOLUTION:
203 dpi (8 dots/mm)

MAXIMUM PRINT WIDTH:
4.094 in (104 mm)

MEDIA WIDTH:
1 in to 4.65 in (25 to 118 mm)

PRINT LENGTH:
0.25 in – 99 in (6 to 2475 mm) .75 in (19 mm) minimum print length with optional present sensor

SUPPLY ROLL:
8 in (203 mm) maximum diameter on 1.5 in to 3 in (38 to 76 mm) core. Fan-fold stock accepted from rear of printer

REVOLVING MEDIA HUBS:
Standard in 1.5 in and 3 in; optional 40 mm

RIBBONS:
Industry standard ribbon widths; 1 in (25 mm) ribbon core, 1968 ft (600 m) in length

BAR CODES:
Code 39, Interleaved 2 of 5, Code 128 (subsets A,B and C), Codabar, LOGMARS, UPC-A, UPC-E, UPC 2 & 5 digit addendums, EAN-8, EAN-13, EAN 2 & 5 digit addendums, UPC random weight, Code 93, MSI Plessey, Universal Shipping Container Symbology, UCC/EAN Code 128, QR Code, Postnet, Code 128 MOD 43, PDF 417, Micro PDF, UPS MaxiCode (mode 2 & 3), Datamatrix, Telepen, Aztec Code

GRAPHICS SUPPORT:
.PCX, .BMP and .IMG files

MEMORY:
1MB Downloadable Flash Program Memory
8MB DRAM memory

DIMENSIONS:
12.7 in H x 12.62 in W x 18.6 in D

INTERFACES:
Centronics® Parallel port (IEEE 1284 compliant), RS-232 at 300 to 38,400 BPS, optional Ethernet

POWER SOURCE:
Auto-sensing 90-264 VAC @ 47-63 Hz; specify appropriate power cord when ordering

APPROVALS:
UL listed, CSA certified, CE marked, ROHS and WEE compliant

WARRANTY:
Two-year limited warranty on parts. One-year or 1 million linear inches on original printhead. 90 days on replacement printhead

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Datamax-O'Neil® I-4208/I-4308 Direct Thermal/Thermal Transfer Label Printer

I-4208

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
67960	Datamax I-4208 Direct Thermal, 115VAC	50lb	$1,495.00
78877	Datamax I-4208 Direct Thermal, 115VAC, w/internal rewind and Peel & Present	50lb	1,890.00
67973	Datamax I-4208 Direct Thermal, 230VAC	50lb	1,495.00

I-4308

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
64883	I-4308 Direct Thermal Label Printer, 115/230VAC	50lb	$1,995.00

OPTIONS/ACCESSORIES

64884	Thermal transfer option, coated side in	100.00
78291	Peel mechanism and present sensor (requires internal rewinder)	195.00
53911	Internal rewinder	200.00
53913	Flash memory expansion, 8MB, includes 4MB addressable flash memory storage	165.00
64889	Kanji font kit	229.00
84416	Internal Ethernet, interface kit (field installable)	300.00
64892	RS-422 interface	98.00
53918	Standard cutter kit for 10 mil stock	795.00
53921	Light-duty cutter, designed for 5 mil stock	595.00
64895	Media tray for cutter	115.00
35664	Pre-saturated cleaning cards, 4in x 6in, 25 per box	30.00
93181	Film, printhead cleaning 4in wide, 3 per box	18.00
38941	Cleaning pens, 12 per box	57.00
43900	LabelView Pro bar code label software for Windows® parallel key	549.00
64898	Additional programmer's manual	125.00
64896	Additional maintenance manual	129.00
75098	Additional operating manual	60.00

LABEL STOCK/RIBBON

21776	Direct thermal, 3in W x 3in L, 8in diameter, 2000/roll	36.50/roll
25973	Direct thermal, 4in W x 6in L, 6in diameter, 460/roll	15.70/roll
25975	Direct thermal, 4.25in W x 2.5in L, 6in diameter, 1095/roll	22.40/roll
21785	Thermal transfer, 2in W x 1in L, 8in diameter, 5500/roll	12.20/roll
21788	Thermal transfer, 4in W x 6in L, 8in diameter, 1000/roll	16.80/roll
20573	Thermal transfer, 4in W x 6.5in L, 8in diameter, 900/roll	17.90/roll
34051	Ribbon (black), 2in	12.15/roll
34056	Ribbon (black), 4in	25.25/roll

CABLES

15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable	55.00

Interfaces to: Rice Lake indicators with a serial port screw terminal connection

37527	6ft parallel cable	35.00

PRINTHEAD

53939	I-4208, 203 dpi printhead	450.00
66748	I-4308, 300 dpi printhead	695.00

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Datamax-O'Neil® I-4212

Direct Thermal/Thermal Transfer Label Printer



STANDARD FEATURES

- 203 dpi (8 dots/mm) print resolution
- 12 in (304.8 mm) per second print speed
- Serial and parallel connectivity
- Nine bitmapped fonts
- Scalable engine
- Revolving media hub
- 32 bit, 90 mHz microprocessor
- Media window
- 16MB RAM (optional)
- 2MB flash ROM
- Options easily field installed
- Datamax CD-ROM (contains Windows® print drivers and manuals)
- MCL Enabled

Windows is a registered trademark of Microsoft

APPROVALS

SPECIFICATIONS

PRINT SPEED:
I-4212: 2 in to 12 in per second (50.8 to 304.8 mm) in 0.5 in (0.01 mm) programmable increments

MAXIMUM PRINT WIDTH/LENGTH:
Width: 4.094 in (104 mm); Length: 0.25 in to 99 in (6 to 2475 mm) 0.75 in (19 mm) minimum print length with optional present sensor

MEDIA WIDTH:
1 in – 4.65 in (25 mm – 118 mm)

SUPPLY ROLL:
8 in (203 mm) maximum diameter on 1.5 in to 3 in (38 to 76 mm) core. Fan-fold stock accepted from rear of printer

RIBBONS:
Industry standard ribbon widths; 1 in (25 mm) ribbon core, 1968 ft (600 m) in length

MCL:
Macro Command Language allows printer to control the printing application

DIMENSIONS:
12.7 in H x 12.62 in W x 18.6 in D

RFID PRINTERS ONLY:
HF 13.56 MHZ or UHF 915 MHZ multi, protocol

CABINET:
Metal construction

MACRO COMMAND LANGUAGE:
MCL programmability in printer to control print operation without PC

BAR CODES:
Code 39, Interleaved 2 of 5, Code 128 (subsets A,B and C), Codabar, LOGMARS, UPC-A, UPC-E, UPC 2 & 5 digit addendums, EAN-8, EAN-13, EAN 2 & 5 digit addendums, UPC random weight, Code 93, MSI Plessey, Universal Shipping Container Symbology, UCC/EAN Code 128, Postnet, Code 128 MOD 43, PDF 417, UPS MaxiCode (mode 2 & 3), Datamatrix, Telepen

GRAPHICS SUPPORT:
.PCX, .BMP and .IMG files

MEMORY:
2MB Downloadable Flash Program Memory; 16MB DRAM memory

INTERFACES:
Centronics® Parallel port (IEEE 1284 compliant), RS-232 at 2,400 to 38,400 BPS, optional Ethernet

POWER SOURCE:
Auto-sensing 115, 230 VAC 50/60Hz; specify appropriate power cord when ordering

OPERATING TEMPERATURE:
40°F to 95°F (4°C to 35°C)

APPROVALS:
UL listed, CSA certified, CE marked, FCC Class A emissions standard, TUV-GS safety standards, ROHS and WEE compliant

WARRANTY:
Two-year limited warranty on parts.
One-year or 1 million linear inches on original printhead.
90 days on replacement printhead.

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Datamax-O'Neil® I-4212

Direct Thermal/Thermal Transfer Label Printer

I-4212

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
67145	DMX I-4212 Direct Thermal Label Printer, 115 VAC	50 lb	$1,595.00
67162	DMX I-4212 Direct Thermal Label Printer, 230 VAC w/European power cord	50 lb	1,595.00
75577	DMX I-4212 Direct Thermal Label Printer, 115 VAC w/peel mechanism and present sensor, internal rewind, thermal transfer	55 lb	2,090.00

OPTIONS/ACCESSORIES

64884	Thermal transfer option (coated side in)	100.00
78291	Peel mechanism and present sensor (requires internal rewind)	195.00
53911	Internal rewind, 6 in outer diameter capacity	200.00
86574	13.56 MHZ RFID add-on module (for use on RFID printer 13.56 MHZ)	875.00
87032	915 MHZ RFID add-on module (for use with RFID ready printer)	3,200.00
53913	Font/flash expansion PCB w/out fonts, includes 4 MB addressable flash memory storage and font memory	165.00
84416	Internal Ethernet interface kit	300.00
64892	RS-422 interface	98.00
53918	Standard cutter kit for 10 mil stock	795.00
53921	Light duty cutter, designed for 5 mil stock	595.00
64895	Media tray for cutter	115.00
43900	LabelView Pro bar code label software for Windows®	549.00
93181	Film, printhead cleaning 4 in wide, 3 per box	18.00
38941	Cleaning pens, 12 per box	57.00
35664	Pre-saturated cleaning cards, 4 in x 6 in, 25/box	30.00
64898	Additional programmer's manual	125.00
64896	Additional maintenance manual	129.00
81178	MCL dual serial port cable	145.00

LABEL STOCK/RIBBON

21776	Direct thermal, 3 in W x 3 in L, 8 in diameter, 2000/roll	36.50/roll
25973	Direct thermal, 4 in W x 6 in L, 6 in diameter, 460/roll	15.70/roll
25975	Direct thermal, 4.25 in W x 2.5 in L, 6 in diameter, 1095/roll	22.40/roll
21785	Thermal transfer, 2 in W x 1 in L, 8 in diameter, 5500/roll	12.20/roll
21788	Thermal transfer, 4 in W x 6 in L, 8 in diameter, 1000/roll	16.80/roll
20573	Thermal transfer, 4 in W x 6.5 in L, 8 in diameter, 900/roll	17.90/roll
34051	Ribbon (black), 2 in	12.15/roll
34056	Ribbon (black), 4 in	25.25/roll

PARTS

53939	Print head, 203 dpi	450.00

CABLES

15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable	55.00

Interfaces to: Rice Lake indicators with a serial port screw terminal connection

37527	6 ft parallel cable	35.00
41502	9 Pin PC to 25 Pin printer DB9 AT-style interface cable	55.00
41501	9 Pin PC to 25 Pin printer DB25 standard interface cable	55.00

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Datamax-O'Neil® H-4212(x)/H-4310(x) Direct Thermal/Thermal Transfer Label Printer



STANDARD FEATURES

- Peel and present
- Thermal transfer
- Nine bitmapped fonts
- Scalable engine
- Revolving media hub
- Media window
- 16MB RAM (optional)
- 8MB flash ROM
- Options easily field installed
- Datamax CD-ROM (contains Windows® print drivers and manuals)
- MCL Enabled
- Optional R series RFID and RFID ready printers
- Real time clock
- Secure digital input (SDID) card slot-SDID flash memory card
  - X model only
  - Optional on Non-X model

Windows is a registered trademark of Microsoft Corporation

APPROVALS

Datamax

SPECIFICATIONS

PRINT SPEED:
H-4310(x): 2 in to 10 in per second
H-4212(x): 2 in to 12 in per second
(50.8 to 304.8 mm) in 0.5 in (0.01 mm) programmable increments

RESOLUTION:
H-4212-203 dpi
H-4212x-200 dpi
H-4310/H-4310x-300 dpi

MAXIMUM PRINT WIDTH/LENGTH:
Width: 4.10 in (H-4212x) 4.16 in (H-4310x); Length: 0.25 in to 99 in (6 to 2475 mm) 0.75 in (19 mm) minimum print length with optional present sensor

MEDIA WIDTH:
1 in – 4.65 in (25 mm – 118 mm)

SUPPLY ROLL:
8 in (203 mm) maximum diameter on 3 in (76 mm) core. Fan-fold stock accepted from rear & bottom of printer

RIBBONS:
Industry standard ribbon widths; 1 in (25 mm) ribbon core, 1968 ft (600 m) in length

MCL:
Macro Command Language allows printer to control the printing application

DIMENSIONS:
H-4212: 13.0 in H x 12.6 in W x 18.9 in D
H-4310: 16.37 in H x 12.51 in W x 18.83 in D

RFID PRINTERS (CONTACT RICE LAKE) CABINET:
Metal construction, clear side window

BAR CODES:
Code 3 of 9, Interleaved 2 of 5, Code 128, Codabar, UPC-A, UPC-E, UPC 2 & 5 digit addendums, EAN-8, EAN-13, EAN 2 & 5 digit addendums, Code 93, Plessey, UCC/EAN Code 128, Postnet, PDF 417, UPS MaxiCode, Datamatrix, FIM,Telepen, HIBC, Aztec, TLC39, QR Code, PDF417, USD-8, Micro PDF41, 7, RSS, USPS-4

GRAPHICS SUPPORT:
.PCX, .BMP and .IMG files

MEMORY:
8MB Flash Memory; 16MB DRAM memory

INTERFACES:
Centronics® Parallel port (IEEE 1284 compliant), RS232/422 at 2,400 to 38, 400 BPS Ethernet, USB

POWER SOURCE:
Auto-sensing 115, 230 VAC 50/60 Hz; specify appropriate power cord when ordering

OPERATING TEMPERATURE:
32°F to 100°F (0°C to 38°C)

APPROVALS:
UL listed, CSA certified, CE marked, FCC Class A emissions standard, TUV-GS safety standards, ROHS and WEE compliant

WEIGHT:
47 lb

WARRANTY:
Three-year limited warranty on parts. One-year or 1 million linear inches on original printhead. 90 days on replacement printhead.

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Datamax-O'Neil® H-4212(x)/H-4310(x) Direct Thermal/Thermal Transfer Label Printer

H-4212

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
101388	H-4212, Direct thermal 203 dpi	40 lb	$2,195.00
96885	H-4212X, Direct/Thermal transfer, internal rewind 203 dpi	47 lb	3,020.00

H-4310

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
101389	H-4310, Direct thermal 300 dpi	40 lb	$2,395.00
96886	H-4310X, Direct/Thermal transfer, internal rewind 300 dpi		3,220.00

OPTIONS/ACCESSORIES

96940	Metal thermal transfer option (coated side in/out)	100.00
96941	HD peel mechanism and present sensor (requires interval rewinder)	195.00
96942	Basic peel & present sensor (requires internal rewinder)	100.00
96943	Powered internal rewinder, full roll	325.00
96952	Present sensor only option	95.00
96954	Internal ILPC font kit-CG Times	N/C
96955	DMXrfNet Internal 802.1 lb WiFi card	845.00
68517	External rewinder/unrewinder DMX	495.00
96956	Standard cutter kit for 10 mil stock	695.00
53913	Expansion board 8 MB flash	165.00
64889	I/O expansion Kanji	229.00

LABEL STOCK/RIBBON

21776	Direct thermal, 3 in W x 3 in L, 8 in diameter, 2000/roll	36.50/roll
25973	Direct thermal, 4 in W x 6 in L, 6 in diameter, 460/roll	15.70/roll
25975	Direct thermal, 4.25 in W x 2.5 in L, 6 in diameter, 1095/roll	22.40/roll
21785	Thermal transfer, 2 in W x 1 in L, 8 in diameter, 5500/roll	12.20/roll
21788	Thermal transfer, 4 in W x 6 in L, 8 in diameter, 1000/roll	16.80/roll
20573	Thermal transfer, 4 in W x 6.5 in L, 8 in diameter, 900/roll	17.90/roll
34051	Ribbon (black), 2 in	12.15/roll
34056	Ribbon (black), 4 in	25.25/roll

PARTS

96957	Printhead 203 dpi (H-4212x)	450.00
96958	Printhead 300 dpi (H-4310x)	695.00

CABLES

15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable	55.00

Interfaces to: Rice Lake indicators with a serial port screw terminal connection

37527	6 ft parallel cable	35.00
41502	PC to printer DB9 AT-style interface cable	55.00
79074	USB cable 6 ft	20.00

Note: The following models are available by special order.

H-6210= 6 in wide, 203 dpi

H-6308= 6 in wide, 300 dpi

H-4408= 4 in wide, 400 dpi

H-4606= 4 in wide, 600 dpi

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Datamax-O'Neil® A-4212 Mark II

Direct Thermal/Thermal Transfer Label Printer

NEW



STANDARD FEATURES

- Right-handed or left-handed configuration
- Stainless steel cover and components
- Electronics card cage
- 8 MB Flash/16 MB DRAM memory
- 200 MHz Processor
- Standard: USB, Parallel Centronics, Serial RS-232/RS-422 and LAN
- A programmable GPIO Port
- Backlit 320 x 240 enhanced graphic display panel
- English, French, Italian, German and Spanish display languages
- Industry standard bar code symbologies
- Time stamp at print capability with time and date battery back-up
- Static brushes
- IntelliSEAQ™ printhead resistance verification
- Paper retract control after print
- Ribbon low detection and warning
- Power-up, mode and resident option hardware diagnostics
- Option hardware auto-detection
- Media peel bar
- Media inch counters
- Input line mode (ASCII text input) capability
- Emulation languages available for PL-Z (Zebra) or PL-I (Intermec)
- AGFA Scaleable Font Language featuring dynamic font attributes

OPTIONS

- Thermal transfer models

SPECIFICATIONS

INTERFACES:

Types: Main Logic CCA
(1) parallel, IEEE 1284 compliant
(1) serial, DB9 RS-232/422/485 (configurable)
(1) USB, version 1.1 compliant
applicator Interface CCA
(1) serial, EIA RS-232 DB9 (configurable)
(1) serial, EIA RS-232 RJ45
(2) general purpose input/output port:
Signal
Inputs: Opto-coupled
Outputs: 500 mA max. sinking current
Voltage Outputs
+5 VDC, fused (resettable) @ 0.75 amps
+24 VDC, fused (resettable) @ 1.6 amps
Serial Data Rate
1200 to 115,000 bits per second (COM A)

ELECTRICAL:

Power supply: auto-ranging switching type
AC input voltage range: 90-132/180-264 VAC @ 47-63Hz, auto-ranging
Grounding: unit must be connected to a properly grounded circuit. A-4xxx models: 90 watts, typical operating; 10 watts, standby

POWER:

Power supply: auto-ranging switching type
AC input voltage range: 90-132/180-264 VAC @ 47-63Hz, auto-ranging requires grounded circuit 90 watts, typical operating 10 watts standby

OPERATING TEMPERATURE:

40° F - 100°F (4°C - 38°C)

OPERATING HUMIDITY:

10% - 90% non-condensing

PRINTING TECHNOLOGY:

Direct thermal or direct/thermal printing
2-12 inches per second (ips)

MEDIA AND RIBBON:

Media: wound out labels and tag stock, roll-fed, die-cut, notched, reflect up, continuous and fan-fold
Ribbon: (thermal transfer models only)
Width - 1.0 - 4.65 in
Length - 1968 ft
Core - 1.0 in (core not to protrude beyond ribbon edge)

DIMENSION:

9.67 x 15.35 x 11.81 in
(24.6 x 39 x 30 cm)

WEIGHT:

34 lb (15.3 kg)

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
112871	A-4212 Mark II applicator print engine, right-handed		$4,600.00
112872	A-4212 Mark II applicator print engine, left-handed		4,600.00
OPTIONS/ACCESSORIES			
84416	DMXNET Internal LAN card		300.00
52412	DMX-100 External LAN adaptor		495.00
Consult	DMXrfNET Internal wireless (802.11b) LAN card		Consult
53939	A4212 203 dpi replacement printhead		450.00
Consult	Pinch roller, 4 in right-handed		Consult
Consult	Pinch roller, 4 in left-handed		Consult

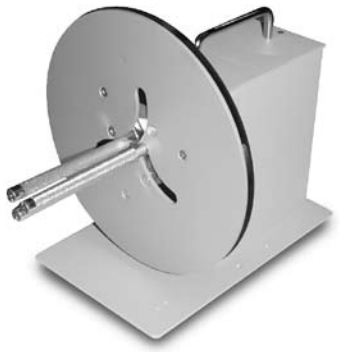
Note: thermal transfer models available by special quote

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Datamax-O'Neil® DMXREW1

Label Rewinder/Unwinder



APPROVALS

STANDARD FEATURES

- Rewinds or dispenses label rolls up to 4 in (101.6 mm) wide, up to 8 in (203 mm) in diameter at 10 (254 mm) inches per second
- Adjustable core holder
- Coreless rewinding
- Steel construction
- Anti-slip feet
- Constant Adjustable Torque™ technology
- Bidirectional operation
- ON-OFF start/stop switch
- Inner label flange to keep edge of label web aligned as labels are rewound
- Compatible with all Datamax® I Series, Zebra® TLP-2746, Zebra® Z4000 and Rice Lake SURVIVOR® SST printers

SPECIFICATIONS

LABEL WIDTH:
Up to 4.5 in (113 mm)

MAXIMUM LABEL ROLL WEIGHT:
8.5 lb (3.9 kg)

LABEL ROLL DIAMETER:
Up to 8 in (200 mm)

CORE DIAMETER:
Use any cardboard core from 1 in to 4 in (25 to 102 mm)

SPEED:
Up to 10 ips (25+ mm/sec)
Switch adjustable rewind force
No adjustments are required

START/STOP:
Convenient ON-OFF switch

DIRECTION:
Bidirectional

POWER REQUIREMENTS:
115 VAC 60 Hz

OVERALL SIZE:
9 in H x 6 in W x 11 in D
(229 H x 152 W x 279 mm D)

WEIGHT:
13 lb (5.9 kg)

APPROVALS:
UL listed, CSA certified

WARRANTY:
Three-year limited warranty on parts and labor. One-year limited warranty on included power supply module.

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
68517	DMXREW1 label rewinder/unwinder, 115 VAC	14 lb	$495.00

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Dymo® SE300 Printer



APPROVALS

UL LISTED

STANDARD FEATURES

- Easy-to-read full label format with date and time
- Fast and accurate printing of ID, UW, QTY, tare and bar codes
- Silent print and quiet operation
- Maximum print speed 2 inches/second
- 23 internal bar code symbologies
- Power cord and 9DB9 female serial cable included
- Compatible with DIGI® scales: DC-190, DMC-290, DC-200/300 with 73106
- Maximum print width: 2.20 in
- ASCII printer

SPECIFICATIONS

PRINT METHOD:
Direct thermal

PRINT HEAD DENSITY:
203 dpi

PRINT HEAD LIFE EXPECTANCY:
2,000,000 linear inches

MAXIMUM PRINT SPEED:
Two inches/second

INTERFACE:
RS-232 serial selectable 1200-115,200 baud, no parity, 8 data bits, 1 stop bit

MEMORY:
30K RAM for graphics buffer, 4K data input buffer

MAXIMUM MEDIA THICKNESS:
0.006 in (0.152 mm) card stock

POWER REQUIRED:
115 V

DIMENSIONS:
5 in W x 5.25 in H x 7.25 in D
(124 mm W x 133 mm H x 184 mm D)

APPROVALS:
UL listed

ESTIMATED SHIPPING WEIGHT:
1.25 lb (0.57 kg)

WARRANTY:
One-year limited warranty

PART#	DESCRIPTION	EST. SHIP WEIGHT	PRICE
73093	SE300 printer 9-pin DBF	1.25 lb	$495.00

OPTIONS/ACCESSORIES

74657	Label, 2.125 in x 2.75 in, 320 labels/roll, 3 rolls/case	68.00
73114	Label, 2.3 in x 4.5 in, 250 labels/roll, 3 rolls/case	68.00
73115	Label, 2.125 in x 2.75 in, 320 labels/roll	25.00/roll
74552	Label, 2.312 in x 4.5 in with D/C hole punches in liner 250 labels/roll	25.00/roll
73118	Label 2.3 in x 4.0 in, 300/roll	26.00/roll
73117	Paper, thermal	13.00/roll
81211	Adjustable spool	16.00/roll
81210	Power Cord	16.00/roll

CABLES

73106	Cable, RJ-11 to male 8-pin DIN (required for DC-190/DC-200/300) 6 ft	55.00
81209	Cable, RS-232 DB9F	20.00

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EPSON® TM-T88IV

POS Printer



STANDARD FEATURES

- High-speed printing of up to 7.9 in/sec.
- Same fast print speed for both text and graphics
- Two-color printing of receipts including logos and all other graphics (with special two color paper)
- Ease-of-use features including drop-in paper loading, long-lasting autocutter and Auto Status Back messages
- Improved cover design for increased spill resistance
- Two-year warranty

SPECIFICATIONS

PRINT SPEED:
7.9 in/second (200 mm) graphics and text; 3.9/second in 2-color print mode

PRINT FONT:
9x17/12x24

COLUMN CAPACITY:
56/42 columns

CHARACTER SIZE:
Font A: 1.47 x 3.39
Font B: 0.99 x 2.40
Kanji: 3.39 x 3.39 (W x H mm)

CHARACTER SET:
95 Alphanumeric, 37 International, 128 X 8 Graphic Traditional/Simple Chinese, Thai, Japanese, Korean

BARCODE:
UPC-A/E, CODE 39/93/128, EAN8/13, ITF, CODABAR 2D symbols: PDF417, QR-CODE

INTERFACE:
RS-232 or ethernet consult factory for IEEE parallel; RS-485; wireless Ethernet

DATA BUFFER:
Receive: 45 bytes or 4KB, selectable; user-defined: 12KB; macro: 2KB; NV graphics: 256KB; NV user: 1KB; page mode area: 106K

PAPER DIMENSIONS:
3.13 in ± 0.02 in x 3.27 in diameter (79.5 ± 0.5 (W) x 83 mm)

PAPER THICKNESS:
55-80 µm

POWER:
24 VDC ±7%

POWER CONSUMPTION:
Approx. 1.8 A (mean)

D.K.D FUNCTION:
2 drivers

RELIABILITY:
MTBF: 360,000 hours
MCBF: 52,000,000 lines
Autocutter: 1.5 million cuts

OVERALL DIMENSIONS: (W x D x H)
5.71 x 7.68 x 5.83 in (145x195x148 mm)

WEIGHT:
3.96 lb (1.8 kg)

COLOR:
Gray

FACTORY OPTIONS:
Power supply cover, PS-180 AC adapter, wall-hanging bracket, paper roll spacer, affixing tape and Connect-It interfaces

EMC STANDARDS:
FCC/ICES-003 Class A

SAFETY STANDARDS:
UL1950/CSA C22.2 No. 950

WARRANTY
Two-year warranty

PART #	DESCRIPTION	PRICE
103019	TM-T88IV, RS-232 PS-180 power supply thermal printer	$457.00
103021	TM-T88IV, Ethernet PS-180 power supply thermal printer	554.00
112331	TM-T88IV, USB, PS-180 power supply thermal printer	498.00

OPTIONS/ACCESSORIES

23112	Power supply, PS-180	106.00
69917	One-ply Thermal paper roll, 3.125w x 3.25 diameter 7/16 in core 295 ft/roll	5.00/roll
83007	Parallel Option connect-it cartridge	62.00
15568	25-pin D-sub male to 25-pin D-sub male RS232 serial interface cable	55.00
15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable	55.00

Interfaces to: Rice Lake indicators with a serial port screw terminal connection

Consult	Custom RS-232 serial cable	100.00

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EPSON® TM-U220

Tape Printer



Shown with rewinder option

STANDARD FEATURES

- 9-Pin Dot Matrix print head
- High-speed 4.7 to 6.0 lines per second printing
- Drop-in paper set and auto paper loading
- Automatically transmits changes in printer status
- RS-232
- Optional connect-it cartridges for parallel, USB, 10 Base-T

APPROVALS

SPECIFICATIONS

PRINT SPEED:
Approximately 4.7 lines per second

COLUMN CAPACITY:
40/42 or 33/35 columns

CHARACTERS PER LINE:
40 characters

PRINT AREA:
3 in (76.2 mm) wide

CHARACTER FORMATION:
7 x 9 and 9 x 9 dot matrix

CHARACTER HEIGHT:
0.12 standard font

CHARACTER SET:
95 alphanumeric characters,
37 international characters,
128 x 12 graphic characters

LINE SPACING:
0.17 in (4.32 mm)

PRINTHEAD LIFE:
Approximately 100 million strokes/pin

FORM THICKNESS:
0.002 in to 0.003 in (0.06 to 0.085 mm)

RIBBON:
Cassette-type purple ribbon. Ribbon life is approximately 1.5 million characters (continuous prints). Black ink also available.

SERIAL INTERFACES:
RS-232 compatible (25-pin D-sub)

BAUD RATES:
4800, 9600

PARITY:
7 or 8 bits, none, even or odd

OPERATING TEMPERATURE:
0°C - 50°C

STOP BITS:
1 or more

HANDSHAKING:
DTR/DSR or XON/XOFF control selectable

OVERALL DIMENSIONS:
Type A: 6.3 in W x 11.3 in D x 6.2 in H
(160 mm W x 286 mm D x 157.5 mm H)
Type D: 6.3 in W x 9.7 in D x 5.4 in H
(160 mm W x 248 mm D x 138.5 mm H)

APPROVALS:
UL listed, CSA-certified, CE marked

WARRANTY:
Two-year limited warranty (includes printhead)

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
81076	TM-U220D, RS-232, 115/230 VAC	10 lb	$408.00
81077	TM-U220A, internal rewind and cutter, RS-232, 115/230 VAC	10 lb	614.00

OPTIONS/ACCESSORIES

83007	Parallel option connect-it cartridge	62.00
35666	Protective dust cover	57.00
31296	Ink cartridge (purple)	12.00
*66499	Ink cartridge (black and red)	12.00
69916	One-ply paper roll, 3 in W x 150 ft L (76.2 mm W x 45.7 m L)	5.00/roll
69915	Two-ply paper roll, 3 in W x 90 ft L (76.2 mm W x 27.4 m L) white/canary yellow	7.00/roll
35667	Additional operating manual	16.00
72309	Power supply, 12 VDC vehicle cigarette plug	181.00
23112	115 VAC power supply (included with printer)	106.00

CABLES

15568	25-pin D-sub male to 25-pin D-sub male RS-232 serial interface cable	55.00
15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable	55.00

Interfaces to: Rice Lake indicators with a serial port screw terminal connection

Consult	Custom 20 mA/RS-232 serial interface cable	100.00

Custom cables are designed to interface with your specific equipment.
Please specify equipment model number and connector type.
Standard cable length is 5 feet. $2.00 charge for each additional foot.

*Red/Black ribbon to turn on ASCI code-27,1,14,48 ON
27,1,14,49 OFF

Epson

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EPSON® TM-U295

Ticket Printer



APPROVALS

STANDARD FEATURES

- High-speed 1.9 to 2.3 lines per second printing
- Single copy or up to four-part multicopy ticket printing
- Functions in slave capacity, printing information sent via RS-232

SPECIFICATIONS

PRINT SPEED:
1.9 to 2.3 lines per second (5 x 7 character, 3 dot line spacing)

COLUMN CAPACITY:
35/42 columns

CHARACTERS PER LINE:
35 standard font

PRINT AREA:
2.59 in W (65.8 mm W)

CHARACTER FORMATION:
5 x 7 and 7 x 7 dot matrix

CHARACTER HEIGHT:
0.11 standard font

CHARACTER SET:
Full 96-character ASCII; with software control, 32 international characters, 128 x 2 graphic characters

LINE SPACING:
0.16 in (4.06 mm) software programmable in 1/60 in units

PRINTHEAD LIFE:
Approximately 100 million strokes/pin

FORM THICKNESS:
Single-ply - 0.003 in to 0.009 in (0.08 to 0.23 mm)
Copy paper - 0.003 in to 0.014 in (0.08 to 0.36 mm)

RIBBON:
Cassette-type purple ribbon. Ribbon life is approximately 1.5 million characters (continuous prints). Black ink also available.

SERIAL INTERFACES:
RS-232 compatible (25-pin D-sub)

BAUD RATES:
1200, 2400, 4800, 9600, selectable

PARITY:
7 or 8 bits, none, even or odd

STOP BITS:
1 or more

HANDSHAKING:
DTR/DSR or XON/XOFF control selectable

OVERALL DIMENSIONS:
7.08 in W x 7.49 in D x 3.99 in H (180 mm W x 190.5 mm D x 101.5 mm H)

APPROVALS:
UL listed, CSA certified, CE marked

WARRANTY:
One-year limited warranty (includes printhead)

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
23113	TM-U295 Ticket Printer, RS-232, 115/230 VAC w/power supply	9 lb	$614.00
35891	TM-U295 Ticket Printer, 115/230 VAC w/RS-232 and power supply, 25 DB to blunt end cable	9 lb	660.00
33816	TM-U295 Ticket Printer, RS-232, 24 VDC	9 lb	583.00

OPTIONS/ACCESSORIES

29582	Protective dust cover	54.00
29584	Ink cartridge (purple) ERC-27	12.00
29583	Ink cartridge (black) ERC-27	12.00
23112	Power supply	106.00
34344	Additional operating manual	16.00
72309	Power supply, 12 VDC vehicle cigarette plug	181.00

CABLES

15568	25-pin D-sub male to 25-pin D-sub male RS-232 serial interface cable	55.00
15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable	55.00

Interfaces to: Rice Lake indicators with a serial port screw terminal connection

41279	25-pin D-sub male to 9-pin D-sub male, RS-232 with handshaking	55.00

Interfaces with DC-190, DC-100, DC-200, DC-300

32810	25-pin D-sub male to 8-pin D-sub male, RS-232 with handshaking	55.00

Interfaces with DC-190, DC-100, DC-200, DC-300

Consult*	Custom 20 mA/RS-232 serial interface cable	100.00

*Custom cables are designed to interface with your specific equipment. Please specify equipment model number and connector type.

Standard cable length is 5 feet. $2.00 charge for each additional foot.

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EPSON® TM-U590

Ticket Printer



STANDARD FEATURES

- High-speed 2.8 lines per second printing for 88 columns of print; 4.9 lines per second printing for 40 columns
- Single copy and up to five-part
- Wide slip capability of A4 size documents
- Functions in slave capacity, printing information sent via RS-232
- 5.2 in wide print area

APPROVALS

c UL us LISTED CE

SPECIFICATIONS

PRINT METHOD:
9-pin, serial impact dot matrix

FONT:
7 x 9 and 9 x 9

COLUMN CAPACITY:
88/66 columns

CHARACTER SIZE:
0.05 in W x 0.12 in H/0.06 in W x 0.12 in H
(1.3 mm W x 3.1 mm H/1.6 mm W x 3.1 mm H)

CHARACTER SET:
Alphanumeric: 95
International: 32
Graphic: 128 x 10

CHARACTERS PER INCH:
16.7 CPI/12.5 CPI

SERIAL INTERFACES:
RS-232/Bidirectional parallel/RS-485

DATA BUFFER:
4K/69 bytes

PAPER DIMENSIONS:
2.76 in W x 2.76 in L to 8.26 in W x 11.69 in L
(70 W x 70 mm L to 210 W mm x 297 mm L)

PAPER THICKNESS:
0.003 in to 0.014 in (0.09 mm to 0.36 mm)

COPY CAPABILITIES:
One original and four copies

POWER:
24 VDC ± 10%

POWER CONSUMPTION:
Approx. 43 W

D.K.D FUNCTION:
2 drives

RIBBON:
ERC-31 (purple)

OVERALL DIMENSIONS:
9.92 in W x 10.47 in D x 7.28 in H
(252 mm W x 266 mm D x 185 mm H)

APPROVALS:
CE marked, FCC class A, VCC #1,
UL & C-UL listed, TUV

WARRANTY:
One-year limited warranty
(includes printhead)

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
68502	TM-U590 Ticket Printer, RS-232 w/power supply, 115/230 VAC	12 lb	$1,026.00

OPTIONS/ACCESSORIES

68525	Ink cartridge (purple) ERC-31	12.00
104145	Ink cartridge (black)	12.00
23112	Power supply	106.00
111840	Printer veil (protective cover)	65.00
68562	Additional operating manual	12.00
68725	Technical manual	35.00
72309	Power supply, 12 VDC vehicle cigarette plug	181.00

CABLES

15568	25-pin D-sub male to 25-pin D-sub male RS-232 serial interface cable	55.00
15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable	55.00
41279	25-pin D-sub male to 9-pin D-sub male, RS-232 with handshaking	55.00
	Interfaces to: Rice Lake indicators with a serial port screw terminal connection	
32810	25-pin D-sub male to 8-pin D-sub male, RS-232 with handshaking	55.00
	Interfaces with DC-190, DC-100, DC-200, DC-300	
Consult	Custom 20 mA/RS-232 serial interface cable	100.00

Custom cables are designed to interface with your specific equipment. Please specify equipment model number and connector type.

Standard cable length is 5 feet. $2.00 charge for each additional foot.

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EPSON® EU-T400

Thermal Kiosk Printer



STANDARD FEATURES

- Modular design for easy mounting/integration
- Drop in paper loader
- Serial and parallel interfaces
- Graphics printing
- Fast printing up to 6 ips
- All steel chassis

APPROVALS

SPECIFICATIONS

PAPER WIDTH:
80mm standard, 58mm-114mm available

PAPER THICKNESS:
60-120um with loop
183um with no loop

PAPER DIAMETER:
8in outer max

INTERFACE:
RS-232 to 38 lb
D8-9 connection
Parallel

AUTOCUTTER:
Full-cut, guillotine style

DIMENSIONS:
7.7 x 6.7 x 11.8in (6in roll)
7.7 x 6.7 x 13.8in (8in roll)
Weight-3.9kg (8.6lb)

PRINT METHOD:
Direct thermal single & two-color printing (with special paper)

PRINT SPEED:
150mm/sec

PRINT WIDTH:
72-104mm (adjustable)

PRESENTER OPTION:
Bidirectional, friction feed loop

POWER REQUIRED:
24vdc

ENVIRONMENTAL:
0-5-kgC, 10-80% operating temperature and humidity

SENSORS:
Paper end, black mark
Photo sensor/ Platen open, cutter blade position
Micro switch/Printhead temperature

APPROVALS:
UL listed, CSA

WARRANTY:
One-year limited warranty

PART #	DESCRIPTION	PRICE
105443	EU-T400/T432, Embedded Unit for Kiosk Vertical, RS-232 and Parallel (requires power supply)	$1,095.00
23112	Power supply	106.00

OPTIONS/ACCESSORIES

105445	Paper 6in O.D., 1 in core, 80mm wide, 710 ft/roll, wound out	25.00
105446	Paper 8in O.D., 1 in core, 80mm wide, 1268 ft/roll, wound out	27.00
66535	Cable, 9 Pin female to 9 Pin female, null modem to PC, 6 ft	35.00

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Okidata 186 Turbo

Microline Printers



STANDARD FEATURES

- Vertical tabs
- Long-lasting, self-inking ribbon cartridge
- Bit image graphics for plotting charts, graphs and drawings
- Full ASCII character set
- Friction and adjustable pin feed paper handling
- 9-pin, long-life printhead
- RS-232 interface or parallel input
- Near letter-quality printing at 50 characters per second
- Superscripts, subscripts and underlining
- Bottom, rear or top feed

SPECIFICATIONS

PRINT METHOD:
9-pin (0.34 mm dia.) serial impact dot matrix

GRAPHICS RESOLUTION:
240 x 216 maximum

PRINT SPEED* (CPS):
NLQ: 62; Utility: 250; High Speed Draft: 333; Super Speed Draft: 375

FEED RATE:
2.0 ips

EMULATIONS:
IBM® 2480 Epson E6C/P or OKI® Microline®

INTERFACE:
Parallel, USB or RS-232

COMPATIBILITY:
186/Windows® XP, 2000, 98/95

RECEIVE BUFFER:
1 line buffer

PAPER INPUT:
Cut sheet, 7.2 in – 8.5 in W (182.9 mm – 215.9 mm W)
Bottom feed with pull tractor option

NUMBER OF COPIES:
Five copies

PIN FEED:
Continuous, 9.5 in – 10.5 in wide (241.3 mm – 266.7 mm wide)

PAPER THICKNESS:
0.014 in (0.35 mm) maximum

PAPER PATH:
Bottom, rear or top

PAPER WEIGHT:
Cut sheet 16 lb – 24 lb (7.2 kg – 10.8 kg), Continuous 16 lb – 20 lb (7.2 kg – 9.1 kg)

ELECTRICAL:
120 VAC: ±10%; 220/240 VAC: ±10%

POWER CONSUMPTION:
Operating: 35 W; Idle: 7 W

RELIABILITY (MTBF):
70,000 hours (25% duty cycle, 35% page density)

PRINTHEAD LIFE:
200 million characters

RIBBON TYPE:
Black cartridge (2 million characters nominal life)

OPERATING TEMPERATURE:
40°F to 104°F (4°C to 40°C) @ 25% to 80% relative humidity

OVERALL SIZE:
14.2 in W x 10.8 in D x 3.2 in H (360.7 mm W x 274.3 mm D x 81.3 mm H)

EST. SHIP WEIGHT:
10 lb (4.5 kg)

WARRANTY:
One-year limited warranty (includes printhead)

* Print speeds apply to all pitches (10, 12, 17.1, and 20 cpi)
** Requires optional pull tractor (part #41224)

Windows is a registered trademark of Microsoft Corporation

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
90969	Okidata 186 Turbo Printer w/RS-232, 115 VAC	10 lb	$660.00

OPTIONS/ACCESSORIES

20236	Tractor feed kit with friction rollers	88.00
20664	Ribbon cartridge black	8.00
21208	Protective dust cover	65.00
41364	Additional operating manual	36.00

CABLE

15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable	55.00

Interfaces to: Rice Lake indicators with a serial port screw terminal connection

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Okidata 320/390/420 Turbo

Microline Printers



Okidata 320 Turbo Microline



Okidata 420 Turbo Microline



Okidata 390 Turbo Microline

STANDARD FEATURES

- Vertical tabs
- Long-lasting, self-inking ribbon cartridge
- Bit image graphics for plotting charts, graphs and drawings
- Full ASCII character set
- Friction and adjustable pin feed paper handling

OKIDATA 320/420 TURBO*:

- 9-pin, long-life printhead (parallel input)
- Centronics®-compatible parallel interface
- Near letter-quality printing at 63 characters per second
- 80 column with standard character, 160 columns with condensed characters
- Front access panel for quick and easy control of type size, print quality and other frequently used printer functions

OKIDATA 390 TURBO:

- 24-pin, long-life printhead
- Supports Windows® 95/98
- Superior, professional quality printer
- Auto-tear accurately positions continuous forms for a clean tear at the perforation
- Three scaleable fonts

* Use with CBI

Windows is a registered trademark of Microsoft Corporation

SPECIFICATIONS

PRINT METHOD:
Okidata 320/420: 9-pin (0.34 mm dia.) serial impact dot matrix
Okidata 390: 24-pin (0.20 mm dia.) serial impact dot matrix

GRAPHICS RESOLUTION:
Okidata 320/420: 240 (H) x 216 (V) dpi maximum (Epson®/IBM®)
Okidata 390: 360 (H) x 360 (V) dpi maximum (Epson®/IBM® AGM)

PRINT SPEED (CPS):**
Okidata 320: NLQ: 75; Utility: 300; High Speed Draft: 390; Super Speed Draft: 435
Okidata 390: LQ: 105; Utility: 315; Super Speed Draft: 390 (15 cpi)
Okidata 420: NLQ95; High Speed Draft: 5p 510; Utility: 570, Super 570

FEED RATE:
5.0 ips

EMULATIONS:
Okidata 320: Epson® EX-PPR II and OKI® Microline®
Okidata 390: Epson® ESC/P2, IBM ProPrinter® and IBM AGM
Okidata 420: Epson Fx IMB Pro Point Micro

INTERFACE:
Okidata 320/390/420: IEEE 1284 bidirectional parallel; Windows® 95 plug and play compatible, USB
Okidata 390: Centronics® and IEEE 1284 bidirectional parallel

COMPATIBILITY:
Windows® XP, 2000, 98/95

RECEIVE BUFFER:
Okidata 320: 28K
Okidata 390: 23K
Okidata420: 128K

CODE PAGES:
Standard ASCII; Epson character set I & II; IBM character set I, I & All; Code Page 850, 860, 863, 865, 437; BRASCII and ABICOMP

RESIDENT FONTS:
Okidata 390: LQ: Courier, Letter Gothic, Orator, Prestige, Roman and Swiss™/Bold; Utility: Gothic

SCALEABLE FONTS:
Okidata 320/420: Courier, Gothic (22 – 216 pt. in one pt. increments)
Okidata 390: Courier, Roman and Swiss™ (8 – 64 pt. in one pt. increments)

BAR CODES:
Code 39, UPC A, UPC E, EAN 8, EAN 13, Interleaved 2 of 5, Code 128 (A, B, C), PostNet™

PAPER INPUT:
Single/multi-part, continuous, cut sheet, envelopes, card stock, labels
Bottom feed with pull tractor option

NUMBER OF COPIES:
Okidata 320: Six
Okidata 390: Four
Okidata 420: Six

TRACTOR:
3.5 in – 10.5 in wide (88.9 mm – 266.7 mm wide), rear push with zero tear and paper park (optional)

PAPER THICKNESS:
Rear feed: 0.014 in (0.35 mm) maximum; Bottom feed***: 0.017 in (0.43 mm) maximum, expandable to 0.01 in (.78 mm)

PAPER PATH:
Bottom, rear or top

PAPER WEIGHT:
Cut sheet 16 lb – 24 lb (7.2 kg – 10.8 kg), Continuous 16 lb – 20 lb (7.2 kg – 9.1 kg)

ELECTRICAL:
115 VAC, 230 VAC

POWER CONSUMPTION:
Okidata 320: Operating: 100 W
Okidata 390: Operating: 43 W; Idle: 10 W
Okidata 420: 20,000 hours

RELIABILITY (MTBF):
10,000 hours (25% duty cycle, 35% page density)

PRINTHEAD LIFE:
200 million characters

RIBBON TYPE:
Black cartridge (2 million characters nominal life)

OPERATING TEMPERATURE:
40°F to 104°F (4°C to 40°C) @ 25% to 80% relative humidity

OVERALL SIZE:
Okidata 320 & 390: 15.7 W x 13.6 in x 4.6 in H (398.8 W x 345.4 D x 116.8 mm H)
Okidata 420: 15.7 in x 13.6 in x 6.0 in

EST. SHIP WEIGHT:
Okidata 320: 16 lb (7.2 kg)
Okidata 390: 15 lb (6.8 kg)
Okidata 420: 17 lb

WARRANTY:
One-year limited warranty (includes printhead)
Okidata 420: Three-year limited warranty

** Print speeds apply to all pitches (10, 12, 17.1, and 20 cpi)
*** Requires optional pull tractor (part #41224)

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Okidata 320/390/420 Turbo

Microline Printers

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
41222	Okidata 320 Microline Printer w/parallel interface, 115VAC	16lb	$790.00
41223	Okidata 320 Microline Printer w/parallel interface, 230VAC	16lb	790.00
75106	Okidata 390 Microline Turbo Printer w/parallel interface, 115VAC	15lb	810.00
102959	Okidata 420 Microline Turbo Printer w/parallel interface, 115VAC	16lb	825.00

OPTIONS/ACCESSORIES

320/420 TURBO

41224	Pull tractor kit for bottom-fed continuous forms and push/pull operation	98.00
20239	RS-232 input board	170.00
20664	Ribbon cartridge black	8.00
21226	Protective dust cover	65.00
41363	Additional operating manual	36.00
75107	Cut sheet feeder	490.00

390 TURBO

75107	Cut sheet feeder	490.00
20239	RS-232 option board	170.00
41224	Pull tractor kit for bottom-fed continuous forms and push/pull operation	98.00
20664	Ribbon cartridge black	8.00

CABLES

15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable	55.00

Standard unit has pins on roller for holes on paper

Interfaces to: Rice Lake indicators with a serial port screw terminal connection

RICE LAKE WEIGHING SYSTEMS

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Star® Micronics SP298

Dot Matrix Ticket Printer



APPROVALS

c UL us LISTED

STANDARD FEATURES

- Top and bottom paper sensing
- AutoSide Loading™ for quick and easy document loading
- Bidirectional serial impact printer capable of printing graphics using a highly reliable 9-pin printhead
- Up to 3.1 lines per second printing with bidirectional check mode
- Epson® TM-U295/TM290 compatible with same size footprint and interchangeable power supply, easier paper and ribbon loading
- Single or up to three-part multi-copy ticket printing
- Cash drawer driver

SPECIFICATIONS

PRINT SPEED:
3.1 lines per second (13 mm/sec)

PRINT WIDTH:
2.5 in (63 mm)

LINE SPACING:
1/6 in, N/144 in Star line mode,
1-60 in-*ESC/POS™ mode

PRINTHEAD:
9-pin

NUMBER OF COLUMNS:
42

PRINT DIRECTION:
Bidirectional

PAPER WIDTH:
3.15 in to 7.17 in (80 mm to 182 mm)

PAPER THICKNESS:
0.004 in to 0.008 in (0.09 mm to 0.2 mm)

COPY CAPABILITIES:
One original and two copies

PAPER SENSORS:
Top and bottom of form

RIBBON:
Cassette-type purple ribbon. Ribbon life is approximately 2.2 million characters (continuous print)

PRINTER RELIABILITY:
9 million lines MCBF (CRT)

PRINTHEAD RELIABILITY:
70 million characters

INTERFACE:
RS-232 serial interface

DATA BUFFER:
Star mode: 2KB or 35 bytes
ESC/POS mode: 512 bytes or 35 bytes

EMULATION:
Star mode, ESC/POS™ (TM-U295/TM290)

CASH DRAWER:
Two drivers plus compulsion sensor

DRIVERS:
Windows® 95/98/2000/NT 4.0, OPOS, JavaPOS™

OPERATING TEMPERATURE:
41°F to 104°F (5°C to 40°C)

HUMIDITY:
10% to 80% RH

OVERALL DIMENSIONS:
7.09 in W x 7.48 in H x 7.48 in D
(180 mm W x 138 mm H x 190 mm D)

APPROVALS:
UL and C-UL listed, TUV

WARRANTY:
Three-year limited warranty on parts
One-year limited warranty on printhead

ESC/POS is a registered trademark of Epson Seiko LTD
Windows is a registered trademark of Microsoft Corporation

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
69901	SP298 Ticket Printer w/RS-232 and power supply, 115/230 VAC (gray)	9 lb	$598.00
69902	SP298 Ticket Printer w/RS-232, 24 VDC (gray) without power supply	9 lb	589.00

OPTIONS/ACCESSORIES

69921	Ink ribbon (purple)	10.00
69906	Power supply, PS-48-24A	98.00
72309	Power supply, 12 VDC w/cigarette plug (also works with TM-U295)	181.00
72471	Star programmers CD	11.00

CABLES

15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable	55.00
15568	25-pin D-sub male to 25-pin D-sub female RS-232 serial interface cable	55.00
72440	25-pin to 9-pin, D-sub female cable	55.00

USB & Parallel versions available for quote

Interfaces to: Rice Lake indicators with a serial port screw terminal connection

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RICE LAKE WEIGHING SYSTEMS

Star® SP512/SP542/SP712/SP742

Dot Matrix Printers



STANDARD FEATURES

- Spill-proof cover
- Single-color highlights
- Power switch cover
- Internal universal power supply
- Serial interface
- Star and ESC/POS emulation
- Black mark sensor
- More than 4 lines per second print speed
- Auto cutter and tear bar versions
- Prints multiple copies (original and two copies)
- High reliability
- Prints graphics

SP712

- Clamshell design for easy paper loading
- Embedded power supply+lor paper)
- Spill-proof & heat-resistant
- Swappable interfaces available
- Wall mount (option)
- External buzzer option

APPROVALS

c UL us LISTED

SPECIFICATIONS SP512/SP542

PRINT METHOD:
9-pin impact dot matrix

PRINT SPEED:
4 lines per second @ 40 columns
8 lines per second @ 16 columns

NUMBER OF COLUMNS:
42 @ 16.9 cpi

PAPER WIDTH:
2.25 in/3 in (selectable)

PAPER THICKNESS:
.002 in– .003 in (0.07–0.10 mm)

COPY CAPABILITIES:
Copies: original and two copies, maximum .007 in (.20 mm)

ROLL DIAMETER:
3.34 in (85 mm)

PAPER ROLL CORE:
.47 in (12 mm) ID, .70 in (18 mm) OD

PAPER LOADING:
Semi-automatic

PAPER SENSORS:
Paper out

CUTTER RELIABILITY:
0.5 million cuts

PRINTER RELIABILITY:
70 million characters

AUTO CUTTER:
SP542: full and partial cut (software controlled)

INTERFACE:
RS-232 serial

BAUD RATES:
4,800, 9,600, 19,200, 38,400

DRIVERS:
Windows® 9x/NT/2000, OPOS, JavaPOS™

EMULATION:
Star Mode, ESC/POS™

CASH DRAWER:
2 drivers, 1 compulsion switch

POWER REQUIRED:
100 to 240 VAC, 50/60 Hz

OVERALL DIMENSIONS:
5.51 in W x 8.85 in D x 6.41 in H (140 mm W x 225 mm)

STORAGE TEMPERATURE:
10% to 90% RH

OPERATING TEMPERATURE:
3°F to 104°F (0°C to 40°C)

APPROVALS:
UL and C-UL listed, TUV

WARRANTY:
Three-year limited warranty on parts
One-year limited warranty on printhead & cutter

Windows is a registered trademark of Microsoft Corporation

SPECIFICATIONS SP712/SP742

PRINT METHOD:
9-pin impact dot matrix

PRINT SPEED:
13 RPM

PAPER WIDTH:
70 & 58 mm (with paper guide)

EMULATION:
Star mode, ESC/POS

POWER:
110 to 230 VAC

MCBF:
22 million lines

CUTTER:
1 million cuts

DIMENSIONS:
W=160 mm, H=152, D=245 mm

CONNECTIVITY:
9-pin serial, 25-pin serial, parallel, USB, ethernet, Wifi

DRIVERS:
2000 XP (L), XP embedded (L), VISTA (G) (32-and 64-bit)

WARRANTY:
Three-year limited warranty

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Star® SP512/SP542/SP712/SP742

Dot Matrix Printers

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
77167	SP512 dot matrix printer, w/tear bar, RS-232 serial interface	5 lb	$325.00
85911	SP512 dot matrix printer w/tear bar, parallel interface	5 lb	325.00
77168	SP542 dot matrix printer, w/auto cutter, RS-232 serial interface	5 lb	400.00
103141	SP712 RS-232, tear bar		350.00
103142	SP742 RS-232, cutter		490.00

Consult factory for models with a parallel interface.

OPTIONS/ACCESSORIES

69921	Ink ribbon (purple) SP500, SP2000, SP200, series	10.00
69916	One-ply paper roll, 3 in W x 3 in Dia. 150 ft roll	5.00
69915	Two-ply paper roll, 3 in W x 3 in Dia. white/canary yellow, 90 ft roll	7.00
72471	Programmers CD-ROM (includes utility programs and manuals)	11.00
103728	Ink ribbon (black), SP700 Series	10.00
Consult	Wall mount bracket	Consult

CABLES

15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable	55.00
15568	25-pin D-sub male to 25-pin D-sub male RS-232 serial interface cable	55.00
72440	25-pin to 9-pin D-sub female cable	55.00
79074	USB cable	20.00

Interfaces to: Rice Lake indicators with a serial port screw terminal connection

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Star® DP8340

Dot Matrix Tape Printer



APPROVALS

STANDARD FEATURES

- Separate 115/230VAC power supply with 12VDC output
- Two-color printing using two-color ribbon
- Cash drawer driver
- One line validation
- Wide paper

SPECIFICATIONS

NUMBER OF PRINT COLUMNS:
40 columns, 12 CPI

PRINT SPEED:
Approximately 2 lines/sec

PRINT DIRECTION:
Bidirectional

LINE SPACING:
1/6in

PAPER FEED METHOD:
Friction Feed or Sprocket-feed

PAPER FEED SPEED:
Approximately 12 lines/sec

CHARACTER SET:
ASCII: 96 characters
International and symbol: 64 characters
Block graphics*: 64 characters

FONT CONFIGURATION:
Ordinary characters: 5 x 9 dots
Block graphics*: 6 x 6 dots

CHARACTER SIZE:
0.09in H x 0.06in W
(2.42mm H x 1.71mm W)

DOT SPACING:
0.01in H x 0.01in W
(0.35mm H x 0.35mm W)

PRINT AREA:
3.31in (84.3mm)

PRINT BUFFER:
Approximately 1.5 KB

SERIAL INTERFACE:
RS-232

POWER SUPPLY UNIT:
115/230VAC, 12VDC output

PAPER TYPE:
Ordinary and carbonless copy paper

PAPER WIDTH:
4.5in (114.3mm)

ROLL DIAMETER:
80mm outer diameter (Max)

PAPER THICKNESS:
Single: 0.002in x 0.003in (0.07mm)
(52.3g/m2) to 0.09mm (64g/m2)
copy capabilities:
One copy plus one original: 0.005in
(max 0.13mm)

PAPER END:
Paper should not be attached
to the core

RIBBON COLOR:
Black and red

RIBBON MATERIAL:
Nylon (#40 denier)

RIBBON SIZE:
0.5in x 20ft (13mm x 6m)

SPOOL:
0.5in, 1.3in dia.
(13mm W, 35mm diameter (two spool)

OPERATING TEMPERATURE:
41°F to 104°F (5°C to 40°C)

OPERATING HUMIDITY:
10% to 80% RH

STORAGE TEMPERATURE:
-4°F to 158°F (–20°C to 70°C)

STORAGE HUMIDITY:
5% to 95% RH, 104°F (+40°C)

HEAD LIFE:
70 million characters

PRINTER RELIABILITY:
5.0 million lines MCBF (except head life)

APPROVALS:
UL listed, CSA approved, TUV

WARRANTY:
Three-year limited warranty on parts
One-year limited warranty on printhead

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
70906	DP8340 dot matrix printer, RS-232 w/friction feed and power supply	10lb	$670.00
70907	DP8340 dot matrix printer, RS-232 w/friction feed, printer only	10lb	640.00
70680	DP8340 dot matrix printer, RS-232 w/paper sprocket, power supply, 115/230VAC	10lb	670.00
70681	DP8340 dot matrix printer, RS-232 w/paper sprocket, printer only	10lb	640.00

OPTIONS/ACCESSORIES

70682	Power supply, 115VAC	129.00
70683	Paper roll sprocket, 4.5in (114mm) W x 3in dia., 140ft roll	10.30
20448	One-ply paper roll, 4.5in (114mm) W x 3in dia., 165ft roll	8.00
42672	Two-ply paper roll, 4.5in (114mm) W x 3in dia., 95ft roll	7.00
71214	One-ply plain paper, 3.25in W x 3in dia., 50 rolls/case	95.00/case
20447	Ribbon cartridge (purple)	7.00

CABLES

72697	RJ-45 to RJ-45 cable	35.00
75594	RJ-45 to 9-pin female cable	55.00

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Star® TSP 847

Receipt Thermal Printer



STANDARD FEATURES

- Direct Thermal
- Small desktop footprint
- Jam-proof patented cutter with full or partial cut
- Wide area printing
- Zoom master drive allows letter-sized documents to be printed in 4.4 format
- Logo store capability

SPECIFICATIONS

PRINT SPEED:
1200 dots per second (150 mm/sec)

PRINT WIDTH:
Max 104 mm

RESOLUTION:
203 dpi

BAR CODES:
Yes

ROLL PAPER:
Paper width - 111.5 mm (4.4 in)
Thickness - 65 - 150
Diameter - 4 in

EMULATION:
Star, DP8340

DRIVERS:
Windows® 9X, 2000, XP, Linux, OPOS, JPOS, Mac OSX (all trademark ™)

OPERATING TEMPERATURE:
5°C - 45°C

OVERALL DIMENSIONS:
180 W x 213 D x 148 H mm

APPROVALS:
ROHS compliant

WARRANTY:
Three-year limited warranty

Star® TSP 847 RX

Secured Prescription Printer



STANDARD FEATURES

- Direct Thermal
- Small desktop footprint
- Jam-proof patented cutter with full or partial cut
- Wide area printing
- Zoom master drive allows letter-sized documents to be printed in 4.4 format
- Logo store capability
- Locking paper chamber
- Lock slot for locking cable harness
- Disabled paper feed button

SPECIFICATIONS

PRINT SPEED:
1200 dots per second (150 mm/sec)

PRINT WIDTH:
Max 104 mm

RESOLUTION:
203 dpi

BAR CODES:
Yes

ROLL PAPER:
Paper width - 111.5 mm (4.4 in)
Thickness - 65 - 150
Diameter -

EMULATION:
Star, DP8340

DRIVERS:
Windows® 9X, 2000, XP, Linux, OPOS, JPOS, Mac OSX (all trademark ™)

OPERATING TEMPERATURE:
5°C - 45°C

OVERALL DIMENSIONS:
180 W x 213 D x 148 H mm

APPROVALS:
ROHS compliant

WARRANTY:
Three-year limited warranty

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Star® TSP 847 RX

Secured Prescription Printer

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
107617	TSP847D-24 line receipt printer (requires power supply)	5 lb	$625.00
107133	TSP847U-24 secured prescription printer (power supply included)	5 lb	970.00

OPTIONS/ACCESSORIES

69903	Power supply, PS-60-24A	98.00
72309	Power supply, 12 VDC with car adaptor	181.00
107618	4.4 in wide thermal paper, 4 in outer diameter	10.50

CABLES

15547	Blunt-end 25 pin D-sub male RS-232	55.00
15568	25-pin D-sub male to 25 pin D-sub male RS-232 serial interface cable	55.00
72440	25 pin male to 9 pin female	55.00
79074	USB cable for prescription printer, 6 ft	20.00

Interfaces to: Rice Lake indicators with a serial port screw terminal connection

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Star® TSP654/TSP743 II

Direct Thermal Printers



TSP654



TSP743

STANDARD FEATURES

- 203 dpi (8 dots/mm) print resolution
- Two-color printing (software enabled)
- Small footprint
- Easy load “drop-in and print” paper loading
- Adjustable paper width
- Logo store utility for easy logo data
- Cash drawer driver
- Cutter
- Easy to change “cartridge-type interface” RS-232 to Parallel
- Swappable communication interface

TSP743:

- Label printing

APPROVALS

c UL us LISTED

SPECIFICATIONS

PRINT SPEED:
TSP654: 4 in (100 mm) per second, 25 or 33 lines per second
TSP743: 7 in (177.8 mm) per second, 60 lines per second at 3 mm per line (180 mm/sec)

PRINT WIDTH:
TSP654: 80 mm paper: 2.83 in (80 mm)
58 mm paper: 2.05 in (52 mm)
TSP743: Standard: 2.83 in (80 mm)
Optional: 2.05 in (52 mm), 3.15 in (80 mm)

LINE SPACING:
3 mm, 4 mm (1/8 in, 1/6 in)

RESOLUTION:
203 dpi (8 dots/mm)

NUMBER OF COLUMNS:
TSP654: 80 mm paper: 24, 48 or optional 64 (ESC/POS)
58 mm paper: 17, 34
or optional 46 (ESC/POS)
TSP743: Standard: 48, 71 (maximum)

BAR CODES:
TSP654: UPC-A/E, JAN/EAN-8/13, Code 39/93/128, Codabar (NW7), ITF
TSP743: UPC-A/E, JAN/EAN-8/13, Code 39/93/128, Codabar (NW7)

PAPER WIDTH:
Adjustable. Standard: 3.15 in (80 mm)
Optional: 2.28 in (58 mm)
TSP743 Optional: 3.25 in (82.5 mm)

PAPER THICKNESS:
TSP654: 0.002 in to 0.003 in (0.065 mm to 0.085 mm)
TSP743: 0.003 in to 0.006 in (0.065 mm to 0.150 mm)

ROLL DIAMETER:
3.5 in (90 mm)

PAPER ROLL CORE:
1/2 in to 1.00 in (12 mm to 25.4 mm)

PAPER PATH:
TSP654: Internal roll
TSP743: Slot in rear or internal roll

PAPER LOADING:
“Drop-in and print” and external rear feed

PAPER SENSORS:
TSP654: Near end, paper out, cover open
TSP743: Near end, paper out, top of form

PRINTER RELIABILITY:
60 million lines MCBF (CRT)

CUTTER RELIABILITY:
TSP654: 0.5 million cuts
TSP743: 2 million cuts

DATA BUFFER:
8K bytes

LOGO STORE:
TSP654: 2M bit
TSP743: 4M bit

EMULATION:
Star line mode, ESC/POS™ (TM-U295/TM290)

CASH DRAWER:
Two drivers and one compulsion sensor

AUTO CUTTER:
Full and partial cut

DRIVERS:
Windows® 95/98/2000/NT 4.0, Windows® legacy printer, OPOS, JavaPOS™, Star Raster Graphics Mode, Linux

OPERATING TEMPERATURE:
41°F to 113°F (5°C to 45°C)

HUMIDITY:
10% to 90% RH (w/out condensation)

OVERALL DIMENSIONS:
TSP654: 5.59 in W x 5.16 in H x 7.83 in D (142 mm W x 131 mm H x 199 mm D)
TSP743: 5.79 in W x 5.83 in H x 8.39 in D (147 mm W x 148 mm H x 213 mm D)

APPROVALS:
UL and C-UL listed, FCC, TUV

WARRANTY:
Three-year limited warranty on parts
One-year limited warranty on printhead & cutter

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Star® TSP654/TSP743 II

Direct Thermal Printers

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
69909	TSP654 Direct Thermal, RS-232 w/power supply, 115/230 VAC	7 lb	$454.00
69910	TSP654 Direct Thermal, RS-232 only, 24 VDC	7 lb	444.00
69907	TSP743 Direct Thermal Transfer, RS-232 w/power supply, 115/230 VAC	8 lb	598.00
69908	TSP743 Direct Thermal Transfer, RS-232 only, 24 VDC	8 lb	588.00
85929	TSP743 Direct Thermal, Parallel without power supply	8 lb	588.00

OPTIONS/ACCESSORIES

69903	Power supply, PS-60-24A	98.00
69917	One-ply thermal paper roll, 3.125 in W x 3.25 in diameter	5.00
107041	MaxStick receipt paper for TSP654 3 1/8 wide 150 ft long adhesive strip	18.75
72309	Power supply, 12 VDC with vehicle cigarette lighter	181.00
71355	Parallel cartridge option	57.00

TSP743

69919	Wall mount bracket	78.00
70598	Label, DTL , 3 in W x 1 in L, 4 in diameter, with black line, timing mark 1600 labels/roll	20.00
70597	Label, DTL , 3 in W x 2 in L, 4 in diameter, with black line, timing mark 900 labels/roll	20.00
72471	Star programmers CD	11.00

CABLES

15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable	55.00
15568	25-pin D-sub male to 25 pin D-sub male RS-232 serial interface cable	55.00
72440	25-pin to 9-pin D-sub female cable	55.00

Interfaces to: Rice Lake indicators with a serial port screw terminal connection

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Star® NP-211/NP-311/NP-2511/NP-3511 Thermal Kiosk Printer



STANDARD FEATURES

NP-211/NP-311
- Tear bar
- Compact footprint
- Semi-auto paper loading

NP-2511/NP-3511
- Lock-free cutter
- Easy operation by openable head
- Operating temp: 14ºF to 140ºF/ -10ºC - 60ºC
- Max paper thickness: 150 micrometer
- Low profile (96.7 mm with roll paper)

SPECIFICATIONS

PAPER WIDTH:
NP-211/NP-2511: 58 mm
NP-311/NP-3511: 80 mm

PRINT METHOD:
Direct Thermal

PAPER ROLL DIAMETER (MAX):
70 mm

PAPER THICKNESS:
NP-3511 65 - 150 µM

PRINT WIDTH:
NP-211: 54 mm
NP-2511: 58/60 (mm)
NP-3511: 65/70/80/82.5 mm

RESOLUTION:
203 dpi (8 dots/mm)

PRINT SPEED:
NP-211: 50 mm/sec
NP-311: 60 mm/sec
NP-2511/NP-3511: 200 mm/sec

INTERFACE:
Serial and USB

BARCODES:
NP-211/NP-3511: UPC-A, UPC-E, EAN (JAN-13) CODE39, ITF, CODEABAR, CODE128

CUTTER:
NP-211/NP-311: Tear bar
NP-2511/NP-3511: Full & partial-cut (command selectable)

POWER SUPPLY:
NP-211: DC 8-13 V
NP-311: DC 7-24 V
NP-2511/NP-3511: DC 24 V

INPUT BUFFER:
10K Bytes

OPERATING VOLTAGE:
8-13 V DC +/-5%

EXTERNAL DIMENSIONS (W X D X L):
NP-211/NP-311: 84 x 115 x 77.5 mm
NP-2511/NP-3511: 115 x 150 x 75 mm

RELIABILITY HEAD WEAR:
50 km

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
102953	NP-211D, 2 in wide, requires power supply	2 lb	$335.00
102954	NP-311D, 3 in wide, requires power supply	2 lb	490.88
103143	NP-2511, 2 in wide, requires power supply	2 lb	650.00
103144	NP-3511, 3 in wide, requires power supply	2 lb	750.00

OPTIONS/ACCESSORIES

102955	Power supply, PS-NP, NP-211, NP-311*	55.00
69903	Power supply, NP-2511, NP-3511*	98.00
107835	Large paper roll holder, NP-3511	100.50

PAPER ROLL

102957	58 mm (2.28 in) thermal, NP-211, NP-2511, 2 3/4 outer diameter	3.25
69917	80 mm (3.125 in) thermal, NP-311, NP-3511, 3 1/4 outer diameter	5.00

*NOTE: Power supply is ordered separately. Not included with printer.

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NEW Zebra® LP/TLP 2824 Plus

Thermal Printer



STANDARD FEATURES

- Print speeds of 4 in/sec (102 mm)
- 203 dpi print resolution (8dots/mm)
- Open ACCESS™ design for easy media loading
- Direct thermal (LP) and (optional) thermal transfer (TLP) printing of bar codes, text and graphics
- Fully enclosed 5.0 in (127 mm) media compartment
- Double-walled ABS case construction
- EPL and ZPL® programming language, co-resident
- 32-bit RISC processor
- 8 MB SDRAM, 4 MB Flash memory
- Zebra E_3 printhead energy control
- Auto-calibration of media
- Five resident expandable EPL2® fonts
- Auto-switching 100V and 240V power supply
- Linear and 2-D bar code symbologies
- Transmissive and reflective media sensing
- Head-up sensor
- Tear-off mode
- Certified Microsoft® Windows® drivers

SPECIFICATIONS

RESOLUTION:
203 dpi (8 dpmm)

PRINT LENGTH:
0.005 in (0.125 mm) - 39.0 in (991 mm)

PRINT WIDTH:
0.005 in (0.125 mm) - 2.2 in (56 mm)

PRINT SPEED:
2 to 4 inches per second (ips)

MEDIA SPECIFICATIONS:
Width: 1.00 - 2.36 in (25 to 60 mm)
Label length:
Minimum: 0.38 in (9.7 mm)
1.0 in with optional cutter
Maximum 39 in (991 mm)
Inner Core: 1.0 in
Max roll diameter: 5 in
Sensing: gap, black line, notch
Type: roll-fed, fan fold, die cut or continuous with or without black mark, tag stock

COMMUNICATION SPECIFICATIONS:
Centronics parallel (option)
RS-232 serial and USB
10/100 ethernet (option)

POWER:
100-240 VAC, 50-60 Hz, US power cord

OPERATING TEMPERATURE:
-40°F to 105°F

DIMENSIONS:
4.37 W x 8.5 x 6.75 in

WEIGHT:
2.7 lbs

WARRANTY:
One-year limited warranty

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Zebra® LP/TLP 2824 Plus

Thermal Printer

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
112874	LP2824 Plus Printer, 203 dpi, direct thermal, USB and Serial 120 VAC US power cord	6.0 lb	$395.00
112875	TLP2824 Plus, 203 dpi, direct thermal transfer, USB and Serial, 120 VAC US power cord	6.0 lb	495.00

* Parallel and Ethernet models available by special request

OPTIONS/ACCESSORIES

43900	Label View Pro bar code label software for Windows® parallel key	549.00
38941	Cleaning pens for open printhead printers, 12/box	57.00
38794	Cleaning cards 2 in (W) x 6 in (L), 25/box	50.00

LABEL STOCK/RIBBON

110346	Direct thermal, 1.2 in W x 85 in L, 5 in diameter, 2700/LPR	7.60/roll
110347	Direct thermal, 2.25 in W x 1.25 in L 5 in diameter, 2100/LPR	12.80/roll
40332	Direct thermal, 2.25 in W x 2 in L,5 in diameter, 1445/LPR	13.50/roll
110348	Direct thermal, 2.25 in W x 3 in L, 5 in diameter, 950/LPR	13.50/roll
110349	Direct thermal, 2.25 in W x 4 in L, 5 in diameter, 700/LPR	10.80/roll
65617	Direct thermal, 2.25 in W x 4.25 in L, 5 in diameter, 600/LPR	14.60//roll

CABLES

41276	6 ft serial cable (DB9 male to blunt end)	55.00
79074	USB cable, 6 ft	20.00
64794	DB9 RS-232 cable DB9F to DB9M	55.00

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NEW Zebra® GK Series

Label Printer



STANDARD FEATURES

- Print width: 4.09in
- 5in per second print speed
- 203dpi
- USB or RS-232 interface
- Auto sense EPLZ or ZPL

SPECIFICATIONS

PAPER WIDTH:
0.75in/19mm - 4.25in/108mm

PAPER THICKNESS:
0.003in/0.08mm -0.0075in/0.19mm

PAPER DIAMETER:
5in/127mm outer diameter

PAPER ROLL SHAFT:
1in (standard)

RESOLUTION:
203dpi/8 dots per mm;

MEMORY:
Standard: 4MB flash; 8MB SDRAM

PRINT WIDTH:
4.09in/104mm

BARCODE SYMBOLOGIES:
Bar code ratios: 2:1 (non-rotated) and 3:1
Linear bar codes; Codabar, Code 11 (ZPL), Code 128, Code 39, Code 93, EAN-13, EAN-8, EAN-14 (ZPL), German Post Code (EPL), Industrial 2-of-5 (ZPL), Interleaved 2-of-5, Japanese Postnet (EPL), ISBT-128 (ZPL), Logmars (ZPL), MSI, Plessey, Postnet, GS1 DataBar (RSS-14), Standard 2-of-5 (ZPL), UCC/EAN-128 (EPL),UPC and EAN 2 or 5 digit extensions (ZPL), UPC-A, UPC-A and uPC-E with EAN 2 or 5 digit extensions, UPC-E, and GS1 DataBar (formerly RSS)
Two-Dimensional: Codablock (ZPL), Code 49 (ZPL), Data Matrix, MaxiCode, QR Code, MicroPDF417, Aztec
For EPL and ZPL except where noted

MAXIMUM PRINT LENGTH:
39.0in/990mm

MAXIMUM PRINT SPEED:
GK420: 5in/127mm per second

MEDIA SENSORS:
Standard: fixed reflective and transmissive sensors
Optional: adjustable reflective black line sensor GX models

RIBBON OUTSIDE DIAMETER:
1.36in/35mm

RIBBON STANDARD LENGTH:
244ft/74m

RIBBON RATIO:
1:1 media to roll to ribbon

RIBBON WIDTH:
133in/33.8mm - 43in/ 109.2mm

RIBBON CORE INNER DIAMETER:
0.5in/12.7mm

SERIAL:
DB9

USB:
U1.1, Bidirectional

OPERATING CHARACTERISTICS:
Environmental
Operating temperature: 40°F/4.4°C - 105°F/41°C
Storage temperature: -40°F/-40°C - 140°F/60°C
Operating humidity: 5% to 95 % non-condensing
Storage humidity: 5% to 95 % non-condensing
Electrical
Auto-detectable (PFC compliant) 100-240VAV, 50-60Hz

PHYSICAL CHARACTERISTICS:
Direct thermal
6.75 W x 6 H x 8.25in D
(171 W x 152 H x 210mm D)
Weight: 3lb
Thermal transfer:
7.6 W x 7.5 H x 10in D
(193 W x 191 H x 254mm D)
Weight: 5lb

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Zebra® GK Series

Label Printer

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
107309	GK420d, direct thermal, 110/240 VAC	10 lb	$595.00
107321	GK420t, thermal transfer, 110/240 VAC	10 lb	695.00

OPTIONS/ACCESSORIES

43900	LabelView Pro barcode software for Windows® parallel key	549.00
93181	Film, printhead, cleaning 4 in wide, 3 per box	18.00
35664	Cleaning cards, pre-saturated, 4 in W x 6 in L, 25/box	30.00

LABEL STOCK/RIBBON

40332	Direct thermal, 2.25 in W x 2 in L 5 in diameter, 1445/roll	13.50/roll
53251	Direct thermal, 4 in W x 3 in L 5 in diameter, 930/roll	19.50/roll
40331	Direct thermal, 4 in W x 4 in L,5 in diameter, 745/roll	22.50/roll
37345	Direct thermal, 4 in W x 6 in L, 5 in diameter, 450/roll	12.50/roll
47761	Direct thermal, 2.5 in W x 121 ft L, continuous12 rolls/case	66.00/case
53261	Thermal transfer, 4 in W x 3 in L, 5 in diameter, 930/roll	16.70//roll
75895	Ribbon (black), 4.3 in wax/resin	7.90/roll
81212	Ribbon (black) 2.5 in wax	3.90/roll

CABLES

37526	6 ft serial cable (DB9 male - DB25 female)	35.00
37528	6 ft serial cable (DB9 male - DB9 female)	35.00
37527	6 ft parallel cable	35.00
41276	6 ft serial cable (DB9 male - blunt end) Interfaces to UMC444, UMC555, UMC 600, IQ700, IQ plus® 310A, IQ plus 355, IQ plus 390-DC, IQ plus 510, IQ plus 590-DC, IQ plus 710, IQ plus 800, and IQ plus 810, 520 and 920i®	55.00
79074	USB cable 6 ft	20.00
64661	5 ft serial cable (DB9 male - 8 pin DIN) Interfaces to DC-190	55.00
64660	5 ft serial cable (DB9 male -DB9 male with handshaking)	55.00

PRINTHEAD

111091	Printhead, 203 dpi, GK direct thermal only	200.00

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Zebra® RW 420/RW 220

Thermal Portable Printer



RW 220



RW 420



RW 420 Vehicle Mount



Ram Mount Kit

STANDARD FEATURES

- Print method: direct thermal
- Construction: impact-modified polycarbonate with fused oil-and-abrasion-resistant rubber overmold (six-foot drop protection)
- Smart battery management (monitors battery for longer life and performance)
- 4 button angled LCD (standard)
- Resistant scalable fonts
- Media sensors: bar, gap
- Advanced 32 bit architecture for high-speed processing
- Standard serial and USB interfaces
- Programming language: native CPCL, ZPL, EPL and XML support (standard)
- Auto-detect firmware load
- Print speed 3 ips

OPTIONS

- Magnetic stripe reader and EMVTM level one certified smart card reader
- Lithium ion fast AC charger
- Lithium ion quad charger
- Lithium ion DC charger with cigarette lighter adapter
- Fanfold bin
- Vehicle cradle for docking and charging
- Ram mount kit
- Shoulder strap/hand strap
- Environmental soft case
- Fanfold media support
- Wireless security support (ie. 802.11i, VNP, WPA or WPA2)

SPECIFICATIONS

PRINTER SPECIFICATIONS:
Resolution: 203 dpi (8 dots/mm)
Memory: 8 MB Flash; 16 MB DRAM
Print width: 4.09 in (104 mm) maximum
Print speed: 3 in (76 mm) sec

MEDIA CHARACTERISTICS:
Maximum label and liner width
RW 420 4.12 in/105 mm
RW 220 2.37 in/60 mm
Minimum label and liner width:
RW 420 2 in/51 mm
RW 220 1 in/25 mm
Maximum roll diameter:
2.25 in (57 mm)
Core diameter:
75 in (19 mm) or 1.38 in (34.9 mm

MEDIA TYPE:
Receipt, tag, gap, continuous receipt

OPERATING CHARACTERISTICS:
Temperature -40°F to 1310°F
Storage temperature -220°F to 1490°F
Operating/storage humidity - 10-90% non-condensing

ELECTRICAL:
External charger options
Shock mounted internal components
Cable connection RS-232 RJ-45 10 pin
Selectable baud rate 9600 to 115.2 kbps
Xon / Xoff hardware flow control
USB full speed support

AGENCY APPROVAL:
CSA, CE Compliance Class B, FCC part 15, Class B

BATTERY:
Lithium-Ion 4.0Ah, 7.4V

PHYSICAL CONSIDERATIONS:
Width: 6.3 in
Height: 6.9 in
Depth: 3.0 in
Weight: 2.0 lb
Orientation: center

PROGRAMMING LANGUAGES:
CDCL, ZPL, EPL, EPL2, XML

BAR CODES / SYMBOLOGIES
Linear, Code 39, Code 93, UCC/EAN-128, Code 128, UPC-E, UPC-A, EAN-8, EAN-13 EAN-14, UPC and EAN 2 or 5 digit extensions Plessey, FIM, Postnet, Interleaved 2 of 5 MSI, Codebar, PDF417, Data Matrix MaxiCode, RSS, QR Code

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Zebra® RW 420/RW 220

Thermal Portable Printer

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
PRINTER			
105143	RW 220, USB serial, 2 in wide, battery	5 lb	$700.00
105144	RW 420, USB serial, 4 in wide, battery	5 lb	975.00
OPTIONS			
105146	RW 420 Vehicle cradle with built-in DC/DC 9 -30 VDC charger and open ended cable		375.00
105145	Ram mount kit and base plate		225.00
105147	RW 220 Vehicle cradle with built-in Li-Ion DC/DC 12 VDC		170.00
105148	RW 220 Vehicle cradle with built-in Li-Ion DC/DC 9 -30 VDC		280.00
105149	RW 220 Vehicle cradle with built-in DC/DC 30 - 60 VDC		400.00
105150	Lithium-Ion fast charger (charging single battery outside printer)		115.00
111252	Lithium-Ion battery, AK18026-002, RW 220		105.00
107163	Lithium-Ion battery AK17463-005, RW 420		135.00
105151	Serial, RJ-45 interlocking PC cable		40.00
106442	RJ-45 blunt end cable to Rice Lake indicators		55.00
MEDIA			
105565	4 in receipt paper, RW 420 79 ft rolls (36 per case)		103.00/case
105566	2 in receipt paper, RW 220 79 ft rolls (36 per case)		54.00/case
110463	2 in x 3 in label, RW 220 or RW 420, 125 labels/roll, 36 per case		100.00/case

Labels available by special order

Forklift Example	
Printer model -	RW420 or 220
Ram mount kit	105145
Power supply	105148 (RW420)
	105147
	105148
	105149 (RW220)
Serial cable	105151 (for setup with PC)
Cable to indicator	106442
Paper	

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Zebra® S4M™

Direct Thermal and/or Thermal Transfer Industrial Label Printer



STANDARD FEATURES

- 32-bit dual processors for faster throughput
- Metal enclosure w/clear media window
- 4 MB flash memory (2 MB user available)
- SRAM memory
- Flexible media support
- EPL2 programming language
- Transmissive and reflective sensing sensors
- LCD control panel-back lit 2 line

OPTIONS

- Thermal transfer
- Peel-front mounted, no take-up spindle
- Time and Date

APPROVALS

UL LISTED CE

SPECIFICATIONS

RESOLUTION:
203 dpi (8 dots/mm)

MAXIMUM PRINT SPEED:
6 in (152 mm/second)

LABEL AND LINER WIDTH:
0.75 in (19 mm) to 4.50 in (114 mm)

RIBBON WIDTH:
1.57 in (40 mm) to 4.33 in (110 mm)

MAXIMUM PRINT AREA:
Width: 4.09 in (104 mm)
Length with 203 dpi: 39 in (991 mm)

MAXIMUM MEDIA ROLL SIZE:
8.0 in (203 mm) O.D. on a 3 in (76 mm) I.D. core: 2 in (51 mm) O.D. on a 1 in (25.4 mm) I.D. core

MEDIA THICKNESS (LABEL & LINER):
0.003 in (0.076 mm) to 0.010 in (0.25 mm)

MEDIA TYPES:
Roll-feed, die-cut, continuous, tags

RIBBONS:
Max. Roll Size: 3.2 (81 mm) O.D. on a 1.0 in (25.4 mm) I.D. core
Standard Lengths: 14.76 in (450 m)

DIMENSIONS:
Width: 10.7 in (272 mm)
Depth: 18.8 in (478 mm)
Height: 11.6 in (295 mm)

WEIGHT:
27.2 lb (12.3 kg)

RIBBON SETUP:
Ribbon wound link side out; Ribbon is recommended to be at least as wide as media.

BAR CODES:
Code 37, Extended Code 39, Code 128 with subsets B and C, UCC/EAN-128, Code 93, UPC-A, UPC-E, German Postal Code, UPC Container code, EAN-8, EAN-13, Standard 2 of 5, UPC and EAn 2 or 5 digit extensions, Postnet

2-DIMENSIONAL CODES:
Maxi Code, PDF417, QR Code: (Asian Only) AZTCC

MEMORY:
Standard: 1 MB Flash; 512 K SPRAM

PROGRAMMING LANGUAGE:
ASCII EPL2 programming language (Page Mode)

ELECTRICAL:
Universal auto-ranging Power supply 90-265 VAC, 48-62 Hz

COMMUNICATION INTERFACE CAPABILITIES:
Serial RS-232 (DB9)
Flow control: Xon/Xoff, hardware handshaking 4.8 to 57.6 K bits/second
36-Pin Parallel (Centronics)
Standard USB Version 1.1

OPERATING TEMPERATURE:
Thermal Transfer: 40°F to 104°F (5°C to 40°C)
Direct Thermal: 32°F to 104°F (0°C to 40°C)

APPROVALS:
UL listed, CE marked, FCC

WARRANTY:
One-year limited warranty on parts, 90 days or 500,000 linear inches on printhead

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Zebra® S4M™ Direct Thermal and/or Thermal Transfer Industrial Label Printer

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
93216	S4M Printer, Direct Thermal 203 dpi, EPL	33 lb	$1.145.00
93217	S4M Printer, Direct/Thermal Transfer 203 dpi, EPL	33 lb	1,245.00
93218	S4M, Direct, peel, time and date 203 dpi, EPL	33 lb	1,420.00
93219	S4M, Direct/Thermal Transfer, peel, time and date 203 dpi, EPL	33 lb	1,520.00

OPTIONS/ACCESSORIES

93232	Time and date	149.00
93220	Peel kit, field installable	200.00
93221	Ethernet, 10/100, field installable (disable parallel port)	399.00
93222	Ethernet, wireless field installable (disable parallel port)	599.00
43900	LabelView Pro barcode software for Windows®, parallel key	549.00
93062	LabelView Pro, USB key	549.00

Consult factory for other available options

LABEL STOCK/RIBBON

21776	Direct Thermal, 3 in x 3 in, 8 in diameter, 2000/roll	36.50/roll
25973	Direct Thermal, 4 in x 6 in, 6 in diameter, 460/roll	15.70/roll
25975	Direct Thermal, 4.25 in x 2.5 in, 6 in diameter, 1095/roll	22.40/roll
21785	Thermal Transfer, 2 in x 1 in, 8 in diameter, 5500/roll	12.20/roll
21788	Thermal Transfer, 4 in x 6 in, 8 in diameter, 1000/roll	16.80/roll
20573	Thermal Transfer, 4 in x 6.5 in, 8 in diameter, 900/roll	17.90/roll
40785	Ribbon, thermal transfer, 2.5 in	13.65/roll
40787	Ribbon, thermal transfer, 4.3 in	23.50/roll

CABLES

41276	9-pin to blunt end	55.00

Interfaces to: UMC444, UMC555, UMC600, IQ700, IQ plus® 310A, IQ plus 355, IQ plus 390-DC, IQ plus 510, IQ plus 590-DC, IQ plus 710, IQ plus 800, and IQ plus 810, 520 and 920i®

37526	6 ft serial cable (DB9 male to DB25 female)	35.00
37528	6 ft serial cable (DB9M to DB9F)	35.00
37527	6 ft parallel cable	35.00
64661	5 ft serial cable (DB9 male to 8-pin DIN)	55.00
64660	5 ft serial cable (DB9 male to DB9 male with handshaking	55.00

Interfaces to DC-190, DC-100, DC-200/DC-300Interfaces to DC-190

Consult	Custom 20 mA/RS-232 serial interface cable	100.00

Custom cables are designed to interface with your specific equipment. Please specify equipment model number and connector type.

Standard cable length is 5 feet. $2.00 charge for each additional foot.

REPLACEMENT PARTS

95375	Printhead, S4M 203 dpi	695.00

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Datalogic QuickScan® QS6500

Hand-held Laser Scanner



APPROVALS

c UL us LISTED

STANDARD FEATURES

- Aggressive linear imaging performance with up to 15in/38cm reading on 100% UPC labels
- Supports RSS and PDF-417 for future industry compatibility
- 2008 Sunrise compliant
- Multi-interface solution supports all popular host terminal interfaces
- Flash memory for easy software upgrades
- Built tough to withstand common POS abuse for many years
- Attractive, yet durable design to complement your point-of-sale

SPECIFICATIONS

DIMENSIONS:
Height: 6.0in/16.5cm
Width: 2.9in/7.4cm
Length: 3.9in/9.9cm

WEIGHT:
6.4oz/181.4g

TEMPERATURE RATING:
Operating: 32˚F to 122˚F/0˚C to 50˚C
Storage: -40˚F to 158˚F/-40˚C to 70˚C

HUMIDITY:
Operating: 5 to 95% NC
Storage/Transport: 5 to 95% NC

SHOCK TOLERANCE:
Withstands 50 drops from 5ft/15m to concrete

WATER & DUST:
IEC529 Rating IP52DW

APPROVALS:
C-UL listed

LIGHT SOURCE:
630nm Visible red diode

WARRANTY:
Five-year limited warranty

DEPTH-OF-FIELD
Nominal IEC Class II version, contrast & lighting dependent

Label Density	Range—ID Models & PDF Models	
5mils	2.0-5.0in/5.1-12.7cm	2.0-4.5in/5-11.4cm
7.5mils	1.0-7.0in/2.5-17.8cm	10-6.0in/2.5-16.2cm
10mils	0-12in/0-30.5cm	0-10.5in/0-26.7cm
13mils	0-15in/0 to 38cm	0-13in/0-33cm
20mils	Up to 24in/61.0cm	Up to 35in/89cm
40mils	Up to 40in/101.6cm	Up to 35in/89cm

PART #	MODEL	EST. SHIP WEIGHT	PRICE
102967	QS6500 RS232 scanner-DB9; 12ft cable, U.S. power supply, CD	4lb	$495.00
102968	QS6500 Keyboard wedge, 6M DIN, PsS, POT-E/P 12ft cable, CD	4lb	495.00

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Datalogic QuickScan® QS6000

Hand-held Laser Scanner



APPROVALS

c UL us LISTED

STANDARD FEATURES

- Fully functional, compact
- Bar code programmable
- Low power consumption
- Autosense™ mode for hands-free operation with a fixed stand
- Tough, non-slip, rubber-like shield cushions scanner when dropped and protects scan window from scratching
- Coiled cable with strain relief and end cap is made from rugged tear-resistant polyurethane and retains memory after repeated flexing and stretching

SPECIFICATIONS

LIGHT SOURCE:
680nm Visible Laser Diode (VLD)

DECODE CAPABILITIES:
UPC-A, UPC-E, UPC 2 and 5 digit add ons, EAN-8, EAN-13, EAN 2 and 5 digit add ons, JAN-8, JAN-13, JAN 2 and 5 digit add ons, Code 128, EAN 128, Code 128 Coupons (linear), Code 39, Code 93, Interleaved 2 of 5, Codabar, MSI/Plessey

COMMUNICATIONS:
RS-232 and wand emulation; keyboard wedge

OPERATING TEMPERATURE:
32°F to 122°F (0°C to 50°C)

HUMIDITY:
5% to 95% non-condensing

SHOCK TOLERANCE:
Withstands multiple 5ft drops onto concrete; More than 100ft drops onto countertop

WATER & DUST:
Resistant, IEC529 rating IP40DW

APPROVALS:
UL & C-UL listed, TUV

WARRANTY:
Limited lifetime coverage against wear and tear for the scan motor, consisting of the flexure, mirror assembly, frame and electromagnets. This is in addition to standard 24 month warranty on the entire unit. Warranties apply to the original owner and do not cover repair due to misuse or physical abuse.

DEPTH-OF-FIELD
Nominal IEC Class II version, contrast & lighting dependent

Density	Range	
5mils	0.5in to 3in	(12.7mm to 76.2mm)
7.5mils	0.5in to 4.5in	(12.7mm to 114.3mm)
10mils	0.5in to 8in	(12.7mm to 203.2mm)
13mils	0.5in to 11in	(12.7mm to 279.4mm)
20mils	0.5in to 13in	(12.7mm to 330.2mm)

PART #	MODEL	EST. SHIP WEIGHT	PRICE
43851	QS6000, keyboard wedge, cable & adapter, PS2/AT connectors	3lb	$695.00
78843	QS6000-2100, keyboard wedge, RS-232 (requires cable)	3lb	595.00
65619	QS6000, RS-232 w/ 8-pin DIN	3lb	695.00

OPTIONS/ACCESSORIES

43854	Programming guide	49.00
82281	AC/DC power supply, 115VAC	30.00
81195	Stand	75.00

CABLES

75090	12ft 9-pin, RS-232 w/ power input	50.00
63558	8ft 25-pin D-sub, RS-232	70.00
75090	8ft 9-pin, RS-232 w/ power input	50.00
43860	Keyboard wedge Y-cable, XT/AT and PS-2	55.00
89162	7ft 8-pin DIN, RS-232 cable	135.00
43859	Keyboard wedge Y-cable for AT/XT-5 Pin	115.00

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NEW Datalogic QuickScan® QD2100 Linear Imager Hand-held Scanner



STANDARD FEATURES

- Datalogic Green Spot for good read feedback
- Ergonomic “aim and shoot” design
- Reliable and durable, providing long lasting performance

SPECIFICATIONS

LIGHT SOURCE:
Red LED 617 mm

DECODE CAPABILITIES:
UPC A, E/EAN 8, 13/JAN 8, 13 (including add-ons P2/P5, Code128), Code 128, Code 93, Pharmacode 39, Code 39, Codabar, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, RSS 14, RSS-14 Stacked, RSS Expanded, RSS Limited, MSI/Plessey, UK/Plessey, Telepen, Code 16K, Code 11, PDF417 w/audio assist

DIMENSIONS:
6.7 x 2.8 x 2.6 in
(17.0 x 7.1 x 6.6 cm)

WEIGHT:
121.9P-52g/4.3 oz

READ RATE:
270 reads/sec

COMMUNICATIONS:
RS-232, DB9 female connector
USB
Keyboard wedge
Wand multi-interface

OPERATING TEMPERATURE:
32°F to 122°F (0°C to 50°C)

HUMIDITY:
5% to 95% non-condensing

SHOCK TOLERANCE:
Withstands repeated drops onto concrete from 5 ft (1.5 m)

WATER & DUST:
IP42

DEPTH-OF-FIELD:
10 mils - .3 in - 15 in

WARRANTY:
Five-year limited warranty

DEPTH-OF-FIELD
Printing resolution, contrast, and ambient light dependent

Density	Range	
4 mils	0.0 in to 4.3 in	(2.0 to 11 cm)
5mils	0.6 in to 6.0 in	(1.5 to 15.0 cm)
10 mils	0.3 in to 15 in	(0.8 to 38.0 cm)
20 mils	1 in to 26 in	(2.5 to 65 cm)

PART #	MODEL	EST. SHIP WEIGHT	PRICE
109596	QuickScan, QD2100, RS-232 cable and stand	4 lb	$285.00
109597	QuickScan, QD2100, USB cable	4 lb	258.00
109598	QuickScan, QD2100, keyboard wedge cable	4 lb	258.00

OPTIONS/ACCESSORIES

109599	Power supply, desktop 5V, 12 watt	51.00
112447	RS-232 cable	50.00

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NEW Datalogic PowerScan® PD7100 Series



STANDARD FEATURES

- IP65 sealing rating
- Durable - tested to 50 drops of 2m/6.6ft
- 25KV ESD protection
- Green spot - good read feedback
- Aladdin software for configuration

SPECIFICATIONS

DIMENSIONS:
20.3 x 7.6 x 11.4cm
8.0 x 3.0 x 4.5in

WEIGHT:
280.0g/9.9oz

DISPLAY:
LED

OPERATING TEMPERATURE:
-22°F - 122°F /-30°C - 50°C

STORAGE TEMPERATURE:
-22°F - 122°F /-40°C - 70°C

HUMIDITY:
5% to 95% non-condensing

LIGHT SOURCE:
Aiming 630 - 680mm VLD

COMMUNICATIONS:
Keyboard wedge, USB or RS-232

DROP RESISTANCE:
2m/6.6ft

WARRANTY:
Three-year limited warranty

PART#	DESCRIPTION	EST. SHIP WEIGHT	PRICE
108215	Scanner, PD 7130 YB multi-interface, requires cable	4lb	$550.00
108216	Scanner kit, PD 7130 1/BK2 scanner and RS 232 cable	4lb	620.00

OPTIONS/ACCESSORIES

114372	Kit, universal mount	19.50
108217	RS-232 cable, CAB-434	70.00
108218	USB cable, CAB-439	70.00
108219	Keyboard wedge cable, CAB-437	70.00
108220	Power supply, desktop 5 volt, 12 watt	45.00
41276	9-pin blunt end cable	55.00
114372	Universal mount kit	19.50

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Datalogic PowerScan® RF 8000 Series



STANDARD FEATURES

- IP65 rating
- Wireless operation
- Operates up to 10 hours on a single charge
- Scanner and base station are IP64
- Green spot - good read feedback
- Polycarbonate molded with rubber
- Multi-point operation allows for multiple scanner communications to a single base station

Note: Fork-lift conversion kit available special order 18-36V or 48-72V

SPECIFICATIONS

DIMENSIONS:
Scanner: 8.4in x 4.5in x 2.8in (212mm x 109mm x 71mm)
Base Station: 10.5in x 3.5in x 2.5in (266.7mm x 88.9mm x 63.5mm) (width is 4.2in/106.68mm including mounting knobs.)

WEIGHT:
Scanner: 13.9oz (395g)
Base Station: 16oz (454g)

DISPLAY:
LCD: 4 lines x 16 characters

LIGHT SOURCE:
VLD between 630-380nm

BASE STATION:
US: 110V±10%, 60Hz

COMMUNICATIONS:
Host: RS232 with DB9 S, P/S and 12ft cable.
KBW (keyboard wedge) with P/S and 6M Din, coiled cable 12ft.
USB, 12ft coiled cable
Frequency range:
(varies by country) 915mHz

OPERATING TEMPERATURE:
-4˚F to 122˚F (-20˚C to 50˚C)

STORAGE TEMPERATURE:
-4˚F - 158˚F (-20˚C to 70˚C)

HUMIDITY:
90% non-condensing

DROP RESISTANCE:
2m

BATTERY TYPE:
2150 Li-Ion battery pack

ELECTRICAL:
Complies to C-CSA-US (60950 Canada and USA)

PART#	DESCRIPTION	EST. SHIP WEIGHT	PRICE
104967	PowerScan RF Scanner with battery, SR, 915MHz for RS-232/ keyboard wedge/wand emulation interfaces	4lb	$1,050.00

OPTIONS/ACCESSORIES

104968	PowerScan RF Base Station, 915MHz for RS-232/ keyboard wedge/wand	5lb	420.00
82281	PowerScan Quick Scan US, AC power adapter	3lb	30.00
104969	Cable, Wedge, Y, 6-pin mini DIN, 5-pin D/N, universal adapter cable		50.00
108217	Cable, RS-232, 9-pin D-sub, 12ft		70.00

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Symbol® MiniScan 3204



STANDARD FEATURES

- Used on CLS forklift scale
- 920 custom applications
- High speed omnidirectional scan pattern
- Generates four different scan patterns: omnidirectional, semi-omnidirectional, raster and single line scan patterns
- Features rugged, durable housing with exit window, integrated beeper, LEDs, decoder
- Sealed to IP54 standards; protects against water and dust
- Reads 1D and 2D symbols
- Easy to program simple serial interface (SSI)

SPECIFICATIONS

DIMENSIONS:
1.86 in. H x 2.2 in. W x 3.43 in. L

WEIGHT:
4.4 oz/125 gm

LIGHT SOURCE:
Visible laser diode 650 nm

SCAN RATE:
640 scans/sec (nominal)

SCAN ANGLE:
Horizontal: Cyclone 34˚; Raster 34˚
Vertical: Cyclone 34˚; Raster 12.5˚

SCAN PATTERNS:
Linear, Smart Raster and Omnidirectional

SYMBOLOGIES:
PDF417, MicroPDF, UPC/EAN, Code 39, 1 2 of 5, Code 128, Codabar, MSI Plessey, RSS and Composite Codes

PROGRAMMABLE PARAMETERS:
Laser On Time, Aim Duration, Power Mode, Trigger Mode, Bidirectional Redundancy, Symbology types/lengths, Data formatting, Serial Parameters, Beeper Tone, Scan Angle, Pattern Controls

INTERFACE:
RS-232

SHOCK:
2000 G

DROP SPECIFICATION:
Unit functions normally after multiple 30 in/76 cm drops to concrete

LASER CLASSIFICATION:
CDRH Class II, IEC Class 2

ELECTRICAL SAFETY:
Certified to UL1950, CA C22-2 NO950 ENG60950/IEC950

EMI/RFI:
FCC Part 15 Class B, ICES-003 Class B European Union EMC Directive, Australian SMA

AMBIENT LIGHT:
Artificial: 450 ft. candles (4,844 LUX)
Sunlight: 8000 ft. candles (86,112 LUX) with correct enclosure

OPERATING TEMPERATURE:
-22˚F to 122˚F/-30˚C to 50˚C

STORAGE TEMPERATURE:
-40˚F to 158˚F/-40˚C to 70˚C

ENVIRONMENTAL SEALING:
IP54

HUMIDITY:
5% to 95% noncondensing

POWER:
MS 3204
Input Voltage: 5.0 VDC ±10%
Input Current: 250 mA typical
Standby Current: 30 mA typical

OPTIONS/ACCESSORIES

PART#	DESCRIPTION	EST. SHIP WEIGHT	PRICE
96925	MiniScan MS-3204	4 lb	$425.00
97479	Cable assembly, DB9F to blunt end		55.00
101110	Manual		10.00

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TekLynx® LabelView™ Pro/Gold

Bar Code Label Software



STANDARD FEATURES

LABELVIEW PRO:

- True Type fonts easily added
- Supports color PCX, BMP, TIFF, JPEG, GIF and TGA graphical formats
- Generate serial numbers
- Date and time stamps
- Paragraph feature
- Database merge
- Print over 25 bar codes for virtually any industry
- Password security
- Use data from any ODBC data format including Access™, Excel™, Lotus™, and ASCII
- Open label preview
- Preview pictures
- Database editor
- Batch printing

LabelView Gold has all the above features, plus:

- Third-party integration using DDE, Command file, Datawatch and ComWatch
- Audit reporting
- Scale can be connected through Command File

SPECIFICATIONS

SYSTEM REQUIREMENTS:
IBM compatible, eight megabytes of RAM 10 megabytes of hard disk space, one parallel and serial port

For Windows 98SE, Me, NT 4.0, 2000, XP or Windows Service 2003.

GRAPHICS:
Supports color, PCX, BMP, TIFF, JPEG, GIF & TGA graphical formats. Scale to any size, rotate in four directions

DATABASE MERGE:
Batch printing; print all records in a database, a range of records, or a single record; sort on any field in a database, database picture, and/or paragraph files

DATABASE MANAGER:
Create/modify databases, (field types) (character, numeric, date, logical, memo) search for records, index on any field, import/export to ASCII or DBF, DBASE III, IV compatible, edit ODBC Data

TEXT:
Print True Type fonts on any supported printer, rotate in four directions, reverse printing (white on black), increment/decrement, justification (left, right, center) move, copy, delete groups of fields, non-printing fields.
Multiple data sources: fixed, print-time entry, database merge, serial numbers, date stamp, sell-by-date, time stamp, linked/copied from other fields

BAR CODES:
Set bar width ratio, rotate in four directions.
Multiple data sources: fixed, print-time entry, database merge, serial numbers, linked/copied from other fields

LabelView supports any laser and dot-matrix Windows® printer driver.

Windows is a registered trademark of Microsoft Corporation

SYMBOLOGIES:
UPC-A
UPC-E, UPC +2 and +5
EAN-8, EAN-13
Code 39, Code 39 mod 43
Code 93 Codabar
Int. 2 of 5, Int. 2 of 5 mod 10
Code 128-A, B, C
UCC 128, EAN 128
Postnet

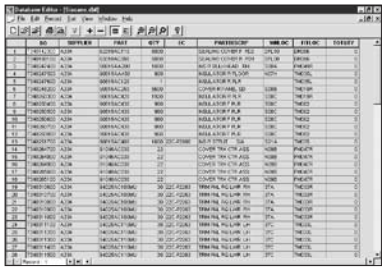
2-D SYMBOLOGIES:
PDF 417
Maxicode
Data-Matrix

PASSWORDS:
User names, user passwords
Rights: design labels, print labels, modify serial numbers, use database editor, use text editor, modify label inventory

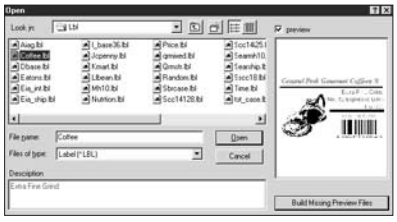
LABEL INVENTORY CONTROL:
Tracks quantity on-hand
Definable re-order points
Low stock level warning messages

LANGUAGES:
English, French, Spanish, Italian, German, Dutch, Chinese, Korean, and Portuguese.
User translatable.

SUPPORTED PRINTERS:
Drivers to support most label printers and any printer with a Windows driver.
See Datamax and Eltron label printers.



Database editor



Open label preview



Compliance label sample

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TekLynx® LabelView™ Pro/Gold

Bar Code Label Software

LABELVIEW PRO

PART#	DESCRIPTION	PRICE
43900	LabelView Pro for Windows®, parallel security key	$549.00
93062	LabelView Pro for Windows, USB security key	549.00
97370	LabelView Pro for Windows, keyless activation	499.00

LABELVIEW GOLD

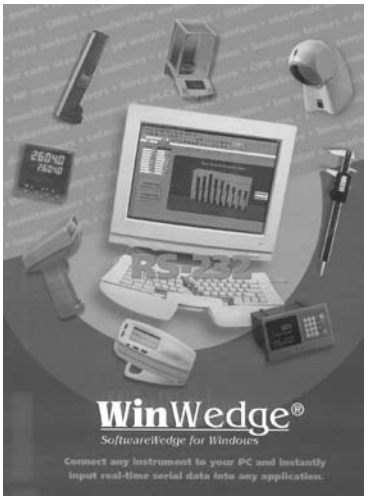
PART#	DESCRIPTION	PRICE
43905	LabelView Gold for Windows, parallel security key	$1,049.00
92040	LabelView Gold for Windows, USB security key	1,049.00
97371	LabelView Gold for Windows, keyless activation	999.00

Windows is a registered trademark of Microsoft Corporation

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WinWedge® TAL Software

Bar Code Label Software



STANDARD FEATURES

- Input scale or instrument data directly into Excel™, Access™, statistical software, LIMS, MMIs, any Windows® application
- Transfers RS-232 data quickly, accurately and formatted to your exact specifications
- Powerful DDE options for collecting data from multiple devices simultaneously
- Extremely easy to set-up and use

32 PRO, TCP/WEDGE ADDITIONAL FEATURES:

- Support for even the most complex devices and serial I/O with advanced data parsing, filtering, formatting and translation
- Support for TCP/IP as well as RS-232 data collection and I/O
- More advanced device control options
- Additional features such as math functions and virtual instrument mode
- Five RS-232 and TCP/IP communications software products provided free of charge

SPECIFICATIONS

SYSTEM REQUIREMENTS:

Any version of Windows®
Any Windows PC
4 MB of RAM
2 MB of hard disk space

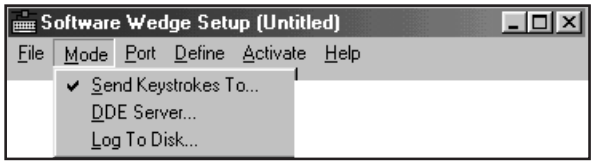
COMMUNICATIONS:

WinWedge can collect data on any serial port (RS-232 or RS-485) and even on multiple ports simultaneously. Also supports full device control.

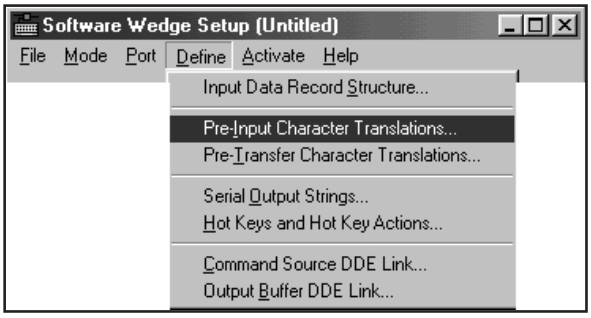
SOFTWARE SUPPORT:

Rice Lake Weighing Systems offers field software support for our software packages. Contact our Service Department for software support. Software support is a chargeable service.

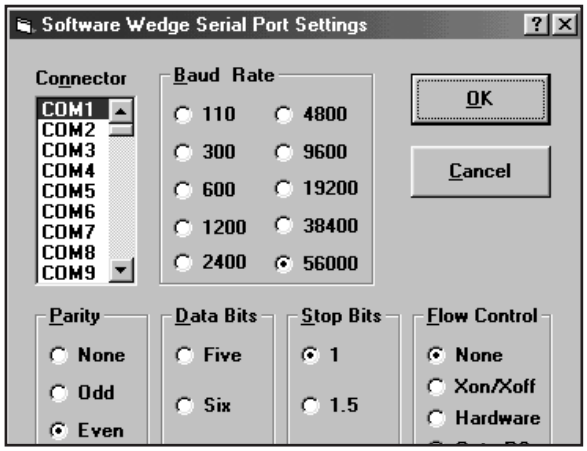
1. SELECT HOW YOU WANT THE DATA COLLECTED:



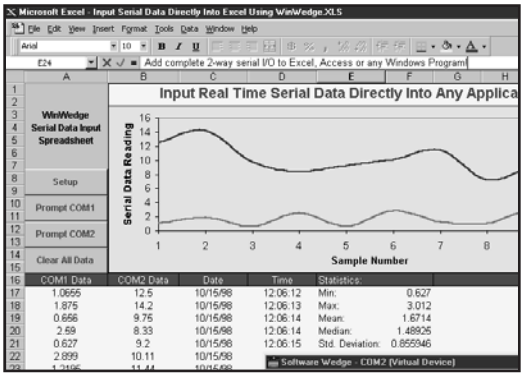
2. CHOOSE THE COMMUNICATION PARAMETERS FOR YOUR SERIAL DEVICE:



3. DEFINE HOW YOU WANT THE SERIAL DATA TO BE PARSED, FILTERED, AND TRANSLATED:



4. ACTIVATE WINWEDGE AND WATCH YOUR SERIAL DATA "POP" INTO YOUR APPLICATION:



PART#	DESCRIPTION	PRICE
75351	WinWedge® TAL software, 32 Std	$325.00
72304	WinWedge® TAL software, 32 Pro, TCP/Wedge	545.00

Windows is a registered trademark of Microsoft Corporation

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DTL

Direct Thermal Label



Not recommended for applications with exposure to sunlight, fluorescent lamps or heat.

APPLICATIONS

- Recommended for paper, corrugated containers, folding cartons with exterior varnish, glass, metal, PVC, polyesters, acetate, cellophane XT polymer, polystyrene and some treated polypropylenes and polyethylenes

STANDARD FEATURES

- Requires a 633 nm Visible Light Diode (VLD) scanning device for bar codes
- All-temperature permanent acrylic adhesive with short repositioning time, withstands some contact with alcohol, blood, grease and water

PART #	WIDTH x LENGTH	ROLL DIA.	CASE QTY.	LABELS PER ROLL	PERF.	PRICE
0.75 IN CORE SIZE						
110463	2.00 in x 3.00 in	2 in	36	125	Yes	$100.00/case
1 IN CORE SIZE						
110346	1.20 in x 0.85 in	5 in	6	2710	Yes	7.60/roll
110350	2.00 in x 1.00 in	5 in	16	2600	Yes	15.05/roll
37354	2.25 in x 1.25 in	2 in	12	260	Yes	4.00/roll
40332	2.25 in x 2.00 in	5 in	12	1445	Yes	13.50/roll
110348	2.25 in x 3.00 in	5 in	16	950	Yes	13.50/roll
110349	2.25 in x 4.00 in	5 in	12	700	Yes	10.80/roll
65617	2.25 in x 4.50 in	5 in	12	600	Yes	14.60/roll
110347	2.25 in x 1.25 in	5 in	16	2100	Yes	12.80/roll
110352	3.00 in x 3.00 in	5 in	8	950	Yes	18.72/roll
110351	3.50 in x 1.00 in	5 in	8	2600	Yes	20.05/roll
110353	4.00 in x 1.00 in	5 in	8	2500	Yes	21.60/roll
110354	4.00 in x 1.50 in	5 in	8	1800	Yes	21.00/roll
110345	4.00 in x 2.00 in	5 in	8	1400	Yes	18.20/roll
110355	4.00 in x 2.50 in	5 in	8	1100	Yes	20.10/roll
53251	4.00 in x 3.00 in	5 in	12	930	Yes	19.50/roll
37348	4.00 in x 3.00 in	2 in	12	110	Yes	5.15/roll
40331	4.00 in x 4.00 in	5 in	8	745	Yes	22.50/roll
110356	4.00 in x 5.00 in	5 in	8	500	Yes	19.00/roll
37345	4.00 in x 6.00 in	5 in	8	450	Yes	12.50/roll
3 IN CORE SIZE						
21776	3.00 in x 3.00 in	8 in	8	2000	Yes	36.50/roll
91303	4.00 in x 2.00 in	8 in	4	2900	Yes	30.70/roll
43937	4.00 in x 4.00 in	8 in	4	1500	Yes	37.85/roll
25935	4.00 in x 6.00 in	8 in	4	1000	*	34.10/roll
25973	4.00 in x 6.00 in	6 in	6	460	Yes	15.70/roll
20594	4.00 in x 6.50 in	8 in	4	900	Yes	31.70/roll
25975	4.25 in x 2.50 in	6 in	6	1090	Yes	22.40/roll
20531	4.50 in x 2.50 in	8 in	4	2500	*	48.50/roll
20597	3.5 in x 3.25 in	10 in	10	3100	No	65.50/roll
STAR LABELS (1 IN CORE SIZE)						
70598	Black line, 3 in x 1 in	4 in	8	1600	No	20.00/roll
70597	Black line, 3 in x 2 in	4 in	8	900	No	20.00/roll
MEDICAL						
107134	1 in x 11 in	5 in	4	350		337.00/case

* Perforated liner available upon request at no charge. Minimum order quantities may apply. NOTE: 8 in and 10 in diameter rolls are not Allegro compatible

Custom label quote form available online

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GreatLabel™ DTL-Plus

High-speed Thermal Transfer Label



Not recommended for applications with exposure to sunlight, fluorescent lamps or heat

STANDARD FEATURES

- Top-coated white matte finish
- Requires a visible light (633nm) scanning device for bar codes
- Withstands some contact with alcohol, blood, grease and water

Great Tag™ DTT

PART#	DESCRIPTION	PRICE
109340	3in wide continuous tag stock, 7.2 mil, 3in core, 8in O.D., 480ft wound out	$37.50
109298	4in wide continuous tag stock, 7.2 mil,3in core, 8in O.D., 480ft wound out	40.00

GreatLabel™ DTL-SYN

Durable Synthetic Label



Not recommended for applications with exposure to sunlight, fluorescent lamps or heat

STANDARD FEATURES

- Top-coated white matte finish
- Requires a visible light (633nm) scanning device for bar codes
- All-temperature permanent acrylic adhesive with short repositioning time
- Withstands some contact with alcohol, blood, grease and water

PART#	DESCRIPTION	PRICE
109448	3.25 x 3.25, 3in core, 8in O.D., 1800 LPR, wound out, roll 208 roll minimum order	$85.40/roll

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TTL-RFID Labels



Not recommended for applications with exposure to sunlight, fluorescent lamps or heat

STANDARD FEATURES

- RFID Technologies including 900MHz and 13.56MHz
- Media faces from lower cost paper to durable films
- TAG form or adhesive backed
- Adhesives for different surfaces
- Thermal transfer

TTL

Thermal Transfer Label



Not recommended for long-term exposure to water or other liquids

STANDARD FEATURES

- All temperature permanent acrylic adhesive
- Withstands some contact with alcohol, oil, grease, blood and water

PART #	WIDTH x LENGTH	ROLL DIA.	CASE QTY.	LABELS PER ROLL	PERF.	PRICE
1IN CORE SIZE						
110357	1.50in x 1.00in	5in	8	2260	Yes	$7.75/roll
110362	2.00in x 1.00in	5in	8	2260	Yes	8.65/roll
110358	2.25in x .750in	5in	6	3320	Yes	10.05/roll
110360	2.25in x 3.00in	5in	6	930	Yes	9.60/roll
110359	2.25in x 1.25in	5in	12	2100	Yes	8.40/roll
110365	4.00in x 2.00in	5in	6	1370	Yes	14.50/roll
53261	4.00in x 3.00in	5in	12	930	Yes	16.70/roll
110366	4.00in x 4.00in	5in	12	700	Yes	11.60/roll
110367	4.00in x 6.00in	5in	12	475	Yes	15.35/roll
3IN CORE SIZE						
21785	2.00in x 1.00in	8in	12	5500	*	12.20/roll
25945	2.00in x 1.00in	6in	12	2550	*	7.25/roll
44347	2.50in x 1.50in	8in	8	3600	No	140.00/case
20671	3.00in x 3.00in	8in	8	2000	*	18.20/roll
48407	3.00in x 5.00in	8in	8	1200	*	15.85/roll
48408	3.50in x 1.00in	8in	4	5500	Yes	85.00/case
21788	4.00in x 6.00in	8in	4	1000	*	16.80/roll
20573	4.00in x 6.50in	8in	4	900	*	17.90/roll
25954	4.25in x 2.50in	6in	6	1090	Yes	96.00/case
20536	4.50in x 2.50in	8in	4	2500	*	28.80/roll
20537	4.50in x 4.50in	8in	4	1400	No	110.00/case
42478	6.00in x 4.00in	8in	4	1500	Yes	98.00/case
42480	8.50in x 6.00in	8in	2	1000	No	105.00/case

* Perforated liner available upon request at no charge.
Minimum order quantities may apply.

NOTE: 8in diameter rolls are not Allegro compatible

Custom label quote form available online

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GreatTag™ TTT

Standard Tag



Not recommended for applications with long-term exposure to water and other liquids

STANDARD FEATURES

- Withstands some contact with alcohol, oil, grease, blood and water
- Suited for alphanumerics, bar codes and graphics
- Top-coated white matte finish
- All-temperature permanent acrylic adhesive with short repositioning time

PART #	WIDTH x LENGTH	ROLL DIA.	CASE QTY.	TAGS/FEET PER ROLL	PERF.	PRICE
3 IN CORE SIZE						
25943	3.00 in x 1.50 in w/hang hole	8 in	8	3500	Yes	$22.80/roll
89190	4 in wide continuous 7.5 pt	8 in		400 ft		38.50/roll
107621	3.25 wide x continuous 7.5 pt, 11 in O.D., 1010 ft 50 roll minimum order			1010 ft		28.40/roll
1 IN CORE SIZE						
35417	Fantastock 4 in x 2.88 in	4 in	8	500		34.50/roll

NOTE: 8 in diameter rolls are not Allegro compatible

GreatRibbon™ SDR

Super-Durable Ribbon



STANDARD FEATURES

- 4.6 micron thermal transfer resin-based ribbon
- Smudge and smear proof
- 1182 ft (360.3 m) long (one ribbon prints two rolls of 8 in (203.2 mm) O.D. label or tag stock)
- Avoid exposure to heat, humidity and sunlight during storage

PART #	WIDTH (IN) x LENGTH (FT)	COLOR	CASE QTY.	DATAMAX COMP.	ZEBRA/ELTRON DESKTOP/COMP.	ZEBRA INDUSTRIAL COMP.	PRICE
1/2 IN CORE SIZE							
37366	2.50 in x 298 ft	No	36	No	800009-002	No	$5.45/roll
37368	4.30 in x 298 ft	No	36	No	800009-004	No	9.05/roll
92633	4.33 in x 360 ft	No	24	226757	No	No	13.15/roll
1 IN CORE SIZE							
21772	4.00 in x 1182 ft	Yes	24	221716	No	No	845.00/case
52343	4.30 in x 1476 ft	No	6	No	5095BK11045	Yes	84.00/roll

Scannable colors include: Blue, Red, White, Gold

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MaxWax™ GPR

General-Purpose Ribbon



STANDARD FEATURES

- 4.6 micron thermal transfer wax/resin ribbon
- Smudge and scratch resistant
- 1182 ft (360.3 m) long (one ribbon prints two rolls of 8 in (203.2 mm) O.D. label or tag stock)
- Avoid exposure to heat, humidity and sunlight during storage

PART #	WIDTH (IN) x LENGTH (FT)	COLOR	DATAMAX COMP.	ZEBRA/ELTRON COMP.	ZEBRA INDUSTRIAL COMP.	CASE QTY	PRICE
1/2IN CORE SIZE							
81212*	2.50 in x 244 ft	No	Z28GPRM064074	8000130-002	No	12	$3.90/roll
37362	2.50 in x 298 ft	No	226351	800008-002	No	36	4.80/roll
35477	3.50 in x 360 ft	No	226455	No	Yes	12	6.10/roll
37364	4.30 in x 298 ft	No	226357	800008-004	No	36	8.25/roll
75895*	4.30 in x 244 ft	No	Z28GPRM110074	800130-104	No	12	7.90/roll
35478	4.33 in x 360 ft	Yes	226457	No	Yes	12	7.70/roll
53265	1.30 in x 298 ft	No	No	800008-001	No	36	2.60/roll
1IN CORE SIZE							
110537	2.50 in x 900 ft	No	No			24	4.50/roll
40785	2.50 in x 1189 ft	No	No	800010-002	Yes	12	13.65/roll
34054	3.00 in x 1182 ft	Yes	226102	No	No	6	17.25/roll
34056	4.00 in x 1182 ft	Yes	226116	No	No	6	25.25/roll
40787	4.30 in x 1189 ft	No	No	800010-004	Yes	12	23.50/roll
110536	4.30in x 900 ft	No	296143	NO	No	24	9.00/roll
34058	4.50 in x 1182 ft	Yes	226100	No	No	6	25.90/roll
42474	6.00 in x 1476 ft	Yes	224408	No	No	12	42.90/roll
GPR PLUS (FOR USE WITH KIMDURA STOCK) 3 IN CORE SIZE							
53611	1.57 in x 1476 ft	No	No	No	5095BK04045	6	25.70/roll
20539	3.00 in x 1182 ft	No	222102	No	No	6	89.00/case
21750	4.00 in x 1182 ft	No	222116	No	No	24	248.50/case

Prices for black ribbon only.

Color ribbon—contact RLWS Sales for prices and availability.

Scannable colors include: Silver, Gold, Green, Blue, Brown, Purple, Maroon, Midnight Blue, Fuchsia, Kelly Green, Royal Blue, Lavender

Additional colors available: Red, Orange, Yellow, White, Pink, Pumpkin

* Ribbon for TLP2844

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Tape & Ticket Printer Impact Ribbons



STANDARD FEATURES

SP2200 & SP2000:
- Cartridge-type
- Ribbon life is approximately 1 million standard characters

IDS-150A, IDS-152, & IDS-160:
- Inked spools

TM-U295, TM-U200, TM-300:
- Cassette-type
- TM-U295: Ribbon life is approx. 1.5 million standard characters
- TM-U200 & TM-300: Ribbon life is approx. 4 million characters (continuous printing)

CITIZEN® CBM-750 & CITIZEN® IDP-3111:
- Cassette-type
- CBM-750: Ribbon life is approx. 4 million lines (continuous printing) iDP-3111: Ribbon life is approx. 1 million lines (continuous printing)

OKIDATA 184 TURBO & 320:
- Self-inking
- Ribbon life is approximately 3 million characters

DH4000 & TOLEDO 8806A, SP298, SP2320 & SP2520, LC-7211, SP349 & SP300, DP8340:
- Cassette-type

MTI330:
- Cartridge

PART #	DESCRIPTION	PRICE
SP2200 & SP2000:		
20308	Black ink cartridge	$24.00
IDS-150A & IDS-152:		
20440	Purple ink ribbon	7.00
IDS-160:		
20447	Purple ink ribbon	7.00
20544	Black and red ink ribbon	7.00
EPSON® TM-U295:		
29584	Purple ink cartridge	12.00
29583	Black ink cartridge	12.00
EPSON TM-U200/TM-U220 & TM-300		
31296	Purple ink cartridge	12.00
EPSON TM-U590		
68525	Purple ink cartridge	12.00
CITIZEN CBM-750:		
41902	Red/black ribbon cartridge	7.00
CITIZEN IDP-3111:		
42101	Purple ribbon cartridge	9.00
OKIDATA 184 TURBO & 320:		
20664	Ribbon cartridge	8.00
DH4000 & TOLEDO 8806A & FAIRBANKS 50-3925:		
20428	Purple ribbon cartridge	16.00
STAR® SP298, SP2320 & SP2520:		
69921	Purple ribbon cartridge	10.00
STAR SP349 & SP312:		
69920	Purple ribbon cartridge	11.00
STAR DP8340:		
20447	Purple ribbon cartridge	7.00

Don't see a ribbon or paper roll you need? Send us the manufacturer name and model of the printer and we will quickly fax you a quotation.

STAR SP700:		
103728	Black ribbon cartridge	10.00
EXTECH 2000i:		
87387	Purple ribbon cartridge	6.00

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Tape Printer Paper Supplies



STANDARD FEATURES

IDS-150A, IDS-152, IDS-160, TM-U200, TM-300, AND CITIZEN® CBM-750:
- One-ply paper roll: 3in W x 150ft L (76.2mm W x 45.7m L)
- Two-ply paper roll: 3in W x 90ft L (76.2mm W x 27.4m L)

CITIZEN® IDP-3111:
- One-ply paper roll: 2.25in W (57.1mm W)

STAR®:
- One- and two-ply paper roll: 3in W x 3ft L (76.2mm x 0.9m)
- One-ply thermal paper roll: 3.125in W x 3.25ft L (76.2mm x 0.99m), 8in roll dia.

PART #	DESCRIPTION	PRICE
IDS-150A, IDS-152, IDS-160, TM-U220, TM-300, & CITIZEN CBM-750:		
69916	One-ply Bond, 3in W (76.2mm) x 150ft L (45.7m), 3in dia., 1/2in core	$5.00/roll
69915	Two-ply Bond, 3in W (76.2mm x 90ft L x 27.4m), 3in dia, 1/2in core white/canary yellow	7.00/roll
CITIZEN IDP-3111:		
42870	One-ply Bond, 2.25in W (57.1mm) x 150 ft L, 7/16in core 2 7/8in outer diameter	5.00/roll
STAR:		
69916	One-ply Bond, 3in W (76.2mm) x 150ft L (45.7m), 3in dia., 1/2in core	5.00/roll
69915	Two-ply Bond, 3in W (76.2mm x 90ft L x 27.4m), 3in dia, 1/2in core white/canary yellow	7.00/roll
69917	One-ply thermal, 3.125in W (76.2mm) x 3.25in dia. 7/16 core 295 ft	5.00/roll
70083	One-ply thermal, 3.23in W (82mm) x 3in dia., 8in roll dia. (2020ft long) 1 1/2 core	35.00/roll
71214	One-ply plain paper, 3.25in W (82.5mm) x 3in dia., 50 rolls/case, 3/8 core	95.00/case
105711	Two-ply plain paper, 3.25in W, 50/case, 3/8 core 3in outer diameter	150.00/case
105712	Three-ply plain paper, 3in wide, 50 per case, 3/8 core, 3in outer diameter (white, canary, pink)	160.00/case
102950	One-ply thermal, 4.4in wide, 6in outer diameter, 1in core, 930ft roll	42.50/roll
20448	One-ply Bond, 4.5in wide x 165 ft, 7/16 core, 3in outer diameter	8.00/roll
42672	Two-ply, 4.5in wide x 95ft, 3in outer diameter	7.00/roll
70683	One-ply Bond, 4.5in wide x 3in diameter, sprocket feed, 140ft	10.80/roll
107618	One-ply thermal, 110mm (4.4in) x 4in outer diameter, 500 ft	10.50/roll
102957	One-ply thermal, 58mm (2.28in) x 2 3/4 outer diameter, 1/2in core	3.25/roll
EPSON:		
105445	One-ply thermal, 80mm (3.1in) wide, 6in outer diameter, 710ft/roll	25.00/roll
105446	One-ply thermal, 80mm (3.1in) wide, 8in outer diameter, 1268ft/roll	27.00/roll
75947	One-ply Thermal, 2.25in wide x 85ft, 1 7/8 outer diameter, Mobilink, 1/2in core	6.00/roll
KIOSK PRINTERS:		
50426	One-ply, 3.25in wide, 6in diameter 7/16 core 950ft	16.00/roll
104940	One-ply thermal, 112mm wide, 5in diameter, 1in core, 625ft	24.00/roll
MISC:		
73135	One-ply Bond, 2.25in wide x 2.25in outer diameter, 7/16 core	2.80/roll
66653	One-ply thermal, 80mm (3/8in) wide, 455ft long 5in for Swecoin, Star TUP 900	18.00/roll
76076	One-ply thermal, 60mm(2 3/8in) x 100mm outer diameter 40mm core, wound out	10.00/roll
73134	One-ply Bond, 1 3/4in wide x 1-7/8 outer diameter, 7/16 core	3.50/roll
47341	One-ply thermal, 64mm x 50 meter, 1 9/16in core	5.00/roll

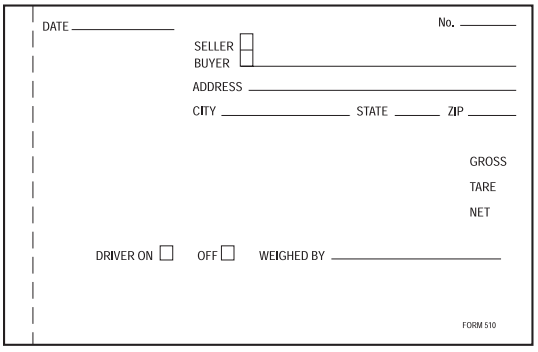
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Electronic Scale Tickets

HECON PRINTERS, EL522 & EL516 - 20266

- Carbon triplicate interleaved
- Size: 5in W x 7.875in L (127 x 200mm)
- Order quantity: 500 per package

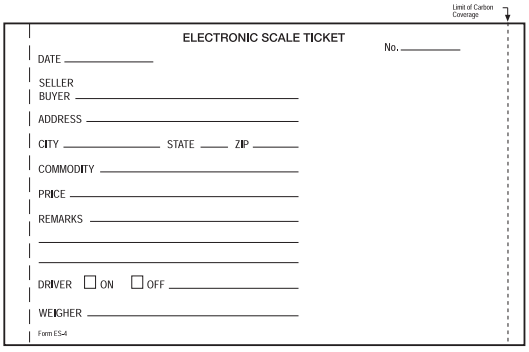
20266



SP2200, SP2000, RL250 & EL500 - 20265

- Carbon triplicate interleaved perforated and glued on one end
- Size: 5.5in W x 9in L (139.7 x 228.6mm)
- Order quantity: 500 per package

20265



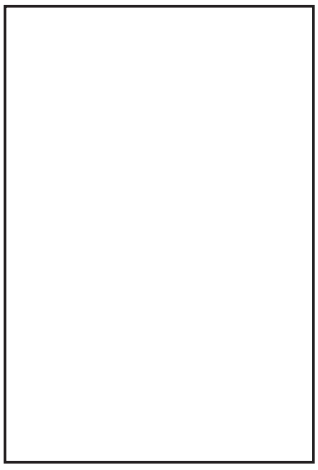
RICE LAKE SCALES - 71630 OR 105182

- Carbonless duplicate or triplicate
- Size: 4.25in x 7in (107mm x 177.8mm) attached at 4.25 side
- Order quantity: 500 per package
- Custom (Duplicate):
  Add company name (min. order 5 packs - $50.00 ea)
- Custom (Triplicate):
  Add company name (min. order 5 packs - $70.00 ea)



BLANK SCALE TICKET - 22263

- 3-part carbonless
- White, canary yellow, and pink
- Size: 4.25in W x 5.5in L (108mm x 140mm)
- Attached at 4.25 edge
- Custom - Add company name (min. order of 2500 - $0.19 ea)



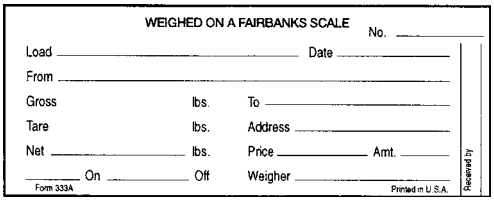
PART #	DESCRIPTION	PRICE
20266	Hecon Printers, EL522 & EL516, 500/pack	$85.00
20265	SP2200, SP2000, EL250 & EL500, 500/pack	89.50
71630	Rice Lake ticket, 2 part, 500/pack	48.00
105182	Rice Lake ticket, 3 part, 500/pack white, canary yellow, pink	68.00
22263	Blank scale ticket, each	0.19 each

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Mechanical Scale Tickets

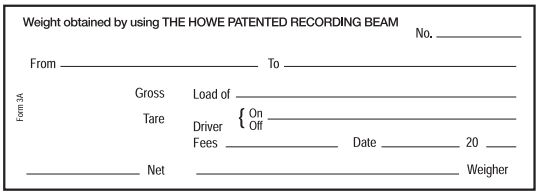
FAIRBANKS SCALES - 20260

- Carbon triplicate with 2in (50.8mm) tear-off flap
- Size: 1.875in W x 4.75in L (47.6 x 120.7mm)
- Order quantity: 500 per package



HOWE SCALES - 20261

- Carbon triplicate with 2in (50.8mm) tear-off flap
- Size: 1.75in W x 5.5in L (44.5 x 139.7mm)
- Order quantity: 500 per package

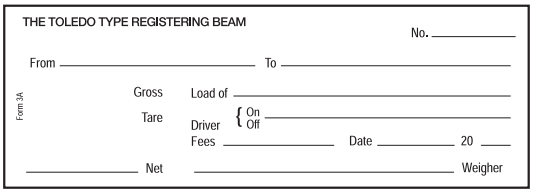


CREATE YOUR OWN CUSTOM TICKET

Send us a copy of the existing custom format or drawing of a completely new one. Please specify number of carbon copies, dimensions, colors and text. Minimum order quantity may apply.

TOLEDO SCALES - 20262

- Carbon duplicate with 2in (50.8mm) tear-off flap
- Size: 1.75in W x 5.5in L (44.5 x 139.7mm)
- Order quantity: 500 per package



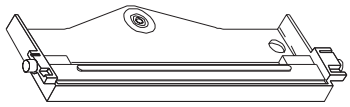
PART #	DESCRIPTION	PRICE
20260	Fairbanks Scales, 500/pack	$58.00
20261	Howe Scales, 500/pack	58.00
20262	Toledo Scales, 500/pack	58.00

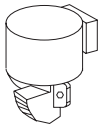
CREATE YOUR OWN CUSTOM TICKET

Send us a copy of the existing custom format or drawing of a completely new one. Please specify number of carbon copies, dimensions, colors and text. Minimum order quantity of 2500 tickets.

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Replacement Printheads





PART #	DESCRIPTION	PRICE
TICKET PRINTERS		
EPSON		
29535	TM-290/TM-U295	$240.00
RICE LAKE WEIGHING SYSTEMS		
35347	SP2200	250.00
33969	SP2000A, serial number >6000	275.00
20301	SP2000, serial number <6000 (has ribbon cable)	290.00
TAPE PRINTERS		
EPSON		
32789	TM-300D	168.00
68726	590 print mechanism	845.00
STAR		
72513	SP298	99.00
DOCUMENT PRINTERS		
OKIDATA		
22700	320/321	215.00
LABEL PRINTERS		
DATAMAX		
20846	Allegro, Allegro 2, DMX400, Prodigy Plus, Prodigy Max (203 dpi)	450.00
20665	Prodigy	495.00
48368	Prodigy Max (300 dpi)	695.00
43095	DMX600	1,095.00
51126	DMX800, new style TDK for printers w/CID # of E53-XX-XXXXXXXX or greater, W-8306	1,295.00
53939	I-4208 I-4210, I-4212 (203 dpi)	450.00
66748	I-4308 (300 dpi)	695.00
67552	W-6208 (203 dpi) prior to Dec, 1999	695.00
82859	W-6208 (203 dpi), DPO 20-2164-01, 1999 - to current	695.00
67551	W-6308 (300 dpi)	995.00
103369	M4208, M-4210, 203 DPI	425.00
96957	H-4212, 203 dpi	450.00
96958	H-4310, 308 dpi	695.00
72473	Ex2, E-4203 (203 dpi)	200.00
ELTRON/ZEBRA®		
38606	LP2242/LP2642/TLP2242/TLP2642, DA, 4 in	345.00
53034	LP/TLP2622/2722, 2 in	290.00
70890	TLP-2746	425.00
79001	TLP-2746e, 4 in	425.00
78998	LP/TLP-2824 (2 in)	165.00
78999	LP-2844 (4 in)	195.00
79000	TLP-2844 (4 in)	206.75
38602	LP3642/TLP3642 (300 dpi)	620.00
51019	Orion LP-2443	225.00
51563	170 Xi (12 dot)	1,200.00
51216	220XiIII	1,095.00
51547	S600 (8 dot)	543.00
51548	S400 (8 dot)	475.00
95375	Z4000, S4M 203 dpi	695.00

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Printer Cables



Straight Cable

PART #	DESCRIPTION	PRICE
50749	DB9 female to DB9 female	$45.00
41279	DB25 male to DB9 male	55.00
66535	DB9F to DB9 female, Null modem	35.00

USB Cable

PART #	DESCRIPTION	PRICE
79074	USB-A to USB-B, M to M 6 ft	$20.00
72704	USB to 9 pin Male RS-232 adapter	70.00

Ethernet Cable/RJ-45

PART #	DESCRIPTION	PRICE
72697	RJ-45 to RJ-45, 7 ft	$35.00
78860	RJ-45 to RJ-45, cross over 7 ft	35.00
75594	RJ-45 to 9-pin female	55.00

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Printer/Scale Veils



STANDARD FEATURES

- Tough, flexible transparent vinyl, constructed with heavy-duty stitching
- Loose fit allows for operation of switches or controls through the scale veil
- Available for most types of scale equipment

SCALE VEILS AVAILABLE FOR THE FOLLOWING WEIGHING EQUIPMENT:

DESCRIPTION	PART #	PRICE
RICE LAKE		
IQ700, UMC600	21213	$60.00
SP2000/SP2200	21210	75.00
EPSON		
TM290/295	29582	54.00
TM-300	31277	54.00
TM-U200/TMU220	35666	57.00
TM-U590	111840	65.00
OKIDATA®		
Okidata 184 Turbo Printer	21208	65.00
Okidata 320/390	21226	65.00
IDS		
IDS150/150A/.52	21221	65.00

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Discontinued Inventory

PART NUMBER	DESCRIPTION	EXTENDED DESCRIPTION
DATAMAX		
86568	M-4208	Direct Thermal, 203 dpi, 8IPS, serial, parallel and USB, LAN kit
81181	I-4210	Direct Thermal, serial and parallel, 115 VAC, MCL-enabled
TAPE PRINTERS		
64851	Epson TM-U200A	RS-232 with take up reel and auto cutter, 115 VAC
85456	Epson Mobilink TM-P60 Thermal line printer	
87384	Extech 2000i portable printer	
ENCLOSURES		
34859	Enclosure, Guardian	Washdown, Prodigy Plus
45686	Enclosure, Guardian	Prodigy Max, M-class
LABEL AND RIBBON STOCK		
37342	2.25 x 3 in, 4 in OD	Thermal Transfer
37343	2.25 x 1.25, 4 in OD	Thermal Transfer
37351	4 x 1 in, 4 in OD	Direct Thermal
37359	4 x 4 in, 4 in	Direct Thermal
41978	4 x 3 in, 4 in OD	Thermal Transfer
35406	3 x 3 in, 4 in OD	Thermal Transfer
37350	4 x 1.5 in, 4 in OD	Direct Thermal
105168	4 x 2 in, 4 in OD	Direct Thermal
34051	Ribbon, Thermal Transfer	2.00 Max Wax
34057	Ribbon, Thermal Transfer	4.25 Max Wax
SCANNERS		
102137	Scanner, Quick Scan QS2500	USB, 12 ft, series A POT cable and stand
76017	Scanner, Quick Scan QS2500	RS-232, power supply and cable

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Notes

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RD-232

Remote Display



RD-232 NEMA 4X FRP Enclosure



RD-232 NEMA 4X stainless steel wall mount enclosure



RD-232 compact stainless steel wall mount enclosure

STANDARD FEATURES

- NEMA 4X Fiberglass-Reinforced Polyester (FRP) wall-mount enclosure
- Optional NEMA 4X stainless steel wall-mount enclosure or NEMA 12 panel-mount version
- Easy-to-read 6-digit 0.8in (20.3mm) Light Emitting Diode (LED)
- AC or DC operation
- Four status annunciators
- Full floating decimal point
- RS-232 or 20mA current loop active or passive interface
- Compatible with a variety of digital weighing indicators; DIP switch selectable intuitive data receiver interprets serial strings

SPECIFICATIONS

DISPLAY:
6-digit, 7-segment, 0.8in (20.32mm) Light Emitting Diode (LED)

STATUS ANNUNCIATORS:
lb, kg, gross, net

OPERATING VOLTAGE:
115VAC/12VDC, ±10% 60Hz,
230VAC available
DC Voltage Range: 6.2-18VDC

INPUT INTERFACE:
RS-232, 20mA active or passive current loop, standard
ASCII compatible

BAUD RATE:
Selectable: 300, 600, 1200, 2400, 4800, 9600, 19,200

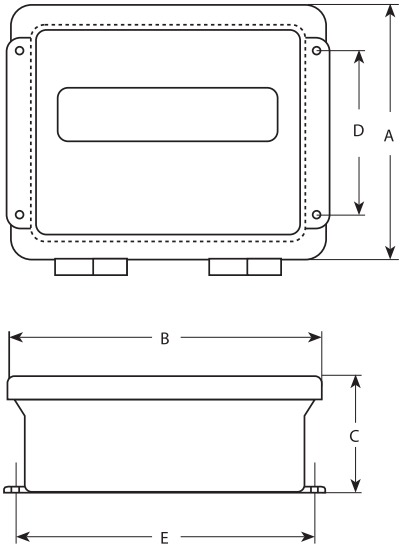
OPERATING TEMPERATURE:
-13°F to 104°F (-25°C to 40°C)

RATING/MATERIAL:
NEMA 4X FRP or optional stainless steel

WEIGHT:
Approximately 5lb (2.3kg)
Stainless steel unit, approximately 6lb (2.7kg)

WARRANTY:
One-year limited warranty

DIMENSIONS			
FRP ENCLOSURE			
A	8.00RD-2in (203mm)	**D**	4.00in (101mm)
B	9.50in (241mm)	**E**	8.75in (222mm)
C	5.25in (133mm)		
STAINLESS STEEL ENCLOSURE			
A	6.00in (152mm)	**D**	4.00in (101mm)
B	9.50in (241mm)	**E**	8.75in (222mm)
C	3.87in (98mm)		
COMPACT ENCLOSURE			
A	6.25in (158mm)	**D**	5.25in (133mm)
B	9.25in (234mm)	**E**	8.50in (215mm)
C	2.00in (50mm)		
PANEL MOUNT			
A	5.88in (149mm)	**D**	5.12in (130mm)
B	7.88in (200mm)	**E**	7.12in (180mm)
C	2.00in (50mm)		



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RD-232

Remote Display

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
32716	RD-232, 115 VAC/12 VDC, FRP enclosure	5 lb	$825.00
68786	RD-232, 115 VAC/12 VDC, compact stainless steel enclosure	5 lb	825.00
32717	RD-232, 115 VAC/12 VDC, NEMA 4X stainless steel enclosure	8 lb	995.00
32727	RD-232, 115 VAC/12 VDC, panel mount	3 lb	750.00
34748	RD-232, 230 VAC/12 VDC, FRP enclosure	5 lb	995.00

Specify interfacing indicator when ordering a remote display

OPTIONS/ACCESSORIES

32726	RD-232, 115 VAC/12 VDC board only	675.00
33210	Additional operating manual (RD-232/RD-300)	21.00

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RD-300

Remote Display



RD-300 NEMA 4X FRP Enclosure



RD-300 NEMA 4X Stainless Steel Enclosure



RD-300 Compact Stainless Enclosure

STANDARD FEATURES

- NEMA 4X Fiberglass-Reinforced Polyester (FRP) wall mount enclosure
- Optional NEMA 4X stainless steel wall mount enclosure
- Easy-to-read 1 in (25.4 mm) Liquid Crystal Display (LCD)
- RS-232 and 20 mA active current loop interface
- Status annunciators
- AC or DC operation
- Optional display with backlight for dark conditions
- Compatible with a variety of digital weighing indicators; intuitive data receiver automatically interprets serial strings
- 115 VAC, 230 VAC available

SPECIFICATIONS

DISPLAY:
6-digit, 7-segment, 1 in (25.4 mm) Liquid Crystal Display (LCD), optional backlight available (100,000-hour rated life)

STATUS ANNUNCIATORS:
lb, kg, g, gross, net, oz, pcs, tn, zero, count, under, over, OK

OPERATING VOLTAGE:
AC models: 115 VAC 50/60 Hz standard
DC models: 6.6-13.6 and 12-18 VDC; 230 VAC available

INPUT INTERFACE:
RS-232, 20 mA active current loop, standard ASCII compatible

BAUD RATE:
Selectable: 1200, 2400, 4800 and 9600

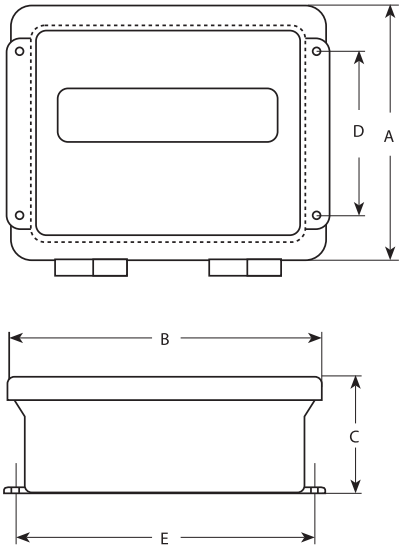
OPERATING TEMPERATURE:
-13°F to 104°F (-25°C to 40°C)

RATING/MATERIAL:
NEMA 4X FRP or stainless steel

WEIGHT:
Approximately 4 lb (1.8 kg)

WARRANTY:
One-year limited warranty

DIMENSIONS			
FRP ENCLOSURE			
A	8.00 in (203 mm)	**D**	4.00 in (101 mm)
B	9.50 in (241 mm)	**E**	8.75 in (222 mm)
C	5.25 in (133 mm)		
STAINLESS STEEL ENCLOSURE			
A	6.00 in (152 mm)	**D**	4.00 in (101 mm)
B	9.50 in (241 mm)	**E**	8.75 in (222 mm)
C	3.87 in (98 mm)		
COMPACT ENCLOSURE			
A	6.25 in (158 mm)	**D**	5.25 in (133 mm)
B	9.25 in (234 mm)	**E**	8.50 in (215 mm)
C	2.00 in (50 mm)		
PANEL MOUNT			
A	5.88 in (149 mm)	**D**	5.12 in (130 mm)
B	7.88 in (200 mm)	**E**	7.12 in (180 mm)
C	2.00 in (50 mm)		



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RD-300

Remote Display

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
68783	RD-300 AC, compact stainless steel enclosure	5 lb	$750.00
68782	RD-300 AC, compact stainless steel enclosure w/backlight	5 lb	825.00
22530	RD-300 AC, FRP enclosure	5 lb	750.00
22531	RD-300 DC, FRP enclosure	5 lb	750.00
22532	RD-300 AC, FRP enclosure w/backlight	5 lb	825.00
22533	RD-300 DC, FRP enclosure w/backlight	5 lb	825.00
22534	RD-300 AC, NEMA 4X stainless steel enclosure	8 lb	925.00
22535	RD-300 DC, NEMA 4X stainless steel enclosure	8 lb	925.00
22536	RD-300 AC, NEMA 4X stainless steel enclosure w/backlight	8 lb	995.00
22538	RD-300 AC, panel mount	3 lb	650.00
22539	RD-300 DC, panel mount	3 lb	650.00
22540	RD-300 AC, panel mount w/backlight	3 lb	750.00
22541	RD-300 DC, panel mount w/backlight	3 lb	750.00
34749	RD-300 AC, 230 VAC, FRP enclosure	5 lb	925.00
34750	RD-300 AC, 230 VAC, FRP enclosure w/backlight	5 lb	995.00

Specify interfacing indicator when ordering a remote display

OPTIONS/ACCESSORIES

32724	RD-300 AC/DC, board only	600.00
32725	RD-300 AC/DC, board only w/backlight	675.00
33210	Additional operating manual (RD-300/RD-232)	21.00

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SURVIVOR® LaserLight® Series

Remote Displays



LaserLight 4 in digit



LaserLight 4 in digit with stop and go lights



LaserLight 6 in digit shown with visor

STANDARD FEATURES

- Six high-intensity red digits (double-row discrete LED)
- Four high-intensity red annunciators for gross, net, lb, kg
- Available in 4 in (101 mm) and 6 in (152 mm) digit sizes
- Auto Learn mode of communication protocols
- Hold displayed weight (demand input)
- Software selectable stand still mode, no updates while in motion
- Software configuration menu
- Durable weather-tight enclosure
- Adjustable daylight/night intensity
- Non-glare contrast filtered lens
- Mirror function
- RS-232, 20 mA, and RS-485 communications
- Auto sensing 115/230 VAC power supply
- 6 in (152 mm) LaserLight enclosure mounting holes match SURVIVOR IQ F40 Series remote display
- Porous polyethylene breather vent
- Red, green, arrow lights in stop/go version

SPECIFICATIONS

DISPLAY:
6 digit, 7 segment discrete oval precision optical performance red LED lamps
Contrast enhancement optical filtering
1- or 2-place decimal or comma indication
4 annunciators for GR, NT, lb, kg
Red, green 4 in light (manual switch or serial command)

INPUT INTERFACE:
RS-232, RS-485, 20 mA current loop (active or passive, switch selectable)

OUTPUT INTERFACE:
Independently configurable echo out port, RS-232 or 20 mA current loop (active or passive, switch selectable)

INPUT DATA FORMAT:
Baud Rate: 1200, 2400, 4800, 9600, and 19,200 self learning or software selectable
Character Format: 7 or 8 data bits; even, odd, or no parity; 1 or 2 stop bits, self learning or software selectable

UPDATE:
Continuous or out-of-motion only; software selectable

POWER CONSUMPTION:
4 in (101 mm): 21 watt
6 in (152 mm): 27 watt

TIME OPTION:
Software enable/disable, 12- or 24-hour format

DATE OPTION:
Software enable/disable, US or ISO format

TEMPERATURE OPTION:
Software selectable °F or °C, temperature probe automatically detected

RATING/MATERIAL:
Weather proof, mild steel, powder coated

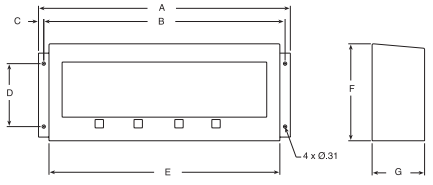
WEIGHT:
4 in (101 mm): 20 lb (9 kg)
6 in (152 mm): 25 lb (11 kg)

OPERATING TEMPERATURE RANGE:
-40°F to 120°F (-40°C to 48.8°C)

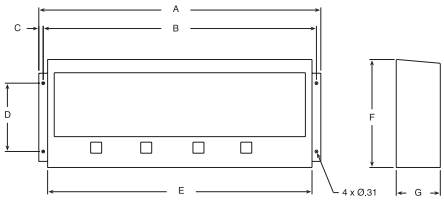
WARRANTY:
Two-year limited warranty

DIMENSIONS			
4 IN (100 MM) ENCLOSURE			
A	24.0 in (609 mm)	**E**	22.0 in (558 mm)
B	23.0 in (584 mm)	**F**	9.25 in (234 mm)
C	0.5 in (12 mm)	**G**	5.0 in (127 mm)
D	6.0 in (152 mm)		
6 IN (150 MM) ENCLOSURE			
A	32.0 in (812 mm)	**E**	30.0 in (762 mm)
B	31.0 in (787 mm)	**F**	12.25 in (311 mm)
C	0.5 in (12 mm)	**G**	5.0 in (127 mm)
D	7.75 in (196 mm)		

4 in Enclosure



6 in Enclosure (4 in Stop/Go enclosure)



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SURVIVOR® LaserLight® Series

Remote Displays

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
75850	SURVIVOR LaserLight 4 in (101 mm) remote display	22 lb	$1,450.00
75852	SURVIVOR LaserLight 6 in (152 mm) remote display	27 lb	1,900.00
87172	SURVIVOR LaserLight 4 in (101 mm) remote display, stainless steel	22 lb	2,000.00
103181	SURVIVOR LaserLight 4 in with red/green stop/go light	27 lb	1,800.00

OPTIONS/ACCESSORIES

75853	Time and date	125.00
43412	Temperature	125.00
93250	Wireless RFI Interface, includes two ConnexLink Radios	1,295.00
93249	Fiber Optic Interface, 2 transceivers (fiber optic cable sold separate)	595.00
75854	4 in (101 mm) visor (not required for weather protection), field installable	95.00
75855	6 in (152 mm) visor (not required for weather protection), field installable	120.00
75856	4 in (101 mm) LaserLight pole mount kit for 4 in to 8 in pole	125.00
77775	6 in (152 mm) LaserLight pole mount kit for 4 in to 8 in pole	175.00
75936	Additional operating manual	25.00

* LaserLight 6 in fits into existing SURVIVOR® IQ F40 holes

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SURVIVOR® LaserLight™ M-Series

Messaging Remote Displays



SURVIVOR LaserLight M-Series 8-character display
12-character display also available

STANDARD FEATURES

- Available with 8-character and 12-character display
- 2.75in high-intensity red character (discrete LED)
- Four annunciators for gross, net, lb, kg
- Auto Learn mode of communication protocols
- Display messages scroll, slide and flash
- Hold displayed weight (demand input)
- Software selectable stand still mode, no updates while in motion
- Software configuration menu
- Durable weather-tight enclosure
- Adjustable daylight/night intensity
- Non-glare contrast filtered lens
- Mirror function
- RS-232, 20mA, and RS-485 communications
- Auto sensing 115/230VAC power supply
- Porous polyethylene breather vent

SPECIFICATIONS

DISPLAY:
2.75in digit; 5 x 7 dot matrix using discrete oval precision optical performance red LED lamps
Contrast enhancement optical filtering
1- or 2-place decimal or comma indication
4 annunciators for GR, NT, lb, kg

INPUT INTERFACE:
RS-232, RS-485, 20mA current loop (active or passive, switch selectable)

OUTPUT INTERFACE:
Independently configurable echo out port, RS-232 or 20mA current loop (active or passive, switch selectable)

INPUT DATA FORMAT:
Baud Rate: 1200, 2400, 4800, 9600, and 19,200 self learning or software selectable
Character Format: 7 or 8 data bits; even, odd, or no parity; 1 or 2 stop bits, self learning or software selectable

UPDATE:
Continuous or out-of-motion only; software selectable

POWER CONSUMPTION:
8-character: 21 watt
12-character: 27 watt

TIME OPTION:
Software enable/disable, 12- or 24-hour format

DATE OPTION:
Software enable/disable, US or ISO format

TEMPERATURE OPTION:
Software selectable °F or °C, temperature probe automatically detected

RATING/MATERIAL:
Weather proof, mild steel, powder coated

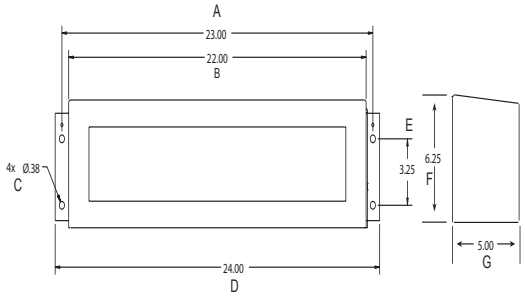
WEIGHT:
8-character:16lb (7kg)
12-character: 22lb (10kg)

OPERATING TEMPERATURE RANGE:
-40°F to 120°F (-40°C to 48.8°C)

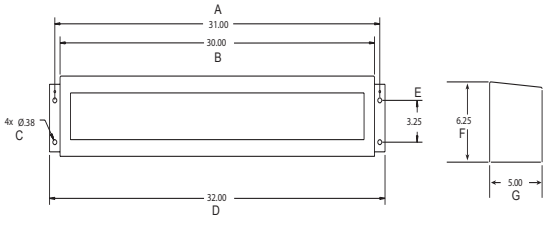
WARRANTY:
Two-year limited warranty

DIMENSIONS			
2M8 ENCLOSURE			
A	23.00in (584mm)	**E**	3.25in (83mm)
B	22.00in (559mm)	**F**	6.25in (159mm)
C	4x 0.38in (10mm)	**G**	5.00in (127mm)
D	24.00in (610mm)		
3M12 ENCLOSURE			
A	31.00in (787mm)	**E**	3.25in (83mm)
B	30.00in (762mm)	**F**	6.25in (159mm)
C	4x 0.38in (10mm)	**G**	5.00in (127mm)
D	32.00in (813mm)		

LaserLight 3M8



LaserLight 3M12



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SURVIVOR® LaserLight™ M-Series

Messaging Remote Displays

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
85137	SURVIVOR LaserLight 3M8 8-character remote display	22 lb	$1,400.00
85152	SURVIVOR LaserLight 3M12 12-character remote display	27 lb	1,850.00

OPTIONS/ACCESSORIES

75853	Time and date	125.00
43412	Temperature	125.00
75854	3M8 visor (not required for weather protection), field installable	95.00
75855	3M12 visor (not required for weather protection), field installable	120.00
85343	3M8 LaserLight pole mount kit	125.00
85344	3M12 LaserLight pole mount kit	150.00
75936	Additional operating manual	25.00
103178	Wireless RFI Interface, includes 2 ConnexLink Radio (for 3M12 only)	1,295.00
93249	Fiber Optic Interface, 2 transceivers (fiber optic cable sold separately)	595.00

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LaserLT RD-1550

COMING SOON



STANDARD FEATURES

- Six red LED digits, 1.5 in height
- Annunciators for weighing mode, units and status
- Red and green annunciator lights
- Programmable keys for primary weighing functions (Zero, G/N, Tare, Units, Print)
- Auto Learn mode for easy connection
- Continuous or Demand mode inputs
- Stainless steel enclosure, hinged cover
- RS-232, 20 mA communication ports
- Option for fiber optic, USB, Ethernet TCP/IP, RS-422 or wireless communication
- Echo or addressable for displaying specific data
- Auto sensing power supply
- Software configuration menu
- Compatible with Revolution® III Configuration Utility

SPECIFICATIONS

DISPLAY:
Six-digit LED, 7-segment character, 1.5 in height
Six annunciators for GR, NT, lb, kg, motion and COZ
One red/one green light (serial or I/O controlled)
Overlay with contrast filtered lens
Optional visor for direct sunlight

INPUT INTERFACE:
Port 1 20 mA full duplex
Port 2 RS-232 full duplex
Port 3 RS-232 or pluggable option for Fiber Optic, USB, Ethernet TCP/IP, RS422
Port 4 RS-232 or pluggable option for wireless LAN

OUTPUT INTERFACE:
Echo (daisy chain) output mode – port selectable
Keypad output mode – configurable strings and port selectable

INPUT DATA FORMAT:
Learn mode or software selectable for data types
Baud Rate: 1200, 2400, 4800, 9600, 19,200, 38,400, 57,600, 115,200
Characters: 7 even, odd or 8 none
Stop bits: 1 or 2 selectable

UPDATE:
Software selectable for continuous or demand formats to hold the displayed weight

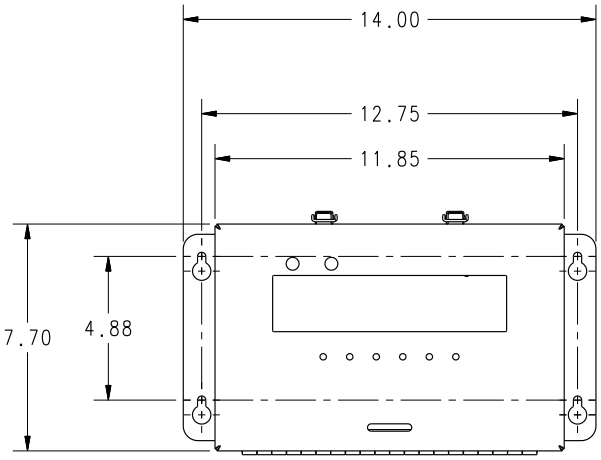
DIGITAL I/O:
Two inputs for control of red and green lights

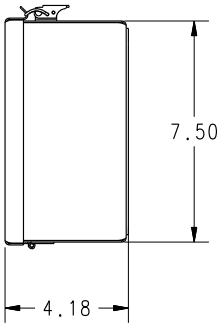
RATING/MATERIAL:
NEMA 4X/IP69K, 304 stainless steel

WEIGHT:
10 lbs

OPERATING TEMPERATURE:
-20°F to 120°F (-30°C to 50°C)

WARRANTY:
Two-year limited warranty





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LaserLT RD-1550

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
111143	SURVIVOR® LaserLT RD-1550 remote display, 90 – 260 VAC	10 lb	Consult
111144	SURVIVOR LaserLT RD-1550 remote display, 9 – 36 VDC	10 lb	Consult
110384	CPU/LED display board only (requires power supply)		Consult
76556	Power supply, auto switching 90 – 260 VAC		Consult
97475	Power supply, 9 – 36 VDC		Consult

OPTIONS/ACCESSORIES

77142	Ethernet TCP/IP board	Consult
96736	Fiber optic board	Consult
78026	Fiber optic cable, 100 ft	Consult
78027	Fiber optic cable, 200 ft	Consult
108579	RS-232/RS-422 board	Consult
108671	Wireless LAN board 802.11a/b	Consult
93245	USB board (requires USB cable, PN 95357)	Consult
115138	Visor	Consult
114035	Installation manual	Consult
77925	Revolution® III configuration software	Consult

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Notes

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Rice Lake RS-130

Battery-Operated Price Computing Scale



APPROVALS

Measurement Canada Approved

STANDARD FEATURES

- Rechargeable battery/charger included
- Toggle between lb/kg/oz*
- Eight PLU keys for direct price lookups
- Cash back calculation
- Large stainless steel platter
- Easy-to-read customer display
- In-use cover
- 89 PLUs for indirect price lookups
- Battery charge indicator
- Customer display
- NTEP Certified Legal-for-Trade

*Ounces not available in Measurement Canada Approved Model

SPECIFICATIONS

CAPACITY/GRADUATIONS:
30 lb x 0.01 lb
15 kg x 0.005 kg
480 oz x 0.2 oz

DISPLAY ITEMS:
Weight: Five digits
Unit price: Five digits
Total price: Six digits

ACCURACY:
1/3000

DISPLAY:
LCD, 0.453 in (11.5 mm) character

POWER SOURCE:
DC 6V/25 mA rechargeable battery with AC adaptor included AC 115V/0.1A (max)

BATTERY LIFE:
100+ run hours

WEIGHT:
10 lbs (4.5 kg)

PRESET KEY:
Eight direct price lookups
89 indirect price lookups by PLU number

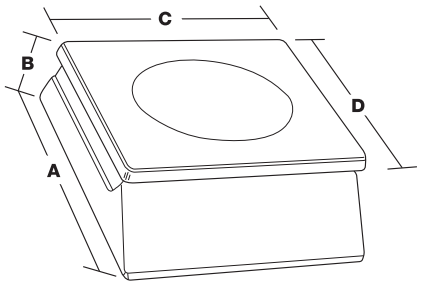
DIMENSIONS (W X D X H):
Platter: 11.8 in x 9.5 in
Overall: 12.3 in x 13.0 in x 4.7 in

OPERATING TEMPERATURE:
32°F to 104°F (0° to 40°C)

OUTPUT:
PN 89483 RS-232 (Fixed at)
Baud: 4800
Parity: None
Stop bit: 1
Data bit: 8
Six-digits weight
Five-digits unit price
Six-digits total price

CLASSIFICATION:
NTEP Certified, 04-067, Class III 3000d
Measurement Canada Approved: AM-5565

WARRANTY
One-year limited warranty



DIMENSIONS			
A	13.0 in (330 mm)	**C**	11.8 in (300 mm)
B	4.7 in (120 mm)	**D**	9.5 in (240 mm)

PART #	MODEL	CAPACITY	EST. SHIP WEIGHT	PRICE
85608	RS-130	30 lb x 0.01 lb	12 lb	$354.00
89483	RS-130 with RS-232	30 lb x 0.01 lb/15 kg x 0.005 kg/480 oz x 0.2 oz	12 lb	399.00
94586*	RS-130 (no ounce)	15 kg x 0.005 kg	12 lb	354.00

OPTIONS/ACCESSORIES

85772	Additional operating manual	15.00
85773	Additional calibration instructions	5.00
85711	Additional in-use cover	5.25
47976	Fish platter	75.00
47977	Produce platter	75.00

*Ounces not available in Measurement Canada Approved model

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Ishida NOVA-II

Price Computing Scale



STANDARD FEATURES

- Advanced computing functions
- Compact design
- Customer display on rear of unit
- High accuracy
- Platform dimensions: 9.6in x 13.8in (244mm x 330mm)
- Computes customer's change

APPROVALS

SPECIFICATIONS

ACCURACY:
1/3000

DISPLAY:
VFD, 0.453in (11.5mm) character height

DISPLAY ITEMS:
Weight: Five digits
Unit price: Five digits
Total price: Six digits

WEIGHT:
Without pole display: 14.3lb (6.5kg)
With pole display: 15.9lb (7.2kg)

PRESET KEY:
Stores up to 15 unit prices or tare weights

POWER SOURCE:
115/230V ±10%, 50/60Hz

POWER CONSUMPTION:
5W (115VAC)
6W (230VAC)

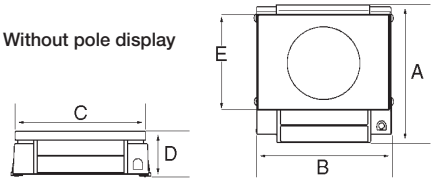
OPERATING TEMPERATURE:
23° to 104°F (-5° to 40°C)

CLASSIFICATION:
NTEP Certified, CC# 98-001
UL listed

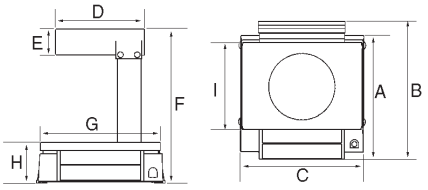
WARRANTY:
One-year limited warranty

DIMENSIONS			
WITHOUT POLE DISPLAY			
A	14.1in (357mm)	**D**	4.5in (115mm)
B	14.2in (360mm	**E**	9.8in (248mm)
C	13.8in (350mm)		
WITH POLE DISPLAY			
A	14.1in (357mm)	**F**	16.9in (429mm)
B	15.4in (390mm)	**G**	13.8in (350mm)
C	14.2in (360mm)	**H**	4.5in (115mm)
D	9.8in (250mm)	**I**	9.8in (248mm)
E	2.7in (70mm)		)

Without pole display



With pole display



PART #	MODEL	CAPACITY	PLATTER	EST. SHIP WEIGHT	PRICE
46555	NOVA-II 15lb	15lb x 0.005lb	10 x 16	16.5lb	$440.00
41465	NOVA-II 30lb	30lb x 0.01lb	10 x 16	16.5lb	440.00
46554	NOVA-II 60lb	60lb x 0.02lb	10 x 16	17.5lb	485.00
46556	NOVA-II 30lb w/pole	30lb x 0.01lb	10 x 16	18.5lb	485.00
46557	NOVA-II 60lb w/pole	60lb x 0.02lb	10 x 16	19.5lb	485.00

OPTIONS/ACCESSORIES

45355	220/240VAC power supply (transformer) (factory installation required at time of order)	53.00
47976	Fish platter	75.00
47977	Produce platter	75.00
48727	Additional operating manual	15.00
48728	Service manual	15.00

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Ishida Astra

Price Computing Scale with Printer



STANDARD FEATURES

- Programmable function keys
- Store up to 2,000 PLUs
- Print speed of 3.15 in (80 mm) per second
- Convenient side-loading label feature
- RS-232 communications (for AstraLink)
- Proportional tare
- 44 keys store up to 88 presets



APPROVALS

SPECIFICATIONS

CAPACITY/GRADUATIONS:
30 lb x 0.01 lb (15 kg x 0.005 kg)

DISPLAY:
Tare: Four-digits
Weight: Five-digits
Unit/Price: Five-digits
Total Price: Six-digits

ACCURACY:
1/3000

LABEL WIDTH:
1.5 in - 2.52 in (38 mm - 64 mm)

LABEL LENGTH:
1.18 in - 3.35 in (30 mm - 85 mm)

LABEL BACKING PAPER WIDTH:
Up to 2.64 in (up to 67 mm)

PRINTING SPEED:
3.15 in per second (80 mm per second)

LABEL ROLL DIMENSIONS:
Inside diameter: 1.57 in (40 mm)
Outside diameter: 3.94 in (100 mm)

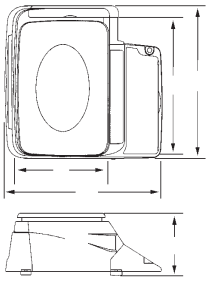
COMMUNICATIONS:
RS-232 (for AstraLink PLU editor)
Scale data copy function
Windows® 95, 98 NT, and XP

KEYBOARD:
64 keys (88 presets using Mode key)

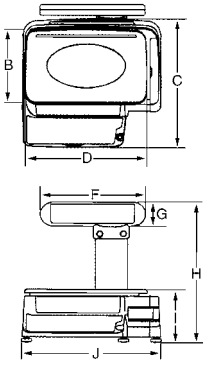
MEMORY CAPACITY:
256K, 2000 PLUs (30 characters per PLU)

APPROVALS:
NTEP Certified CC# 00-107
UL listed

WARRANTY:
One-year limited warranty



DIMENSIONS WITHOUT POLE DISPLAY			
A	9.2 in (234 mm)	**D**	15.7 in (400 mm)
B	16.3 in (414 mm)	**E**	6.5 in (165 mm)
C	14.1 in (358 mm)		



DIMENSIONS WITH POLE DISPLAY			
B	9.2 in (234 mm)	**G**	3.1 in (80 mm)
C	16.3 in (415 mm)	**H**	18.3 in (465 mm)
D	14.0 in (356 mm)	**I**	6.9 in (176 mm)
F	12.2 in (310 mm)	**J**	15.7 in (400 mm)

Windows is a registered trademark of Microsoft corporation

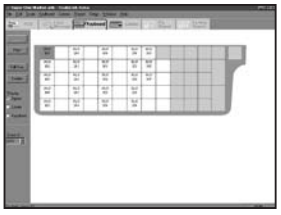
Astralink PLU editing software available



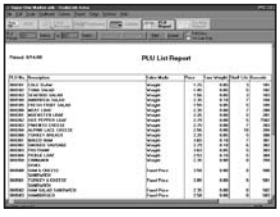
PLU Search Screen



PLU Entry Screen



Program Astra Preset Keys



Preview PLU List Report Before Printing

RICE LAKE WEIGHING SYSTEMS

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Ishida Astra

Price Computing Scale with Printer

PART #	MODEL	CAPACITY	EST. SHIP WEIGHT	PRICE
64986	Astra	30 lb x 0.01 lb	32 lb	$1,530.00
68505	Astra w/pole display	30 lb x 0.01 lb	35 lb	1,610.00

OPTIONS/ACCESSORIES

66435*	Astra CD-ROM (Contains AstraLink and AstraLabel software programs, operating manual, and label format worksheets)	40.00
66535	RS-232 Null modem 6 ft cable, DB9 female to DB9 female (Astra to PC, Astra to Astra)	35.00
47977	Produce platter	75.00
47976	Fish platter	75.00
47341	Continuous roll thermal journal paper, 64 mm W x 50 m L (for reports only)	5.00
66423*	Service manual (lb model)	15.00
66019*	Additional operating manual (lb model)	15.00

Label Stock
(Please consult factory for case quantity pricing)
(Examples shown on next page)
(Labels sold by the case-12 rolls per case)

47732	2.36 in x 1.73 in (60 mm x 44 mm)	66.00
47733	2.52 in x 1.85 in (64 mm x 47 mm)	66.00
47735	2.52 in x 2.32 in (64 mm x 59 mm)	66.00
47736	Pre-printed safe handling instructions, 2.52 in x 2.32 in (64 mm x 59 mm)	66.00
47743**	Extended text, 2.52 in x 3.34 in (64 mm x 85 mm)	66.00
47745	Pre-printed safe handling instructions on top of label, 2.52 in x 3.34 in (64 mm x 85 mm)	66.00
47762	Non-barcode, 2.52 in x 1.46 in (64 mm x 37 mm)	66.00

* Manuals and software programs can be downloaded for FREE from our website at www.ricelake.com

** Safe handling instructions can also be printed by scale

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Ishida Astra Standard Label Formats

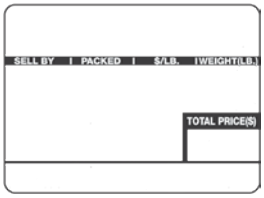
The labels shown below are 55% of actual size.

Titles on labels are pre-printed (SELL BY, PACKED ON, $ LB., NET WT, TOTAL PRICE)

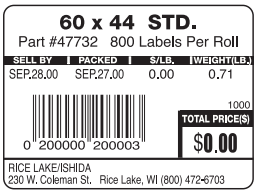
Maximum description text per label	
Formats 1-5	1 title line + 2 ingredient lines
Format 6	1 title line + 6 ingredient lines
Format 7	1 title line + 17 ingredient lines
Format 8	1 title line + 6 ingredient lines

Format 1

47732

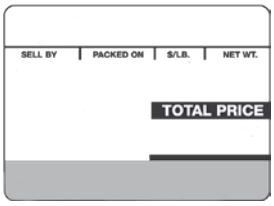


Example

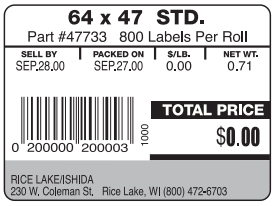


Format 2

47733

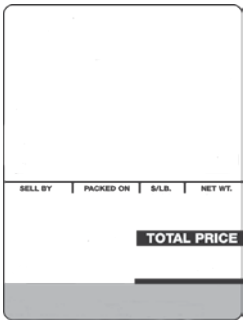


Example



Format 3

47743



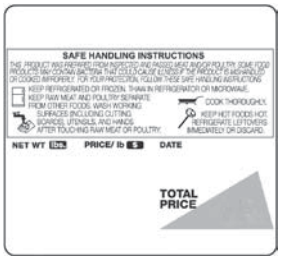
Example



* Safe Handling information printed by scale

Format 4

47736

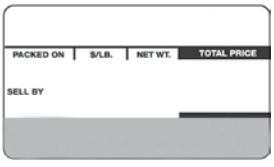


Example

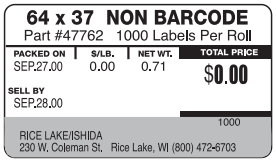


Format 5

47762

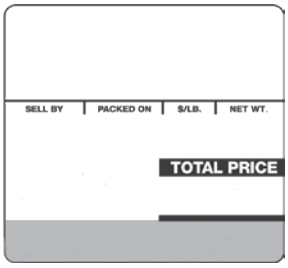


Example

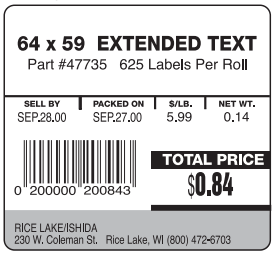


Format 6

47735



Example



Format 7

47743



Example



Format 8

47735



Example



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Intruder™ Cut-Resistant Glove

Stainless Steel



CAUTION: Glove is cut-resistant not cut-proof or point puncture resistant and should not be used with moving or serrated blades

STANDARD FEATURES

- Stainless steel core fiber
- Withstands high pressure cleaning
- Stain and odor resistant
- FDA/USDA approved materials

SPECIFICATIONS

CONSTRUCTION:
37 AWG solid 304 stainless steel NOM OD: 0.0045
1000 Denier polyester strength member NOM OD: 0.10
8 mils non-toxic PVC jacket

PART #	DESCRIPTION	SIZE	EST. SHIP WEIGHT	PRICE
78717*	Cut-Resistant Glove	Small	1 lb	$12.00
78718*	Cut-Resistant Glove	Medium	1 lb	12.00
78719*	Cut-Resistant Glove	Large	1 lb	12.00

Consult factory for bulk pricing

* Glove is cut-resistant not cut-proof or point puncture resistant and should not be used with moving or serrated blades

Intruder™ QuikSharp

Complete Knife Sharpening System



STANDARD FEATURES

- Tungsten carbide sharpener
- Ceramic honing rods
- Reversible blades

SPECIFICATIONS

BLADES:
Tungsten carbide
HONING RODS:
Ceramic
DIMENSIONS (L X W X H):
6 in x 0.75 in x 2.5 in (152.4 mm x 19.05 mm x 63.5 mm)

PART #	DESCRIPTION	EST. SHIP WEIGHT	PRICE
78720	Knife Sharpener	1 lb	$12.00

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Notes

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Bar Code Label Software **ST-10**
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Bar Code Label Software **ST-12**

VIRTUi®/VIRTUi²

PC-Based HMI for iQUBE®/iQUBE®²



VIRTUi is a Windows®-based desktop application that works with iQUBE™/iQUBE² to replicate the IQ plus® 355 indicator ideal for system integrators and OEMs wanting to provide a PC-based solution, VIRTUi provides the functionality of a basic weight indicator. Load cells are individually monitored and calibrated, making setup easy.

STANDARD FEATURES

- Web browser-based iQUBE® cell status
- Configurable display options
- Virtual front panel consists of display and five button keypad
- Up to eight digital I/O (provided by iQUBE)
- Primary/secondary units configuration (lb, kg, short tons, metric tons, none)
- RS-232 communications at up to 57.6 Kbps
- Electronic data processing (EDP) port over RS-232 and TCP/IP
- Printer port for output-only, simplex communications
- Two print formats
- Provides for iQUBE configuration
- Supports iQUBE diagnostics with configurable error reporting
- Peak weight history
- Recalibration notification
- Provides local and remote reporting of diagnostics and error conditions
- NTEP Certified for Classes III and IIIL at 10,000 divisions
- Concentrated load capacity (CLC)
- Section capacity

SPECIFICATIONS

MINIMUM SYSTEM REQUIREMENTS:

Windows® 2000™ or greater
Internet Explorer 6.0 SP1
.NET Framework 1.1
128 MB Ram
30 MB free hard drive space
Serial port for connection to iQUBE
Additional serial ports are required for connections to printers/remote displays

STATUS ANNUNCIATORS:

Units (lb, kg, short tons (tn), metric tons (t), NONE) Gross/Net, Motion, Center of Zero

Windows is a registered trademark of Microsoft Corporation

PART #	DESCRIPTION	PRICE
86762	VIRTUi Virtual Indicator DEMO CD	N/A
85107	Activation Part Number requires machine ID and customer email address	$495.00
108435	VIRTUi² Virtual Indicator DEMO CD	N/A
108436	Activation Part Number **Requires Machine ID and Customer's email address**	495.00

See page JB-15 and JB-16 for iQUBE² pricing

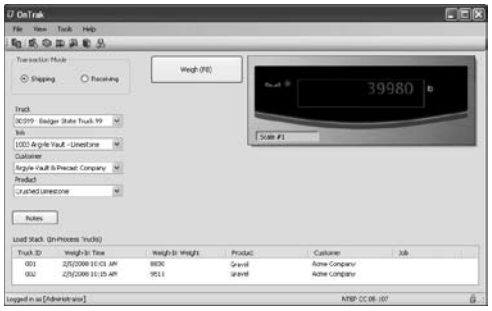
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OnTrak™

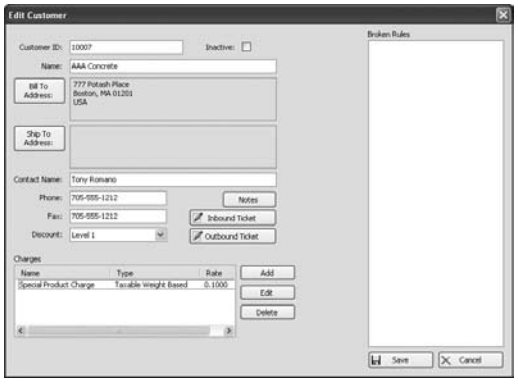
Truck Data Management Software



APPROVALS



Weigh Scale



Customer Account Information

STANDARD FEATURES

- Supports Windows 2000, XP & Vista Systems
- SQL Server 2005 Database
- Comprehensive Report Filters
- User and Administrator Security Levels
- Back up and Restore via SQL Server Management Studio
- Unlimited Charge / Discount per Product
- Ship Mode or Receive Mode for Each Transaction
- Exclusive Database for:
  - **Customer**
  - **Hauler**
  - **Truck**
  - **Product**
  - **Job**
  - **Price/Discount**
  - **Tax**
  - **Transaction**
- Ethernet TCP/IP or RS-232 Connectivity
- Supports VIRTUi or Rice Lake Indicators
- 32 Bit Application utilizing Client Server Database
- Download OnTrak trial at www.ricelake.com/ontrak

OPTIONAL FEATURES

- Interface to non-Rice Lake Weight Indicators
- Custom Reports
- Database Configuration
- Field Installation & Training
- Factory Phone Support

DATABASE FEATURES:

TRANSACTION:
- Truck
- Customer
- Job
- Product
- Weigh In T&D
- Weigh Out T&D
- Gross Weight
- Tare Weight
- Net Weight
- Tare Type
- Units
- Void
- Ship Mode

TRANSACTION CHARGE:
- Transaction #
- Charge Name
- Charge Rate
- Charge Type

PRODUCT:
- Product Name
- Product ID
- Price
- Description
- Minimum Charge

PRODUCT CHARGE:
- Product
- Charge
- Job
- Job ID
- Job Name
- Job Closed
- Customer #

JOB PRICING:
- Job #
- Product #
- Amount Ordered
- Amount Delivered
- Discount

TRUCK:
- Truck ID
- Tare
- Are Acquired
- Tare Expiration
- Tare Type
- Name
- Minimum Weight
- Maximum Weight
- Radio Tag ID
- Customer #
- Job #
- Product #
- Hauler #

HAULER:
- Name
- Address
- Phone
- Fax
- Contact Name

WEIGH IN:
- Truck #
- Customer #
- Job #
- Product #
- Weigh In T&D
- Weight Value

CHARGE:
- Charge Name
- Charge Rate
- Charge Type

DISCOUNT SCHEDULE:
- Name
- Rate

ADDRESS:
- Line 1
- Line 2
- Line 3
- City
- State
- Postal Code
- Country

CUSTOMER:
- Customer ID
- Name
- Bill to Address
- Ship to Address
- Phone
- Fax
- Contact Name

HAULER:
- Name
- Address
- Phone
- Fax
- Contact Name
- Inactive
- Discount Level

CUSTOMER CHARGE:
- Customer #
- Charge #

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OnTrak™

Truck Data Management Software

SPECIFICATIONS

SYSTEM REQUIREMENTS:
- Windows® 2000/XP / VISTA
- 1.5 GHz processor or higher
- 512 (minimum) of RAM
- 100 mb hard drive (minimum)

DATABASES:
- Virtually unlimited size
- Backup and restore via SQL Server Management Studio

COMMUNICATIONS:
- Support for multiple printers
- File Transfer via comma delimited file
- Supports all Rice Lake Indicator Interfaces
- Supports VIRTUi Interface
- Optional Drivers available for non-Rice Lake Weight Indicators

TRANSACTION TICKET:
- Standard Ticket
- Optional Custom Ticket Format

REPORTS:
- Comprehensive Report Filter using any data field
- Optional Custom Reports

EXPORT DATA:
- File Transfer via comma delimited file
- Reports can be transferred electronically

TRANSACTION CALCULATIONS:
- Unlimited Product Prices & Discounts
- Tax Calculations

SOFTWARE SUPPORT:
- Database Configuration, Field Installation, & Training Available
- Phone Support Packages Available
- Contact Rice Lake for further options

PART #	DESCRIPTION	PRICE
104787	OnTrak Activation Code	$1,220.00
101062	OnTrak CD/ROM*	0.00

OnTrak trial at www.ricelake.com/ontrak

OPTIONS/ACCESSORIES

Non-Rice Lake Indicator Interface	195.00
Custom Reports	95.00/hour
Database Configuration	95.00/hour
Field Installation	1,080.00/day plus expenses
104789 Phone support 1 Hour	95.00
104790 Phone support 10 Hours	895.00
104791 Phone support 25 Hours	2,000.00
104792 Phone support 50 Hours	3,500.00
101003 OnTrak Manual	55.00

Windows is a registered trademark of Microsoft Corporation

Novell is a registered trademark of Novell Corporation

Quickbooks is a registered trademark of Intuit Inc.

Peachtree is a registered trademark of Sage Software Inc.

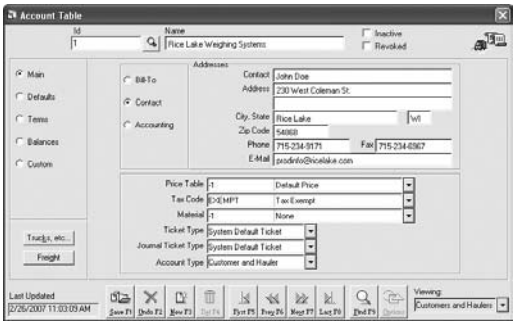
pcANYWHERE is a registered trademark of Symantec Corporation

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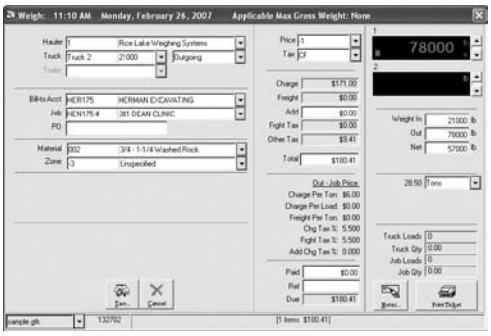
TransAct® LE/TransAct®/TransAct® Plus Truck Data Management Software



APPROVALS



Customer Account Table



Truck/Container Cash Transaction

TRANSACT 5.0 ADDITIONAL FEATURES CONT.

Expanded Tax Structure

- Generate an unlimited list of Tax Authorities (examples: Federal (5%), State (.5%), City (.2%), County (.1%))
- Generate unlimited Tax Codes from the list of Tax Authorities (up to five Tax Authorities can be selected for each Tax Code (examples: Federal + State = 5.5%, Federal + State = 5.7%)
- Detailed Tax reports by each Tax Authority

Updated Accounting Features (TransAct Plus only)

- Invoice processing is separate from Statement processing
- Two invoice options available (open item, balance forward)
- Retained the Rev. 3 combined invoices/statement option (balance forward list ticket)
- Invoice and statement printing options (print summary report, print detailed report)
- Invoice and statement reprinting options (by range of invoice numbers or date) (reprint invoice, reprint summary report, reprint detailed report)

STANDARD FEATURES

TransAct LE/TransAct/TransAct Plus

- Intuitive menu-driven programs
- Ticket editing, voiding, reprinting with the Quickscan utility
- Report to screen, printer or export
- Password protection
- Easy-to-use graphic interface
- Full mouse and keyboard support
- Interfaces to ticket, tape, dot-matrix and laser printers (TransAct LE only)
- Unlimited configurable ticket formats (TransAct LE only)
- Fault-tolerant data recovery to protect from system crashes
- Bar code, magstripe and RFID interface
- Full database backup and purge functions
- Truck "Overweight" warning
- Predetermined, keyboard and automatic tare entry
- Transaction importing/exporting, for long distance transfers in non-networking applications

TransAct/TransAct Plus additional features

- Three configurable tares
- Four configurable categories
- Configurable product rates
- Multiple scale operation
- Multiple transactions per ticket
- Networkable
- Job table for contract purchases
- Full reporting by account, revenue, tonnage, material and transaction (TransAct Plus only)
- Accounts payable and receivable (TransAct Plus only)
- Prints customer invoices and statements with detailed transaction information (TransAct Plus)
- Expandable reporting features (TransAct Plus only)
- Credit weight limits (TransAct Plus only)
- Aging report showing current and extended balance 30, 60, and 90 days (TransAct Plus only)

TransAct 5.0 new features

32-Bit Application

- Faster more reliable Access 2003 database
- Fewer compatibility issues running under Windows XP and future operating systems
- Preemptive multitasking enables greater application performance
- More organized and flexible Weigh Form Stand-Alone Reporting Tool (using Crystal 9.0)
- More report types and more flexible reports
- Reports can be saved in PDF and plain text formats
- Reports can be saved as Excel spreadsheets
- Reports can be saved as comma or tab delimited separated ASCII formats
- Group Tree - Quickly navigate to a specific major sort order section
- Printer Setup button can be used to select a printer other than the default windows printer
- Check box to allow for page breaks between major groupings

Freight

- Individual or Global Hauler Account freight table
- Available Freight charge field for each Job Item - overrides the Hauler Account freight table
- Implementation of Zones and Hauler Payables

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TransAct® LE/TransAct®/TransAct® Plus Truck Data Management Software

SPECIFICATIONS

SYSTEM REQUIREMENTS:
Windows® 2000/XP
500 MHz processor
256 MB (minimum) of RAM
100 mb hard drive (minimum)

DATABASES:
Virtually unlimited with user-definable categories. Automatic journaling with automatic rebuild after crash or power interrupt.

COMMUNICATIONS:
Support for two printers with selectable drivers for most popular printers.

TRANSACTION TICKET:
Configurable weigh-in and weigh-out ticket formats, complete selection of variables and data types.

REPORTS:
Full reporting capabilities by account, vehicle, material, hauler, area, ticket, truck, container, trailer or date.
Ages report 30, 60, 90 days.

EXPORT DATA:
Reports can be exported via tab-delimited file format.
Export/Import function for transferring transaction data in non-networking applications.

TRANSACTION CALCULATIONS:
Definable product rates, charges, taxes, and customer discounts.
Configurable percentage weight reductions for moisture and dockage.

ACCOUNTING:
Full accounting capabilities
- Accounts Payable
- Accounts Receivable
- Balance/Reconciliation

SOFTWARE SUPPORT:
Rice Lake Weighing Systems offers field software support for TransAct LE/TransAct/TransAct Plus. Contact our Service Department for software support. Software support is a chargeable service.

APPROVALS:
NTEP Certified CC# 97-034A1

PART #	DESCRIPTION	PRICE
79079	TransAct LE Version 5.0	$1,350.00
43898	TransAct Version 5.0	3,100.00
98089	Additional seat TransAct 5.0 (must be purchased with original 5.0)	1,250.00
43899	TransAct Plus Version 5.0	6,600.00
98090	Additional seat TransAct Plus 5.0 (must be purchased with original 5.0)	2,500.00
44436	TransAct/TransAct Plus demo*	10.00
79078	TransAct LE demo*	25.00

* TransAct demos can be downloaded from our Web site at www.ricelake.com

OPTIONS/ACCESSORIES

15547	Blunt end, 25-pin D-sub male RS-232 serial interface cable	55.00

Interfaces to: UMC444, UMC555, UMC600, IQ 700, IQ plus® 310A, 355, 390-DC, 510, 590-DC, 710, 800, 810, 520 and 920i

42745	pcANYWHERE® for Windows®, host and remote version	295.00
50270	Additional operating manual	25.00
98091	Upgrade from TransAct LE to TransAct 5.0	2,495.00
98092	Upgrade from TransAct LE to TransAct Plus 5.0	5,495.00
98093	Upgrade from TransAct to TransAct Plus 5.0	3,000.00
98098	Quickbooks® interface for TransAct 5.0	2,500.00
98099	Quickbooks® interface for TransAct Plus 5.0	1,750.00
98101	Peachtree® interface for TransAct 5.0	2,500.00
98102	Peachtree® interface for TransAct Plus 5.0	1,750.00
98103	Two hours configuration installation and training service	280.00
98104	Four hours configuration installation and training service	560.00
98105	Eight hours configuration installation and training service	1,120.00

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Quickbooks is a registered trademark of Intuit Inc.
Peachtree is a registered trademark of Sage Software Inc.
pcANYWHERE is a registered trademark of Symantec Corporation

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CRS-Certificate Retrieval System

Version 3



Internet Explorer™ 6.0®

STANDARD FEATURES

- Web and PDA-based application
- Paperless storage of weighing system and measurement instrument calibration data
- Secure on-line asset maintenance history
- Improved ISO/IEC 17025 conformity
- Maintenance traceability
- Tracks asset location within a facility
- Provides documented inventory of customer assets
- Eliminates unnecessary calibrations
- Ensures all appropriate scales are calibrated
- Identifies product replacement opportunities
- Provides consistency of calibration procedures
- Provides traceability of service procedures
- Reduces service technicians' calibration time by 33%
- Flexible program enables dealer to meet customer needs
- Modules available for lab balances, industrial, truck and rail scales
- Reduces technician training time and expense

SPECIFICATIONS

WEB SYSTEM REQUIREMENTS - ADMINISTRATOR
Internet Explorer® 6.0 or higher

SYSTEM REQUIREMENTS - END USER
Any internet connection

SYSTEM REQUIREMENTS - PDA
Windows® Mobile 2005™ with Intel® Xscale® processor with 64 MB of RAM (recommended).

PDA RECOMMENDATION
Recommended PDAs include the iPAQ 111 by Hewlett-Packard, Consult factory for PDA compatibility.

Windows is a registered trademark of Microsoft Corporation
Internet Explorer is a trademark of Microsoft Corporation
Intel and Xscale are registered trademarks of Intel Corporation

LARGE SHOP CRS* (MULTI-LOCATION - 5+ TECHNICIANS):

PART #	PRODUCT	DESCRIPTION	PRICE	ANNUAL PART #	ANNUAL RENEWAL
88269	CRS - Universal Program*	For both industrial and heavy duty scales	$9,400.00	88273	$2,200.00
	PocketCRS	PDA license (1 PDA)	400.00		N/A
	PocketCRS	Additional PDA licenses	110.00/PDA		N/A
	Calibration forms	Additional forms	220.00/each		N/A

* In multiple location opportunities, the CRS price listed is appropriate for every two locations.

SMALL SHOP CRS (FOR 1 - 4 TECHNICIANS):

PART #	PRODUCT	DESCRIPTION	PRICE	ANNUAL PART #	ANNUAL RENEWAL
88277	CRS - Universal Program	For both industrial and heavy duty scales	$6,100.00	88281	$2,000.00
	PocketCRS	PDA license (1 PDA)	400.00		N/A
	PocketCRS	Additional PDA licenses	110.00/PDA		N/A
	Calibration forms	Additional forms	220.00/each		N/A

TRACER®



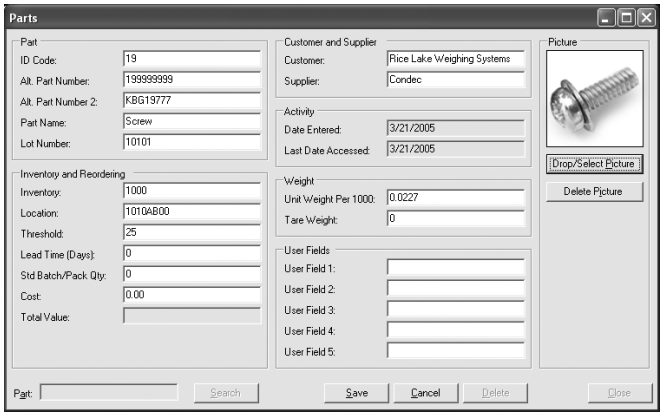
SPECIFICATIONS

In the United States, the ability to trace any ingredient from its origin, through each step in the manufacturing process, to its final destination is a necessity as mandated by Section 306 of the Bioterrorism Preparedness Act of 2002. The Tracer® Solution complies with this Act by electronically capturing data so that producers can keep detailed records on the origin and destination of each individual ingredient. The Tracer Solution also improves accuracy, product quality and reduces costs by ensuring that every recipe is weighed within desired tolerance and no ingredient is omitted.

Due to the variety of site configurations, please consult factory to discuss application requirements and to schedule a confidential site evaluation.

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Inventory Management Software (IMS)



STANDARD FEATURES

- Single database
- PC-based communications database
- Unlimited number of inventory items
- Monitor positive and negative inventory transactions
- Maintains perpetual balance of inventory
- Fast response time (even with multiple scales attached)
- Includes ID code, alternate part number, alternate part number Two, part name, lot number, inventory on hand, location, threshold, lead time, STD batch/pack quantity, cost, total value, customer, supplier, date entered, last date accessed, unit weight/1000, tare weight, user fields 1-5, picture of part
- Reports include supplier, customer report, long part report, short part report
- Custom report designer
- Files easily transferred to PC-based database applications
- Includes field for bitmap picture or drawing of part
- Can use serial or Ethernet connectivity*
- Includes import, export, backup, and restore capabilities for database

* Requires thin client server or WI-Box Ethernet (or similar product) option for each scale

COMPUTER REQUIREMENTS

OPERATING SYSTEM:
Windows® 98™/NT™/2000™/XP™

COMPATIBILITY:
Any PC that meets minimum system requirements of above operating system

RAM:
128 MB of RAM, 256 MB recommended

HARD DISK SPACE:
110 MB of hard disk space required, 40 MB additional hard disk space required for installation (150 MB total)

VIDEO ADAPTER:
Super VGA or higher resolution (256 color)

HARDWARE:
CD-ROM drive, Microsoft mouse or compatible pointing device
Windows compatible printer installed. Requires dedicated server.

SCALE:
DC-190 or DC-200/300, DC-150

Windows is a registered trademark of Microsoft Corporation

PART#	DESCRIPTION	PRICE
79588	Demo software or download from www.ricelake.com, includes manual on CD	N/C
80837	Inventory Management Software – single and multiple IMS scale, activation number Requirement to activate: - Software on PC - PC machine ID - E-mail address to send activation code	$695.00

OPTIONS/ACCESSORIES

79683	Additional installation manual	10.00
87086	Lantronic Wi Box*	695.00
65383	Ethernet thin server*	395.00
Cables		
85821	8-pin DIN to DB9 female, DC-190 or DC-200/300, RS-232 to PC, 5 ft	55.00
85820	8-pin DIN to DB25 M, DC-190 or DC-200/300 to thin Ethernet server, 5 ft	55.00
88633	DB9 female to DB9 male, DC-190, RS-232 to PC, 5 ft	55.00
78860	Ethernet cross-over cable (direct connection), 5 ft	35.00

*Ethernet connections will require other hardware to complete system not provided by Rice Lake.

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TekLynx® LabelView™ Pro/Gold

Bar Code Label Software



STANDARD FEATURES

LABELVIEW PRO:

- True Type fonts easily added
- Supports color PCX, BMP, TIFF, JPEG, GIF and TGA graphical formats
- Generate serial numbers
- Date and time stamps
- Paragraph feature
- Database merge
- Print over 25 bar codes for virtually any industry
- Password security
- Use data from any ODBC data format including Access™, Excel™, Lotus™, and ASCII
- Open label preview
- Preview pictures
- Database editor
- Batch printing

LabelView Gold has all the above features, plus:

- Third-party integration using DDE, Command file, Datawatch and ComWatch
- Audit reporting
- Scale can be connected through Command File

SPECIFICATIONS

SYSTEM REQUIREMENTS:
IBM compatible, eight megabytes of RAM 10 megabytes of hard disk space, one parallel and serial port

For Windows 98SE, Me, NT 4.0, 2000, XP or Windows Service 2003.

GRAPHICS:
Supports color, PCX, BMP, TIFF, JPEG, GIF & TGA graphical formats. Scale to any size, rotate in four directions

DATABASE MERGE:
Batch printing; print all records in a database, a range of records, or a single record; sort on any field in a database, database picture, and/or paragraph files

DATABASE MANAGER:
Create/modify databases, (field types) (character, numeric, date, logical, memo) search for records, index on any field, import/export to ASCII or DBF, DBASE III, IV compatible, edit ODBC Data

TEXT:
Print True Type fonts on any supported printer, rotate in four directions, reverse printing (white on black), increment/decrement, justification (left, right, center) move, copy, delete groups of fields, non-printing fields.
Multiple data sources: fixed, print-time entry, database merge, serial numbers, date stamp, sell-by-date, time stamp, linked/copied from other fields

BAR CODES:
Set bar width ratio, rotate in four directions.
Multiple data sources: fixed, print-time entry, database merge, serial numbers, linked/copied from other fields

LabelView supports any laser and dot-matrix Windows® printer driver.

Windows is a registered trademark of Microsoft Corporation

SYMBOLOGIES:
UPC-A
UPC-E, UPC +2 and +5
EAN-8, EAN-13
Code 39, Code 39 mod 43
Code 93 Codabar
Int. 2 of 5, Int. 2 of 5 mod 10
Code 128-A, B, C
UCC 128, EAN 128
Postnet

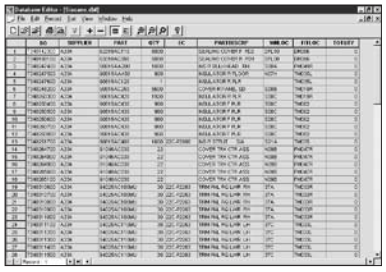
2-D SYMBOLOGIES:
PDF 417
Maxicode
Data-Matrix

PASSWORDS:
User names, user passwords
Rights: design labels, print labels, modify serial numbers, use database editor, use text editor, modify label inventory

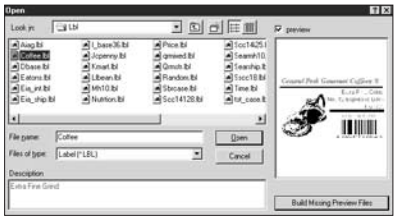
LABEL INVENTORY CONTROL:
Tracks quantity on-hand
Definable re-order points
Low stock level warning messages

LANGUAGES:
English, French, Spanish, Italian, German, Dutch, Chinese, Korean, and Portuguese.
User translatable.

SUPPORTED PRINTERS:
Drivers to support most label printers and any printer with a Windows driver.
See Datamax and Eltron label printers.



Database editor



Open label preview



Compliance label sample

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TekLynx® LabelView™ Pro/Gold

Bar Code Label Software

LABELVIEW PRO

PART#	DESCRIPTION	PRICE
43900	LabelView Pro for Windows®, parallel security key	$549.00
93062	LabelView Pro for Windows, USB security key	549.00
97370	LabelView Pro for Windows, keyless activation	499.00

LABELVIEW GOLD

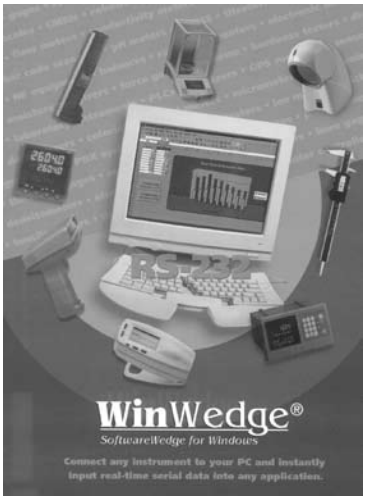
PART#	DESCRIPTION	PRICE
43905	LabelView Gold for Windows, parallel security key	$1,049.00
92040	LabelView Gold for Windows, USB security key	1,049.00
97371	LabelView Gold for Windows, keyless activation	999.00

Windows is a registered trademark of Microsoft Corporation

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WinWedge® TAL Software

Bar Code Label Software



STANDARD FEATURES

- Input scale or instrument data directly into Excel™, Access™, statistical software, LIMS, MMIs, any Windows® application
- Transfers RS-232 data quickly, accurately and formatted to your exact specifications
- Powerful DDE options for collecting data from multiple devices simultaneously
- Extremely easy to set-up and use

32 PRO, TCP/WEDGE ADDITIONAL FEATURES:

- Support for even the most complex devices and serial I/O with advanced data parsing, filtering, formatting and translation
- Support for TCP/IP as well as RS-232 data collection and I/O
- More advanced device control options
- Additional features such as math functions and virtual instrument mode
- Five RS-232 and TCP/IP communications software products provided free of charge

SPECIFICATIONS

SYSTEM REQUIREMENTS:

Any version of Windows®
Any Windows PC
4 MB of RAM
2 MB of hard disk space

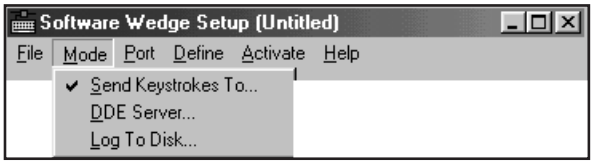
COMMUNICATIONS:

WinWedge can collect data on any serial port (RS-232 or RS-485) and even on multiple ports simultaneously. Also supports full device control.

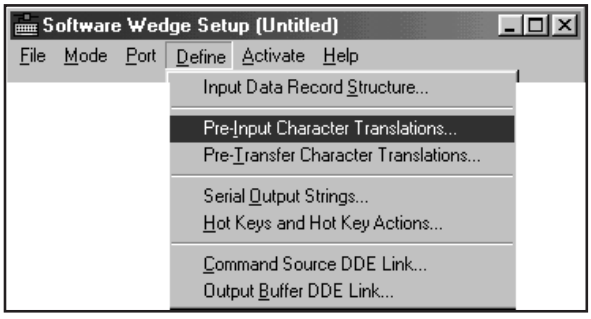
SOFTWARE SUPPORT:

Rice Lake Weighing Systems offers field software support for our software packages. Contact our Service Department for software support. Software support is a chargeable service.

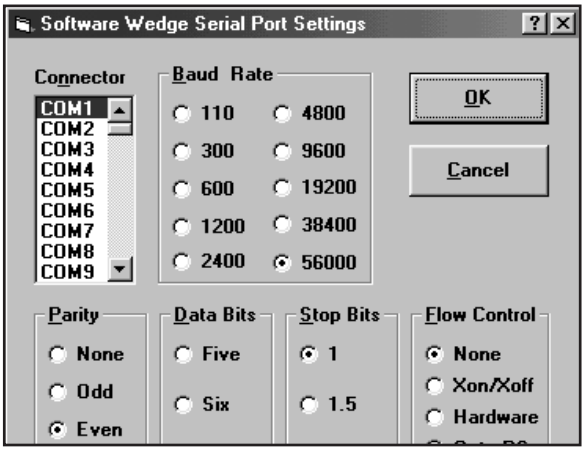
1. SELECT HOW YOU WANT THE DATA COLLECTED:



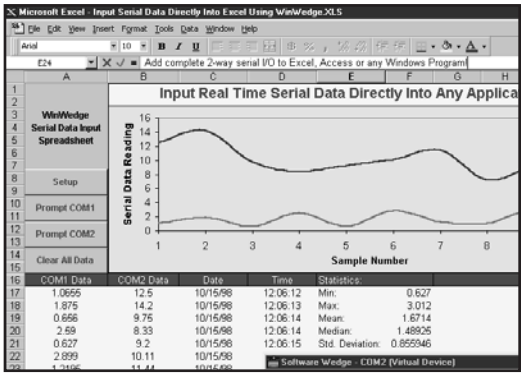
2. CHOOSE THE COMMUNICATION PARAMETERS FOR YOUR SERIAL DEVICE:



3. DEFINE HOW YOU WANT THE SERIAL DATA TO BE PARSED, FILTERED, AND TRANSLATED:



4. ACTIVATE WINWEDGE AND WATCH YOUR SERIAL DATA "POP" INTO YOUR APPLICATION:



PART#	DESCRIPTION	PRICE
75351	WinWedge® TAL software, 32 Std	$325.00
72304	WinWedge® TAL software, 32 Pro, TCP/Wedge	545.00

Windows is a registered trademark of Microsoft Corporation

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Metric Sets

- 500 mg **TW-48**
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- 200 g **TW-58**
- 300 g and 500 g **TW-62**
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- 50 lb through 2 lb **TW-74**

Precision Laboratory (OIML)

Metric Individual Weights and Kits **TW-76**

Metric Sets

- 100 g, 50 g and 500 mg ... **TW-80**
- 200 g and (2) 200 g **TW-82**
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Weight Specifications and Calibration Program

Rice Lake Weighing Systems is proud to have its mass calibration laboratory awarded the NIST/NVLAP recognition of excellence. Its metrology staff has participated in basic, intermediate and advanced NIST/OWM training seminars, regional metrology groups such as MidMap, and round-robin metrology programs with state labs.

Rice Lake's calibration lab has direct traceability to NIST.

WEIGHTS:



Rice Lake offers cast iron weights and three (3) different designs of stainless steel weights. Due to varying configurations, the actual appearance of your product may be slightly different than shown on the catalog page. Serial numbers are available for an additional charge of $15.00 each when ordered without laboratory documentation. Individual leaf weights should be ordered with protective vial (individual leaf weights are for custom-designed kits)

Cast iron weights are painted weights with adjusting cavity for sealing. Weight capacities of 10kg/20lb and up meet NIST Handbook 105-1 & Handbook 44 specifications. Applications where cast iron weights are used include field standards for testing industrial devices. The classes are as follows: NIST Class F, ASTM Class 6 & 7 OIML Class M1 & M2.



Stainless steel weights are available as Electronic Balance, Grip-Handle, Precision (screw-knob design) or OIML Precision (One-piece design).

Electronic Balance weights are Type II design feature a sealing cavity for adjusting material in 100g or larger weights. The density is approximately 7.84g/cm3. Finish for Class 1 and OIML F1, F2 are polished. ASTM Class 2-4 are satin. NIST Class F weights are manufactured to the specifications of NIST HB-105-1. ASTM Class 0-7 are manufactured in accordance with ASTM E 617-97 specification and tolerances. Applications are as follows: calibrating Class I & II balances or ASTM Class 4, 5 and 6 weights.

Precision weights (screw-knob design) are Type II design with sealing cavity for adjusting material. The density is approximately 7.95g/cm3. ASTM classes 1-4 have a polished finish. Applications include: calibrating Class I & II balances and ASTM Class 4, 5 and 6 weights, student laboratory use, and rough weighing operations: i.e., force.

Precision laboratory weights are a Type 1, one-piece construction with no added adjusting material.



The density is approximately 7.95g/cm3. ASTM Class 0 and OIML E2, F1, F2 have a polished finish. OIML M1 and M2 have a satin finish.

ASTM Class 0 weight sets and individual weights are not individually marked with their weight value and cannot be individually serialized per ASTM E 617-97. ASTM Class 0, E2, F1, F2 and M1 weights include their own protective case.

OIML weights are manufactured to the specifications of the International Recommendation, OIML R 111, 1994 Edition. Applications include: weights used as standards, density measurement, and OIML guidelines.

Aluminum weights are used for denominations of 5mg to 1mg OIML design.

WEIGHT SETS:

Rice Lake offers many configurations for their weight sets. Class F weights have many set configurations to assist in calibration of scales; higher accuracy sets are available in 5-2-2-1 and 5-3-2-1. A standard set would be as follows:

5-2-2-1 – (1) 50g, (2) 20g, and (1) 10g

5-3-2-1 – (1) 50g, (1) 30g, (1) 20g, and (1) 10g

Custom sets are available as build to order to meet your specific requirements.

Each weight set consists of the weights, case and/or small weight case (as appropriate), and appropriate lifting design consisting of one or more lifter, tweezers, and white cotton gloves.

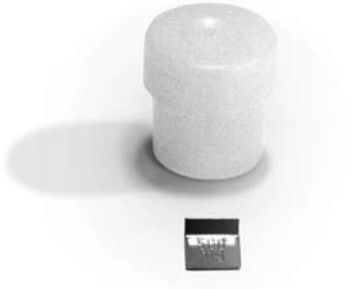
OIML and ASTM weights sets larger than 500g or 1lb include a hardwood case with velvet-lined pockets. Weigh sets with the largest weight of 500g include a precision-machined polyvinyl, crush resistant case.

Serial numbers are not stamped on polished weights or milligram weights.

The correct class weight for applications is dependent on the use. Weights should be more accurate than the precision of the weighing device and it is recommended that a weight has an accuracy of one-third (1/3) of the weighing device readability.

WEIGHTS KITS:

All cylindrical ASTM kits (excluding grip handle weights) include their own protective case and glove set for safe handling.





CALIBRATION CERTIFICATES

Rice Lake offers several different calibration certificates including the Total Measure Assurance Program (TMAP) certification.

TMAP Calibration Certification for weight classes ASTM 0-3, OIML E2, FI and F2.

The calibration is performed per NIST Mass Dissemination. Meets ISO/IEC 17025 certification. For ASTM Class 1-3 & OIML F1 & F2 SOP 5, 3 in 1 weighing design and SOP 28 Advanced weighing designs.

TMAP Traceable Calibration Certificate meets requirements of ISO/IEC 17025 for ASTM 4-7, NIST F, OIML M1, M2, and M3. The calibration is performed per SOP 8 (following Rice Lake Work Instruction WI05-0023)

RLWS Mass Value Certificate is not an accredited certificate, as found, as left data with environmental conditions reported. Uncertainty to Tolerance of 3:1 is not guaranteed for weight classes ASTM 1-3, OIML F1, and F2. SOP 8 (following Rice Lake Work Instruction WI05-0023). Additional time may be required for ASTM Class 0 weight certification.

Serial numbers are included in the cost of all certificates with the exception of the Certificate of Accuracy. Certificates are included in the box with the weights at time of shipment. Replacement documentation is a fee of $50.00 plus shipping.

CAST IRON

CAST IRON

Grip-handle and Nesting Slab Weights



Avoirdupois

NIST CLASS F

Weight	Part #	Dimensions	Slot Width	Slot Depth*	List Price	Traceable Certificate
3000 lb	**12872**	20 3/4" W x 20 3/4" L x 29" H	3 1/2"	2 3/4"	$8,100.00	$300.00
2500 lb	**12854**	20 3/4" W x 20 1/4" L x 24 1/4" H	3 1/2"	2 3/4"	$7,500.00	$225.00
2000 lb	**12868**	20 3/4" W x 20 3/4" L x 19 1/2" H	3 1/2"	2 3/4"	$6,400.00	$225.00
1500 lb	**12864**	15 1/8" W x 15 1/8" L x 23 7/8" H	2 1/2"	2 1/2"	$5,765.00	$225.00
1250 lb	**12858**	15" W x 15 1/8" L x 23 7/8" H	2 1/2"	2 1/2"	$4,800.00	$225.00
1000 lb	**12850**	15" W x 15 1/2" L x 19" H	2 1/2"	2 1/2"	$2,375.00	$225.00
500 lb	**12844**	11 1/2" W x 11 3/4" L x 16" H	2 1/2"	1 3/4"	$1,445.00	$225.00
250 lb	**12892**	9 3/4" W x 9 3/4" L x 12" H	2 1/2"	2"	$1,320.00	$225.00
200 lb	**12890**	9 3/4" W x 9 3/4" L x 10" H	2 1/2"	2"	$1,150.00	$225.00
100 lb	**12862**	9 1/4" W x 7" L x 7 3/4" H	4 1/2"	1 5/8"	$510.00	$100.00
50 lb	**12839**	7 7/8" W x 5 1/2" L x 6 9/16" H	4 1/2"	1 5/8"	$120.00	$75.00
30 lb	**12878**	8 1/4" W x 4 15/16" L x 4 1/2" H	Consult Factory	Consult Factory	$115.00	$75.00
25 lb	**12833**	6 1/2" W x 4 1/2" L x 4 15/16" H	3 5/8"	1"	$105.00	$75.00
20 lb	**12870**	5 7/8" W x 4 1/2" L x 5" H	3 5/8"	1 1/8"	$85.00	$75.00

ASTM CLASS 7

Weight	Part #	Dimensions	List Price	Traceable Certificate
10 lb	**12828**	5" W x 3 1/4" L x 3 31/32" H	$70.00	$75.00
5 lb	**12823**	4" W x 2 9/16" L x 3. 13/64" H	$50.00	$75.00
2 lb	**12874**	3" W x 2 1/8" L x 1.3/4" H	$48.00	$60.00
1 lb	**12876**	2 1/2" W x 1 11/16" L x 1 3/8" H	$44.00	$60.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
36092	Certificate of Accuracy	$45.00

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CAST IRON

CAST IRON

Grip-handle and Nesting Slab Weights



Metric



Avoirdupois

NIST CLASS F

Weight	Part #	Dimensions	Slot Width	Slot Depth*	List Price	Traceable Certificate
1000 kg	**12801**	20 1/2" W x 20 1/2" L x 22" H	3 1/2"	2 3/4"	$6,400.00	$300.00
500 kg	**12797**	15 1/8" W x 15 1/8" L x 20 3/4" H	2 1/2"	2"	$2,800.00	$225.00
250 kg	**12782**	11 3/4" W x 12 1/2" L x 17 1/2" H	2 1/2"	2"	$1,550.00	$225.00
200 kg	**12793**	11 1/2" W x 12" L x 14 1/4" H	2 1/2"	1 7/8"	$1,330.00	$225.00
100 kg	**12817**	9 7/8" W x 9 7/8" L x 11" H	2 1/2"	2"	$1,200.00	$225.00
50 kg	**12803**	9 1/4" W x 7" L x 8 3/8" H	4 1/2"	1 5/8"	$525.00	$125.00
35 kg	**12805**	7 7/8" W x 5 9/16" L x 9 1/8" H	4 1/4"	3 5/8"	$350.00	$125.00
25 kg	**12775**	7 7/8" W x 5 9/16" L x 9 1/8" H	4 1/2"	1 3/4"	$145.00	$70.00
20 kg	**12771**	7 3/4" W x 5 5/8" L x 5 7/8" H	4 1/2"	1 1/2"	$110.00	$70.00
10 kg	**12767**	6 1/8" W x 4 9/16" L x 5" H	3 5/8"	1"	$85.00	$70.00

ASTM CLASS 7

Weight	Part #	Dimensions	Slot Width	Slot Depth*	List Price	Traceable Certificate
5 kg	**12786**	5 7/16" W x3 1/4"L x 3 15/16 H	-	-	$70.00	$70.00
2 kg	**12809**	4 1/16" W x 2 5/8" L x 2 11/16" H	-	-	$50.00	$70.00
1 kg	**12813**	3 1/16" W x 2 1/8" L x 1 3/4" H	-	-	$48.00	$70.00
500 g	**12815**	2 9/16" W x 1 5/8" L x 1 7/16" H	-	-	$44.00	$70.00

OIML CLASS M1

Weight	Part #	Dimensions	Slot Width	Slot Depth*	List Price	Traceable Certificate
50 kg	**105417**	9 1/4" W x 7"L x 8 3/8 H	4 1/2"	1 5/8"	$575.00	$125.00
20 kg	**105416**	7 3/4" W x 5 5/8" L x 5 7/8" H	4 1/2"	1 1/2"	$150.00	$70.00
10 kg	**105415**	6 1/8" W x 4 9/16" L x 5" H	3 5/8"	1"	$100.00	$70.00
5 kg	**105414**	5 7/16" W x 3 1/4" L x 3 15/16" H	-	-	$85.00	$70.00

NIST CLASS F

Weight	Part #	Dimensions	Slot Width	Slot Depth*	List Price	Traceable Certificate
2500 lb	**12860**	42" W x 30" L x 8 1/4" H	2"	2 1/4"	$7,500.00	$225.00
1000 lb	**34563**	29 1/2" W x 19 1/2" L x 7 1/4" H	2"	2 1/4"	$3,750.00	$225.00

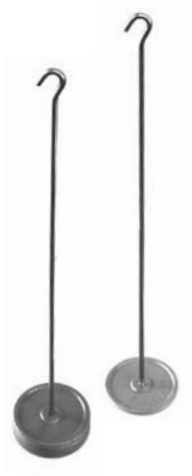
Additional Accessories

PART #	DESCRIPTION	LIST PRICE
36092	Certificate of Accuracy	$45.00

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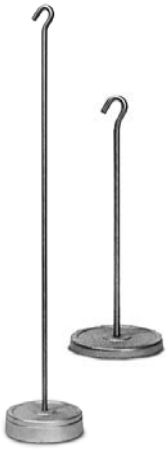
CAST IRON

Slotted Interlocking, Counterpoise and Hanger Weights





Avoirdupois





Metric

ASTM CLASS 7

Weight	Part #	Slot Width (mm)	Diameter (mm)	Height (mm)	List Price	Traceable Certificate
100 lb	**40828**	1" (25.4)	17" (431.8)	1 15/16" (23.8)	$556.00	$100.00
50 lb	**12856**	9/16" (14.3)	10 1/2" (266.7)	2 1/2" (63.5)	$186.00	$75.00
20 lb	**12831**	3/4" (19.1)	8 1/8" (206.4)	1 7/8" (47.6)	$89.00	$75.00
10 lb	**12826**	3/4" (19.1)	6 1/8" (155.6)	1 9/16" (39.7)	$75.00	$75.00
5 lb	**12852**	9/16" (14.3)	5 1/8" (130.2)	1 1/4" (31.8)	$62.00	$75.00
2 lb	**12848**	9/16" (14.3)	5" (127.0)	3/4" (19.1)	$51.00	$60.00
1 lb	**12842**	9/16" (14.3)	5" (127.0)	7/16" (11.1)	$48.00	$60.00
1/2 lb	**12837**	9/16" (14.3)	3 3/4" (95.3)	7/16" (11.1)	$37.00	$35.00

ASTM CLASS 7

Weight	Capacity	Part #	Total Length (mm)	Operational Length (mm)	Diameter (mm)	List Price	Traceable Certificate
1 lb	200 lb	**12825**	9.31" (241.3)	8" (203.2)	3.75" (93.7)	$85.00	$60.00
1 lb	200 lb	**12830**	21.88" (558.8)	20 5/16" (515.9)	3.75" (93.7)	$100.00	$60.00
2 lb	200 lb	**12835**	10 1/4" (260.4)	8" (203.2)	3.75" (93.7)	$115.00	$60.00
2 lb	200 lb	**12841**	21 3/8" (542.9)	19" (482.6)	3.75" (93.7)	$120.00	$60.00
5 lb	500 lb	**12846**	37 1/4" (946.2)	35" (889.0)	5" (127.0)	$235.00	$75.00

ASTM CLASS 7

Weight	Part #	Slot Width (mm)	Diameter (mm)	Height (mm)	List Price	Traceable Certificate
20 kg	**12819**	9/16" (14.3)	10 13/32" (264.3)	2 5/16" (58.7)	$199.00	$70.00
10 kg	**12811**	3/4" (19.1)	8 3/16" (207.9)	2" (50.8)	$110.00	$70.00
5 kg	**12807**	3/4" (19.1)	5 5/32" (156.4)	1 25/32" (45.2)	$85.00	$70.00
2 kg	**12799**	9/16" (14.3)	5 1/8" (130.2)	1 5/32" (29.4)	$60.00	$70.00
1 kg	**12795**	9/16" (14.3)	5 1/16" (128.6)	3/4" (19.1)	$51.00	$50.00
500 g	**12791**	9/16" (14.3)	5" (127.0)	1/2" (12.7)	$49.00	$50.00
200 g	**12780**	9/16" (14.3)	3 3/4" (95.3)	5/16" (7.9)	$38.00	$50.00

ASTM CLASS 7

Weight	Capacity	Part #	Total Length (mm)	Operational Length (mm)	Diameter (mm)	List Price	Traceable Certificate
500 g	100 kg	**12769**	9 1/2" (241.3)	8" (203.2)	3 11/16" (93.7)	$95.00	$50.00
500 g	100 kg	**12773**	22" (558.8)	20 5/16" (515.6)	3 11/16" (93.7)	$100.00	$50.00
1 kg	100 kg	**12777**	10 1/4" (260.4)	8" (203.2)	3 11/16" (93.7)	$115.00	$50.00
1 kg	100 kg	**12784**	21 3/8" (542.9)	19" (482.6)	3 11/16" (93.7)	$121.00	$50.00
2 kg	250 kg	**12788**	37 1/4" (946.2)	35" (889.0)	5" (127.0)	$235.00	$70.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
36092	Certificate of Accuracy	$45.00

RICE LAKE WEIGHING SYSTEMS

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CAST IRON

CAST IRON

Slotted Interlocking, Counterpoise and Hanger Weights



Fairbanks Round Individual and Hanger



Fairbanks Hexagon Individual and Hanger

ASTM CLASS 7

Ratio	Weight	Part #	Diameter (MM)	Fairbanks Part #	List Price
1 lb - 100 lb	50 lb x 1/2 lb	**10154**	2 29/32" (73.8)	PA48	$27.00
1 lb - 100 lb	100 lb x 1 lb	**10156**	4 3/32" (104.0)	PA32	$29.00
1 lb - 100 lb	200 lb x 2 lb	**10158**	4 5/32" (105.6)	PA21	$30.00
1 lb - 100 lb	500 lb x 5 lb	**10160**	3 29/32" (99.2)	PB52	$32.00
1/2 lb - 100 lb	100 lb x 1/2 lb	**10152**	2 29/32" (73.8)	PBC32	$27.00
1/2 lb - 100 lb	200 lb x 1 lb	**10168**	3 17/32" (89.7)	PBC21	$32.00
1/2 lb - 100 lb	300 lb x 1 1/2 lb	**10189**	3 17/32" (89.7)	-	$29.00
1/2 lb - 100 lb	500 lb x 2 1/2 lb	**10170**	3 17/32" (89.7)	PBC52	$32.00
1/2 lb - 100 lb	1000 lb x 5 lb	**10196**	3 29/32" (99.2)	-	$55.00

ASTM CLASS 7

Approx. Weight	Part #	Diameter (MM)	Height (MM)	List Price
Round				
7 oz	**10188**	3 31/32" (100.8)	6 5/16" (160.3)	$58.00
10 oz (Fairbanks only)	**10184**	3 31/32" (100.8)	6 5/16" (160.3)	$58.00
12 oz	**10185**	3 31/32" (100.8)	6 5/16" (160.3)	$58.00
17 oz	**10186**	3 31/32" (100.8)	6 5/16" (160.3)	$58.00
21 oz	**10187**	3 31/32" (100.8)	6 5/16" (160.3)	$58.00
Square				
21 oz	**10193**	-	8" (203.2)	$58.00

ASTM CLASS 7

Weight	Part #	Diameter (MM)	List Price
10 kg x 100 g	**10266**	2 1/16" (52.4)	$30.00
25 kg x 250 g	**10268**	3 1/4" (82.6)	$31.00
50 kg x 500 g	**10270**	4" (101.6)	$32.00
100 kg x 1 kg	**10272**	4" (101.6)	$40.00
200 kg x 2 kg	**10274**	4 1/32" (102.4)	$45.00

ASTM CLASS 7

Ratio	Weight	Part #	Diameter (MM)	Fairbanks Part #	List Price
1 lb - 100 lb	50 lb x 1/2 lb	**10191**	2 3/8" (60.3)	1A2349	$29.00
1 lb - 100 lb	100 lb x 1 lb	**10162**	3 7/16" (87.3)	1A1469	$29.00
1 lb - 100 lb	200 lb x 2 lb	**10164**	3 13/32" (86.5)	1A1470	$30.00
1 lb - 100 lb	500 lb x 5 lb	**10166**	3 9/16" (90.5)	1A1471	$45.00

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CAST IRON

Avoirdupois

Counterpoise and Hanger Weights



Howe Round Individual and Hangers



Toledo Triangle Individual and Hangers

ASTM CLASS 7

Ratio	Weight	Part #	Diameter (mm)	Howe Part #	List Price
-	50 lb x 1/2 lb	**10367**	2 31/32" (75.4)	42071831	$40.00
-	100 lb x 1 lb	**10369**	2 31/32" (75.4)	42076188	$40.00
-	200 lb x 2 lb	**10371**	2 31/32" (75.4)	42076189	$40.00
-	300 lb x 3 lb	**10373**	3 3/32" (78.6)	42076190	$40.00
-	500 lb x 5 lb	**10385**	3 7/32" (81.7)	42078947	$40.00
For Counting Scales					
99 - 1	100 lb x 1 1/99 lb	**10387**	3" (76.2)	40810545	$40.00
99 - 1	200 lb x 2 2/99 lb	**10389**	3" (76.2)	40810546	$40.00
99 - 1	500 lb x 5 5/99 lb	**10391**	3 3/126" (76.8)	42111567	$40.00
8 - 1	10 lb x 1 1/4 lb	**10427**	2 15/16" (74.6)	-	$40.00
8 -1	5 lb x 5/8 lb	**10425**	2 15/16" (74.6)	-	$40.00
8 - 1	2 lb x 1/4 lb	**10411**	2 7/32" (56.4)	-	$40.00
50 - 1	80 lb x 1 3/5 lb	**10421**	3" (76.2)	-	$40.00
50 - 1	40 lb x 4/5 lb	**10419**	2 7/8" (54.4)	-	$40.00
50 - 1	20 lb x 2/5 lb	**10417**	2 31/32" (75.4)	-	$40.00
50 - 1	10 lb x 1/5 lb	**10415**	2" (50.8)	-	$40.00
50 - 1	5 lb x 1/10 lb	**10413**	1 1/2" (38.1)	-	$40.00
64 - 1	100 lb x 1 9/16 lb or 25 oz	**10409**	3 1/16" (77.8)	42111417	$40.00
61 - 1	50 lb x 28/32 lb or 12 1/2 oz	**10407**	2 15/16" (74.6)	40807082	$40.00
64 - 1	25 lb x 25/64 lb or 6 1/4 oz	**10405**	2 31/32" (75.4)	40807092	$40.00
64 -1	10 lb x 5/32 lb or 2 1/2 oz	**10404**	1 1/2" (38.1)	42111454	$40.00

ASTM CLASS 7

Approx. Weight	Part #	Diameter (mm)	Height (mm)	List Price
7 oz	**10382**	2 31/32" (75.4)	8 3/8" (212.7)	$58.00
10 oz	**10379**	2 31/32" (75.4)	8 3/8" (212.7)	$58.00
12 oz	**10380**	2 31/32" (75.4)	8 3/8" (212.7)	$58.00
16 oz	**10381**	2 31/32" (75.4)	8 3/8 (212.7)	$58.00

ASTM CLASS 7

Approx. Weight	Part #	Toledo Part #	List Price
100 lb x 1 lb	**11417**	49868	$30.00
200 lb x 2 lb	**11419**	49869	$32.00
500 lb x 5 lb	**11421**	49870	$45.00

ASTM CLASS 7

Approx. Weight	Part #	Height (mm)	Toledo Part #	List Price
14 oz	**11423**	6 5/16" (160.3)	49857	$58.00

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Notes

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RICE LAKE® WEIGHING SYSTEMS

STAINLESS STEEL

Metric Individual Weights



Grip-handle



Cylindrical



Leaf

CLASS F

Weight	Part #	Height	Diameter	List Price	Traceable Certificate
30 kg	**12572**	9 3/16" (233.3)	6" (152.4)	$950.00	$75.00
25 kg	**12571**	7 3/16" (182.5)	6" (152.4)	$750.00	$70.00
20 kg	**12569**	6 7/16" (163.5)	6" (152.4)	$650.00	$70.00
10 kg	**12567**	5 3/16" (131.7)	5" (127.0)	$460.00	$70.00
8 kg	**12565**	4 7/16" (112.7)	5" (127.0)	$425.00	$70.00
5 kg	**12564**	3 1/4" (82.5)	5" (127.0)	$250.00	$70.00

CLASS F

Weight	Part #	Height (mm)	Diameter (mm)	List Price	Traceable Certificate
5 kg	**12521**	4 3/8" (111.0)	3 1/2" (88.1)	$185.00	$70.00
4 kg	**12519**	3 3/16" (96.7)	3 3/8" (85.0)	$172.00	$70.00
3 kg	**12517**	3 3/4" (93.7)	3" (75.6)	$155.00	$70.00
2 kg	**12515**	3 5/16" (83.7)	2 5/8" (66.2)	$110.00	$70.00
1 kg	**12513**	2 11/16" (68.2)	2" (50.4)	$65.00	$50.00
500 g	**12511**	2 1/8" (53.8)	1 5/8" (40.9)	$58.00	$50.00
400 g	**12531**	2 1/16" (51.2)	1 1/2" (37.7)	$54.00	$50.00
300 g	**12529**	1 13/16" (45.9)	1 3/8" (34.5)	$52.00	$50.00
200 g	**12509**	1 5/8" (41.4)	1 3/16" (29.8)	$45.00	$50.00
150 g	**12549**	1 3/8" (33.0)	1 3/16" (29.8)	$40.00	$50.00
100 g	**12507**	1 1/4" (31.2)	1" (25.0)	$38.00	$35.00
50 g	**12527**	1" (24.0)	3/4" (18.7)	$35.00	$35.00
30 g	**12525**	11/16" (16.7)	11/16" (17.4)	$32.00	$35.00
20 g	**12523**	5/8" (15.6)	9/16" (14.8)	$32.00	$35.00
10 g	**12505**	5/8" (15.0)	7/16" (10.7)	$32.00	$35.00
5 g	**12503**	7/16" (10.3)	3/8" (9.1)	$28.00	$35.00
3 g	**12533**	3/8" (9.3)	5/16" (7.5)	$28.00	$35.00
2 g	**12501**	5/16" (7.2)	5/16" (7.1)	$28.00	$35.00
1 g	**12499**	1/4" (5.9)	1/4" (5.5)	$28.00	$35.00

OPTIONAL CASES

Part #	List Price
11462	$39.00
11463	$39.00
11464	$39.00
11465	$39.00
11468	$39.00
11470	$39.00
11471	$39.00
11472	$39.00
11473	$39.00
11475	$39.00
11476	$39.00
11480	$39.00
11481	$39.00
11482	$39.00
11483	$39.00
-	-
-	-
-	-
-	-

CLASS F

Weight	Part #	List Price	Traceable Certificate
500 mg	**12913**	$16.00	$35.00
300 mg	**12914**	$16.00	$35.00
200 mg	**12915**	$16.00	$35.00
100 mg	**12916**	$16.00	$35.00
50 mg	**12917**	$16.00	$35.00
30 mg	**12918**	$16.00	$35.00
20 mg	**12919**	$16.00	$35.00
10 mg	**12920**	$16.00	$35.00
5 mg	**12921**	$16.00	$35.00
3 mg	**12922**	$16.00	$35.00
2 mg	**12923**	$16.00	$35.00
1 mg	**12924**	$16.00	$35.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
36092	Certificate of Accuracy	$45.00

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STAINLESS STEEL

Avoirdupois Individual Weights



Grip-handle



Cylindrical

CLASS F

Weight	Part#	Height (mm)	Diameter (mm)	List Price	Traceable Certificate
50 lb	**12677**	7 1/4" (183.6)	6" (151.8)	$725.00	$75.00
30 lb	**12676**	6 11/16" (169.0)	5" (126.4)	$550.00	$75.00
25 lb	**12675**	5 3/4" (145.9)	5" (126.4)	$460.00	$75.00
20 lb	**12674**	4 7/8" (122.8)	5" (126.4)	$420.00	$75.00
10 lb	**12673**	3 1/16" (77.8)	5" (127.0)	$250.00	$75.00

CLASS F

Weight	Part #	Height (mm)	Diameter (mm)	List Price	Traceable Certificate
10 lb	**12606**	4 1/16" (103.0)	3 1/2" (88.1)	$172.00	$75.00
5 lb	**12604**	3 11/16" (93.2)	2 5/8" (66.2)	$110.00	$75.00
4 lb	**12602**	3 1/16" (77.0)	2 5/8" (66.2)	$105.00	$75.00
3 lb	**12600**	2 15/16" (74.4)	2 1/4" (56.8)	$98.00	$75.00
2 lb	**12598**	2 1/2" (62.3)	2" (50.8)	$57.00	$60.00
1 lb	**12596**	2 1/4" (57.4)	1 1/2" (37.7)	$50.00	$60.00
12 oz	**12626**	2 1/16" (51.6)	1 3/8" (34.5)	$45.00	$35.00
8 oz	**12594**	1 5/8" (42.0)	1 1/4" (31.4)	$39.00	$35.00
4 oz	**12592**	1 3/8" (35.3)	1" (25.4)	$35.00	$35.00
2 oz	**12590**	15/16" (23.4)	7/8" (20.2)	$32.00	$35.00
1 oz	**12587**	13/16" (20.2)	5/8" (15.5)	$30.00	$35.00
1/2 oz	**12584**	5/8" (42.0)	1/2" (12.3)	$30.00	$35.00
1/4 oz	**12581**	9/16" (15.3)	3/8" (9.1)	$28.00	$35.00
1/8 oz	**12578**	7/16" (10.8)	5/16" (7.5)	$25.00	$35.00
1/16 oz	**12575**	5/16" (8.8)	1/4" (6.0)	$25.00	$35.00
1/32 oz	**12608**	5/16" (8.8)	3/16" (4.4)	$25.00	$35.00
0.5 oz	**12647**	5/8" (16.2)	1/2" (12.3)	$30.00	$35.00
0.3 oz	**12645**	1/2" (12.8)	4/16" (10.7)	$30.00	$35.00
0.2 oz	**12643**	1/2" (12.8)	3/8" (9.1)	$30.00	$35.00
0.1 oz	**12641**	3/8" (9.0)	5/16" (7.5)	$30.00	$35.00
0.05 oz	**12639**	5/16" (7.4)	1/4" (6.0)	$30.00	$35.00
0.5 lb	**12624**	1 5/8 (42.0)	1 1/4" (31.4)	$39.00	$35.00
0.3 lb	**12622**	1 3/16" (30.2)	1 1/8" (28.2)	$39.00	$35.00
0.2 lb	**12610**	1 3/16" (30.2)	15/16" (23.4)	$32.00	$35.00
0.1 lb	**12612**	7/8" (21.8)	3/4" (18.7)	$32.00	$35.00
0.05 lb	**12614**	3/4" (18.2)	5/8" (14.5)	$32.00	$35.00
0.03 lb	**12620**	5/8" (15.7)	1/2" (12.3)	$32.00	$35.00
0.02 lb	**12616**	9/16" (13.7)	7/16" (10.7)	$32.00	$35.00
0.01 lb	**12618**	1/2 " (13.4)	5/16" (7.5)	$32.00	$35.00

OPTIONAL CASES

Part #	List Price
11462	$39.00
11496	$39.00
11465	$39.00
11495	$39.00
11468	$39.00
82983	$39.00
-	
11491	$39.00
11494	$39.00
11479	$39.00
11493	$39.00
11492	$39.00
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-

DISH WEIGHTS

Weight	Part #	List Price	Traceable Certificate
0.005 lb	**12909**	$32.00	$35.00
0.003 lb	**12912**	$32.00	$35.00
0.002 lb	**12910**	$32.00	$35.00
0.001 lb	**12911**	$32.00	$35.00

Dish Weights
0.005 lb - 0.001 lb



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STAINLESS STEEL

Metric Sets

100g and 50g (5-2-2-1 configuration)



CLASS F

Set Size	Part #	List Price	Traceable Certificate
50 g			
50 g - 1 g	**12500**	$135.00	$132.00
50 g - 10 mg	**12502**	$164.00	$220.00
50 g - 1 mg	**12504**	$181.00	$265.00
100 g			
100 g - 1 g	**12506**	$170.00	$149.00
100 g - 10 mg	**12508**	$185.00	$235.00
100 g - 1 mg	**12510**	$195.00	$277.00

REPLACEMENT CASES

Part #	List Price
50 g	
11512	$27.00
11512	$27.00
11512	$27.00
100 g	
11512	$27.00
11512	$27.00
11512	$27.00

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	50 g - 1 g	50 g- 10 mg	50 g- 1 mg	100 g- 1 g	100 g- 10 mg	100 g- 1 mg
Weight set Part #	**12500**	**12502**	**12504**	**12506**	**12508**	**12510**
Wt. Value	**Qty.**	**Qty.**	**Qty.**	**Qty.**	**Qty.**	**Qty.**
100 g	-	-	-	1	1	1
50 g	1	1	1	1	1	1
20 g	2	2	2	2	2	2
10 g	1	1	1	1	1	1
5 g	1	1	1	1	1	1
2 g	2	2	2	2	2	2
1 g	1	1	1	1	1	1
500 mg	-	1	1	-	1	1
200 mg	-	2	2	-	2	2
100 mg	-	1	1	-	1	1
50 mg	-	1	1	-	1	1
20 mg	-	2	2	-	2	2
10 mg	-	1	1	-	1	1
5 mg	-	-	1	-	-	1
2 mg	-	-	2	-	-	2
1 mg	-	-	1	-	-	1
Total	8	16	20	9	17	21
	110.000 g	**111.1 g**	**111.11 g**	**210.000 g**	**211.19 g**	**211.11 g**

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
36092	Certificate of Accuracy	$45.00
11758	Leaf Weight Cover	$32.00
65640	Tweezers	$11.00

Glass Bead Kits

SET SIZE	PART #	LIST PRICE	TRACEABLE CERTIFICATE
300g - 10g (5321) 710g kit	12545	$275.00	$140.00
50g - 1mg 172.2	12550	$265.00	$185.50
5g - 1mg 12.2	12548	$145.00	$302.40

Case Insert

SIZE	PART #	LIST PRICE
50 g - 1 g	11516	$27.00
50 g - 10 mg	11517	$27.00
50 g - 1 mg	11517	$27.00
100 g - 1 g	11518	$27.00
100 g - 10 mg	11519	$27.00
100 g - 1 mg	11519	$27.00

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STAINLESS STEEL

Metric Sets

500g (5-2-2-1 configuration)



CLASS F

Set Size	Part #	List Price	Traceable Certificate
500 g - 1 g	**12512**	$285.00	$231.00
500 g - 10 mg	**12514**	$320.00	$355.00
500 g - 1 mg	**12516**	$355.00	$385.00

REPLACEMENT CASES

Part #	List Price
11520	$59.00
11520	$59.00
11520	$59.00

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	500 g-1 g	500 g-10 mg	500 g-1 mg
Weight Set Part #	**12512**	**12514**	**12516**
Wt. Value	**Qty.**	**Qty.**	**Qty.**
500 g	1	1	1
200 g	2	2	2
100 g	1	1	1
50 g	1	1	1
20 g	2	2	2
10 g	1	1	1
5 g	1	1	1
2 g	2	2	2
1 g	1	1	1
500 mg	-	1	1
200 mg	-	2	2
100 mg	-	1	1
50 mg	-	1	1
20 mg	-	2	2
10 mg	-	1	1
5 mg	-	-	1
2 mg	-	-	2
1 mg	-	-	1
Total	12	20	24
	1.110 kg	**1.1111 kg**	**1.11111 kg**

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
36092	Certificate of Accuracy	$45.00
11758	Leaf Weight Cover	$32.00
65640	Tweezers	$11.00

Secondary Case

SIZE	PART #	LIST PRICE
100 g - 1 g	11512	$27.00
100 g - 10 mg	11512	$27.00
100 g - 1 mg	11512	$27.00

Case Insert

SIZE	PART #	LIST PRICE
100 g - 1 g	11518	$27.00
100 g - 10 mg	11519	$27.00
100 g - 1 mg	11519	$27.00

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STAINLESS STEEL

Metric Sets

1kg (5-2-2-1 configuration)



CLASS F

Set Size	Part #	List Price	Traceable Certificate
1 kg			
1 kg - 1 g	**12518**	$365.00	$263.00
1 kg - 10 mg	**12520**	$390.00	$340.00
1 kg - 1 mg	**12522**	$395.00	$400.00

REPLACEMENT CASES

Part #	List Price
1 kg	
11521	$59.00
11521	$59.00
11521	$59.00

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	1 kg-1 g	1 kg-10 mg	1 kg-1 mg
Weight Set Part #	**12518**	**12520**	**12522**
Wt. Value	Qty.	Qty.	Qty.
2 kg	-	-	-
1 kg	1	1	1
500 g	1	1	1
200 g	2	2	2
100 g	1	1	1
50 g	1	1	1
20 g	2	2	2
10 g	1	1	1
5 g	1	1	1
2 g	2	2	2
1 g	1	1	1
500 mg	-	1	1
200 mg	-	2	2
100 mg	-	1	1
50 mg	-	1	1
20 mg	-	2	2
10 mg	-	1	1
5 mg	-	-	1
2 mg	-	-	2
1 mg	-	-	1
Total	13	21	25
	2.11 kg	**2.1111 kg**	**2.11111 kg**

Cube Weight Kit

SET SIZE	PART #	LIST PRICE	TRACEABLE CERTIFICATE
1kg - 1mg 15.72	12553*	$1,215.00	$949.00
1 kg - 1 mg	12555*	$1,040.00	$613.00

**Glass bead kit*

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
36092	Certificate of Accuracy	$45.00
11758	Leaf Weight Cover	$32.00
65640	Tweezers	$11.00

Secondary Case

SIZE	PART #	LIST PRICE
100 g - 1 g	11512	$27.00
100 g - 10 mg	11512	$27.00
100 g - 1 mg	11512	$27.00
100 g - 1 g	11512	$27.00
100 g - 10 mg	11512	$27.00
100 g - 1 mg	11512	$27.00

Case Insert

SIZE	PART #	LIST PRICE
100 g - 1 g	11518	$27.00
100 g - 10 mg	11519	$27.00
100 g - 1 mg	11519	$27.00
100 g - 1 g	11518	$27.00
100 g - 10 mg	11519	$27.00
100 g - 1 mg	11519	$27.00

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STAINLESS STEEL

Metric Sets

2 kg (5-2-2-1 configuration)



CLASS F

Set Size	Part #	List Price	Traceable Certificate
2 kg			
2 kg -1 g	**12524**	$425.00	$302.00
2 kg - 10 mg	**12526**	$460.00	$402.00
2 kg - 1 mg	**12528**	$485.00	$433.00
Special 2 kg			
(5) 2 kg - 1 g	**12530**	$705.00	$543.00
(5) 2 kg - 10 mg	**12532**	$760.00	$700.00
(5) 2 kg - 1 mg	**12534**	$765.00	$778.00

REPLACEMENT CASES

Part #	List Price
2 kg	
11522	$142.00
11522	$142.00
11522	$142.00
2 kg	
11523	$197.00
11523	$197.00
11523	$197.00

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	2 kg-1 g	2 kg-10 mg	2 kg-1 mg	(5) 2 kg-1 g	(5) 2 kg-10 mg	(5) 2 kg-1 mg
Weight Set Part #	**12524**	**12526**	**12528**	**12530**	**12532**	**12534**
Wt. Value	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
2 kg	1	1	1	5	5	5
1 kg	1	1	1	-	-	-
500 g	1	1	1	5	5	5
200 g	2	2	2	2	2	2
100 g	1	1	1	1	1	1
50 g	1	1	1	1	1	1
20 g	2	2	2	2	2	2
10 g	1	1	1	1	1	1
5 g	1	1	1	1	1	1
2 g	2	2	2	2	2	2
1 g	1	1	1	1	1	1
500 mg	-	1	1	-	1	1
200 mg	-	2	2	-	2	2
100 mg	-	1	1	-	1	1
50 mg	-	1	1	-	1	1
20 mg	-	2	2	-	2	2
10 mg	-	1	1	-	1	1
5 mg	-	-	1	-	-	1
2 mg	-	-	2	-	-	2
1 mg	-	-	1	-	-	1
Total	14	22	26	21	29	33
	4.110 kg	**4.1111 kg**	**4.11111 kg**	**13.11kg**	**13.1111 kg**	**13.11111 kg**

Secondary Case

SIZE	PART #	LIST PRICE
100 g - 1 g	11512	$27.00
100 g - 10 mg	11512	$27.00
100 g - 1 mg	11512	$27.00
100 g - 1 g	11512	$27.00
100 g - 10 mg	11512	$27.00
100 g - 1 mg	11512	$27.00

Case Insert

SIZE	PART #	LIST PRICE
100 g - 1 g	11518	$27.00
100 g - 10 mg	11519	$27.00
100 g - 1 mg	11519	$27.00
100 g - 1 g	11518	$27.00
100 g - 10 mg	11519	$27.00
100 g - 1 mg	11519	$27.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
36092	Certificate of Accuracy	$45.00
11758	Leaf Weight Cover	$32.00
65640	Tweezers	$11.00

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STAINLESS STEEL

Metric Sets

5 kg (5-2-2-1 and special configurations)



CLASS F

Set Size	Part #	List Price	Traceable Certificate
5 kg			
5 kg - 1 g	**12535**	$572.00	$381.00
5 kg - 10 mg	**12536**	$602.00	$405.00
5 kg - 1 mg	**12537**	$650.00	$500.00
(2) 5 kg - 1 g	**12538**	$825.00	$430.00
(2) 5 kg - 10 mg	**12539**	$885.00	$454.00
(2) 5 kg - 1 mg	**12542**	$840.00	$549.00
5 kg (3)	**12562**	$730.00	$180.00

REPLACEMENT CASES

Part #	List Price
5 kg	
11524	$192.00
11524	$192.00
11524	$192.00
11525	$195.00
11525	$195.00
11525	$195.00
11558	$192.00

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	5 kg-1 g	5 kg-10 mg	5 kg-1 mg	5 kg-1 g	5 kg-10 mg	5 kg-1 mg	5 kg (3)
Weight Set Part #	**12535**	**12536**	**12537**	**12538**	**12539**	**12542**	**12562**
Wt. Value	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
5 kg	1	1	1	2	2	2	3
2 kg	2	2	2	2	2	2	-
1 kg	1	1	1	1	1	1	-
500 g	1	1	1	5	5	5	-
200 g	2	2	2	2	2	2	-
100 g	1	1	1	1	1	1	-
50 g	1	1	1	1	1	1	-
20 g	2	2	2	2	2	2	-
10 g	1	1	1	1	1	1	-
5 g	1	1	1	1	1	1	-
2 g	2	2	2	2	2	2	-
1 g	1	1	1	1	1	1	-
500 mg	-	1	1	-	1	1	-
200 mg	-	2	2	-	2	2	-
100 mg	-	1	1	-	1	1	-
50 mg	-	1	1	-	1	1	-
20 mg	-	2	2	-	2	2	-
10 mg	-	1	1	-	1	1	-
5 mg	-	-	1	-	-	1	-
2 mg	-	-	2	-	-	2	-
1 mg	-	-	1	-	-	1	-
Total	16	24	28	21	29	33	3
	11.11 kg	**11.1111 kg**	**11.11111 kg**	**18.110 kg**	**18.1111 kg**	**18.11111 kg**	**15 kg**

Secondary Case

SIZE	PART #	LIST PRICE
100 g - 1 g	11512	$27.00
100 g - 10 mg	11512	$27.00
100 g - 1 mg	11512	$27.00
100 g - 1 g	11512	$27.00
100 g - 10 mg	11512	$27.00
100 g - 1 mg	11512	$27.00

Case Insert

SIZE	PART #	LIST PRICE
100 g - 1 g	11518	$27.00
100 g - 10 mg	11519	$27.00
100 g - 1 g	11518	$27.00
100 g - 10 mg	11519	$27.00
100 g - 1 mg	11519	$27.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
11758	Leaf weight lid	$32.00
36092	Certificate of Accuracy	$45.00
65640	Tweezers	$11.00

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STAINLESS STEEL

Avoirdupois Sets

4 oz



CLASS F

Set Size	Part #	List Price	Traceable Certificate
4 oz - 1/32 oz (8 oz lb Fractional)	**12623**	$165.00	$150.00
0.2 lb - 0.001 lb (0.61 lb Decimal)	**12576**	$170.00	$150.00
4 oz - 0.05 oz (8.05 oz)	**12625**	$180.00	$150.00

REPLACEMENT CASES

Part #	List Price
11510	$27.00
11512	$27.00
11510	$27.00

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	4 oz-1/32 oz	0.2 lb-0.001 lb	4 oz-0.05 oz
Weight Set Part #	**12623**	**12576**	**12625**
Weight Value	Qty.	Qty.	Qty.
4 oz	1	-	1
0.2 lb	-	2	-
2 oz	1	-	1
0.1 lb	-	1	-
1 oz	1	-	1
0.05 lb	-	1	-
1/2 oz	1	-	-
0.02 lb	-	2	-
0.5 oz	-	-	1
1/4 oz	1	-	-
0.01 lb	-	1	-
0.2 oz	-	-	2
1/8 oz	1	-	-
0.005 lb	-	1	-
0.1 oz	-	-	1
1/16 oz	1	-	-
0.002 lb	-	2	-
1/32 oz	2	-	-
0.001 lb	-	1	-
0.05 oz	-	-	1
Total	9	11	8
	1/2 lb	**0.61 lb**	**1 lb 0.05 oz**

Case Insert

SIZE	PART #	LIST PRICE
4 oz - 1/3 2 oz (8 oz Fractional)	11552	$18.00
0.2 lb - 0.001 lb (0.61 lb Decimal)	11541	$18.00
4 oz - 0.05 oz (8.05 oz)	11553	$18.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
36092	Certificate of Accuracy	$45.00

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STAINLESS STEEL

Avoirdupois Sets

2 lb, 1 lb and 8 oz



CLASS F

Set Size	Part #	List Price	Traceable Certificate
2 lb			
2 lb - 1/32 oz (4 lb Fractional)	**12597**	$340.00	$329.00
2 lb - 0.001 lb (4.11 lb Decimal)	**12599**	$350.00	$325.00
2 lb - 0.05 oz (4 lb Decimal 4 lb 0.03 oz)	**12601**	$370.00	$280.00
2-2 lb - 1/32 oz (6 lb Fractional)	**12603**	$440.00	$371.00
2-2 lb - 0.001 lb (6.11 lb Decimal)	**12605**	$450.00	$445.00
2-2 lb - 0.05 oz (61 lb 0.05 oz Combination)	**12607**	$470.00	$371.00

REPLACEMENT CASES

Part #	List Price
2 lb	
11547	$62.00
11547	$62.00
11547	$62.00
11548	$62.00
11548	$62.00
11548	$62.00

CUBE WEIGHT

Set Size	Part #	List Price	Traceable Certificate
2 lb x 1/16 oz 31lb kit	**12585***	$1200.00	$868.00
2 lb x 1/16 oz 8 lb kit	**12652***	$775.00	$364.00
2 lb x .001 lb 7.72 lb kit	**12659***	$825.00	$437.00
1 lb - 1/32 oz (2 lb Fractional)	**12591**	$290.00	$287.00
1 lb - 0.001 lb (2.11 lb Decimal)	**12593**	$295.00	$300.00
1 lb - 0.05 oz (1.99 lb Combination)	**12595**	$300.00	$263.00
8 oz & 1/16 oz	**12630**	$250.00	$220.00
3 lb .001lb .72 lb kit	**12654**	$300.00	$140.00

** Glass bead kits*

Secondary Case

SIZE	PART #	LIST PRICE
4 oz - 1/32 oz	11510	$27.00
0.2 lb - 0.001 lb	11512	$27.00
4 oz - 0.05 oz	11510	$27.00
4 oz - 1/32 oz	11510	$27.00
0.2 lb - 0.001 lb	11512	$27.00
4 oz - 0.05 oz	11510	$27.00
2 lb - 1/32 oz	11510	$27.00
0.2 lb - 0.001 lb	11512	$27.00
2 lb - 0.001 lb	11510	$27.00

Case Insert

SIZE	PART #	LIST PRICE
4 oz - 1/32 oz	11552	$18.00
0.2 lb - 0.00 1 lb	11541	$18.00
4 oz - 0.05 oz, 0.2 lb - 0.001 lb	11553	$18.00
4 oz - 1/32 oz	11552	$18.00
0.2 lb - 0.001	11541	$18.00
4 oz - 0.05 oz	11553	$18.00
4 oz - 1/32 oz	11552	$18.00
0.2 lb - 0.001 lb	11541	$18.00
4 oz - 0.03 oz	11553	$18.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
36092	Certificate of Accuracy	$45.00

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STAINLESS STEEL

Avoirdupois Sets

2 lb, 1 lb and 8 oz

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	1 lb-1/32 oz	1 lb-0.001 lb	1 lb-0.05 oz	2 lb-1/32 oz	2 lb-0.001 lb	2 lb-0.05 oz	2-2 lb-1/32 oz	(2)2 lb-0.001 lb	(2)2 lb-0.05 oz
Weight Set Part #	**12591**	**12593**	**12595**	**12597**	**12599**	**12601**	**12603**	**12605**	**12607**
Wt. Value	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
2 lb	-	-	-	1	1	1	2	2	2
1 lb	1	1	1	1	1	1	1	1	1
8 oz	1	-	1	1	-	1	1	1	1
0.5 lb	-	1	-	-	1	-	1	1	-
4 oz	1	-	1	1	-	1	1	-	1
0.2 lb	-	2	-	-	2	-	-	2	-
2 oz	1	-	1	1	-	1	1	-	1
0.1 lb	-	1	-	-	1	-	-	1	-
1 oz	1	-	1	1	-	1	1	-	1
0.05 lb	-	1	-	-	1	-	-	1	-
1/2 oz	1	-	-	1	-	-	1	-	-
0.02 lb	-	2	-	-	2	-	-	2	-
0.5 oz	-	-	1	-	-	1	-	-	1
1/4 oz	1	-	-	1	-	-	1	-	-
0.01 lb	-	1	-	-	1	-	-	1	-
0.20 oz	-	-	2	-	-	1	-	-	2
1/8 oz	1	-	-	1	-	-	1	-	-
0.005 lb	-	1	-	-	1	-	-	1	-
0.1 oz	-	-	1	-	-	1	-	-	1
1/16 oz	1	-	-	1	-	-	1	-	-
0.002 lb	-	2	-	-	2	-	-	2	-
1/32 oz	2	-	-	2	-	-	2	-	-
0.001 lb	-	1	-	-	1	-	-	1	-
0.05 oz	-	-	1	-	-	1	-	-	1
Total	11	13	10	12	14	10	14	15	11
	2 lb	**2.1110 lb**	**1.990625 lb**	**4 lb**	**4.108 lb**	**4.7875 lb**	**6 lb**	**6.1100 lb**	**6 lb 0.05 oz**

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STAINLESS STEEL

Avoirdupois Sets

5 lb



CLASS F

Set Size	Part #	List Price	Traceable Certificate
5 lb - 1/32 oz (11 lb Fractional)	**12615**	$420.00	$424.00
5 lb - 0.001 lb (11.11 lb Decimal)	**12617**	$425.00	$399.00
5 lb - 0.05 oz (11 lb 0.05 oz Combination)	**12619**	$435.00	$656.00
5 lb - 1 GN (21 lb 55 GN Fractional US Postal Service)	**12627**	$885.00	$809.00
5 lb - 1 GN (31 lb 55 GN)	**12661**	$1,010.00	$914.00
5 lb - 0.001 lb (31.61 lb Combination)	**12582**	$890.00	$767.00
5 lb x 6 (30 lb)	**12640**	$780.00	$337.00
5 lb - 1/32 oz (Fractional)	**12579**	$865.00	$718.00
5 lb - 0.001 lb (Decimal)	**12634**	$892.00	$767.00
(5) 5 lb - 0.05 oz (Combination) (31 lb - 0.05 oz)	**12636**	$835.00	$669.00

REPLACEMENT CASES

Part #	List Price
11550	$192.00
11550	$192.00
11550	$192.00
11554	$192.00
11570	$192.00
11542	$192.00
11559	$192.00
11542	$192.00
11542	$192.00
11542	$192.00

Secondary Case

SIZE	PART #	LIST PRICE
5 lb. - 0.001 lb, 0.2 lb - 0.001 lb	11512	$27.00
4 oz - 0.05 oz	11510	$27.00
5 lb - 1/32 oz, 31 lb fractional	11510	$27.00
5 lb - 0.001 lb, 31.11 lb decimal	11512	$27.00
5 lb - 0.05 oz, 31 lb 4oz - 0.05 oz	11510	$27.00
5 lb - 1 GN	11510	$27.00
5 lb - 1 GN, 4 oz - 1/32 oz	11512	$27.00

Case Insert

SIZE	PART #	LIST PRICE
4 oz - 1/32 oz	11552	$18.00
5 lb - 0.001 lb, 0.2 lb - 0.001 lb	11541	$18.00
5 lb - 1/32 oz, 31 lb fractional	11552	$18.00
5 lb - 0.001 lb, 31.11 lb decimal	11541	$18.00
5 lb - 1 GN, 4 oz - 0.05 oz	11553	$18.00
5 lb - 1 GN,	11552	$18.00
5 lb - 1 GN, 4 oz - 1 GN	11541	$18.00
4 oz - 1 GN	11552	$18.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
36092	Certificate of Accuracy	$45.00

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STAINLESS STEEL

Avoirdupois Sets

5 lb

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	5 lb-1/32 oz	5 lb-0.001 lb	5 lb-0.05 oz	5 lb - 0.05 oz	5 lb - 0.001 lb	5 lb - 1/32 oz	5 lb-1 GN (Fractional)	5 lb-1 GN	5 lb-0.001 lb	5 lb x 6
Weigh Set Part #	**12579**	**12634**	**12636**	**12619**	**12617**	**12615**	**12627**	**12661**	**12582**	**12640**
Wt. Value	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
5 lb	5	5	5	1	1	1	3	5	5	6
2 lb	-	-	-	2	2	2	-	-	-	-
1 lb	5	5	5	1	1	1	5	5	5	-
8 oz	1	-	1	1	-	1	1	1	1	-
0.5 lb	-	1	-	-	1	-	-	-	-	-
4 oz	1	-	1	1	-	1	1	1	1	-
0.2 lb	-	2	-	-	2	-	-	-	2	-
2 oz	1	-	1	1	-	1	1	1	1	-
0.1 lb	-	1	-	-	1	-	-	-	1	-
1 oz	1	-	1	1	-	1	1	1	1	-
0.05 lb	-	1	-	-	1	-	-	-	1	-
1/2 oz	1	-	-	-	-	1	1	1	1	-
0.02 lb	-	2	-	-	2	-	-	-	2	-
0.5 oz	-	-	1	1	-	-	-	-	-	-
1/4 oz	1	-	-	-	-	1	1	1	1	-
0.01 lb	-	1	-	-	1	-	-	-	1	-
0.20 oz	-	-	2	2	-	-	-	-	-	-
1/8 oz	1	-	-	-	-	1	1	1	1	-
0.005 lb	-	1	-	-	1	-	-	-	1	-
0.10 oz	-	-	-	1	-	-	-	-	-	-
1/16 oz	1	-	-	-	-	1	1	1	1	-
0.002 lb	-	2	-	-	2	-	-	-	2	-
1/32 oz	2	-	-	-	-	2	2	2	2	-
20 GN	-	-	-	-	-	-	1	1	-	-
10 GN	-	-	-	-	-	-	2	2	-	-
5 GN	-	-	-	-	-	-	2	2	-	-
2 GN	-	-	-	-	-	-	2	2	-	-
1 GN	-	-	-	-	-	-	1	1	-	-
0.001 lb	-	1	-	-	1	-	-	-	1	-
0.05 oz	-	-	1	1	-	-	-	-	-	-
Total	20	22	18	13	16	14	26	28	31	6
	31 lb	**31.11 lb**	**31 lb 0.05 oz**	**11 lb 0.05 oz**	**11.11 lb**	**11 lb**	**21 lb 55 GN**	**31 lb 55 GN**	**31.61 lb**	**30 lb**

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STAINLESS STEEL

Avoirdupois Sets

10 lb



CLASS F

Set Size	Part #	List Price	Traceable Certificate
10 lb - 0.001 lb (31.61 lb Combination)	**12648**	$1,000.00	$798.00
10 lb - 0.001 lb (51.61 lb Combination)	**12650**	$1,290.00	$1,040.00
10 lb - 1/4 oz (31 lb 1/2 oz)	**12573**	$960.00	$490.00
10 lb - 0.001 lb (31.61 lb-1/2 lb)	**12588**	$1,055.00	$882.00

REPLACEMENT CASES

Part #	List Price
11562	$192.00
11563	$192.00
11540	$192.00
11543	$192.00

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	10 lb-0.001 lb (31 lb Combination)	10 lb-0.001 lb (51 lb Combination)	10 lb-1/4 oz	10 lb-0.001 lb
Weight Set Part #	**12648**	**12650**	**12573**	**12588**
Wt. Value	Qty.	Qty.	Qty.	Qty.
10 lb	2	3	2	2
5 lb	1	3	1	1
2 lb	2	-	-	-
1 lb	1	5	5	5
8 oz	1	1	-	-
4 oz	1	1	3	3
0.2 lb	2	2	-	2
2 oz	1	1	-	-
0.1 lb	1	1	-	1
1 oz	1	1	3	3
0.05 lb	1	1	-	1
1/2 oz	1	1	2	2
0.02 lb	2	2	-	2
1/4 oz	1	1	2	2
0.01 lb	1	1	-	1
1/8 oz	1	1	-	-
0.005 lb	1	1	-	1
1/16 oz	1	1	-	-
0.002 lb	2	2	-	2
1/32 oz	2	2	-	-
0.001 lb	1	1	-	1
Total	27	32	18	29
	31.61 lb	**51.6100 lb**	**31 lb 1/2 oz**	**31 lb 1/2 oz**

Secondary Case

SIZE	PART #	LIST PRICE
0.2 lb - 0.001 lb (31.61 lb Combination)	11512	$27.00
4 oz - 1/32 oz (31.61 lb Combination)	11510	$27.00
0.2 lb - 0.001 lb (51.61 lb Combination)	11512	$27.00
4 oz - 1/32 oz (51.61 lb Combination)	11510	$27.00
0.2 lb - 0.001 lb (31.61 lb 1/2 oz)	11512	$27.00

Case Insert

SIZE	PART #	LIST PRICE
0.2 lb - 0.001 lb (31.61 lb Combination)	11541	$18.00
0.2 lb - 0.001 lb (31.61 lb 1/2 oz)	11541	$18.00
0.2 lb - 0.001 lb (51.61 lb Combination)	11541	$18.00
4 oz - 1/32 oz (31.61 lb Combination)	11552	$18.00
4 oz - 1/32 oz (51.61 lb Combination)	11552	$18.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
36092	Certificate of Accuracy	$45.00

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STAINLESS STEEL

Avoirdupois Sets

10 lb

CLASS F				REPLACEMENT CASES	
Set Size	Part #	List Price	Traceable Certificate	Part #	List Price
10 lb - 1-32 oz (31 lb Fractional)	**12642**	$880.00	$529.00	**11562**	$192.00
10 lb - 0.001 lb (31.11 lb Decimal)	**12644**	$835.00	$578.00	**11562**	$192.00
10 lb - 0.05 oz (31 lb 0.05 oz Combination)	**12646**	$960.00	$504.00	**11562**	$192.00
10 lb - 1/32 oz (51 lb Fractional)	**12628**	$1,145.00	$770.00	**11555**	$192.00
10 lb - 0.001 lb (51.11 lb Decimal)	**12621**	$1,255.00	$819.00	**11555**	$192.00
10 lb - 0.05 oz (51 lb 0.05 oz Combination)	**12632**	$1,275.00	$746.00	**11555**	$192.00
10 lb - 3 (30 lb)	**12638**	$675.00	$225.00	**11558**	$192.00

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	10 lb-1/32 oz 31 lb)	10 lb-0.001 lb (31 lb)	10 lb-0.05 oz (31 lb)	10 lb-1/32 oz (51 lb)	10 lb-0.001 lb (51 lb)	10 lb-0.05 oz (51 lb)	10 lb-3 (30 lb)
Weight Set Part #	**12642**	**12644**	**12646**	**12628**	**12621**	**12632**	**12638**
Wt. Value	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
10 lb	2	2	2	3	3	3	3
5 lb	1	1	1	3	3	3	-
2 lb	2	2	2	-	-	-	-
1 lb	1	1	1	5	5	5	-
8 oz	1	-	1	1	-	1	-
0.5 lb	-	1	-	-	1	-	-
4 oz	1	-	1	1	-	1	-
0.2 lb	-	2	-	-	2	-	-
2 oz	1	-	1	1	-	1	-
0.1 lb	-	1	-	-	1	-	-
1 oz	1	-	1	1	-	1	-
0.05 lb	-	1	-	-	1	-	-
1/2 oz	1	-	-	1	-	-	-
0.02 lb	-	2	-	-	2	-	-
0.5 oz	-	-	1	-	-	1	-
1/4 oz	1	-	-	1	-	-	-
0.01 lb	-	1	-	-	1	-	-
0.20 oz	-	-	2	-	-	2	-
1/8 oz	1	-	-	1	-	-	-
0.005 lb	-	1	-	-	1	-	-
0.1 oz	-	-	1	-	-	1	-
1/16 oz	1	-	-	1	-	-	-
0.002 lb	-	2	-	-	2	-	-
1/32 oz	2	-	-	2	-	-	-
0.001 lb	-	1	-	-	1	-	-
0.05 oz	-	-	1	-	-	1	-
Total	16	18	15	21	23	20	3
	31 lb	31.1100 lb	31 lb 0.05 oz	51 lb	51.11 lb	51 lb 0.05 oz	30 lb

Secondary Case

SIZE	PART #	LIST PRICE
4 oz - 1/32 oz (31 lb Fractional)	11510	$27.00
0.2 lb - 0.001 lb (31.11 lb Decimal)	11512	$27.00
4 oz - 0.05 oz (31 lb 0.05 oz Combination)	11510	$27.00
4 oz - 1/32 oz (51 lb Fractional)	11510	$27.00
0.2 lb - 0.001 lb (51.11 lb Decimal)	11512	$27.00
4 oz - 0.05 oz (51 lb 0.05 oz Combination)	11510	$27.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
36092	Certificate of Accuracy	$45.00

Case Insert

SIZE	PART #	LIST PRICE
4 oz - 1/32 oz (31 lb Fractional)	11552	$18.00
0.2 lb - 0.001 lb (31.11 lb Decimal)	11541	$18.00
4 oz - 0.05 oz (31 lb 0.05 oz Combination)	11553	$18.00
4 oz - 1/32 oz (51 lb Fractional)	11552	$18.00
0.2 lb - 0.001 lb (51.11 lb Decimal)	11541	$18.00
4 oz - 0.05 oz (51 lb 0.05 oz Combination)	11553	$18.00

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STAINLESS STEEL

Avoirdupois Sets

10 lb



CLASS F

Set Size	Part #	List Price	Traceable Certificate
10 lb - 1/32 oz (21 lb Fractional)	**12609**	$620.00	$476.00
10 lb - 0.001 lb (21.11 lb Decimal)	**12611**	$605.00	$525.00
10 lb - 0.05 oz (21 lb x 0.05 oz Combination)	**12613**	$655.00	$595.00

REPLACEMENT CASES

Part #	List Price
11549	$192.00
11549	$192.00
11549	$192.00

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	10 lb-1/32 oz	10 lb-0.001 lb	10 lb-0.05 oz
Weight Set Part #	**12609**	**12611**	**12613**
Wt. Value	Qty.	Qty.	Qty.
10 lb	1	1	1
5 lb	1	1	1
2 lb	2	2	2
1 lb	1	1	1
8 oz	1	-	1
0.5 lb	-	1	-
4 oz	1	-	1
0.2 lb	-	2	-
2 oz	1	-	1
0.1 lb	-	1	-
1 oz	1	-	1
0.05 lb	-	1	-
1/2 oz	1	-	-
0.02 lb	-	2	-
0.5 oz	-	-	1
1/4 oz	1	-	-
0.01 lb	-	1	-
0.20 oz	-	-	1
1/8 oz	1	-	-
0.005 lb	-	1	-
0.1 oz	-	-	1
1/16 oz	1	-	-
0.002 lb	-	2	-
1/32 oz	2	-	-
0.001 lb	-	1	-
0.05 oz	-	-	1
Total	15	17	13
	21 lb	**21.11 lb**	**21 lb 0.05 oz**

Secondary Case

SIZE	PART #	LIST PRICE
4 oz - 1/32 oz (21 lb Fractional)	11510	$27.00
0.2 lb - 0.001 lb (21.11 lb Decimal)	11512	$27.00
4 oz - 0.05 oz (21 lb x 0.05 oz Combination)	11510	$27.00

Case Insert

SIZE	PART #	LIST PRICE
4 oz - 1/32 oz (21 lb Fractional)	11541	$18.00
4 oz - 1/32 oz (21 lb Decimal)	11541	$18.00
4 oz - 0.05 oz (21 lb x 0.05 oz Combination)	11553	$18.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
36092	Certificate of Accuracy	$45.00

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SPECIALTY

Metric Cube and Ring Weights; Avoirdupois Ring Weights

Metric



Metric



Avoirdupois



CLASS F

Weight	Part #	Width (mm)	Length (mm)	Height (mm)	List Price	Traceable Certificate
1 kg	**12557**	1" (25.4)	3 3/8" (85.6)	2 1/2" (62.8)	$120.00	$50.00
500 g	**12552**	1" (25.4)	3 7/16" (85.9)	1 1/4" (31.0)	$100.00	$50.00
300 g	**12547**	2 1/16" (51.5)	1 1/4" (31.0)	1" (25.4)	$90.00	$50.00
200 g	**12544**	1 1/4" (31.0)	1 3/8" (34.8)	1" (25.4)	$80.00	$50.00
100 g	**12541**	3/4" (18.5)	1 1/4" (30.5)	1" (25.4)	$70.00	$35.00

CLASS F

Weight	Part #	Outside Dia. (mm)	Height (mm)	Inside Dia. (mm)	List Price	Traceable Certificate
500 g	**12566**	3" (76.2)	37/64" (14.7)	0.390" (9.9)	$110.00	$50.00
200 g	**12563**	2" (50.8)	17/32" (13.5)	0.390" (9.9)	$85.00	$50.00
100 g	**12561**	1 1/2" (38.1)	1/2" (12.7)	0.390" (9.9)	$72.00	$35.00
50 g	**12560**	1 1/2" (38.1)	1/4" (6.4)	0.390" (9.9)	$60.00	$35.00
25 g	**12559**	1" (25.4)	5/16" (7.9)	0.390" (9.9)	$48.00	$35.00

CLASS F

Weight	Part #	Outside Dia. (mm)	Height (mm)	Inside Dia. (mm)	List Price	Traceable Certificate
5 lb	**12672**	4" (101.6)	1 27/64" (36.1)	0.390" (9.9)	$95.00	$75.00
3 lb	**12671**	3" (76.2)	1 35/64" (39.3)	0.390" (9.9)	$75.00	$75.00
2 lb	**12670**	3" (76.2)	1 1/32" (26.1)	0.390" (9.9)	$60.00	$60.00
1 lb	**12669**	3" (76.2)	33/64" (13.1)	0.390" (9.9)	$60.00	$60.00
8 oz	**12668**	2" (50.8)	39/64" (15.5)	0.390" (9.9)	$30.00	$35.00
4 oz	**12667**	1 1/2" (38.1)	9/16" (14.3)	0.390" (9.9)	$30.00	$35.00
2 oz	**12666**	1 1/2" (38.1)	9/32" (7.1)	0.390" (9.9)	$30.00	$35.00
1 oz	**12665**	1" (25.4)	11/32" (8.7)	0.390" (9.9)	$30.00	$35.00
1/2 oz	**12664**	1" (25.4)	11/64" (4.4)	0.390" (9.9)	$30.00	$35.00
1/4 oz	**12663**	1" (25.4)	3/32" (2.4)	0.390" (9.9)	$30.00	$35.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
36092	Certificate of Accuracy	$45.00

SPECIALTY

Avoirdupois Slotted Weights and Troy Cylindrical/Leaf Weights

Avoirdupois



Troy



Leaf weights not pictured

CLASS F

Weight	Part #	Diameter (mm)	Height (mm)	Slot Width (mm)	List Price	Traceable Certificate
10 lb	**12589**	4" (101.6)	3 1/8" (79.4)	1/2" (12.7)	$435.00	$75.00
5 lb	**12586**	4" (101.6)	1 9/16" (39.7)	1/2" (12.7)	$275.00	$75.00
2 lb	**12577**	3" (76.2)	1 1/64" (25.8)	1/2" (12.7)	$170.00	$60.00
1 lb	**12574**	3" (76.2)	37/64" (14.7)	1/2" (12.7)	$145.00	$60.00
8 oz	**12583**	2" (50.8)	45/64" (17.9)	1/2" (12.7)	$125.00	$35.00
4 oz	**12580**	1 1/2" (38.1)	23/32" (18.3)	1/2" (12.7)	$100.00	$35.00

CLASS F

Weight	Part #	Height (mm)	Diameter (mm)	List Price	Traceable Certificate
500 oz t	**12719**	6 5/16" (160.3)	5" (127.0)	$878.00	$75.00
200 oz t	**12718**	4 13/16" (121.1)	3 3/4" (94.5)	$385.00	$75.00
100 oz t	**12717**	3 13/16" (96.1)	3" (75.4)	$229.00	$75.00
50 oz t	**12716**	2 11/16" (67.5)	2 5/8" (66.2)	$131.00	$75.00
20 oz t	**12715**	2 1/4" (56.6)	1 3/4" (44.1)	$67.00	$60.00
10 oz t	**12714**	1 15/16" (48.2)	1 3/8" (34.5)	$52.00	$35.00
5 oz t	**12713**	1 7/16" (35.3)	1 3/16" (29.8)	$52.00	$35.00
2 oz t	**12712**	1" (24.1)	7/8" (21.8)	$30.00	$35.00
1 oz t	**12711**	7/8" (21.2)	5/8" (15.9)	$29.00	$35.00
1/4 oz t	**12709**	11/16" (16.8)	3/8" (9.1)	$37.00	$35.00
1/8 oz t	**12708**	1/2" (11.3)	5/16" (7.8)	$37.00	$35.00
1/16 oz t	**12707**	3/8" (9.1)	1/4" (6.2)	$37.00	$35.00
1/32 oz t	**12706**	5/16" (7.7)	3/16" (4.7)	$37.00	$35.00
0.5 oz t	**12705**	3/4" (17.8)	1/2" (12.3)	$37.00	$35.00
0.2 oz t	**12704**	1/2" (12.6)	3/8" (9.3)	$37.00	$35.00
0.1 oz t	**12703**	3/8" (8.8)	5/16" (7.9)	$37.00	$35.00
0.05 oz t*	**12702**	3/8" (8.2)	1/4" (6.0)	$37.00	$35.00
0.02 oz t*	**12701**	-	-	$18.00	$35.00
0.01 oz t*	**12700**	-	-	$18.00	$35.00
0.005 oz t*	**12699**	-	-	$18.00	$35.00

** Leaf weights*

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SPECIALTY

Penny Cylindrical, Leaf, and Grain Weights

Penny and Grain



CLASS F

Weight	Part #	List Price	Traceable Certificate
20 dwt	**12698**	$26.00	$35.00
10 dwt	**12697**	$26.00	$35.00
5 dwt	**12696**	$26.00	$35.00
2 dwt	**12695**	$26.00	$35.00
1 dwt	**12694**	$26.00	$35.00

CLASS F

Weight	Part #	List Price	Traceable Certificate
0.5 dwt	**12693**	$18.00	$35.00
0.2 dwt	**12692**	$18.00	$35.00
0.1 dwt	**12691**	$18.00	$35.00

CLASS F

Weight	Part #	List Price	Traceable Certificate
1 GN	**12726**	$17.00	$35.00
2 GN	**12727**	$20.00	$35.00
10 GN	**12733**	$20.00	$35.00
20 GN	**12736**	$26.00	$35.00

Additional Accessories

Part #	Description	List Price
36092	Certificate of Accuracy	$45.00

HOOK WEIGHTS

Metric Individual





CLASS 6

Weight	Part #	Diameter (mm)	Hanging Weight (mm)	Opening Dia. (mm)	List Price	Traceable Certificate
25 kg	**12720**	6" (152.4)	9 3/16" (233.3)	1/4" (6.4)	$650.00	$70.00
20 kg	**12725**	5 31/32" (151.6)	8 3/8" (212.7)	1/4" (6.4)	$640.00	$70.00
10 kg	**12732**	4" (101.6)	9 1/16" (230.2)	1/4" (6.4)	$440.00	$70.00
5 kg	**12735**	3 3/4" (95.3)	6 11/32" (161.1)	1/4" (6.4)	$230.00	$70.00
3 kg	**96403**	2.74"	5.06"	1/4"	$215.00	$70.00
2 kg	**12739**	2 5/8" (66.8)	5 17/32" (135.7)	1/4" (6.4)	$162.00	$70.00
1 kg	**12744**	2" (50.8)	5 3/8" (136.5)	1/4" (6.4)	$90.00	$50.00
500 g	**12747**	1 5/8" (41.3)	4 1/2" (114.3)	1/4" (6.4)	$78.00	$50.00
300 g	**96404**	(1.36)	(2.65)	(4.7)	$78.00	$50.00
200 g	**12748**	1 1/8" (28.5)	3" (76.2)	3/16" (4.7)	$76.00	$50.00
100 g	**12749**	1" (25.4)	2 3/8" (60.3)	3/16" (4.7)	$70.00	$35.00
50 g	**12750**	3/4" (19.1)	2 1/4" (57.1)	3/16" (4.7)	$68.00	$35.00
30 g	**96405**	(15.9)	(53.9)	(4.7)	$68.00	$35.00
20 g	**12751**	5/8" (15.9)	2 1/8" (53.9)	3/16" (4.7)	$68.00	$35.00
10 g	**12754**	1/2" (12.7)	2" (50.8)	3/16" (4.7)	$52.00	$35.00

CLASS 6

Weight	Part #	Diameter (mm)	Hanging Height (mm)	Opening Dia. (mm)	List Price	Traceable Certificate
5 g	**12757**	1/8" (3.2)	2 5/32" (54.8)	3/16" (4.7)	$40.00	$35.00
3 g	**96406**	3/32"	2.32"	3/16"	$40.00	$35.00
2 g	**12762**	3/32" (2.4)	1 7/32" (31.0)	3/16" (4.7)	$40.00	$35.00
1 g	**12766**	1/16" (1.6)	1 21/32" (42.1)	3/16" (4.7)	$40.00	$35.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
36092	Certificate of Accuracy	$45.00

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HOOK WEIGHTS

Avoirdupois Individual





CLASS 6

Weight	Part #	Diameter (mm)	Hanging Height (mm)	Opening Diameter (mm)	List Price	Traceable Certificate
50 lb	**12894**	6" (152.4)	9 1/4" (235.0)	1/4" (6.4)	$650.00	$75.00
25 lb	**96408**	4.5"	5.75"	1/4"	$590.00	$75.00
20 lb	**12895**	4" (101.6)	9 3/16" (233.3)	1/4" (6.4)	$425.00	$75.00
10 lb	**12896**	3 1/2" (88.9)	6 1/4" (158.8)	1/4" (6.4)	$215.00	$75.00
5 lb	**12897**	2 5/8" (66.6)	6 1/2" (165.1)	1/4" (6.4)	$150.00	$75.00
3 lb	**96409**	2.37"	4.01"	1/4"	$145.00	$75.00
2 lb	**12898**	2" (50.8)	5" (127.0)	1/4" (6.4)	$90.00	$60.00
1 lb	**12899**	1 5/8" (41.3)	4 1/2" (114.3)	1/4" (6.4)	$66.00	$60.00
0.2 lb	**96410**	0.99"	2.30"	1/4"	$60.00	$35.00
0.1 lb	**96411**	0.80"	2.14"	1/4"	$60.00	$35.00
8 oz	**12900**	1 1/4" (31.8)	4" (101.6)	1/4" (6.4)	$60.00	$35.00
4 oz	**12901**	1" (25.4)	2 1/4" (57.2)	3/16" (4.7)	$60.00	$35.00
2 oz	**12902**	13/16" (20.6)	2 1/4" (57.2)	3/16" (4.7)	$60.00	$35.00
1 oz	**12903**	5/8" (15.9)	2 1/4" (57.2)	3/16" (4.7)	$60.00	$35.00
1/2 oz	**12904**	17/32" (13.5)	2 29/32" (73.8)	3/16" (4.7)	$52.00	$35.00

CLASS 6

Weight	Part #	Diameter (mm)	Hanging Height (mm)	Opening Dia. (mm)	List Price	Traceable Certificate
1/4 oz	**12905**	5/32" (4.0)	1 13/16" (46.0)	3/16" (4.7)	$40.00	$35.00
1/8 oz	**12906**	1/8" (3.2)	1 1/8" (28.6)	3/16" (4.7)	$40.00	$35.00
1/16 oz	**12907**	3/32" (2.4)	1 1/4" (31.8)	3/16" (4.7)	$40.00	$35.00
1/32 oz	**12908**	1/16" (1.6)	1 13/32" (35.7)	3/16" (4.7)	$40.00	$35.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
36092	Certificate of Accuracy	$45.00

ELECTRONIC CALIBRATION

Metric Individual Weights and Kits

Individual



Kits



CLASS 1*

Weight	Part #	List Price	Calibration Report	Mass Value Certificate
30 kg	**12996**	$1,585.00	$375.00	$80.00
25 kg	**12995**	$1,370.00	$140.00	$75.00
24 kg	**12994**	$1,325.00	$140.00	$75.00
20 kg	**12993**	$1,200.00	$140.00	$75.00
16 kg	**12992**	$1,060.00	$140.00	$75.00
10 kg	**12991**	$765.00	$140.00	$75.00
8 kg	**12990**	$735.00	$140.00	$75.00
5 kg	**12989**	$560.00	$140.00	$75.00

CLASS 1*

Weight	Kit Part #	Kit List Price	Weight Part #	List Price	Calibration Report	Mass Value Certificate
5 kg	**12958**	$550.00	**12959**	$530.00	$140.00	$75.00
4 kg	**12956**	$488.00	**12957**	$464.00	$140.00	$75.00
3 kg	**12954**	$295.00	**12955**	$275.00	$140.00	$75.00
2 kg	**12952**	$172.00	**12953**	$152.00	$140.00	$75.00
1500 g	**12985**	$155.00	**12986**	$135.00	$140.00	$75.00
1000 g	**12971**	$140.00	**12972**	$120.00	$120.00	$55.00
600 g	**12983**	$135.00	**12984**	$115.00	$120.00	$55.00
500 g	**12950**	$118.00	**12951**	$98.00	$120.00	$55.00
400 g	**12968**	$116.00	**12969**	$96.00	$120.00	$55.00
300 g	**12966**	$100.00	**12967**	$80.00	$120.00	$55.00
200 g	**12948**	$97.00	**12949**	$77.00	$120.00	$55.00
160 g	**12981**	$96.00	**12982**	$76.00	$120.00	$55.00
150 g	**12979**	$88.00	**12980**	$68.00	$120.00	$55.00
100 g	**12946**	$80.00	**12947**	$60.00	$50.00	$40.00
50 g	**12964**	$72.00	**12965**	$52.00	$50.00	$40.00
30 g	**12962**	$72.00	**12963**	$52.00	$50.00	$40.00
20 g	**12960**	$72.00	**12961**	$52.00	$50.00	$40.00
10 g	**12944**	$72.00	**12945**	$52.00	$50.00	$40.00

REPLACEMENT CASES

Part #	Price
11462	$39.00
11463	$39.00
11464	$39.00
11465	$39.00
11467	$39.00
11468	$39.00
11469	$39.00
11470	$39.00
11471	$39.00
11472	$39.00
11473	$39.00
11474	$39.00
11475	$39.00
11476	$39.00
11480	$39.00
11481	$39.00
11482	$39.00
11483	$39.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
36092	Certificate of Accuracy	$45.00
11714	Weight gloves, white cotton	$3.00

**Note: polished finish*

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ELECTRONIC CALIBRATION

Metric Individual Weights and Kits

CLASS 2

Weight	Part #	List Price	Calibration Report	Mass Value Certificate
30 kg	**13114**	$1,400.00	$375.00	$80.00
25 kg	**13113**	$1,170.00	$140.00	$75.00
24 kg	**13112**	$1,150.00	$140.00	$75.00
20 kg	**13111**	$1,025.00	$140.00	$75.00
16 kg	**13110**	$990.00	$140.00	$75.00
10 kg	**13109**	$690.00	$140.00	$75.00
8 kg	**13108**	$670.00	$140.00	$75.00
5 kg	**13107**	$450.00	$140.00	$75.00

CLASS 2

Weight	Kit Part #	Kit List Price	Weight Part #	List Price	Calibration Report	Mass Value Certificate
5 kg	**13076**	$440.00	**13077**	$420.00	$140.00	$75.00
4 kg	**13074**	$435.00	**13075**	$415.00	$140.00	$75.00
3 kg	**13072**	$235.00	**13073**	$215.00	$140.00	$75.00
2 kg	**13070**	$155.00	**13071**	$135.00	$140.00	$75.00
1500 g	**13103**	$152.00	**13104**	$132.00	$140.00	$75.00
1000 g	**13089**	$127.00	**13090**	$107.00	$120.00	$55.00
600 g	**13101**	$125.00	**13102**	$105.00	$120.00	$55.00
500 g	**13068**	$115.00	**13069**	$95.00	$120.00	$55.00
400 g	**13086**	$110.00	**13087**	$90.00	$120.00	$55.00
300 g	**13084**	$108.00	**13085**	$88.00	$120.00	$55.00
200 g	**13066**	$94.00	**13067**	$74.00	$120.00	$55.00
160 g	**13099**	$92.00	**13100**	$72.00	$120.00	$55.00
150 g	**13097**	$84.00	**13098**	$64.00	$120.00	$55.00
100 g	**13064**	$76.00	**13065**	$56.00	$55.00	$40.00
50 g	**13082**	$75.00	**13083**	$55.00	$50.00	$40.00
30 g	**13080**	$75.00	**13081**	$55.00	$50.00	$40.00
20 g	**13078**	$75.00	**13079**	$55.00	$50.00	$40.00
10 g	**13062**	$75.00	**13063**	$55.00	$50.00	$40.00

REPLACEMENT CASES

Part #	Price
11462	$39.00
11463	$39.00
11464	$39.00
11465	$39.00
11467	$39.00
11468	$39.00
11469	$39.00
11470	$39.00
11471	$39.00
11472	$39.00
11473	$39.00
11474	$39.00
11475	$39.00
11476	$39.00
11480	$39.00
11481	$39.00
11482	$39.00
11483	$39.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
11714	Weight gloves, white, cotton	$3.00
36092	Certificate of Accuracy	$45.00

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ELECTRONIC CALIBRATION

Metric Individual Weights and Kits

Individual



Kits



CLASS 3

Weight	Part #	List Price	Calibration Report	Mass Value Certificate
30 kg	**13217**	$1,255.00	$375.00	$80.00
25 kg	**13216**	$1,090.00	$140.00	$75.00
24 kg	**13215**	$1,060.00	$140.00	$75.00
20 kg	**13214**	$930.00	$140.00	$75.00
16 kg	**13213**	$765.00	$140.00	$75.00
10 kg	**13212**	$630.00	$140.00	$75.00
8 kg	**13211**	$580.00	$140.00	$75.00
5 kg	**13210**	$435.00	$140.00	$75.00

CLASS 3

Weight	Kit Part #	Kit List Price	Weight Part #	List Price	Calibration Report	Mass Value Certificate
5 kg	**13179**	$421.00	**13180**	$401.00	$140.00	$75.00
4 kg	**13177**	$397.00	**13178**	$377.00	$140.00	$75.00
3 kg	**13175**	$225.00	**13176**	$205.00	$140.00	$75.00
2 kg	**13173**	$152.00	**13174**	$132.00	$140.00	$75.00
1500 g	**13206**	$150.00	**13207**	$130.00	$140.00	$75.00
1000 g	**13192**	$127.00	**13193**	$107.00	$120.00	$55.00
600 g	**13204**	$127.00	**13205**	$107.00	$120.00	$55.00
500 g	**13171**	$106.00	**13172**	$86.00	$120.00	$55.00
400 g	**13189**	$105.00	**13190**	$85.00	$120.00	$55.00
300 g	**13187**	$95.00	**13188**	$75.00	$120.00	$55.00
200 g	**13169**	$92.00	**13170**	$72.00	$120.00	$55.00
160 g	**13202**	$90.00	**13203**	$70.00	$120.00	$55.00
150 g	**13200**	$78.00	**13201**	$58.00	$120.00	$55.00
100 g	**13167**	$75.00	**13168**	$55.00	$50.00	$40.00
50 g	**13185**	$69.00	**13186**	$49.00	$50.00	$40.00
30 g	**13183**	$69.00	**13184**	$49.00	$50.00	$40.00
20 g	**13181**	$69.00	**13182**	$49.00	$50.00	$40.00
10 g	**13165**	$69.00	**13166**	$49.00	$50.00	$40.00

REPLACEMENT CASES

Part #	Price
11462	$39.00
11463	$39.00
11464	$39.00
11465	$39.00
11467	$39.00
11468	$39.00
11469	$39.00
11470	$39.00
11471	$39.00
11472	$39.00
11473	$39.00
11474	$39.00
11475	$39.00
11476	$39.00
11480	$39.00
11481	$39.00
11482	$39.00
11483	$39.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
11714	Weight gloves, white, cotton	$3.00
36092	Certificate of Accuracy	$45.00

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ELECTRONIC CALIBRATION

Metric Individual Weights and Kits

CLASS 4

Weight	Part #	List Price	Traceable Certificate
30 kg	**13320**	$1,105.00	$75.00
25 kg	**13319**	$985.00	$70.00
24 kg	**13318**	$935.00	$70.00
20 kg	**13317**	$800.00	$70.00
16 kg	**13316**	$700.00	$70.00
10 kg	**13315**	$550.00	$70.00
8 kg	**13314**	$548.00	$70.00
5 kg	**13313**	$345.00	$70.00

CLASS 4

Weight	Kit Part #	Kit List Price	Weight Part #	List Price	Traceable Certificate
5 kg	**13282**	$405.00	**13283**	$385.00	$70.00
4 kg	**13280**	$385.00	**13281**	$365.00	$70.00
3 kg	**13278**	$222.00	**13279**	$202.00	$70.00
2 kg	**13276**	$145.00	**13277**	$125.00	$70.00
1500 g	**13309**	$142.00	**13310**	$122.00	$70.00
1000 g	**13295**	$127.00	**13296**	$107.00	$70.00
600 g	**13307**	$125.00	**13308**	$105.00	$50.00
500 g	**13274**	$102.00	**13275**	$82.00	$50.00
400 g	**13292**	$100.00	**13293**	$80.00	$50.00
300 g	**13290**	$90.00	**13291**	$70.00	$50.00
200 g	**13272**	$86.00	**13273**	$66.00	$50.00
160 g	**13305**	$85.00	**13306**	$65.00	$50.00
150 g	**13303**	$75.00	**13304**	$55.00	$35.00
100 g	**13270**	$70.00	**13271**	$50.00	$35.00
50 g	**13288**	$68.00	**13289**	$48.00	$35.00
30 g	**13286**	$68.00	**13287**	$48.00	$35.00
20 g	**13284**	$68.00	**13285**	$48.00	$35.00
10 g	**13268**	$68.00	**13269**	$48.00	$35.00

REPLACEMENT CASES

Part #	Price
11462	$39.00
11463	$39.00
11464	$39.00
11465	$39.00
11467	$39.00
11468	$39.00
11469	$39.00
11470	$39.00
11471	$39.00
11472	$39.00
11473	$39.00
11474	$39.00
11475	$39.00
11476	$39.00
11480	$39.00
11481	$39.00
11482	$39.00
11483	$39.00

ASTM

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
11714	Weight gloves, white, cotton	$3.00
36092	Certificate of Accuracy	$45.00

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ELECTRONIC CALIBRATION

Avoirdupois Individual Weights and Kits

Individual



Kits



CLASS 1*

Weight	Part #	List Price	Calibration Report	Mass Value Certificate
50 lb	**13038**	$1,365.00	$275.00	$80.00
30 lb	**13037**	$1,060.00	$125.00	$80.00
25 lb	**13036**	$765.00	$125.00	$80.00
20 lb	**13035**	$760.00	$125.00	$80.00
10 lb	**13034**	$555.00	$125.00	$80.00

CLASS 1*

Weight	Kit Part #	Kit List Price	Weight Part #	List Price	Calibration Report	Mass Value Certificate
10 lb	**13021**	$550.00	**13022**	$530.00	$125.00	$80.00
5 lb	**13019**	$295.00	**13020**	$275.00	$125.00	$80.00
4 lb	**13017**	$172.00	**13018**	$152.00	$125.00	$80.00
3 lb	**13015**	$155.00	**13016**	$135.00	$125.00	$80.00
2 lb	**13013**	$140.00	**13014**	$120.00	$100.00	$65.00
1 lb	**13011**	$116.00	**13012**	$96.00	$100.00	$65.00
8 oz	**13009**	$100.00	**13010**	$80.00	$50.00	$40.00
4 oz	**13007**	$95.00	**13008**	$75.00	$50.00	$40.00
2 oz	**13005**	$92.00	**13006**	$72.00	$50.00	$40.00
1 oz	**13003**	$90.00	**13004**	$70.00	$50.00	$40.00
1/2 oz	**13001**	$89.00	**13002**	$67.00	$50.00	$40.00
0.5 lb	**13032**	$100.00	**13033**	$80.00	$50.00	$40.00
0.2 lb	**13024**	$95.00	**13025**	$75.00	$50.00	$40.00
0.1 lb	**13026**	$92.00	**13027**	$72.00	$50.00	$40.00
0.05 lb	**13028**	$87.00	**13029**	$67.00	$50.00	$40.00

REPLACEMENT CASES

Part #	Price
11462	$39.00
11496	$39.00
11465	$39.00
11495	$39.00
11468	$39.00
82983	$39.00
11491	$39.00
11494	$39.00
11479	$39.00
11493	$39.00
11492	$39.00
11491	$39.00
11479	$39.00
11478	$39.00
82982	$39.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
11714	Weight gloves, white, cotton	$3.00
36092	Certificate of Accuracy	$45.00

**Note: polished finish*

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ELECTRONIC CALIBRATION

Avoirdupois Individual Weights and Kits

CLASS 2

Weight	Part #	List Price	Calibration Report	Mass Value Certificate
50 lb	**13155**	$1,170.00	$275.00	$80.00
30 lb	**13154**	$865.00	$125.00	$80.00
25 lb	**13153**	$670.00	$125.00	$80.00
20 lb	**13152**	$645.00	$125.00	$80.00
10 lb	**13151**	$450.00	$125.00	$80.00

CLASS 2

Weight	Kit Part #	Kit List Price	Weight Part #	List Price	Calibration Report	Mass Value Certificate
10 lb	**13138**	$440.00	**13139**	$420.00	$125.00	$80.00
5 lb	**13136**	$235.00	**13137**	$215.00	$125.00	$80.00
4 lb	**13134**	$165.00	**13135**	$145.00	$125.00	$80.00
3 lb	**13132**	$152.00	**13133**	$132.00	$125.00	$80.00
2 lb	**13130**	$127.00	**13131**	$107.00	$100.00	$65.00
1 lb	**13128**	$115.00	**13129**	$95.00	$100.00	$65.00
8 oz	**13126**	$94.00	**13127**	$74.00	$50.00	$40.00
4 oz	**13124**	$77.00	**13125**	$57.00	$50.00	$40.00
2 oz	**13122**	$75.00	**13123**	$55.00	$50.00	$40.00
1 oz	**13120**	$75.00	**13121**	$55.00	$50.00	$40.00
1/2 oz	**13118**	$75.00	**13119**	$55.00	$50.00	$40.00
0.5 lb	**13149**	$94.00	**13150**	$74.00	$50.00	$40.00
0.2 lb	**13141**	$75.00	**13142**	$55.00	$50.00	$40.00
0.1 lb	**13143**	$75.00	**13144**	$55.00	$50.00	$40.00
0.05 lb	**13145**	$75.00	**13146**	$55.00	$50.00	$40.00

REPLACEMENT CASES

Part #	Price
11462	$39.00
11496	$39.00
11465	$39.00
11495	$39.00
11468	$39.00
82983	$39.00
11491	$39.00
11494	$39.00
11479	$39.00
11493	$39.00
11492	$39.00
11491	$39.00
11479	$39.00
11478	$39.00
82982	$39.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
11714	Weight gloves, white, cotton	$3.00
36092	Certificate of Accuracy	$45.00

ASTM

ELECTRONIC CALIBRATION

Avoirdupois Individual Weights and Kits

Individual



Kits



CLASS 3

Weight	Part #	List Price	Calibration Report	Mass Value Certificate
50 lb	**13258**	$1,090.00	$275.00	$80.00
30 lb	**13257**	$765.00	$125.00	$80.00
25 lb	**13256**	$580.00	$125.00	$80.00
20 lb	**13255**	$560.00	$125.00	$80.00
10 lb	**13254**	$435.00	$125.00	$80.00

CLASS 3 | **REPLACEMENT CASES**

Weight	Kit Part #	Kit List Price	Weight Part #	List Price	Calibration Report	Mass Value Certificate	Part #	Price
10 lb	**13241**	$397.00	**13242**	$377.00	$125.00	$80.00	**11462**	$39.00
5 lb	**13239**	$235.00	**13240**	$215.00	$125.00	$80.00	**11496**	$39.00
4 lb	**13237**	$175.00	**13238**	$135.00	$125.00	$80.00	**11465**	$39.00
3 lb	**13235**	$150.00	**13236**	$130.00	$125.00	$80.00	**11495**	$39.00
2 lb	**13233**	$127.00	**13234**	$107.00	$100.00	$65.00	**11468**	$39.00
1 lb	**13231**	$106.00	**13232**	$86.00	$100.00	$65.00	**82983**	$39.00
8 oz	**13229**	$92.00	**13230**	$72.00	$50.00	$40.00	**11491**	$39.00
4 oz	**13227**	$75.00	**13228**	$55.00	$50.00	$40.00	**11494**	$39.00
2 oz	**13225**	$75.00	**13226**	$55.00	$50.00	$40.00	**11479**	$39.00
1 oz	**13223**	$74.00	**13224**	$54.00	$50.00	$40.00	**11493**	$39.00
1/2 oz	**13221**	$74.00	**13222**	$54.00	$50.00	$40.00	**11492**	$39.00
0.5 lb	**13252**	$92.00	**13253**	$72.00	$50.00	$40.00	**11491**	$39.00
0.2 lb	**13244**	$69.00	**13245**	$49.00	$50.00	$40.00	**11479**	$39.00
0.1 lb	**13246**	$69.00	**13247**	$49.00	$50.00	$40.00	**11478**	$39.00
0.05 lb	**13248**	$69.00	**13249**	$49.00	$50.00	$40.00	**82982**	$39.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
11714	Weight gloves, white, cotton	$3.00
36092	Certificate of Accuracy	$45.00

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ELECTRONIC CALIBRATION

Avoirdupois Individual Weights and Kits

CLASS 4

Weight	Part #	List Price	Traceable Certificate
50 lb	**13361**	$985.00	$75.00
30 lb	**13360**	$705.00	$75.00
25 lb	**13359**	$525.00	$75.00
20 lb	**13358**	$395.00	$75.00
10 lb	**13357**	$345.00	$75.00

CLASS 4

Weight	Kit Part #	Kit List Price	Weight Part #	List Price	Traceable Certificate
10 lb	**13344**	$382.00	**13345**	$362.00	$75.00
5 lb	**13342**	$225.00	**13343**	$205.00	$75.00
4 lb	**13340**	$155.00	**13341**	$135.00	$75.00
3 lb	**13338**	$145.00	**13339**	$125.00	$75.00
2 lb	**13336**	$127.00	**13337**	$107.00	$60.00
1 lb	**13334**	$102.00	**13335**	$82.00	$60.00
8 oz	**13332**	$86.00	**13333**	$66.00	$35.00
4 oz	**13330**	$78.00	**13331**	$58.00	$35.00
2 oz	**13328**	$74.00	**13329**	$54.00	$35.00
1 oz	**13326**	$68.00	**13327**	$48.00	$35.00
1/2 oz	**13324**	$68.00	**13325**	$48.00	$35.00
0.5 lb	**13355**	$86.00	**13356**	$66.00	$35.00
0.2 lb	**13347**	$67.00	**13348**	$47.00	$35.00
0.1 lb	**13349**	$67.00	**13350**	$47.00	$35.00
0.05 lb	**13351**	$67.00	**13352**	$47.00	$35.00

REPLACEMENT CASES

Part #	Price
11462	$39.00
11496	$39.00
11465	$39.00
11495	$39.00
11468	$39.00
82983	$39.00
11491	$39.00
11494	$39.00
11479	$39.00
11493	$39.00
11492	$39.00
11491	$39.00
11479	$39.00
11478	$39.00
82982	$39.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
36092	Certificate of Accuracy	$45.00
11714	Weight gloves, white, cotton	$3.00

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PRECISION LABORATORY

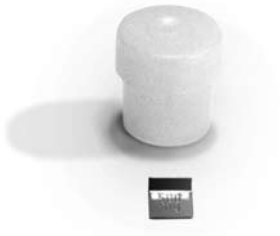
Metric Individual Weights and Kits

Single piece style, Class 0



Kit pictured

Leaf



Kit pictured

CLASS 0*

Size	Kit Part #	Kit List Price	Weight** (Part #)	List Price	Calibration Report
50 kg	**Consult**	Consult	**Consult**	Consult	Consult
25 kg	**Consult**	Consult	**Consult**	Consult	Consult
20 kg	**45856**	$3,265.00	**46097**	$3,165.00	$140.00
10 kg	**45857**	$2,020.00	**46096**	$1,920.00	$140.00
5 kg	**45858**	$1,400.00	**46095**	$1,300.00	$140.00
3 kg	**45859**	$1,200.00	**46094**	$1,180.00	$140.00
2 kg	**45860**	$930.00	**46093**	$910.00	$140.00
1 kg	**45861**	$670.00	**46092**	$650.00	$120.00
500 g	**45862**	$355.00	**46091**	$340.00	$120.00
300 g	**45863**	$325.00	**46090**	$310.00	$120.00
200 g	**45864**	$285.00	**46089**	$270.00	$120.00
100 g	**45865**	$205.00	**46088**	$190.00	$50.00
50 g	**45866**	$180.00	**46087**	$165.00	$50.00
30 g	**45867**	$170.00	**46086**	$155.00	$50.00
20 g	**45868**	$170.00	**46085**	$155.00	$50.00
10 g	**45869**	$170.00	**46084**	$155.00	$50.00
5 g	**45870**	$170.00	**46083**	$155.00	$50.00
3 g	**45871**	$170.00	**46082**	$155.00	$50.00
2 g	**45872**	$170.00	**46081**	$155.00	$50.00
1 g	**45873**	$170.00	**46080**	$155.00	$45.00

REPLACEMENT CASES

Part #	List Price
Consult	Consult
Consult	Consult
Consult	Consult
Consult	Consult
Consult	Consult
Consult	Consult
Consult	Consult
Consult	Consult
Consult	Consult
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Consult	Consult
Consult	Consult
Consult	Consult
Consult	Consult
Consult	Consult
Consult	Consult
Consult	Consult
Consult	Consult

CLASS 0*

Size	Kit Part #	Kit List Price	Weight** (Part #)	List Price	Calibration Report
500 mg	**45874**	$146.00	**46079**	$145.00	$50.00
300 mg	**45875**	$146.00	**46078**	$145.00	$50.00
200 mg	**45876**	$146.00	**46077**	$145.00	$50.00
100 mg	**45877**	$146.00	**46076**	$145.00	$50.00
50 mg	**45878**	$146.00	**46075**	$145.00	$50.00
30 mg	**45879**	$146.00	**46074**	$145.00	$50.00
20 mg	**45880**	$146.00	**46073**	$145.00	$50.00
10 mg	**45881**	$146.00	**46072**	$145.00	$50.00
5 mg	**45882**	$146.00	**46071**	$145.00	$50.00
3 mg	**45883**	$146.00	**46070**	$145.00	$50.00
2 mg	**45884**	$146.00	**46069**	$145.00	$50.00
1 mg	**45885**	$146.00	**46068**	$145.00	$50.00

**Certificate of Accuracy is not available for Class 0 and require case for shipping.*

***For special kits-Individual weights must ship in a case.*

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
11711	Weight tweezers, plastic, for polished weights 100 g and below	$3.00
11714	Weight gloves, white, cotton	$3.00
11755	Leaf weight lid	$32.00
11747	Weight lifter bar, plexiglas, for weights 200 g - 3 kg and 8 oz - 5 lb (screw knob weights only)	$13.00
11712	Lifter with larger handle (Class 1-4/4 kg - 25 kg) (10 lb/50 lb)	$56.00
50035	Weigh forceps, plastic, Class 0, 100 g - 1 mg	$25.00
50000	Tong assembly, Class 0, 1 kg x 200 g	$56.00
36092	Certificate of Accuracy	$45.00

RICE LAKE WEIGHING SYSTEMS

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PRECISION LABORATORY

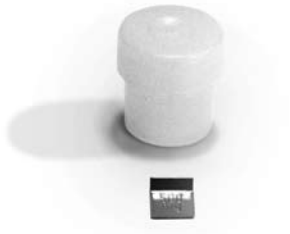
Metric Individual Weights and Kits

Screw-Knob



Kit pictured

Leaf



Kit pictured

CLASS 1

Size	Kit Part #	Kit List Price	Weight** Part #	List Price	Calibration Report	Mass Value Certificate
50 kg	**Consult**	Consult	**Consult**	Consult	Consult	Consult
25 kg	**Consult**	Consult	**11876**	$3,420.00	Consult	Consult
20 kg	**82590**	$2,900.00	**11875**	$2,800.00	$140.00	$75.00
10 kg	**82591**	$1,650.00	**11874**	$1,550.00	$140.00	$75.00
5 kg	**82592**	$950.00	**11872**	$850.00	$140.00	$75.00
3 kg	**82593**	$750.00	**11871**	$730.00	$140.00	$75.00
2 kg	**82594**	$595.00	**11870**	$575.00	$140.00	$75.00
1 kg	**82595**	$425.00	**11869**	$400.00	$120.00	$55.00
500 g	**82596**	$180.00	**11867**	$165.00	$120.00	$55.00
300 g	**82597**	$140.00	**11866**	$125.00	$120.00	$55.00
200 g	**82598**	$130.00	**11865**	$115.00	$120.00	$55.00
100 g	**82599**	$90.00	**11864**	$75.00	$50.00	$40.00
50 g	**82600**	$80.00	**11862**	$65.00	$50.00	$40.00
30 g	**82601**	$78.00	**11861**	$63.00	$50.00	$40.00
20 g	**82602**	$60.00	**11860**	$50.00	$50.00	$40.00
10 g	**82603**	$60.00	**11859**	$50.00	$50.00	$40.00
5 g	**82604**	$60.00	**11857**	$50.00	$50.00	$40.00
3 g	**82605**	$60.00	**11856**	$50.00	$50.00	$40.00
2 g	**82606**	$60.00	**11855**	$50.00	$50.00	$40.00
1 g	**82607**	$60.00	**11854**	$50.00	$50.00	$40.00

REPLACEMENT CASES

Part #	List Price
Consult	Consult
Consult	Consult
80703	$197.00
80704	$197.00
80705	$142.00
80706	$39.00
80707	$39.00
80708	$39.00
80709	$25.00
80710	$25.00
80711	$25.00
80712	$25.00
80713	$25.00
80714	$25.00
80715	$25.00
80716	$25.00
80717	$25.00
80718	$25.00
80719	$25.00
80720	$25.00

CLASS 1

Size	Kit Part #	Kit List Price	Weight** Part #	List Price	Calibration Report	Mass Value Certificate
500 mg	**80458**	$55.00	**11852**	$54.00	$50.00	$40.00
300 mg	**80459**	$55.00	**11851**	$54.00	$50.00	$40.00
200 mg	**80460**	$55.00	**11850**	$54.00	$50.00	$40.00
100 mg	**80461**	$55.00	**11849**	$54.00	$50.00	$40.00
50 mg	**80462**	$55.00	**11847**	$54.00	$50.00	$40.00
30 mg	**80463**	$55.00	**11846**	$54.00	$50.00	$40.00
20 mg	**80464**	$55.00	**11845**	$54.00	$50.00	$40.00
10 mg	**80465**	$55.00	**11844**	$54.00	$50.00	$40.00
5 mg	**80466**	$55.00	**11842**	$54.00	$50.00	$40.00
3 mg	**80467**	$55.00	**11841**	$54.00	$50.00	$40.00
2 mg	**80468**	$55.00	**11840**	$54.00	$50.00	$40.00
1 mg	**80469**	$55.00	**11839**	$54.00	$50.00	$40.00
0.5 mg	**36076***	$80.00	**N/A**	N/A	$50.00	$40.00

** Wire weight*

***For special kits-Individual weights must ship in a case.*

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
11711	Weight tweezers, plastic, for polished weights 100 g and below	$3.00
11714	Weight gloves, white, cotton	$3.00
11755	Leaf weight lid	$32.00
11747	Weight lifter bar, plexiglas, for weights 200 g - 3 kg and 8 oz - 5 lb (screw knob weights only)	$13.00
11712	Lifter with larger handle (Class 1-4/4 kg - 25 kg) (10 lb/50 lb)	$56.00
50035	Weigh forceps, plastic, Class 0, 100 g - 1 mg	$25.00
50000	Tong assembly, Class 0, 1 kg x 200 g	$56.00
36092	Certificate of Accuracy	$45.00

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PRECISION LABORATORY

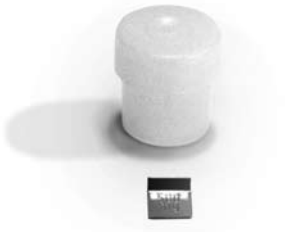
Metric Individual Weights and Kits

Screw-Knob



Kit pictured

Leaf



Kit pictured

CLASS 2

Size	Kit Part #	Kit List Price	Weight* Part #	List Price	Calibration Report	Mass Value Certificate
50 kg	**Consult**	Consult	**Consult**	Consult	Consult	Consult
25 kg	**Consult**	Consult	**12131**	$3,200.00	Consult	Consult
20 kg	**82632**	$1,950.00	**12130**	$1,850.00	$140.00	$75.00
10 kg	**82633**	$1,580.00	**12129**	$1,450.00	$140.00	$75.00
5 kg	**82634**	$915.00	**12127**	$815.00	$140.00	$75.00
3 kg	**82635**	$720.00	**12126**	$700.00	$140.00	$75.00
2 kg	**82636**	$555.00	**12125**	$535.00	$140.00	$75.00
1 kg	**82637**	$370.00	**12124**	$350.00	$120.00	$55.00
500 g	**82638**	$175.00	**12122**	$160.00	$120.00	$55.00
300 g	**82639**	$130.00	**12121**	$115.00	$120.00	$55.00
200 g	**82640**	$125.00	**12120**	$110.00	$120.00	$55.00
100 g	**82641**	$95.00	**12119**	$80.00	$50.00	$40.00
50 g	**82642**	$83.00	**12117**	$68.00	$50.00	$40.00
30 g	**82643**	$75.00	**12116**	$60.00	$50.00	$40.00
20 g	**82644**	$59.00	**12115**	$49.00	$50.00	$40.00
10 g	**82645**	$59.00	**12114**	$49.00	$50.00	$40.00
5 g	**82646**	$59.00	**12112**	$49.00	$50.00	$40.00
3 g	**82647**	$59.00	**12111**	$49.00	$50.00	$40.00
2 g	**82648**	$59.00	**12110**	$49.00	$50.00	$40.00
1 g	**82649**	$59.00	**12109**	$49.00	$50.00	$40.00

REPLACEMENT CASES

Part #	List Price
Consult	Consult
Consult	Consult
80703	$197.00
80704	$197.00
80705	$142.00
80706	$39.00
80707	$39.00
80708	$39.00
80709	$25.00
80710	$25.00
80711	$25.00
80712	$25.00
80713	$25.00
80714	$25.00
80715	$25.00
80716	$25.00
80717	$25.00
80718	$25.00
80719	$25.00
80720	$25.00

CLASS 2

Size	Kit Part #	Kit List Price	Weight* Part #	List Price	Calibration Report	Mass Value Certificate
500 mg	**80470**	$33.00	**12107**	$32.00	$50.00	$40.00
300 mg	**80471**	$33.00	**12106**	$32.00	$50.00	$40.00
200 mg	**80472**	$33.00	**12105**	$32.00	$50.00	$40.00
100 mg	**80473**	$33.00	**12104**	$32.00	$50.00	$40.00
50 mg	**80474**	$33.00	**12102**	$32.00	$50.00	$40.00
30 mg	**80475**	$33.00	**12101**	$32.00	$50.00	$40.00
20 mg	**80476**	$33.00	**12100**	$32.00	$50.00	$40.00
10 mg	**80477**	$33.00	**12099**	$32.00	$50.00	$40.00
5 mg	**80478**	$33.00	**12097**	$32.00	$50.00	$40.00
3 mg	**80479**	$33.00	**12096**	$32.00	$50.00	$40.00
2 mg	**80480**	$33.00	**12095**	$32.00	$50.00	$40.00
1 mg	**80481**	$33.00	**12094**	$32.00	$50.00	$40.00

**For special kits-Individual weights must ship in a case.*

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
11711	Weight tweezers, plastic, for polished weights 100 g and below	$3.00
11714	Weight gloves, white, cotton	$3.00
11755	Leaf weight lid	$32.00
11747	Weight lifter bar, plexiglas, for weights 200 g - 3 kg and 8 oz - 5 lb (screw knob weights only)	$13.00
11712	Lifter with larger handle (Class 1-4/4 kg - 25 kg) (10 lb/50 lb)	$56.00
50035	Weigh forceps, plastic, Class 0, 100 g - 1 mg	$25.00
50000	Tong assembly, Class 0, 1 kg x 200 g	$56.00
36092	Certificate of Accuracy	$45.00

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PRECISION LABORATORY

Metric Individual Weights and Kits

CLASS 3							REPLACEMENT CASES	
Size	Kit Part #	Kit List Price	Weight* Part #	List Price	Calibration Report	Mass Value Certificate	Part #	List Price
50 kg	**Consult**	Consult	**12274**	Consult	Consult	Consult	**Consult**	Consult
25 kg	**Consult**	Consult	**12272**	$3,145.00	Consult	Consult	**Consult**	Consult
20 kg	**82674**	$1,925.00	**12271**	$1,825.00	$140.00	$75.00	**80703**	$197.00
10 kg	**82675**	$1,450.00	**12270**	$1,350.00	$140.00	$75.00	**80704**	$197.00
5 kg	**82676**	$945.00	**12269**	$845.00	$140.00	$75.00	**80705**	$142.00
3 kg	**82677**	$695.00	**12268**	$675.00	$140.00	$75.00	**80706**	$39.00
2 kg	**82678**	$550.00	**12267**	$530.00	$140.00	$75.00	**80707**	$39.00
1 kg	**82679**	$360.00	**12266**	$345.00	$120.00	$55.00	**80708**	$39.00
500 g	**82680**	$170.00	**12265**	$155.00	$120.00	$55.00	**80709**	$25.00
300 g	**82681**	$127.00	**12264**	$112.00	$120.00	$55.00	**80710**	$25.00
200 g	**82682**	$120.00	**12263**	$105.00	$120.00	$55.00	**80711**	$25.00
100 g	**82683**	$90.00	**12262**	$75.00	$50.00	$40.00	**80712**	$25.00
50 g	**82684**	$78.00	**12261**	$63.00	$50.00	$40.00	**80713**	$25.00
30 g	**82685**	$77.00	**12260**	$62.00	$50.00	$40.00	**80714**	$25.00
20 g	**82686**	$58.00	**12259**	$48.00	$50.00	$40.00	**80715**	$25.00
10 g	**82687**	$58.00	**12258**	$48.00	$50.00	$40.00	**80716**	$25.00
5 g	**82688**	$54.00	**12257**	$44.00	$50.00	$40.00	**80717**	$25.00
3 g	**82689**	$54.00	**12256**	$44.00	$50.00	$40.00	**80718**	$25.00
2 g	**82690**	$54.00	**12255**	$44.00	$50.00	$40.00	**80719**	$25.00
1 g	**82691**	$54.00	**12254**	$44.00	$50.00	$40.00	**80720**	$25.00

CLASS 3

Size	Kit Part #	Kit List Price	Weight* Part #	List Price	Calibration Report	Mass Value Certificate
500 mg	**80482**	$30.00	**12253**	$29.00	$50.00	$40.00
300 mg	**80483**	$30.00	**12252**	$29.00	$50.00	$40.00
200 mg	**80484**	$30.00	**12251**	$29.00	$50.00	$40.00
100 mg	**80485**	$30.00	**12250**	$29.00	$50.00	$40.00
50 mg	**80486**	$30.00	**12248**	$29.00	$50.00	$40.00
30 mg	**80487**	$30.00	**12247**	$29.00	$50.00	$40.00
20 mg	**80488**	$30.00	**12246**	$29.00	$50.00	$40.00
10 mg	**80489**	$30.00	**12245**	$29.00	$50.00	$40.00
5 mg	**80490**	$30.00	**12244**	$29.00	$50.00	$40.00
3 mg	**80491**	$30.00	**12243**	$29.00	$50.00	$40.00
2 mg	**80492**	$30.00	**12242**	$29.00	$50.00	$40.00
1 mg	**80493**	$30.00	**12241**	$29.00	$50.00	$40.00

**For special kits-Individual weights must ship in a case.*

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
11711	Weight tweezers, plastic, for polished weights 100 g and below	$3.00
11714	Weight gloves, white, cotton	$3.00
11755	Leaf weight lid	$32.00
11747	Weight lifter bar, plexiglas, for weights 200 g - 3 kg and 8 oz - 5 lb (screw knob weights only)	$13.00
11712	Lifter with larger handle (Class 1-4/4 kg - 25 kg) (10 lb/50 lb)	$56.00
50035	Weigh forceps, plastic, Class 0, 100 g - 1 mg	$25.00
50000	Tong assembly, Class 0, 1 kg x 200 g	$56.00
36092	Certificate of Accuracy	$45.00

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PRECISION LABORATORY

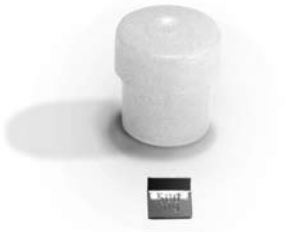
Metric Individual Weights and Kits

Screw-Knob



Kit pictured

Leaf



Kit pictured

CLASS 4

Size	Kit Part #	Kit List Price	Weight* Part #	List Price	Traceable Certificate
50 kg	**Consult**	Consult	**Consult**	Consult	Consult
25 kg	**Consult**	Consult	**12375**	$3,080.00	Consult
20 kg	**82716**	$1,800.00	**12374**	$1,700.00	$70.00
10 kg	**82717**	$1,300.00	**12373**	$1,200.00	$70.00
5 kg	**82718**	$900.00	**12372**	$800.00	$70.00
3 kg	**82719**	$650.00	**12371**	$630.00	$70.00
2 kg	**82720**	$525.00	**12370**	$505.00	$70.00
1 kg	**82721**	$345.00	**12369**	$330.00	$50.00
500 g	**82722**	$165.00	**12368**	$150.00	$50.00
300 g	**82723**	$121.00	**12367**	$106.00	$50.00
200 g	**82724**	$108.00	**12366**	$93.00	$50.00
100 g	**82725**	$75.00	**12365**	$60.00	$35.00
50 g	**82726**	$67.00	**12364**	$52.00	$35.00
30 g	**82727**	$65.00	**12363**	$50.00	$35.00
20 g	**82728**	$55.00	**12362**	$45.00	$35.00
10 g	**82729**	$47.00	**12361**	$37.00	$35.00
5 g	**82730**	$45.00	**12360**	$35.00	$35.00
3 g	**82731**	$45.00	**12359**	$35.00	$35.00
2 g	**82732**	$45.00	**12358**	$35.00	$35.00
1 g	**82733**	$45.00	**12357**	$35.00	$35.00

REPLACEMENT CASES

Part #	List Price
Consult	Consult
Consult	Consult
80703	197.00
80704	197.00
80705	142.00
80706	39.00
80707	39.00
80708	39.00
80709	25.00
80710	25.00
80711	25.00
80712	25.00
80713	25.00
80714	25.00
80715	25.00
80716	25.00
80717	25.00
80718	25.00
80719	25.00
80720	25.00

CLASS 4

Size	Kit Part #	Kit List Price	Weight* Part #	List Price	Traceable Certificate
500 mg	**80494**	$25.00	**12356**	$24.00	$35.00
300 mg	**80495**	$25.00	**12355**	$24.00	$35.00
200 mg	**80496**	$25.00	**12354**	$24.00	$35.00
100 mg	**80497**	$25.00	**12353**	$24.00	$35.00
50 mg	**80498**	$25.00	**12352**	$24.00	$35.00
30 mg	**80499**	$25.00	**12351**	$24.00	$35.00
20 mg	**80500**	$25.00	**12350**	$24.00	$35.00
10 mg	**80501**	$25.00	**22198**	$24.00	$35.00
5 mg	**80502**	$25.00	**22197**	$24.00	$35.00
3 mg	**80503**	$25.00	**22196**	$24.00	$35.00
2 mg	**80504**	$25.00	**22195**	$24.00	$35.00
1 mg	**80505**	$25.00	**22194**	$24.00	$35.00

**For special kits-Individual weights must ship in a case.*

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
11711	Weight tweezers, plastic, for polished weights 100 g and below	$3.00
11714	Weight gloves, white, cotton	$3.00
11755	Leaf weight lid	$32.00
11747	Weight lifter bar, plexiglas, for weights 200 g - 3 kg and 8 oz - 5 lb (screw knob weights only)	$13.00
11712	Lifter with larger handle (Class 1-4/4 kg - 25 kg) (10 lb/50 lb)	$56.00
50035	Weigh forceps, plastic, Class 0, 100 g - 1 mg	$25.00
50000	Tong assembly, Class 0, 1 kg x 200 g	$56.00
36092	Certificate of Accuracy	$45.00

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Notes

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PRECISION LABORATORY

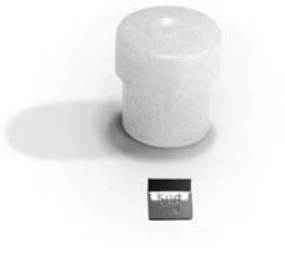
Avoirdupois Individual Weights and Kits

Screw-Knob



Kit pictured

Leaf



Kit pictured

CLASS 1

Size	Kit Part #	Kit List Price	Weight* Part #	List Price	Calibration Report	Mass Value Certificate
50 lb	-	-	**12056**	$3,950.00	-	-
30 lb	**82581**	$3,010.00	**12055**	$2,910.00	$125.00	$80.00
25 lb	**82580**	$2,540.00	**12054**	$2,440.00	$125..00	$80.00
20 lb	**82579**	$2,070.00	**12053**	$1,970.00	$125.00	$80.00
10 lb	**82578**	$1,215.00	**12052**	$1,115.00	$125.00	$80.00
5 lb	**82589**	$874.00	**12050**	$830.00	$125.00	$80.00
4 lb	**82588**	$741.00	**12049**	$703.00	$125.00	$80.00
3 lb	**82587**	$557.00	**12048**	$529.00	$125.00	$80.00
2 lb	**82586**	$493.00	**12047**	$469.00	$100.00	$65.00
1 lb	**82585**	$245.00	**12046**	$223.00	$100.00	$65.00
8 oz	**82584**	$203.00	**12044**	$193.00	$50.00	$40.00
0.5 lb	**82570**	$208.00	**12034**	$198.00	$50.00	$40.00
0.2 lb	**82569**	$132.00	**12033**	$122.00	$50.00	$40.00
0.1 lb	**82568**	$98.00	**12032**	$88.00	$50.00	$40.00
0.05 lb	**82567**	$79.00	**12027**	$69.00	$50.00	$40.00
0.02 lb	**82566**	$62.00	**12022**	$52.00	$50.00	$40.00
0.01 lb	**82565**	$59.00	**12020**	$49.00	$50.00	$40.00
0.005 lb	**82564**	$59.00	**12013**	$49.00	$50.00	$40.00
4 oz	**82577**	$115.00	**12043**	$105.00	$50.00	$40.00
2 oz	**82576**	$98.00	**12042**	$88.00	$50.00	$40.00
1 oz	**82575**	$80.00	**12041**	$70.00	$50.00	$40.00
1/2 oz	**82574**	$59.00	**12040**	$49.00	$50.00	$40.00
1/4 oz	**82573**	$59.00	**12039**	$49.00	$50.00	$40.00
1/8 oz	**82572**	$59.00	**12038**	$49.00	$50.00	$40.00
1/16 oz	**82571**	$59.00	**12037**	$49.00	$50.00	$40.00

REPLACEMENT CASES

Part #	List Price
-	-
80743	$197.00
80742	$197.00
80741	$197.00
80740	$197.00
80739	$50.00
80738	$50.00
80737	$50.00
80736	$50.00
80735	$50.00
80734	$25.00
80724	$25.00
80726	$25.00
80725	$25.00
80724	$25.00
80723	$25.00
80722	$25.00
80721	$25.00
80733	$25.00
80732	$25.00
80731	$25.00
80730	$25.00
80729	$25.00
80728	$25.00
80719	$25.00

CLASS 1

Size	Kit Part #	Kit List Price	Weight* Part #	List Price	Calibration Report	Mass Value Certificate
0.001 lb	**80428**	$51.00	**12007**	$49.00	$45.00	$35.00
0.002 lb	**80439**	$51.00	**12009**	$49.00	$45.00	$35.00
1/32 oz	**80442**	$51.00	**12036**	$49.00	$45.00	$35.00

**For special kits-Individual weights must ship in a case.*

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
11714	Weight gloves, white, cotton	$3.00
11747	Lifting bar	$13.00
11711	Weight tweezers	$3.00
36092	Certificate of Accuracy	$45.00
50038	Vial	$3.00

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PRECISION LABORATORY

Avoirdupois Individual Weights and Kits

	CLASS 2						REPLACEMENT CASES	
Size	Kit Part #	Kit List Price	Weight* Part #	List Price	Calibration Report	Mass Value Certificate	Part #	List Price
50 lb	-	-	**12202**	$3,890.00	-	-	-	-
30 lb	**82625**	$2,935.00	**12201**	$2,835.00	$125.00	$80.00	**80743**	$197.00
25 lb	**82624**	$2,490.00	**12200**	$2,390.00	$125.00	$80.00	**80742**	$197.00
20 lb	**82623**	$2,015.00	**12199**	$1,915.00	$125.00	$80.00	**80741**	$197.00
10 lb	**82622**	$1,185.00	**12198**	$1,085.00	$125.00	$80.00	**80740**	$197.00
5 lb	**82631**	$841.00	**12196**	$799.00	$125.00	$80.00	**80739**	$50.00
4 lb	**82630**	$707.00	**12195**	$642.00	$125.00	$80.00	**80738**	$50.00
3 lb	**82629**	$510.00	**12194**	$485.00	$125.00	$80.00	**80737**	$50.00
2 lb	**82628**	$464.00	**12193**	$441.00	$100.00	$65.00	**80736**	$50.00
1 lb	**82627**	$233.00	**12192**	$222.00	$100.00	$65.00	**80735**	$50.00
8 oz	**82626**	$197.00	**12190**	$188.00	$50.00	$40.00	**80734**	$25.00
0.5 lb	**82614**	$196.00	**12180**	$186.00	$50.00	$40.00	**80734**	$25.00
0.2 lb	**82613**	$130.00	**12179**	$120.00	$50.00	$40.00	**80726**	$25.00
0.1 lb	**82612**	$91.00	**12178**	$81.00	$50.00	$40.00	**80725**	$25.00
0.05 lb	**82611**	$80.00	**12173**	$70.00	$50.00	$40.00	**80724**	$25.00
0.02 lb	**82610**	$60.00	**12168**	$50.00	$50.00	$40.00	**80723**	$25.00
0.01 lb	**82609**	$59.00	**12166**	$49.00	$50.00	$40.00	**80722**	$25.00
0.005 lb	**82608**	$59.00	**12159**	$49.00	$50.00	$40.00	**80721**	$25.00
4 oz	**82621**	$110.00	**12189**	$110.00	$50.00	$40.00	**80733**	$25.00
2 oz	**82620**	$91.00	**12188**	$81.00	$50.00	$40.00	**80732**	$25.00
1 oz	**82619**	$80.00	**12187**	$70.00	$50.00	$40.00	**80731**	$25.00
1/2 oz	**82618**	$59.00	**12186**	$49.00	$50.00	$40.00	**80730**	$25.00
1/4 oz	**82617**	$59.00	**12185**	$49.00	$50.00	$40.00	**80729**	$25.00
1/8 oz	**82616**	$54.00	**12184**	$44.00	$50.00	$40.00	**80728**	$25.00
1/16 oz	**82615**	$54.00	**12183**	$44.00	$50.00	$40.00	**80719**	$25.00

	CLASS 2					
Size	Kit Part #	Kit List Price	Weight* Part #	List Price	Calibration Report	Mass Value Certificate
0.001 lb	**80443**	$49.00	**12153**	$47.00	$50.00	$40.00
0.002 lb	**80445**	$49.00	**12155**	$47.00	$50.00	$40.00
1/32 oz	**80446**	$49.00	**12182**	$47.00	$50.00	$40.00

**For special kits-Individual weights must ship in a case.*

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
11714	Weight gloves, white, cotton	$3.00
11747	Lifting bar	$13.00
11711	Weight tweezers	$3.00
36092	Certificate of Accuracy	$45.00

ASTM

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PRECISION LABORATORY

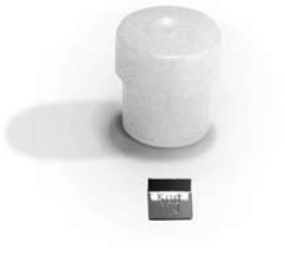
Avoirdupois Individual Weights and Kits

Screw-Knob



Kit pictured

Leaf



Kit pictured

			CLASS 3				REPLACEMENT CASES	
Size	Kit Part #	Kit List Price	Weight* Part #	List Price	Calibration Report	Mass Value Certificate	Part #	List Price
50 lb	-	-	**12335**	$3,835.00	-	-	-	-
30 lb	**82667**	$2,825.00	**12334**	$2,725.00	$125.00	$80.00	**80743**	$197.00
25 lb	**82666**	$2,400.00	**12333**	$2,300.00	$125.00	$80.00	**80742**	$197.00
20 lb	**82665**	$1,890.00	**12332**	$1,790.00	$125.00	$80.00	**80741**	$197.00
10 lb	**82664**	$1,128.00	**12331**	$1,028.00	$125.00	$80.00	**80740**	$197.00
5 lb	**82673**	$819.00	**12330**	$780.00	$125.00	$80.00	**80739**	$50.00
4 lb	**82672**	$679.00	**12329**	$646.00	$125.00	$80.00	**80738**	$50.00
3 lb	**82671**	$493.00	**12328**	$469.00	$125.00	$80.00	**80737**	$50.00
2 lb	**82670**	$444.00	**12327**	$422.00	$100.00	$65.00	**80736**	$50.00
1 lb	**82669**	$223.00	**12326**	$211.00	$100.00	$65.00	**80735**	$50.00
8 oz	**82668**	$192.00	**12325**	$183.00	$50.00	$40.00	**80734**	$25.00
0.5 lb	**82656**	$196.00	**12316**	$186.00	$50.00	$40.00	**80734**	$25.00
0.2 lb	**82655**	$103.00	**12315**	$93.00	$50.00	$40.00	**80726**	$25.00
0.1 lb	**82654**	$91.00	**12314**	$81.00	$50.00	$40.00	**80725**	$25.00
0.05 lb	**82653**	$79.00	**12310**	$69.00	$50.00	$40.00	**80724**	$25.00
0.02 lb	**82652**	$54.00	**22185**	$44.00	$50.00	$40.00	**80723**	$25.00
0.01 lb	**82651**	$54.00	**22183**	$44.00	$50.00	$40.00	**80722**	$25.00
0.005 lb	**82650**	$54.00	**12297**	$44.00	$50.00	$40.00	**80721**	$25.00
4 oz	**82663**	$110.00	**12324**	$101.00	$50.00	$40.00	**80733**	$25.00
2 oz	**82662**	$91.00	**12323**	$81.00	$50.00	$40.00	**80732**	$25.00
1 oz	**82661**	$78.00	**12322**	$68.00	$50.00	$40.00	**80731**	$25.00
1/2 oz	**82660**	$59.00	**12321**	$49.00	$50.00	$40.00	**80730**	$25.00
1/4 oz	**82659**	$54.00	**12320**	$44.00	$50.00	$40.00	**80729**	$25.00
1/8 oz	**82658**	$54.00	**12319**	$44.00	$50.00	$40.00	**80728**	$25.00
1/16 oz	**82657**	$54.00	**12318**	$44.00	$50.00	$40.00	**80719**	$25.00

CLASS 3

Size	Kit Part #	Kit List Price	Weight* Part #	List Price	Calibration Report	Mass Value Certificate
0.001 lb	**80448**	$47.00	**12291**	$45.00	$50.00	$40.00
0.002 lb	**80449**	$47.00	**12293**	$45.00	$50.00	$40.00
1/32 oz	**80451**	$47.00	**12317**	$45.00	$50.00	$40.00

**For special kits-Individual weights must ship in a case.*

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
11714	Weight gloves, white, cotton	$3.00
11747	Lifting bar	$13.00
11711	Weight tweezers	$3.00
36092	Certificate of Accuracy	$45.00
50038	Vial	$3.00

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PRECISION LABORATORY

Avoirdupois Individual Weights and Kits

	CLASS 4					REPLACEMENT CASES	
Size	Kit Part #	Kit List Price	Weight* Part #	List Price	Traceable Certificate	Part #	List Price
50 lb	-	-	**12438**	$3,788.00	-	-	-
30 lb	**82709**	$2,800.00	**12437**	$2,700.00	$75.00	**80743**	$197.00
25 lb	**82708**	$2,365.00	**12436**	$2,265.00	$75.00	**80742**	$197.00
20 lb	**82707**	$1,860.00	**12435**	$1,760.00	$75.00	**80741**	$197.00
10 lb	**82706**	$1,097.00	**12434**	$997.00	$75.00	**80740**	$197.00
5 lb	**82715**	$803.00	**12433**	$763.00	$75.00	**80739**	$50.00
4 lb	**82714**	$619.00	**12432**	$589.00	$75.00	**80738**	$50.00
3 lb	**82713**	$477.00	**12431**	$453.00	$75.00	**80737**	$50.00
2 lb	**82712**	$433.00	**12430**	$411.00	$60.00	**80736**	$50.00
1 lb	**82711**	$203.00	**12429**	$193.00	$60.00	**80735**	$50.00
8 oz	**82710**	$187.00	**12428**	$177.00	$35.00	**80734**	$25.00
0.5 lb	**82698**	$196.00	**12419**	$186.00	$35.00	**80734**	$25.00
0.2 lb	**82697**	$98.00	**12418**	$88.00	$35.00	**80723**	$25.00
0.1 lb	**82696**	$80.00	**12417**	$70.00	$35.00	**80725**	$25.00
0.05 lb	**82695**	$68.00	**12413**	$58.00	$35.00	**80724**	$25.00
0.02 lb	**82694**	$54.00	**12408**	$44.00	$35.00	**80723**	$25.00
0.01 lb	**82693**	$54.00	**12406**	$44.00	$35.00	**80722**	$25.00
0.005 lb	**82692**	$54.00	**12400**	$44.00	$35.00	**80721**	$25.00
4 oz	**82705**	$98.00	**12427**	$88.00	$35.00	**80733**	$25.00
2 oz	**82704**	$91.00	**12426**	$81.00	$35.00	**80732**	$25.00
1 oz	**82703**	$79.00	**12425**	$69.00	$35.00	**80731**	$25.00
1/2 oz	**82702**	$53.00	**12424**	$43.00	$35.00	**80730**	$25.00
1/4 oz	**82701**	$53.00	**12423**	$43.00	$35.00	**80729**	$25.00
1/8 oz	**82700**	$53.00	**12422**	$43.00	$35.00	**80728**	$25.00
1/16 oz	**82699**	$53.00	**12421**	$43.00	$35.00	**80719**	$25.00

	CLASS 4					
Size	Kit Part #	Kit List Price	Weight* Part #	List Price	Calibration Report	Mass Value Certificate
0.001 lb	**80452**	$32.00	**12394**	$30.00	$35.00	$40.00
0.002 lb	**80453**	$32.00	**12396**	$30.00	$35.00	$40.00
1/32 oz	**80454**	$32.00	**12420**	$30.00	$35.00	$40.00

**For special kits-Individual weights must ship in a case.*

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
11714	Weight gloves, white, cotton	$3.00
11747	Lifting bar	$13.00
11711	Weight tweezers	$3.00
36092	Certificate of Accuracy	$45.00
50038	Vial	$3.00
80420	Capsule	$5.00

ASTM

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PRECISION LABORATORY

Metric Sets

500 mg (5-3-2-1 or 5-2-2-1 configuration)



CLASS 0**

Set Size	Part #	List Price	Calibration Report
500 mg - 1 mg	**45933**	$1,125.00	$432.00
500 mg - 1 mg*	**96359***	$1,125.00	$432.00
500 mg - 10 mg	**84141**	$745.00	$288.00
500 mg - 10 mg*	**98191***	$745.00	$288.00
500 mg - 100 mg	**45934**	$715.00	$160.00
500 mg - 100 mg*	**96360***	$715.00	$160.00

REPLACEMENT CASES

Part #	List Price
34699	$93.00
34699	$93.00
34699	$93.00
34699	$93.00
34699	$93.00
34699	$93.00

CLASS 1

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
500 mg - 1 mg	**12445**	$475.00	$432.00	$190.00
500 mg - 1 mg*	**11910***	$475.00	$432.00	$190.00
500 mg - 10 mg	**12447**	$355.00	$288.00	$162.00
500 mg - 10 mg*	**11909***	$355.00	$288.00	$162.00
500 mg - 100 mg	**45952**	$340.00	$160.00	$112.00
500 mg - 100 mg*	**45944***	$340.00	$160.00	$112.00

REPLACEMENT CASES

Part #	List Price
11763	$62.00
11763	$62.00
11763	$62.00
11763	$62.00
11763	$62.00
11763	$62.00

CLASS 2

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
500 mg - 1 mg	**11838**	$374.00	$432.00	$190.00
500 mg - 1 mg*	**12176***	$374.00	$432.00	$190.00
500 mg - 10 mg	**11848**	$335.00	$288.00	$162.00
500 mg - 10 mg*	**12175***	$335.00	$288.00	$162.00
500 mg - 100 mg	**45953**	$295.00	$160.00	$112.00
500 mg - 100 mg*	**45945***	$295.00	$160.00	$112.00

REPLACEMENT CASES

Part #	List Price
11763	$62.00
11763	$62.00
11763	$62.00
11763	$62.00
11763	$62.00
11763	$62.00

CLASS 3

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
500 mg - 1 mg	**11946**	$310.00	$432.00	$190.00
500 mg - 1 mg*	**12313***	$310.00	$432.00	$190.00
500 mg - 10 mg	**11956**	$233.00	$288.00	$162.00
500 mg - 10 mg*	**12312***	$233.00	$288.00	$162.00
500 mg - 100 mg	**45954**	$175.00	$160.00	$112.00
500 mg - 100 mg*	**45946***	$175.00	$160.00	$112.00

REPLACEMENT CASES

Part #	List Price
11763	$62.00
11763	$62.00
11763	$62.00
11763	$62.00
11763	$62.00
11763	$62.00

CLASS 4

Set Size	Part #	List Price	Traceable Certificate
500 mg - 1 mg	**12093**	$255.00	$156.00
500 mg - 1 mg*	**12416***	$255.00	$156.00
500 mg - 10 mg	**12103**	$175.00	$127.00
500 mg -10 mg*	**12415***	$175.00	$127.00
500 mg - 100 mg	**45955**	$125.00	$81.00
500 mg - 100 mg*	**45947***	$125.00	$81.00

REPLACEMENT CASES

Part #	List Price
11763	$62.00
11763	$62.00
11763	$62.00
11763	$62.00
11763	$62.00
11763	$62.00

**Denotes 5-2-2-1 configuration*
***Certificate of Accuracy is not available for Class 0.*

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PRECISION LABORATORY

Metric Sets

500 mg (5-3-2-1 or 5-2-2-1 configuration)

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	500 mg- 1 mg	500 mg - 10 mg	500 mg- 100 mg	500 mg- 1 mg	500 mg- 100 mg
Weight Set Part #	45933-Class 0	84141-Class 0	45934-Class 0	96359-Class 0	96360-Class 0
	12445-Class 1	12447-Class 1	45952-Class 1	11910-Class 1	45944-Class 1
	11838-Class 2	11848-Class 2	11848-Class 2	12176-Class 2	45945-Class 2
	11946-Class 3	11956-Class 3	11956-Class 3	12313-Class 3	45946-Class 3
	12093-Class 4	12103-Class 4	12103-Class 4	12416-Class 4	45947-Class 4
Wt. Value	Qty.	Qty.	Qty.	Qty.	Qty.
500 mg	1	1	1	1	1
300 mg	1	1	1	-	-
200 mg	1	1	1	2	2
100 mg	1	1	1	1	1
50 mg	1	1	-	1	-
30 mg	1	1	-	-	-
20 mg	1	1	-	2	-
10 mg	1	1	-	1	-
5 mg	1	-	-	1	-
3 mg	1	-	-	-	-
2 mg	1	-	-	2	-
1 mg	1	-	-	1	-
Total	12	8	4	12	4
	1.221 g	1.210 g	1.1 g	1.11 g	1 g

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
11711	Weight tweezer, plastic, for polished weights 100 g and below	$3.00
11714	Weight gloves, white, cotton	$3.00
*36092	Certificate of Accuracy	$45.00

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PRECISION LABORATORY

Metric Sets

100 g, 50 g and 20 g (5-3-2-1 or 5-2-2-1 configuration)



CLASS 0

Set Size	Part # 5-3-2-1	List Price 5-3-2-1	Calibration Report
100 g			
100 g - 1 mg	**45930**	$1,945.00	$756.00
100 g - 5 mg	**84211**	$1,720.00	$648.00
100 g - 10 mg	**84212**	$1,570.00	$612.00
100 g - 100 mg	**45931**	$1,375.00	$520.00
100 g - 1 g	**45932**	$1,025.00	$360.00
50 g			
50 g - 1 mg	**84177**	$1,715.00	$720.00
50 g - 5 mg	**84176**	$1,698.00	$612.00
50 g - 10 mg	**84164**	$1,500.00	$576.00
50 g - 100 mg	**84163**	$1,155.00	$480.00
50 g - 1 g	**84178**	$1,000.00	$320.00
20 g			
20 g - 1 mg	**84154**	$1,555.00	$648.00
20 g - 5 mg	**84149**	$1,520.00	$540.00
20 g - 10 mg	**84148**	$1,415.00	$448.00
20 g - 100 mg	**84146**	$1,100.00	$320.00
20 g - 1 g	**84155**	$875.00	$240.00

REPLACEMENT CASES

Part #	List Price
100 g	
49503	$187.00
49503	$187.00
49503	$187.00
49503	$187.00
49503	$187.00
50 g	
49503	$187.00
49503	$187.00
49503	$187.00
49503	$187.00
49503	$187.00
20 g	
49503	$187.00
49503	$187.00
49503	$187.00
49503	$187.00
49503	$187.00

CLASS 1

Set Size	Part # 5-3-2-1	List Price 5-3-2-1	Part # 5-2-2-1	List Price 5-2-2-1	Calibration Report	Mass Value Certificate
100 g						
100 g - 1 mg	**12457**	$885.00	**11897**	$885.00	$756.00	$350.00
100 g - 5 mg	**11911**	$790.00	**11896**	$790.00	$648.00	$325.00
100 g - 10 mg	**12460**	$770.00	**11895**	$770.00	$612.00	$295.00
100 g - 100 mg	**45956**	$630.00	**45948**	$630.00	$520.00	$210.00
100 g - 1 g	**12461**	$531.00	**11894**	$531.00	$360.00	$175.00
50 g						
50 g - 1 mg	**12453**	$820.00	**11903**	$820.00	$720.00	$325.00
50 g - 5 mg	**12454**	$765.00	**11902**	$765.00	$612.00	$295.00
50 g - 10 mg	**12455**	$720.00	**11900**	$720.00	$576.00	$267.00
50 g - 100 mg	**84159**	$625.00	**11899**	$625.00	$480.00	$240.00
50 g - 1 g	**12456**	$515.00	**11898**	$515.00	$320.00	$145.00
20 g						
20 g - 1 mg	**12448**	$832.00	**11908**	$832.00	$648.00	$295.00
20 g - 5 mg	**12450**	$715.00	**11907**	$715.00	$540.00	$267.00
20 g - 10 mg	**12451**	$687.00	**11906**	$687.00	$448.00	$240.00
20 g - 100 mg	**84145**	$580.00	**11905**	$580.00	$320.00	$215.00
20 g - 1 g	**12452**	$485.00	**11904**	$485.00	$240.00	$120.00

REPLACEMENT CASES

Part #	List Price
100 g	
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
11596	$140.00
50 g	
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
20 g	
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00

**Replacement case PN 11596 is for 5-3-2-1 configuration.*

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PRECISION LABORATORY

Metric Sets

100 g, 50 g and 20 g (5-3-2-1 and 5-2-2-1 configuration)



CLASS 2

Set Size	Part # 5-3-2-1	List Price 5-3-2-1	Part # 5-2-2-1	List Price 5-2-2-1	Calibration Report	Mass Value Certificate
100 g						
100 g - 1 mg	**11901**	$745.00	**12160**	$745.00	$756.00	$350.00
100 g - 5 mg	**12158**	$682.00	**12158**	$682.00	$648.00	$325.00
100 g - 10 mg	**11912**	$655.00	**12157**	$655.00	$612.00	$295.00
100 g - 100 mg	**45957**	$565.00	**45949**	$565.00	$520.00	$210.00
100 g - 1 g	**11913**	$475.00	**12156**	$475.00	$360.00	$175.00
50 g						
50 g - 1 mg	**11873**	$723.00	**12167**	$723.00	$720.00	$325.00
50 g - 5 mg	**12165**	$656.00	**12165**	$656.00	$612.00	$295.00
50 g - 10 mg	**11880**	$625.00	**12163**	$625.00	$576.00	$267.00
50 g - 100 mg	**84160**	$500.00	**12162**	$500.00	$480.00	$240.00
50 g - 1 g	**11890**	$450.00	**12161**	$450.00	$320.00	$145.00
20 g						
20 g - 1 mg	**11853**	$695.00	**12174**	$695.00	$648.00	$295.00
20 g - 5 mg	**11858**	$615.00	**12172**	$615.00	$540.00	$267.00
20 g - 10 mg	**11863**	$558.00	**12171**	$558.00	$448.00	$240.00
20 g - 100 mg	**84144**	$490.00	**12170**	$490.00	$320.00	$215.00
20 g - 1 g	**11868**	$415.00	**12169**	$415.00	$240.00	$120.00

REPLACEMENT CASES

Part #	List Price
100 g	
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
50 g	
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
20 g	
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00

**Replacement case PN 11596 is for 5-3-2-1 configuration.*

CLASS 3

Set Size	Part # 5-3-2-1	List Price 5-3-2-1	Part # 5-2-2-1	List Price 5-2-2-1	Calibration Report	Mass Value Certificate
100 g						
100 g - 1 mg	**12018**	$670.00	**12298**	$670.00	$756.00	$350.00
100 g - 5 mg	**12031**	$618.00	**12296**	$618.00	$648.00	$325.00
100 g -10 mg	**12035**	$585.00	**12295**	$585.00	$612.00	$295.00
100 g - 100 mg	**45958**	$502.00	**45950**	$502.00	$520.00	$210.00
100 g - 1 g	**12045**	$415.00	**12294**	$415.00	$360.00	$175.00
50 g						
50 g - 1 mg	**11982**	$656.00	**22288**	$656.00	$720.00	$325.00
50 g - 5 mg	**11988**	$596.00	**22182**	$596.00	$612.00	$295.00
50 g - 10 mg	**11989**	$575.00	**22181**	$575.00	$576.00	$267.00
50 g - 100 mg	**84161**	$475.00	**12300**	$475.00	$480.00	$240.00
50 g - 1 g	**12004**	$410.00	**12299**	$410.00	$320.00	$145.00
20 g						
20 g - 1 mg	**11961**	$630.00	**12311**	$630.00	$648.00	$295.00
20 g - 5 mg	**11966**	$565.00	**12309**	$565.00	$540.00	$267.00
20 g - 10 mg	**11971**	$508.00	**22188**	$508.00	$448.00	$240.00
20 g - 100 mg	**84143**	$456.00	**22187**	$456.00	$320.00	$215.00
20 g - 1 g	**11976**	$360.00	**22186**	$360.00	$240.00	$120.00

REPLACEMENT CASES

Part #	List Price
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
50 g	
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
20 g	
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00
11596*/11588	$140.00

**Replacement case PN 11596 is for 5-3-2-1 configuration.*

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PRECISION LABORATORY

Metric Sets

100 g, 50 g and 20 g (5-3-2-1 and 5-2-2-1 configuration)



	CLASS 4					REPLACEMENT CASES	
Set Size	Part # 5-3-2-1	List Price 5-3-2-1	Part # 5-2-2-1	List Price 5-2-2-1	Traceable Certificate	Part #	List Price
100 g						100 g	
100 g - 1 mg	**12164**	$426.00	**12401**	$426.00	$277.00	**11596*/11588**	$140.00
100 g - 5 mg	**12177**	$428.00	**12399**	$426.00	$265.00	**11596*/11588**	$140.00
100 g - 10 mg	**12181**	$401.00	**12398**	$401.00	$235.00	**11596*/11588**	$140.00
100 g - 100 mg	**45959**	$346.00	**45951**	$345.00	$206.00	**11596*/11588**	$140.00
100 g - 1 g	**12191**	$302.00	**12397**	$302.00	$149.00	**11596*/11588**	$140.00
50 g						50 g	
50 g - 1 mg	**12128**	$452.00	**12407**	$452.00	$265.00	**11596*/11588**	$140.00
50 g - 5 mg	**12134**	$401.00	**12405**	$401.00	$245.00	**11596*/11588**	$140.00
50 g - 10 mg	**12135**	$381.00	**12404**	$379.00	$220.00	**11596*/11588**	$140.00
50 g - 100 mg	**84162**	$341.00	**12403**	$341.00	$190.00	**11596*/11588**	$140.00
50 g - 1 g	**12150**	$292.00	**12402**	$292.00	$132.00	**11596*/11588**	$140.00
20 g						20 g	
20 g - 1 mg	**12108**	$416.00	**12414**	$417.00	$235.00	**11596*/11588**	$140.00
20 g - 5 mg	**12113**	$384.00	**12412**	$385.00	$224.00	**11596*/11588**	$140.00
20 g - 10 mg	**12118**	$352.00	**12411**	$352.00	$176.00	**11596*/11588**	$140.00
20 g - 100 mg	**84142**	$316.00	**12410**	$316.00	$125.00	**11596*/11588**	$140.00
20 g - 1 g	**12123**	$267.00	**12409**	$266.00	$99.00	**11596*/11588**	$140.00

**Replacement case for 5-3-2-1 configuration.*

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
11711	Weight tweezer, plastic, for polished weights 100 g and below	$3.00
11714	Weight gloves, white, cotton	$3.00
11755	Leaf weight lid	$32.00

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PRECISION LABORATORY

Metric Sets

100 g, 50 g and 20 g (5-3-2-1 and 5-2-2-1 configuration)

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	50 g x 10 mg	50 g - 1 g	50 g - 100 mg	20 g - 1 mg	20 g x 5 mg	20 g x 10 mg	20 g - 1 g	20 g - 100 mg
Weight Set Part #	84164-Class 0	84178-Class 0	84163-Class 0	84154-Class 0	84149-Class 0	84148-Class 0	84155-Class 0	84146-Class 0
	12135-Class 1	12456-Class 1	84159-Class 1	12448-Class 1	12450-Class 1	12451-Class 1	12452-Class 1	84145-Class 1
	11880-Class 2	11890-Class 2	84160-Class 2	11853-Class 2	11858-Class 2	11863-Class 2	11868-Class 2	84144-Class 2
	11989-Class 3	12004-Class 3	84161-Class 3	11961-Class 3	11966-Class 3	11971-Class 3	11976-Class 3	84143-Class 3
	12135-Class 4	12150-Class 4	84162-Class 4	12108-Class 4	12113-Class 4	12118-Class 4	12123-Class 4	84142-Class 4
Wt. Value	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
100 g	-	-	-	-	-	-	-	-
50 g	1	1	1	-	-	-	-	-
30 g	1	1	1	-	-	-	-	-
20 g	1	1	1	1	1	1	1	1
10 g	1	1	1	1	1	1	1	1
5 g	1	1	1	1	1	1	1	1
3 g	1	1	1	1	1	1	1	1
2 g	1	1	1	1	1	1	1	1
1 g	1	1	1	1	1	1	1	1
500 mg	1	-	1	1	1	1	-	1
300 mg	1	-	1	1	1	1	-	1
200 mg	1	-	1	1	1	1	-	1
100 mg	1	-	1	1	1	1	-	1
50 mg	1	-	-	1	1	1	-	-
30 mg	1	-	-	1	1	1	-	-
20 mg	1	-	-	1	1	1	-	-
10 mg	1	-	-	1	1	1	-	-
5 mg	-	-	-	1	1	-	-	-
3 mg	-	-	-	1	-	-	-	-
2 mg	-	-	-	1	-	-	-	-
1 mg	-	-	-	1	-	-	-	-
Total	16	8	12	18	15	14	6	10
	122.21 g	121 g	122.1 g	42.221 g	42.215 g	42.421 g	41 g	42.105 g

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PRECISION LABORATORY

Metric Sets

100 g, 50 g and 20 g (5-3-2-1 and 5-2-2-1 configuration)

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

100 g-1 mg	100 g x 5 mg	100 g-10 mg	100 g-100 mg	100 g-1 g	50 g - 1 mg	50 g x 5 mg
45933-Class 0	84211-Class 0	84212-Class 0	45931-Class 0	45932-Class 0	84177-Class 0	84176-Class 0
12457-Class 1	11911-Class 1	12460-Class 1	45956-Class 1	12461-Class 1	12453-Class 1	12454-Class 1
11901-Class 2	12158-Class 2	11912-Class 2	45957-Class 2	11931-Class 2	11873-Class 2	12156-Class 2
12018-Class 3	12031-Class 3	12035-Class 3	45858-Class 3	12045-Class 3	11982-Class 3	11988-Class 3
12164-Class 4	12177-Class 4	12181-Class 4	45959-Class 4	45932-Class 4	12128-Class 4	12134-Class 4
Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
1	1	1	1	1	-	-
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	-	1	1
1	1	1	1	-	1	1
1	1	1	1	-	1	1
1	1	1	1	-	1	1
1	1	1	-	-	1	1
1	1	1	-	-	1	1
1	1	1	-	-	1	1
1	1	1	-	-	1	1
1	1	-	-	-	1	1
1	-	-	-	-	1	-
1	-	-	-	-	1	-
1	-	-	-	-	1	-
21	18	17	13	9	20	17
222.221 g	222.215 g	222.21 g	222.1 g	221 g	122.221 g	122.215 g

ASTM

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Notes

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PRECISION LABORATORY

Metric Sets

100 g, 50 g and 20 g (5-3-2-1 and 5-2-2-1 configuration)



WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	50 g x 10 mg	50 g - 1 g	50 g - 100 mg	20 g - 1 mg	20 g x 5 mg	20 g x 10 mg	20 g - 1 g	20 g - 100 mg
Weight Set Part #	84164-Class 0	84178-Class 0	84163-Class 0	84154-Class 0	84149-Class 0	84148-Class 0	84155-Class 0	84146-Class 0
	12135-Class 1	12456-Class 1	84159-Class 1	12448-Class 1	12450-Class 1	12451-Class 1	12452-Class 1	84145-Class 1
	11880-Class 2	11890-Class 2	84160-Class 2	11853-Class 2	11858-Class 2	11863-Class 2	11868-Class 2	84144-Class 2
	11989-Class 3	12004-Class 3	84161-Class 3	11961-Class 3	11966-Class 3	11971-Class 3	11976-Class 3	84143-Class 3
	12135-Class 4	12150-Class 4	84162-Class 4	12108-Class 4	12113-Class 4	12118-Class 4	12123-Class 4	84142-Class 4
Wt. Value	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
100 g	-	-	-	-	-	-	-	-
50 g	1	1	1	-	-	-	-	-
30 g	1	1	1	-	-	-	-	-
20 g	1	1	1	1	1	1	1	1
10 g	1	1	1	1	1	1	1	1
5 g	1	1	1	1	1	1	1	1
3 g	1	1	1	1	1	1	1	1
2 g	1	1	1	1	1	1	1	1
1 g	1	1	1	1	1	1	1	1
500 mg	1	-	1	1	1	1	-	1
300 mg	1	-	1	1	1	1	-	1
200 mg	1	-	1	1	1	1	-	1
100 mg	1	-	1	1	1	1	-	1
50 mg	1	-	-	1	1	1	-	-
30 mg	1	-	-	1	1	1	-	-
20 mg	1	-	-	1	1	1	-	-
10 mg	1	-	-	1	1	1	-	-
5 mg	-	-	-	1	1	-	-	-
3 mg	-	-	-	1	-	-	-	-
2 mg	-	-	-	1	-	-	-	-
1 mg	-	-	-	1	-	-	-	-
Total	16	8	12	18	15	14	6	10
	122.21 g	121 g	122.1 g	42.221 g	42.215 g	42.421 g	41 g	42.105 g

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PRECISION LABORATORY

Metric Sets

100 g, 50 g and 20 g (5-3-2-1 and 5-2-2-1 configuration)

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	50 g-10 mg	50 g-100 mg	50 g-1 g	20 g-1 mg	20 g-5 mg	20 g-10 mg	20 g-100 mg	20 g- 1 g
Weight Set Part #	11900-Class 1	11899-Class 1	11898-Class 1	11908-Class 1	11907-Class 1	11906-Class 1	11905-Class 1	11904-Class 1
	12163-Class 2	12162-Class 2	12161-Class 2	12174-Class 2	12172-Class 2	12171-Class 2	12170-Class 2	12169-Class 2
	22181-Class 3	12300-Class 3	12299-Class 3	12311-Class 3	12309-Class 3	22188-Class 3	22187-Class 3	22186-Class 3
	12404-Class 4	12403-Class 4	12402-Class 4	12414-Class 4	12412-Class 4	12411-Class 4	12410-Class 4	12409-Class 4
Wt. Value	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
100 g	-	-	-	-	-	-	-	-
50 g	1	1	1	-	-	-	-	-
20 g	2	2	2	1	2	1	1	1
10 g	1	1	1	1	1	1	1	1
5 g	1	1	1	1	1	1	1	1
2 g	2	2	2	2	2	2	2	2
1 g	1	1	1	1	1	1	1	1
500 mg	1	1	-	1	1	1	1	-
200 mg	2	2	-	2	2	2	2	-
100 mg	1	1	-	1	1	1	1	-
50 mg	1	-	-	1	1	1	-	-
20 mg	2	-	-	2	2	2	-	-
10 mg	1	-	-	1	1	1	-	-
5 mg	-	-	-	1	1	-	-	-
2 mg	-	-	-	2	-	-	-	-
1 mg	-	-	-	1	-	-	-	-
Total	16	12	8	18	16	14	10	6
	111.1 g	111 g	110 g	41.11 g	61.105 g	41.1 g	41 g	40 g

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	100 g-1 mg	100 g-5 mg	100 g-10 mg	100 g-100 mg	100 g-1 g	50 g-1 mg	50 g-5 mg
Weight Set Part #	11897-Class 1	11896-Class 1	11895-Class 1	45948-Class 1	11894-Class 1	11903-Class 1	11902-Class 1
	12160-Class 2	12158-Class 2	12157-Class 2	45949-Class 2	12156-Class 2	12167-Class 2	12165-Class 2
	12298-Class 3	12296-Class 3	12295-Class 3	45950-Class 3	12294-Class 3	22288-Class 3	22182-Class 3
	12401-Class 4	12399-Class 4	12398-Class 4	45951-Class 4	12397-Class 4	12407-Class 4	12405-Class 4
Wt. Value	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
100 g	1	1	1	1	1	-	-
50 g	1	1	1	1	1	1	1
20 g	2	2	2	2	2	2	2
10 g	1	1	1	1	1	1	1
5 g	1	1	1	1	1	1	1
2 g	2	2	2	2	2	2	2
1 g	1	1	1	1	1	1	1
500 mg	1	1	1	1	-	1	1
200 mg	2	2	2	2	-	2	2
100 mg	1	1	1	1	-	1	1
50 mg	1	1	1	-	-	1	1
20 mg	2	2	2	-	-	2	2
10 mg	1	1	1	-	-	1	1
5 mg	1	1	-	-	-	1	1
2 mg	2	-	-	-	-	2	-
1 mg	1	-	-	-	-	1	-
Total	21	18	17	13	9	20	17
	211.11 g	211.085 g	211.1 g	211 g	210 g	111.11 g	111.105 g

ASTM

PRECISION LABORATORY

Metric Sets

200 g (5-3-2-1, 5-2-2-1 and special configuration)



CLASS 0**

Set Size	Part #	List Price*	Calibration Report
200 g - 1 mg	**45927**	$2,140.00	$842.00
2-200 g x 1 mg*	**87039***	$2,400.00	$929.00
200 g - 10 mg	**84213**	$2,035.00	$698.00
2-200 g x 10 mg*	**87038***	$2,125.00	$872.00
200 g - 100 mg	**45928**	$1,865.00	$616.00
2-200 g x 100 mg*	**87037***	$1,950.00	$712.00
200 g - 1 g	**45929**	$1,175.00	$456.00
2-200 g x 1 g*	**87040***	$1,372.00	$552.00

REPLACEMENT CASES

Part #	List Price
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00

CLASS 1

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
200 g - 1 mg	**12462**	$932.00	$842.00	$395.00
2-200 g x 1 mg*	**87053***	$982.00	$929.00	$465.00
200 g - 10 mg	**12467**	$865.00	$698.00	$315.00
2-200 g x 10 mg*	**87049***	$995.00	$872.00	$400.00
200 g - 100 mg	**45960**	$830.00	$616.00	$255.00
2-200 g x 100 mg*	**87045***	$965.00	$712.00	$335.00
200 g - 1 g	**12468**	$625.00	$456.00	$215.00
200 g - 1 g*	**11893***	$630.00	$456.00	$215.00
2-200 g x 1 g*	**87057**	$675.00	$552.00	$295.00

REPLACEMENT CASES

Part #	List Price
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00

CLASS 2

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
200 g - 1 mg	**11914**	$790.00	$842.00	$395.00
2-200 g x 1 mg*	**87054***	$865.00	$929.00	$465.00
200 g - 10 mg	**11916**	$715.00	$698.00	$315.00
2-200 g x 10 mg*	**87050***	$840.00	$872.00	$400.00
200 g - 100 mg	**45961**	$700.00	$616.00	$255.00
2-200 g x100 mg*	**87046***	$805.00	$712.00	$335.00
200 g - 1 g	**11917**	$540.00	$456.00	$215.00
200 g - 1 g*	**12154***	$550.00	$456.00	$215.00
2-200 g x 1 g	**87058**	$575.00	$552.00	$295.00

REPLACEMENT CASES

Part #	List Price
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00

**Denotes 5-2-2-1 configuration*

***Certificate of Accuracy is not available for Class 0.*

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PRECISION LABORATORY

Metric Sets

200 g (5-3-2-1, 5-2-2-1 and special configuration)

CLASS 3

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
200 g - 1 mg	**12051**	$820.00	$842.00	$395.00
2-200 g x 1 mg*	**87055***	$850.00	$929.00	$465.00
200 g - 10 mg	**12064**	$780.00	$698.00	$315.00
2-200 g x 10 mg*	**87051***	$830.00	$872.00	$400.00
200 g - 100 mg	**45962**	$710.00	$616.00	$255.00
2-200 g x 100 mg*	**87047***	$810.00	$712.00	$335.00
200 g - 1 g	**12065**	$480.00	$456.00	$215.00
200 g - 1 g*	**12292***	$485.00	$456.00	$215.00
2-200 g - 1 g*	**87059**	$510.00	$552.00	$295.00

REPLACEMENT CASES

Part #	List Price
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00

CLASS 4

Set Size	Part #	List Price	Traceable Certificate
200 g - 1 mg	**12197**	$490.00	$305.00
2-200 g x 1 mg*	**87056***	$555.00	$305.00
200 g - 10 mg	**12210**	$480.00	$277.00
2-200 g x 10 mg*	**87052***	$525.00	$277.00
200 g - 100 mg	**45963**	$445.00	$253.00
2-200 g x 100 mg*	**87048***	$510.00	$245.00
200 g - 1 g	**12211**	$400.00	$176.00
200 g - 1 g*	**12395***	$400.00	$176.00
2-200 g x 1 g*	**87060***	$440.00	$204.00

REPLACEMENT CASES

Part #	List Price
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00

**Denotes 5-2-2-1 configuration*
***Certificate of Accuracy is not available for Class 0.*

Case Insert Class 0 5-3-2-1 Configuration

SET SIZE	PART #	LIST PRICE
(5-3-2-1) 200 g - 1 mg	50431	$44.00
(5-3-2-1) 200 g - 1 g	50430	$44.00

Case Insert Class 0 5-2-2-1 Configuration

SET SIZE	PART #	LIST PRICE
2-200 g - 1 mg	84473	$155.00
2-200 g - 10 mg	84473	$155.00
2-200 g - 100 mg	84473	$155.00
2-200 g - 1 g	84472	$155.00

Case Insert Classes 1,2,3,4 5-3-2-1 Configuration

SET SIZE	PART #	LIST PRICE
(5-3-2-1) 200 g - 1 mg	11601	$130.00

Case Insert Classes 1,2,3,4 5-2-2-1 Configuration

SET SIZE	PART #	LIST PRICE
2-200 g - 1 g	84465	$155.00
2-200 g - 1 mg	84464	$155.00
200 g - 1 mg	11587	$158.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
50035	Weight forceps, plastic	$25.00
11711	Weight tweezer, plastic, for polished weights 100 g and below	$3.00
11714	Weight gloves, white, cotton	$3.00
11755	Leaf weight lid	$32.00
11747	Lifter bar	$13.00
**36092	Certificate of Accuracy	$45.00

ASTM

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PRECISION LABORATORY

Metric Sets

200 g (5-3-2-1, 5-2-2-1 and special configuration)



ASTM

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	200 g-1 mg	2-200 g-1mg	2-200 g-10 mg	200 g-10 mg	200 g-100 mg	2-200 g-100 mg	200 g-1 g	2-200 g-1 g	200 g - 1 g
Weight Set Part #	45927-Class 0	87039-Class 0	87038-Class 0	84213-Class 0	45928-Class 0	87037-Class 0	45929-Class 0	87040-Class 0	
	12462-Class 1	87053-Class 1	87049-Class 1	12467-Class 1	45960-Class 1	87045-Class 1	12468-Class 1	87057-Class 1	11893-Class 1
	11914-Class 2	87054-Class 2	87050-Class 2	11916-Class 2	45961-Class 2	87046-Class 2	11917-Class 2	87058-Class 2	12154-Class 2
	12051-class 3	87055-Class 3	87051-Class 3	12064-Class 3	45962-Class 3	87047-Class 3	12065-Class 3	87059-Class 3	12292-Class 3
	12197-Class 4		87052-Class 4	12210-Class 4	45963-Class 4	87048-Class 4	12211-Class 4	87060-Class 4	12395-Class 4
Wt. Value	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
200 g	1	2	2	1	1	2	1	2	1
100 g	1	1	1	1	1	1	1	1	1
50 g	1	1	1	1	1	1	1	-	1
30 g	1	1	-	1	1	-	1	2	-
20 g	1	1	2	1	1	2	1	1	2
10 g	1	1	1	1	1	1	1	1	1
5 g	1	1	1	1	1	1	1	-	1
3 g	1	1	-	1	1	-	1	2	-
2 g	1	1	2	1	1	2	1	1	2
1 g	1	1	1	1	1	1	1	1	1
500 mg	1	1	1	1	1	1	-	-	-
300 mg	1	1	-	1	1	-	-	-	-
200 mg	1	1	2	1	1	2	-	-	-
100 mg	1	1	1	1	1	1	-	-	-
50 mg	1	1	1	1	1	1	-	-	-
30 mg	1	1	-	1	-	-	-	-	-
20 mg	1	1	2	1	-	-	-	-	-
10 mg	1	1	1	1	-	-	-	-	-
5 mg	1	1	-	-	-	-	-	-	-
3 mg	1	1	-	-	-	-	-	-	-
2 mg	1	1	-	-	-	-	-	-	-
1 mg	1	1	-	-	-	-	-	-	-
Total	22	23	19	18	14	15	10	11	9
	422.221 g	**622.221 g**	**611.1 g**	**422.210 g**	**422.19 g**	**611 g**	**421 g**	**610 g**	**410 g**

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Notes

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RICE LAKE® WEIGHING SYSTEMS

PRECISION LABORATORY

Metric Sets

300 g and 500 g (5-3-2-1 or 5-2-2-1 configuration)



CLASS 0**

Set Size	Part #	List Price*	Calibration Report
500 g - 100 g	**45926**	$1,350.00	$328.00
500 g - 1 g	**45925**	$1,945.00	$648.00
500 g - 100 mg	**45924**	$3,655.00	$800.00
500 g - 1 mg	**45923**	$4,115.00	$1,015.00

REPLACEMENT CASES

Part #	List Price
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00

CLASS 1

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
300 g - 1 g*	**11892***	$1,180.00	$552.00	$290.00
500 g - 100 g	**45968**	$910.00	$328.00	$164.00
500 g - 1 g	**12472**	$1,280.00	$648.00	$325.00
500 g - 1g*	**11891***	$1,280.00	$648.00	$325.00
500 g - 100 mg	**45964**	$2,172.00	$800.00	$375.00
500 g - 1 mg	**12469**	$2,315.00	$1,015.00	$465.00

REPLACEMENT CASES

Part #	List Price
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00

CLASS 2

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
300 g - 1 g	**12152**	$1,085.00	$552.00	$290.00
500 g - 100 g	**45969**	$835.00	$328.00	$164.00
500 g - 1 g	**11921**	$1,180.00	$648.00	$325.00
500 g - 1 g*	**12151***	$1,180.00	$648.00	$325.00
500 g - 100 mg	**45965**	$1,420.00	$800.00	$375.00
500 g - 1 mg	**11918**	$1,510.00	$1,015.00	$465.00

REPLACEMENT CASES

Part #	List Price
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00

CLASS 3

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
300 g - 1 g	**12290**	$1,060.00	$552.00	$290.00
500 g - 100 g	**45970**	$815.00	$328.00	$164.00
500 g - 1 g	**12069**	$1,150.00	$648.00	$325.00
500 g - 1 g*	**12289***	$1,150.00	$648.00	$325.00
500 g - 100 mg	**45966**	$1,345.00	$800.00	$375.00
500 g - 1 mg	**12066**	$1,475.00	$1,015.00	$465.00

REPLACEMENT CASES

Part #	List Price
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00

CLASS 4

Set Size	Part #	List Price	Traceable Certificate
300 g - 1 g	**12393**	$965.00	$204.00
500 g - 1 mg	**12212**	$1,350.00	$385.00
500 g - 100 mg	**45967**	$1,252.00	$308.00
500 g - 1 g	**12215**	$1,045.00	$231.00
500 g - 1 g*	**12392***	$1,045.00	$231.00
500 g - 100 g	**45971**	$740.00	$144.00

REPLACEMENT CASES

Part #	List Price
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00

**Denotes 5-2-2-1 configuration*

***Certificate of Accuracy is not available for Class 0.*

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PRECISION LABORATORY

Metric Sets

300 g and 500 g (5-3-2-1 or 5-2-2-1 configuration)

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	500 g-1 mg	500 g-100 mg	500 g-1 g	500 g-100 g	500 g-1 g	300 g-1 g
Weight Set Part #	45923-Class 0	45924-class 0	45925-Class 0	45926-Class 0	-	-
	12469-Class 1	45964-Class 1	12472-Class 1	45968-Class 1	11891-Class 1	11892-Class 1
	11918-Class 2	45965-Class 2	11921-Class 2	45969-Class 2	12151-Class 2	12152-Class 2
	12066-Class 3	45966-Class 3	12069-Class 3	45970-Class 3	12289-Class 3	12290-Class 3
	12212-Class 4	45967-Class 4	12215-Class 4	45971-Class 4	12392-Class 4	12393-Class 4
Wt. Value	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
500 g	1	1	1	1	1	-
300 g	1	1	1	1	-	1
200 g	1	1	1	1	2	1
100 g	1	1	1	1	1	1
50 g	1	1	1	-	1	1
30 g	1	1	1	-	-	1
20 g	1	1	1	-	2	1
10 g	1	1	1	-	1	1
5 g	1	1	1	-	1	1
3 g	1	1	1	-	-	1
2 g	1	1	1	-	2	1
1 g	1	1	1	-	1	1
500 mg	1	1	-	-	-	-
300 mg	1	1	-	-	-	-
200 mg	1	1	-	-	-	-
100 mg	1	1	-	-	-	-
50 mg	1	-	-	-	-	-
30 mg	1	-	-	-	-	-
20 mg	1	-	-	-	-	-
10 mg	1	-	-	-	-	-
5 mg	1	-	-	-	-	-
3 mg	1	-	-	-	-	-
2 mg	1	-	-	-	-	-
1 mg	1	-	-	-	-	-
Total	24	16	12	4	12	11
	1.222221 kg	1.2221 kg	1.221 kg	1.1 kg	1.10 kg	721 g

Case Insert Class 0

SET SIZE	PART #	LIST PRICE
500 g - 1 mg	49500	$200.00
500 g - 100 g	49501	$158.00

Case Insert Classes 1, 2, 3 & 4

SET SIZE	PART #	LIST PRICE
300 g - 1 g	11586	$188.00
500 g - 1 mg	11602	$123.00
500 g - 1 g*	11585	$158.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
50035	Weight forceps, plastic	$25.00
11711	Weight tweezer, plastic, for polished weights 100 g and below	$3.00
11714	Weight gloves, white, cotton	$3.00
11755	Leaf weight lid	$32.00
11747	Lifter bar	$13.00
36092**	Certificate of Accuracy	$45.00

ASTM

PRECISION LABORATORY

Metric Sets

1 kg (5-3-2-1 and 5-2-2-1* configuration)



CLASS 0**

Set Size	Part #	List Price*	Calibration Report
1 kg - 1 mg	**45919**	$3,430.00	$980.00
1 kg - 100 mg	**45920**	$2,990.00	$900.00
1 kg - 1 g	**45921**	$2,550.00	$700.00
1 kg - 100 g	**45922**	$2,045.00	$420.00

REPLACEMENT CASES

Part #	List Price
50437	$1,479.00
50437	$1,479.00
50437	$1,479.00
50436	$1,479.00

CLASS 1

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
1 kg - 1 mg	**12473**	$2,315.00	$980.00	$500.00
1 kg - 100 mg	**45972**	$2,275.00	$900.00	$370.00
1 kg - 1 g	**12476**	$2,270.00	$700.00	$348.00
1 kg - 1 g*	**11889***	$2,275.00	$700.00	$348.00
1 kg - 100 g	**45976**	$1,975.00	$420.00	$200.00

REPLACEMENT CASES

Part #	List Price
11603	$1,479.00
11603	$1,479.00
11603	$1,479.00
11584	$1,281.00
11603	$1,479.00

CLASS 2

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
1 kg - 1 mg	**11922**	$2,125.00	$980.00	$500.00
1 kg - 100 mg	**45973**	$2,110.00	$900.00	$370.00
1 kg - 1 g	**11925**	$2,105.00	$900.00	$348.00
1 kg - 1 g*	**12149***	$2,110.00	$700.00	$348.00
1 kg - 100 g	**45977**	$1,930.00	$420.00	$200.00

REPLACEMENT CASES

Part #	List Price
11603	$1,479.00
11603	$1,479.00
11603	$1,479.00
11584	$1,281.00
11603	$1,479.00

CLASS 3

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
1 kg - 1 mg	**12070**	$2,110.00	$980.00	$500.00
1 kg - 100 mg	**45974**	$2,070.00	$900.00	$370.00
1 kg - 1 g	**12073**	$2,065.00	$900.00	$348.00
1 kg - 1 g*	**12288***	$2,067.00	$700.00	$348.00
1 kg - 100 g	**45978**	$1,892.00	$420.00	$200.00

REPLACEMENT CASES

Part #	List Price
11603	$1,479.00
11603	$1,479.00
11603	$1,479.00
11584	$1,281.00
11603	$1,479.00

CLASS 4

Set Size	Part #	List Price	Traceable Certificate
1 kg - 1 mg	**12216**	$1,920.00	$400.00
1 kg - 100 mg	**45975**	$1,892.00	$305.00
1 kg - 1 g	**12219**	$1,850.00	$263.00
1 kg - 1 g*	**12391***	$1,787.00	$263.00
1 kg - 100 g	**45979**	$1,692.00	$180.00

REPLACEMENT CASES

Part #	List Price
11603	$1,479.00
11603	$1,479.00
11603	$1,479.00
11605	$1,281.00
11603	$1,479.00

**Denotes 5-2-2-1 configuration*

***Certificate of Accuracy is not available for Class 0.*

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PRECISION LABORATORY

Metric Sets

1 kg (5-3-2-1 and 5-2-2-1* configuration)

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	1 kg-1 mg	1 kg-100 mg	1 kg-1 g	1 kg-100 g	1 kg - 1g
Weight Set Part #	45919-Class 0	45920-Class 0	45921-Class 0	45922-Class 0	-
	12473-Class 1	45972-Class 1	12476-Class 1	45976-Class 1	11889-Class 1
	11922-Class 2	45973-Class 2	11925-Class 2	45977-Class 2	12149-Class 2
	12070-Class 3	45974-Class 3	12073-Class 3	45978-Class 3	12288-Class 3
	12216-Class 4	45975-Class 4	12219-Class 4	45979-Class 4	12391-Class 4
Wt. Value	Qty.	Qty.	Qty.	Qty.	Qty.
1 kg	1	1	1	1	1
500 g	1	1	1	1	1
300 g	1	1	1	1	-
200 g	1	1	1	1	2
100 g	1	1	1	1	1
50 g	1	1	1	-	1
30 g	1	1	1	-	-
20 g	1	1	1	-	2
10 g	1	1	1	-	1
5 g	1	1	1	-	1
3 g	1	1	1	-	-
2 g	1	1	1	-	2
1 g	1	1	1	-	1
500 mg	1	1	-	-	-
300 mg	1	1	-	-	-
200 mg	1	1	-	-	-
100 mg	1	1	-	-	-
50 mg	1	-	-	-	-
30 mg	1	-	-	-	-
20 mg	1	-	-	-	-
10 mg	1	-	-	-	-
5 mg	1	-	-	-	-
3 mg	1	-	-	-	-
2 mg	1	-	-	-	-
1 mg	1	-	-	-	-
Total	25	17	13	5	13
	2.222221 kg	2.2221 kg	2.221 kg	2.1 kg	2.11 kg

Secondary Case Class 0

SET SIZE	PART #	LIST PRICE
100 g - 1 mg	49503	$187.00

Secondary Case Classes 1, 2, 3 & 4

SET SIZE	PART #	LIST PRICE
100 g - 1 mg	11596	$140.00

Case Insert Classes 1, 2, 3 & 4

SET SIZE	PART #	LIST PRICE
100 g	46380	$88.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
50000	Tong assembly, ends protected with surgical tubing (Class 0)	$56.00
11711	Weight tweezer, plastic, for polished weights 100 g and below	$3.00
11714	Weight gloves, white, cotton	$3.00
11755	Leaf weight lid	$32.00
11747	Lifter bar	$13.00
36092**	Certificate of Accuracy	$45.00

ASTM

PRECISION LABORATORY

Metric Sets

5 kg, 3 kg and 2 kg (5-3-2-1, 5-2-2-1 and special configuration)



CLASS 0**

Set Size	Part #	List Price*	Calibration Report
5 kg			
5 kg - 1 mg	**45910**	$7,085.00	$1,170.00
5 kg - 100 mg	**45911**	$6,765.00	$1,050.00
5 kg - 1 g	**45912**	$6,605.00	$950.00
5 kg - 100 g	**45913**	$5,670.00	$850.00
2 kg			
2 kg - 1 mg	**45915**	$4,765.00	$1,002.00
2-2 kg - 1 mg	**87043**	$5,942.00	$1,554.00
2-2 kg - 10 mg	**87042**	$5,765.00	$1,434.00
2 kg - 100 mg	**45916**	$5,503.00	$900.00
2-2 kg - 100 mg	**87041**	$5,635.00	$846.00
2 kg - 1 g	**45917**	$5,325.00	$800.00
2-2 kg x 1 g	**87044**	$5,370.00	$1,194.00
2 kg - 100 g	**45918**	$5,295.00	$500.00

REPLACEMENT CASES

Part #	List Price
5 kg	
49495	$1,503.00
49495	$1,503.00
49495	$1,479.00
50440	$1,445.00
2 kg	
50439	$1,503.00
84474	$1,516.00
84474	$1,516.00
50439	$1,503.00
84474	$1,516.00
50439	$1,281.00
84474	$1,516.00
50438	$1,503.00

CLASS 1

Set Size	Part # 5-3-2-1	List Price	Part # 5-2-2-1	List Price	Calibration Report	Mass Value Certificate
5 kg						
5 kg - 1 mg	**12481**	$4,227.00	**114050**	$4,227.00	$1,170.00	$595.00
5 kg - 100 mg	**45988**	$4,145.00	**-**	-	$1,050.00	$500.00
5 kg - 1 g	**12484**	$3,860.00	**11886***	$3,860.00	$950.00	$472.00
5 kg - 100 g	**45992**	$3,535.00	**-**	-	$850.00	$336.00
3 kg - 1 g	**11887**	$3,295.00			$950.00	$438.00
2 kg						
2 kg - 1 mg	**12477**	$2,975.00	**-**	-	$1,002.00	$600.00
2-2 kg x 1 mg	**87069***	$3,315.00	**-**	-	$1,554.00	$960.00
2-2 kg x 10 mg	**87065***	$3,260.00	**-**	-	$1,434.00	$864.00
2 kg - 100 mg	**45980**	$3,205.00	**-**	-	$900.00	$489.00
2-2 kg - 100 mg	**87061***	$3,235.00	**-**	-	$846.00	$534.00
2 kg - 1 g	**12480**	$2,515.00	**11888**	$2,515.00	$800.00	$393.00
2-2 kg - 1 g	**87073***	$3,090.00	**-**	-	$1,194.00	$672.00
2 kg - 100 g	**45984**	$3,025.00	**-**	-	$500.00	$250.00

REPLACEMENT CASES

Part #	List Price
5 kg	
11605	$1,281.00
11605	$1,281.00
11581*	$1,281.00
11605	$1,281.00
11582	$1,281.00
2 kg	
11604	$1,281.00
84463	$1,295.00
84463	$1,295.00
11604	$1,281.00
84463	$1,295.00
11604/11583*	$1,281.00
84463	$1,295.00
11604	$1,281.00

**Denotes 5-2-2-1 configuration*

***Certificate of Accuracy is not available for Class 0.*

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PRECISION LABORATORY

Metric Sets

5 kg, 3 kg and 2 kg (5-3-2-1, 5-2-2-1 and special configuration)

CLASS 2

Set Size	Part # 5-3-2-1	List Price	Part # 5-2-2-1	List Price	Calibration Report	Mass Value Certificate
			5 kg			
5 kg - 1 mg	**11930**	$3,885.00	**114051**	$3,885.00	$1,170.00	$595.00
5 kg - 100 mg	**45989**	$3,862.00	**-**	-	$1,050.00	$500.00
5 kg - 1 g	**11933**	$3,570.00	**12146**	$3,570.00	$950.00	$472.00
5 kg - 100 g	**45993**	$3,268.00	**-**	-	$850.00	$336.00
3 kg - 1 g	**12147**	$2,809.00	**-**		$950.00	$438.00
			2 kg			
2 kg - 1 mg	**11926**	$2,712.00	**-**	-	$1,002.00	$600.00
2-2 kg - 1 mg	**-**	-	**87070**	$3,200.00	$1,554.00	$960.00
2-2 kg - 10 mg	**-**	-	**87066**	$2,967.00	$1,434.00	$864.00
2 kg - 100 mg	**45981**	$2,835.00	**-**	-	$900.00	$489.00
2-2 kg - 100 mg	**87062**	$2,900.00	**87062**	$2,900.00	$896.00	$534.00
2 kg - 1 g	**11929**	$2,330.00	**12148**	$2,330.00	$800.00	$393.00
2-2 kg - 1 g	**-**	-	**87074**	$2,828.00	$1,194.00	$672.00
2 kg - 100 g	**45985**	$2,766.00	**-**	-	$500.00	$250.00

REPLACEMENT CASES

Part #	List Price
5 kg	
11605	$1,281.00
11605	$1,281.00
11605/11581*	$1,281.00
11605	$1,281.00
11582	$1,281.00
2 kg	
11604	$1,281.00
84463	$1,295.00
84463	$1,295.00
11604	$1,281.00
84463	$1,295.00
11604/11583*	$1,281.00
84463	$1,295.00
11604	$1,281.00

CLASS 3

Set Size	Part # 5-3-2-1	List Price	Part # 5-2-2-1	List Price	Calibration Report	Mass Value Certificate
			5 kg			
5 kg - 1 mg	**12078**	$3,825.00	**114052**	$3,825.00	$1,170.00	$595.00
5 kg - 100 mg	**45990**	$3,710.00	**-**	-	$1,050.00	$500.00
5 kg - 1 g	**12081**	$3,542.00	**12285**	$3,542.00	$950.00	$472.00
5 kg - 100 g	**45994**	$3,242.00	**-**		$850.00	$336.00
3 kg - 1 g	**12286**	$2,932.00	**-**		$950.00	$438.00
			2 kg			
2 kg - 1 mg	**12074**	$2,663.00	**-**	-	$1,002.00	$600.00
2-2 kg - 1 mg	**-**	-	**87071**	$3,085.00	$1,554.00	$960.00
2-2 kg - 10 mg	**-**	-	**87067**	$2,845.00	$1,434.00	$864.00
2 kg - 100 mg	**45982**	$2,720.00	**-**	-	$900.00	$489.00
2-2 kg - 100 mg	**-**	-	**87063**	$2,780.00	$896.00	$534.00
2 kg - 1 g	**12077**	$2,290.00	**12287**	$2,171.00	$800.00	$393.00
2-2 kg - 1 g	**-**	-	**87075**	$2,770.00	$1,194.00	$672.00
2 kg - 100 g	**45986**	$2,710.00	**-**	-	$500.00	$250.00

REPLACEMENT CASES

Part #	List Price
5 kg	
11605	$1,281.00
11605	$1,281.00
11605/11581*	$1,281.00
11605	$1,281.00
11582	$1,281.00
2 kg	
11604	$1,281.00
84463	$1,295.00
84463	$1,295.00
11604	$1,281.00
84463	$1,295.00
11604/11583*	$1,281.00
84463	$1,295.00
11604	$1,281.00

**Replacement case for 5-2-2-1 configuration.*

Secondary Case

SET SIZE	SET SIZE	LIST PRICE
100 g - 1 mg	11588 5-2-2-1 Configuration	$140.00
100 g - 1 mg	11596 5-3-2-1 Configuration	$140.00

Secondary Case Class 0

SET SIZE	SET SIZE	LIST PRICE
100 g - 1 mg	495035-3-2-1Configuration	$140.00
100 g - 1 mg	346975-2-2-1Configuration	$140.00

Case Insert (Wooden)

SET SIZE	SET SIZE	LIST PRICE
100 g	46380	$88.00

ASTM

PRECISION LABORATORY

Metric Sets

5 kg, 3 kg and 2 kg (5-3-2-1, 5-2-2-1 and special configuration)



	CLASS 4					REPLACEMENT CASES	
Set Size	Part # 5-3-2-1	List Price	Part # 5-2-2-1	List Price	Traceable Certificate	Part #	List Price
5 kg						5 kg	
5 kg - 1 mg	**12224**	$3,460.00	**114053**	$3,460.00	$500.00	**11605**	$1,281.00
5 kg - 100 mg	**45991**	$3,366.00	**-**	-	$415.00	**11605**	$1,281.00
5 kg - 1 g	**12227**	$3,061.00	**12388**	$3,061.00	$381.00	**11605/11581***	$1,281.00
5 kg - 100 g	**45995**	$2,802.00	**-**	-	$286.00	**11605**	$1,281.00
3 kg - 1 g	**12389**	$2,509.00	**-**	-	$342.00	**11582**	$1,281.00
2 kg						2 kg	
2 kg - 1 mg	**12220**	$2,325.00	**-**	-	$433.00	**11604**	$1,281.00
2-2 kg - 1 mg	**-**	$2,845.00	**87072**	-	$778.00	**84463**	$1,295.00
2-2 kg - 10 mg		$2,598.00	**87068**	-	$700.00	**84463**	$1,295.00
2 kg - 100 mg	**45983**	$2,702.00	**-**	-	$400.00	**11604**	$1,281.00
2-2 kg - 100 mg		$2,570.00	**87064**	-	$333.00	**84463**	$1,295.00
2 kg - 1 g	**12223**	$2,355.00	**12390**	$1,995.00	$302.00	**11604/11583***	$1,281.00
2-2 kg - 1 g		$2,415.00	**87076**	-	$543.00	**84463**	$1,295.00
2 kg - 100 g	**45987**	$2,195.00	**-**	-	$200.00	**11604**	$1,281.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
50000	Tong assembly, ends protected with surgical tubing (Class 0 & OIML)	$56.00
11711	Weight tweezer, plastic, for polished weights 100 g and below	$3.00
50037	Lifter (Class 0 & OIML 2 kg & 5 kg)	$3.00
11714	Weight gloves, white, cotton	$3.00
11755	Leaf weight lid	$32.00
11747	Lifter bar	$13.00
11712	Lifter with large handle (Class 1-4/4 kg - 25 kg)	$56.00
36092**	Certificate of Accuracy	$45.00

**Replacement case for 5-2-2-1 configuration.*

***Certificate of Accuracy is not available for Class 0.*

Secondary Case Class 0

SET SIZE	PART #	LIST PRICE
100 g - 1 mg	49503	$187.00

Secondary Case Classes 1, 2, 3, & 4 5-3-2-1 Configuration

SET SIZE	PART #	LIST PRICE
100 g - 1 mg	11596	$140.00

Secondary Case Classes 1, 2, 3, & 4 5-2-2-1 Configuration

SET SIZE	PART #	LIST PRICE
100 g - 1 mg	11588	$140.00

Case Insert Classes 1, 2, 3, & 4

SET SIZE	PART #	LIST PRICE
100 g	46380	$88.00

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PRECISION LABORATORY

Metric Sets

5 kg, 3 kg and 2 kg (5-3-2-1, 5-2-2-1 and special configuration)

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	2-2 kg - 10 mg	2 kg - 100 mg	2-2 kg - 100 mg	2-2 kg - 1 g	2 kg - 100 g
Weight Set Part #	87092	45916	87041	87044	45918
	87065	45980	87061	87073	45984
	87066	45981	87062	87074	45985
	87067	45982	87063	87075	45986
	87068	45983	87064	87076	45987
Wt. Value	Qty.	Qty.	Qty.	Qty.	Qty.
2 kg	2	1	2	2	1
1 kg	1	1	1	1	1
500 g	1	1	1	1	1
300 g	1	1	1	1	1
200 g	1	1	1	1	1
100 g	1	1	1	1	1
50 g	1	1	1	1	-
30 g	1	1	1	1	-
20 g	1	1	1	1	-
10 g	1	1	1	1	-
5 g	1	1	1	1	-
3 g	1	1	1	1	-
2 g	1	1	1	1	-
1 g	1	1	1	1	-
500 mg	1	1	1	-	-
300 mg	1	1	1	-	-
200 mg	1	1	1	-	-
100 mg	1	1	1	-	-
50 mg	1	-	-	-	-
30 mg	1	-	-	-	-
20 mg	1	-	-	-	-
10 mg	1	-	-	-	-
5 mg	-	-	-	-	-
3 mg	-	-	-	-	-
2 mg	-	-	-	-	-
1 mg	-	-	-	-	-
Total	23	18	19	15	6
	6.22221 kg	4.2221 kg	6.2221 kg	6.221 kg	4.1 kg

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	5 kg-1 mg	5 kg-100 mg	5 kg-1 g		5 kg-100 g	3 kg - 1 g	2 kg-1 mg	2-2 kg-1 mg	2 kg - 1g	
Weight Set Part #	45910	45911	45912	11886	45913		45915	87043	45917	
	12481	45988	12484	12146	45992		12477	87069	12480	11888
	11930	45989	11933	12285	45993	11887	11926	87070	11929	12148
	12078	45990	12081	12388	45994	12147	12074	87071	12077	12287
	12224	45991	12227		45995	12286	12220	87072	12223	12390
Wt. Value	5-3-2-1 Qty.	5-3-2-1 Qty.	5-3-2-1 Qty.	5-2-2-1 Qty.	5-3-2-1 Qty.	5-2-2-1 Qty.	5-3-2-1 Qty.	5-3-2-1 Qty.	5-3-2-1 Qty.	5-2-2-1 Qty.
5 kg	1	1	1	1	1	-	-	-	-	-
3 kg	1	1	1	-	1	1	-	-	-	-
2 kg	1	1	1	2	1	2	1	2	1	1
1 kg	1	1	1	1	1	1	1	1	1	1
500 g	1	1	1	1	1	1	1	1	1	1
300 g	1	1	1	-	1	-	1	1	1	-
200 g	1	1	1	2	1	2	1	1	1	2
100 g	1	1	1	1	1	1	1	1	1	1
50 g	1	1	1	1	-	1	1	1	1	-
30 g	1	1	1	-	-	-	1	1	1	2
20 g	1	1	1	2	-	2	1	1	1	2
10 g	1	1	1	1	-	1	1	1	1	1
5 g	1	1	1	1	-	1	1	1	1	1
3 g	1	1	1	-	-	-	1	1	1	-
2 g	1	1	1	-	-	2	1	1	1	2
1 g	1	1	1	-	-	1	1	1	1	1
500 mg	1	1	-	-	-	-	1	1	-	-
300 mg	1	1	-	-	-	-	1	1	-	-
200 mg	1	1	-	-	-	-	1	1	-	-
100 mg	1	1	-	-	-	-	1	1	-	-
50 mg	1	-	-	-	-	-	1	1	-	-
30 mg	1	-	-	-	-	-	1	1	-	-
20 mg	1	-	-	-	-	-	1	1	-	-
10 mg	1	-	-	-	-	-	1	1	-	-
5 mg	1	-	-	-	-	-	1	1	-	-
3 mg	1	-	-	-	-	-	1	1	-	-
2 mg	1	-	-	-	-	-	1	1	-	-
1 mg	1	-	-	-	-	-	1	1	-	-
Total	28	20	16	14	8	16	26	27	14	15
	12.222221 kg	12.22 kg	12.221 kg	11.11 kg	12.1 kg		4.222221 kg	6.222221 kg	4.11 kg	

ASTM

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PRECISION LABORATORY

Metric Sets

25 kg, 20 kg and 10 kg



ASTM

CLASS 0**

Set Size	Part # 5-3-2-1	List Price*	Calibration Report
20 kg			
20 kg - 1 mg	**45900**	$13,015.00	$1,338.00
20 kg - 100 mg	**45901**	$12,662.00	$1,350.00
20 kg - 1 g	**45902**	$12,405.00	$1,300.00
20 kg - 100 g	**45903**	$11,630.00	$1,095.00
20 kg - 1 kg	**45904**	$10,460.00	$656.00
10 kg			
10 kg - 1 mg	**45905**	$9,755.00	$1,254.00
10 kg - 100 mg	**45906**	$9,395.00	$1,150.00
10 kg - 1 g	**45907**	$9,141.00	$1,190.00
10 kg - 100 g	**45908**	$8,370.00	$980.00
10 kg - 1 kg	**45909**	$6,830.00	$540.00

REPLACEMENT CASES

Part #	List Price
20 kg	
50670	$1,754.00
50670	$1,754.00
50670	$1,754.00
50670	$1,754.00
50672	$1,754.00
10 kg	
50442	$1,754.00
50442	$1,754.00
50442	$1,754.00
50442	$1,754.00
50441	$1,477.00

CLASS 1

Set Size	Part # 5-3-2-1	List Price	Part # 5-2-2-1	List Price	Calibration Report	Mass Value Certificate
25 kg						
25 kg - 1 g			**11883**	$11,670.00	$1,205.00	$550.00
20 kg						
20 kg - 1 mg	**12489**	$8,570.00			$1,338.00	$695.00
20 kg - 100 mg	**46008**	$8,466.00			$1,350.00	$669.00
20 kg - 1 g	**12492**	$8,390.00	**11884**	$8,390.00	$1,300.00	$573.00
20 kg - 100 g	**46012**	$7,992.00			$1,095.00	$426.00
20 kg - 1 kg	**46016**	$7,362.00			$656.00	$340.00
10 kg						
10 kg - 1 mg	**12485**	$6,577.00			$1,254.00	$633.00
10 kg - 100 mg	**45996**	$6,473.00			$1,150.00	$575.00
10 kg - 1 g	**12488**	$6,392.00	**11885**	$6,392.00	$1,190.00	$528.00
10 kg - 100 g	**46000**	$5,755.00			$980.00	$381.00
10 kg - 1 kg	**46004**	$5,357.00			$540.00	$280.00

REPLACEMENT CASES

Part #	List Price
25 kg	
11578	$1,725.00
20 kg	
11608	$1,725.00
11608	$1,725.00
11608/11579*	$1,725.00
11608	$1,725.00
11608	$1,725.00
10 kg	
11606	$1,725.00
11606	$1,725.00
11606/11580*	$1,725.00
11606	$1,725.00
11606	$1,725.00

**Replacement case for 5-2-2-1 configuration.*

***Certificate of Accuracy is not available for Class 0.*

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PRECISION LABORATORY

Metric Sets

25 kg, 20 kg and 10 kg

CLASS 2

Set Size	Part # 5-3-2-1	List Price	Part # 5-2-2-1	List Price	Calibration Report	Mass Value Certificate
25 kg						
25 kg - 1 g			**12140**	$10,112.00	$1,205.00	$550.00
20 kg						
20 kg - 1 mg	**11938**	$7,770.00			$1,338.00	$695.00
20 kg - 100 mg	**46009**	$7,655.00			$1,350.00	$669.00
20 kg - 1 g	**11941**	$7,570.00	**12142**	$7,570.00	$1,300.00	$573.00
20 kg - 100 g	**46013**	$7,210.00			$1,095.00	$426.00
20 kg - 1 kg	**46017**	$6,642.00			$656.00	$340.00
10 kg						
10 kg - 1 mg	**11934**	$5,964.00			$1,254.00	$633.00
10 kg - 100 mg	**45997**	$5,858.00			$1,150.00	$575.00
10 kg - 1 g	**11937**	$5,765.00	**12144**	$5,765.00	$1,190.00	$528.00
10 kg - 100 g	**46001**	$5,404.00			$980.00	$381.00
10 kg - 1 kg	**46005**	$4,835.00			$540.00	$280.00

REPLACEMENT CASES

Part #	List Price
25 kg	
11578	$1,725.00
20 kg	
11608	$1,725.00
11608	$1,725.00
11608/11579*	$1,725.00
11608	$1,725.00
11608	$1,725.00
10 kg	
11606	$1,725.00
11606	$1,725.00
11606/11580*	$1,725.00
11606	$1,725.00
11606	$1,725.00

CLASS 3

Set Size	Part # 5-3-2-1	List Price	Part # 5-2-2-1	List Price	Calibration Report	Mass Value Certificate
25 kg						
25 kg - 1 g			**12279**	$10,515.00	$1,205.00	$550.00
20 kg						
20 kg - 1 mg	**12086**	$7,692.00			$1,338.00	$695.00
20 kg - 100 mg	**46010**	$7,563.00			$1,350.00	$669.00
20 kg - 1 g	**12089**	$7,480.00	**12281**	$7,480.00	$1,300.00	$573.00
20 kg - 100 g	**46014**	$7,120.00			$1,095.00	$426.00
20 kg - 1 kg	**46018**	$6,561.00			$656.00	$340.00
10 kg						
10 kg - 1 mg	**12082**	$5,915.00			$1,254.00	$633.00
10 kg - 100 mg	**45998**	$5,77500			$1,150.00	$575.00
10 kg - 1 g	**12085**	$5,695.00	**12283**	$5,695.00	$1,190.00	$528.00
10 kg - 100 g	**46002**	$5,340.00			$980.00	$381.00
10 kg - 1 kg	**46006**	$4,780.00			$540.00	$280.00

REPLACEMENT CASES

Part #	List Price
25 kg	
11578	$1,725.00
20 kg	
11608	$1,725.00
11608	$1,725.00
11608/11579*	$1,725.00
11608	$1,725.00
11608	$1,725.00
10 kg	
11606	$1,725.00
11606	$1,725.00
11606/11580*	$1,725.00
11606	$1,725.00
11606	$1,725.00

Replacement case for 5-2-2-1 configuration.

ASTM

PRECISION LABORATORY

Metric Sets

25 kg, 20 kg and 10 kg



ASTM

	CLASS 4					REPLACEMENT CASES	
Set Size	Part # 5-3-2-1	List Price	Part # 5-2-2-1	List Price	Traceable Certificate	Part #	List Price
			25 kg				
25 kg - 1 g			**12382**	$9,465.00	$403.00	**11578**	$1,725.00
			20 kg				
20 kg - 1 mg	**12232**	$6,930.00			$555.00	**11608**	$1,725.00
20 kg - 100 mg	**46011**	$6,815.00			$538.00	**11608**	$1,725.00
20 kg - 1 g	**12235**	$6,740.00	**12384**	$6,740.00	$459.00	**11608/11579***	$1,725.00
20 kg - 100 g	**46015**	$6,424.00			$364.00	**11608**	$1,725.00
20 kg - 1 kg	**46019**	$5,912.00			$300.00	**11608**	$1,725.00
			10 kg				
10 kg - 1 mg	**12228**	$5,304.00			$550.00	**11606**	$1,725.00
10 kg - 100 mg	**45999**	$5,211.00			$498.00	**11606**	$1,725.00
10 kg - 1 g	**12231**	$5,132.00	**12386**	$5,132.00	$420.00	**11606/11579***	$1,725.00
10 kg - 100 g	**46003**	$4,810.00			$325.00	**11606**	$1,725.00
10 kg - 1 kg	**46007**	$4,305.00			$300.00	**11606**	$1,725.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
50035	Weight forceps, plastic (for Class 0 & OIML)	$25.00
11711	Weight tweezers, plastic, for polished weights 100 g and below	$3.00
11714	Weight gloves, white, cotton	$3.00
11755	Leaf weight lid	$32.00
11747	Lifter bar	$13.00
11712	Lifter with larger handle (Class 1-4/4 kg - 25 kg)	$56.00
50000	Tong assembly, ends protected with surgical tubing (for class 0 & OIML)	$56.00
36092	Certificate of Accuracy	$45.00

**Replacement case for 5-2-2-1 configuration.*

Secondary Case Class 0

SET SIZE	PART #	LIST PRICE
100 g - 1 mg	11588	$140.00

Secondary Case Class 0

SET SIZE	PART #	LIST PRICE
100 g - 1 mg	49503	$187.00
Insert, 100 g	49489	$123.00

Secondary Case Classes 1, 2, 3 & 4

SET SIZE	PART #	LIST PRICE
100 g - 1 mg	11596(5-3-2-1)	$140.00
Insert, 100 g	46380	$88.00
100 g - 1 mg	11588(5-2-2-1)	$140.00

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PRECISION LABORATORY

Metric Sets

25 kg, 20 kg and 10 kg

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	20 kg-1 mg	20 kg-100 mg	20 kg-1 g	20 kg-100 g	20 kg-1 kg	10 kg-1 mg	10 kg-100 mg	10 kg-1 g	10 kg-100 g	10 kg-1 kg
Weight Set Part #	45900	45901	45902	45903	45904	45905	45906	45907	45908	45909
	12489	46008	12492	46012	46016	12485	45996	12488	46000	46004
	11938	46009	11941	46013	46017	11934	45997	11937	46001	46005
	12086	46010	12089	46014	46018	12082	45998	12085	46002	46006
	12232	46011	12235	46015	46019	12278	45999	12231	46003	46007
Wt. Value	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
20 kg	1	1	1	1	1	-	-	-	-	-
10 kg	1	1	1	1	1	1	1	1	1	1
5 kg	1	1	1	1	1	1	1	1	1	1
3 kg	1	1	1	1	1	1	1	1	1	1
2 kg	1	1	1	1	1	1	1	1	1	1
1 kg	1	1	1	1	1	1	1	1	1	1
500 g	1	1	1	1	-	1	1	1	1	-
300 g	1	1	1	1	-	1	1	1	1	-
200 g	1	1	1	1	-	1	1	1	1	-
100 g	1	1	1	1	-	1	1	1	1	-
50 g	1	1	1	-	-	1	1	1	-	-
30 g	1	1	1	-	-	1	1	1	-	-
20 g	1	1	1	-	-	1	1	1	-	-
10 g	1	1	1	-	-	1	1	1	-	-
5 g	1	1	1	-	-	1	1	1	-	-
3 g	1	1	1	-	-	1	1	1	-	-
2 g	1	1	1	-	-	1	1	1	-	-
1 g	1	1	1	-	-	1	1	1	-	-
500 mg	1	1	-	-	-	1	1	-	-	-
300 mg	1	1	-	-	-	1	1	-	-	-
200 mg	1	1	-	-	-	1	1	-	-	-
100 mg	1	1	-	-	-	1	1	-	-	-
50 mg	1	-	-	-	-	1	-	-	-	-
30 mg	1	-	-	-	-	1	-	-	-	-
20 mg	1	-	-	-	-	1	-	-	-	-
10 mg	1	-	-	-	-	1	-	-	-	-
5 mg	1	-	-	-	-	1	-	-	-	-
3 mg	1	-	-	-	-	1	-	-	-	-
2 mg	1	-	-	-	-	1	-	-	-	-
1 mg	1	-	-	-	-	1	-	-	-	-
Total	30	22	18	10	6	29	21	17	9	5
	42.222221 kg	42.2221 kg	42.221 kg	42.1 kg	41 kg	22.222221 kg	22.2221 kg	22.221 kg	22.1 kg	21 kg

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	25 kg - 1 g	20 kg - 1 g	10 kg - 1 g
Weight Set Part #	11883	11884	11885
	12140	12142	12144
	12279	12281	12283
	12382	12384	12386
Wt. Value	Qty.	Qty.	Qty.
25 kg	1	-	-
20 kg	-	1	-
10 kg	1	1	1
5 kg	1	1	1
2 kg	2	2	2
1 kg	1	1	1
500 g	1	1	1
200 g	2	2	2
100 g	1	1	1
50 g	1	1	1
20 g	2	2	2
10 g	1	1	1
5 g	1	1	1
2 g	2	2	2
1 g	1	1	1
Total	18	18	17
	46.11 kg	41.11 kg	21.11 kg

ASTM

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PRECISION LABORATORY

Avoirdupois Sets

50 lb through 2 lb



CLASS 1

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
50 lb - 1/32 oz	**11999**	$15,250.00	$1,200.00	$950.00
20 lb - 1/32 oz	**11997**	$7,295.00	$900.00	$638.00
10 lb - 1/32 oz	**11995**	$5,100.00	$945.00	$566.00
5 lb - 1/32 oz	**11993**	$3,885.00	$920.00	$506.00
2 lb - 1/32 oz	**11991**	$2,600.00	$630.00	$450.00

REPLACEMENT CASES

Part #	List Price
11589	$1,723.00
11590	$1,847.00
11591	$1,479.00
11592	$1,141.00
11593	$1,491.00

CLASS 2

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
50 lb - 1/32 oz	**12145**	$15,085.00	$1,200.00	$950.00
20 lb - 1/32 oz	**12143**	$7,485.00	$900.00	$638.00
10 lb - 1/32 oz	**12141**	$4,950.00	$945.00	$566.00
5 lb - 1/32 oz	**12139**	$3,750.00	$920.00	$506.00
2 lb - 1/32 oz	**12137**	$2,485.00	$630.00	$450.00

REPLACEMENT CASES

Part #	List Price
11589	$1,723.00
11590	$1,847.00
11591	$1,479.00
11592	$1,141.00
11593	$1,491.00

CLASS 3

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
50 lb - 1/32 oz	**12284**	$14,885.00	$1,200.00	$950.00
20 lb - 1/32 oz	**12282**	$7,285.00	$900.00	$638.00
10 lb - 1/32 oz	**12280**	$4,890.00	$945.00	$566.00
5 lb - 1/32 oz	**12278**	$3,700.00	$920.00	$506.00
2 lb - 1/32 oz	**12276**	$2,350.00	$630.00	$450.00

REPLACEMENT CASES

Part #	List Price
11589	$1,723.00
11590	$1,847.00
11591	$1,479.00
11592	$1,141.00
11593	$1,491.00

CLASS 4

Set Size	Part #	List Price	Traceable Certificate
50 lb - 1/32 oz	**12387**	$14,515.00	$595.00
20 lb - 1/32 oz	**12385**	$6,970.00	$539.00
10 lb - 1/32 oz	**12383**	$4,800.00	$476.00
5 lb - 1/32 oz	**12381**	$3,350.00	$424.00
2 lb - 1/32 oz	**12379**	$2,175.00	$329.00

REPLACEMENT CASES

Part #	List Price
11589	$1,723.00
11590	$1,847.00
11591	$1,479.00
11592	$1,141.00
11593	$1,491.00

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PRECISION LABORATORY

Avoirdupois Sets

50 lb through 2 lb

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	50 lb-1/32 oz	20 lb-1/32 oz	10 lb-1/32 oz	5 lb-1/32 oz	2 lb-1/32 oz
Weight Set Part #	**11999**	**11997**	**11995**	**11993**	**11991**
Wt. Value	Qty.	Qty.	Qty.	Qty.	Qty.
50 lb	1	-	-	-	-
30 lb	1	-	-	-	-
20 lb	1	1	-	-	-
10 lb	1	1	1	-	-
5 lb	1	1	1	1	-
3 lb	1	1	1	1	-
2 lb	1	1	1	1	1
1 lb	1	1	1	1	1
8 oz	1	1	1	1	1
4 oz	1	1	1	1	1
2 oz	1	1	1	1	1
1 oz	1	1	1	1	1
1/2 oz	1	1	1	1	1
1/4 oz	1	1	1	1	1
1/8 oz	1	1	1	1	1
1/16 oz	1	1	1	1	1
1/32 oz	2	2	2	2	2
Total	18	16	15	14	12
	122 lb	**42 lb**	**22 lb**	**12 lb**	**4 lb**

Secondary Case

SIZE	PART #	LIST PRICE
4 oz - 1/32 g	11610	$246.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
11711	Weight tweezer, plastic, for polished weights 100 g and below	$3.00
11712	Weight lifter, large handle, metal, for weights 4 kg and up and 10 lb - 100 lb	$56.00
11747	Weight lifter bar, plexiglas, for weights 200 g - 3 kg and 8 oz - 5 lb (screw knob weights only)	$13.00
11714	Weight gloves, white, cotton	$3.00
11758	Leaf weight lid	$32.00
36092	Certificate of Accuracy	$45.00

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PRECISION LABORATORY

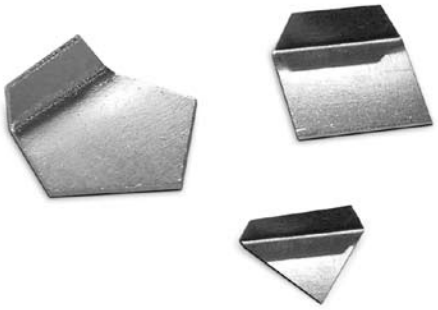
Metric Individual Weights and Kits

Cylindrical



Kit pictured

Leaf



E2

Weight	Kit Part #	List Price	Calibration Report
20 kg	**53850**	$2,500.00	$140.00
10 kg	**36871**	$2,020.00	$140.00
5 kg	**29775**	$1,075.00	$140.00
2 kg	**29774**	$625.00	$140.00
1 kg	**29773**	$450.00	$120.00
500 g	**29772**	$275.00	$120.00
200 g	**29771**	$192.00	$120.00

E2

Weight	Kit Part #	List Price	Calibration Report
100 g	**29770**	$105.00	$50.00
50 g	**29769**	$86.00	$50.00
20 g	**29768**	$77.00	$50.00
10 g	**29767**	$75.00	$50.00
5 g	**29766**	$73.00	$50.00
2 g	**29743**	$73.00	$50.00
1 g	**29742**	$73.00	$50.00

E2

Weight	Kit Part #	List Price	Calibration Report
500 mg	**29731**	$70.00	$50.00
200 mg	**29730**	$70.00	$50.00
100 mg	**29729**	$70.00	$50.00
50 mg	**29728**	$70.00	$50.00
20 mg	**29727**	$70.00	$50.00
10 mg	**29726**	$70.00	$50.00
5 mg	**29710**	$70.00	$50.00
2 mg	**29709**	$70.00	$50.00
1 mg	**29708**	$70.00	$50.00

OIML

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PRECISION LABORATORY

Metric Individual Weights and Kits

F1

Weight	Kit Part #	List Price	Calibration Report	Mass Value Certificate
20 kg	**53654**	$1,850.00	$140.00	$75.00
10 kg	**36870**	$1,495.00	$140.00	$75.00
5 kg	**29765**	$800.00	$140.00	$75.00
2 kg	**29764**	$495.00	$140.00	$75.00
1 kg	**29763**	$325.00	$120.00	$55.00
500 g	**29762**	$175.00	$120.00	$55.00
200 g	**29761**	$125.00	$120.00	$55.00

F1

Weight	Kit Part #	List Price	Calibration Report	Mass Value Certificate
100 g	**29760**	$80.00	$50.00	$40.00
50 g	**29759**	$70.00	$50.00	$40.00
20 g	**29758**	$65.00	$50.00	$40.00
10 g	**29757**	$60.00	$50.00	$40.00
5 g	**29756**	$59.00	$50.00	$40.00
2 g	**29741**	$59.00	$50.00	$40.00
1 g	**29740**	$59.00	$50.00	$40.00

F1

Weight	Kit Part #	List Price	Calibration Report	Mass Value Certificate
500 mg	**29725**	$40.00	$50.00	$40.00
200 mg	**29724**	$40.00	$50.00	$40.00
100 mg	**29723**	$40.00	$50.00	$40.00
50 mg	**29722**	$40.00	$50.00	$40.00
20 mg	**29721**	$40.00	$50.00	$40.00
10 mg	**29720**	$40.00	$50.00	$40.00
5 mg	**29707**	$40.00	$50.00	$40.00
2 mg	**29706**	$40.00	$50.00	$40.00
1 mg	**29705**	$40.00	$50.00	$40.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
36092	Certificate of Accuracy, not available for Class E2	$45.00

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PRECISION LABORATORY

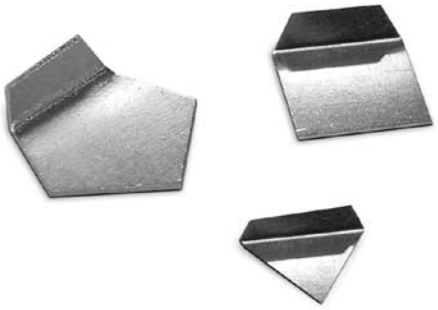
Metric Individual Weights and Kits

Cylindrical



Kit pictured

Leaf



F2

Weight	Kit Part #	List Price	Calibration Report	Mass Value Certificate
20 kg	**53655**	$1,675.00	$140.00	$75.00
10 kg	**36869**	$1,095.00	$140.00	$75.00
5 kg	**29755**	$595.00	$140.00	$75.00
2 kg	**29754**	$475.00	$140.00	$75.00
1 kg	**29753**	$305.00	$120.00	$55.00
500 g	**29752**	$16500	$120.00	$55.00
200 g	**29751**	$120.00	$120.00	$55.00
100 g	**29750**	$72.00	$50.00	$40.00
50 g	**29749**	$60.00	$50.00	$40.00
20 g	**29748**	$55.00	$50.00	$40.00
10 g	**29747**	$52.00	$50.00	$40.00
5 g	**29746**	$5000	$50.00	$40.00
2 g	**29739**	$50.00	$50.00	$40.00
1 g	**29738**	$50.00	$50.00	$40.00

F2

Weight	Kit Part #	List Price	W/Calibration Report	Mass Value Certificate
500 mg	**29719**	$36.00	$50.00	$40.00
200 mg	**29718**	$36.00	$50.00	$40.00
100 mg	**29717**	$36.00	$50.00	$40.00
50 mg	**29716**	$36.00	$50.00	$40.00
20 mg	**29715**	$36.00	$50.00	$40.00
10 mg	**29714**	$36.00	$50.00	$40.00
5 mg	**29704**	$36.00	$50.00	$40.00
2 mg	**29703**	$36.00	$50.00	$40.00
1 mg	**29702**	$36.00	$50.00	$40.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
50038	Vial	$3.00
36092	Certificate of Accuracy, not available for Class E2	$45.00
80420	Gel Capsule	$5.00

OIML

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PRECISION LABORATORY

Metric Individual Weights and Kits

M1

Weight	Kit Part #	List Price	W/Traceable Certificate
100 g	**111927**	$62.00	$35.00
50 g	**111928**	$61.00	$35.00
20 g	**111929**	$60.00	$35.00
10 g	**111930**	$60.00	$35.00
5 g	**111931**	$60.00	$35.00
2 g	**111932**	$60.00	$35.00
1 g	**111933**	$60.00	$35.00

REPLACEMENT CASES

Part #	List Price
112850	$25.00
112549	$25.00
112848	$25.00
112847	$25.00
112846	$25.00
112845	$25.00
112844	$25.00

M2*

Weight	Part #	List Price	W/Traceable Certificate
100 g	**111934**	$50.00	$35.00
50 g	**111935**	$49.00	$35.00
20 g	**111936**	$48.00	$35.00
10 g	**111937**	$48.00	$35.00
5 g	**111938**	$48.00	$35.00
2 g	**111939**	$48.00	$35.00
1 g	**111940**	$48.00	$35.00

**M2 is sold as individual weight*

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
36092	Certificate of Accuracy	$45.00
11714	Weight gloves, white cotton	$3.00



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PRECISION LABORATORY

Metric Sets

100 g, 50 g and 500 mg (5-2-2-1 configuration)



E2

Set Size	Part #	List Price	Calibration Report
100 g - 1 mg	**30839**	$1,195.00	$756.00
100 g - 100 mg	**30843**	$930.00	$520.00
100 g - 1 g	**30847**	$725.00	$360.00
50 g - 1 mg	**96477**	$1,050.00	$720.00
50 g - 1 g	**96478**	$677.00	$320.00
500 mg - 1 mg	**30851**	$750.00	$432.00
500 mg - 100 mg	**30855**	$629.00	$160.00

REPLACEMENT CASES

Part #	List Price
34697	$175.00
34697	$175.00
34697	$175.00
34697	$175.00
34697	$175.00
34699	$93.00
34699	$93.00

F1

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
100 g - 1 mg	**30840**	$628.00	$756.00	$350.00
100 g - 100 mg	**30844**	$500.00	$520.00	$210.00
100 g - 1 g	**30848**	$532.00	$360.00	$175.00
50 g - 1 mg	**96479**	$623.00	$720.00	$325.00
50 g - 1 g	**96480**	$410.00	$320.00	$145.00
500 mg - 1 mg	**30852**	$475.00	$432.00	$190.00
500 mg - 100 mg	**30856**	$345.00	$160.00	$112.00

REPLACEMENT CASES

Part #	List Price
34697	$175.00
34697	$175.00
34697	$175.00
34697	$175.00
34697	$175.00
34699	$93.00
34699	$93.00

F2

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
100 g - 1 mg	**30841**	$515.00	$756.00	$350.00
100 g - 100 mg	**30845**	$365.00	$520.00	$210.00
100 g - 1 g	**30849**	$364.00	$360.00	$175.00
50 g - 1 mg	**96481**	$494.00	$720.00	$325.00
50 g - 1 g	**96482**	$362.00	$320.00	$145.00
500 mg - 1 mg	**30853**	$460.00	$432.00	$190.00
500 mg -100 mg	**30857**	$245.00	$160.00	$112.00

REPLACEMENT CASES

Part #	List Price
34697	$175.00
34697	$175.00
34697	$175.00
34697	$175.00
34697	$175.00
34699	$93.00
34699	$93.00

OIML

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
11711	Weight tweezer, plastic, for polished weights 100 g and below	$3.00
11714	Weight gloves, white, cotton	$3.00
50035	Forceps, 100 g - 1 mg	$25.00
11755	Leaf weight lid	$32.00
36092	Certificate of Accuracy, not available for Class E2	$45.00

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PRECISION LABORATORY

Metric Sets

100 g, 50 g and 500 mg (5-2-2-1 configuration)

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	100 g - 1 mg	100 g - 100 mg	100 g - 1 g	50 g - 1 mg	50 g - 1 g	500 mg - 1 mg	500 mg - 100 mg
Weight Set Part #	30839	30843	30847	96477	96478	30851	30855
	30840	30844	30848	96479	96480	30852	30856
	30841	30845	30849	96481	96482	30853	30857
Wt. Value	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
100 g	1	1	1	-	-	-	-
50 g	1	1	1	1	1	-	-
20 g	2	2	2	2	2	-	-
10 g	1	1	1	1	1	-	-
5 g	1	1	1	1	1	-	-
2 g	2	2	2	2	2	-	-
1 g	1	1	1	1	1	-	-
500 mg	1	1	-	1	-	1	1
200 mg	2	2	-	2	-	2	2
100 mg	1	1	-	1	-	1	1
50 mg	1	-	-	1	-	1	-
20 mg	2	-	-	2	-	2	-
10 mg	1	-	-	1	-	1	-
5 mg	1	-	-	1	-	1	-
2 mg	2	-	-	2	-	2	-
1 mg	1	-	-	1	-	1	-
Total	21	13	9	20	9	12	4
	211.11 g	211 g	210 g	111.2 g	108 g	1.11 g	1 g

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PRECISION LABORATORY

Metric Sets

200 g and (2) 200 g (5-2-2-1 configuration)



E2

Set Size	Part #	List Price	Calibration Report
2-200 g - 1 mg	**96468**	$1,575.00	$929.00
200 g - 1 mg	**40550**	$1,375.00	$842.00
200 g - 100 mg	**40551**	$1,195.00	$616.00
2-200 g - 1 g	**96469**	$1,162.00	$552.00
200 g - 1 g	**40552**	$962.00	$456.00
200 g - 100 g	**40553**	$795.00	$290.00

REPLACEMENT CASES

Part #	List Price
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00

F1

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
2-200 g - 1 mg	**96470**	$1,075.00	$929.00	$465.00
200 g - 1 mg	**40554**	$950.00	$842.00	$395.00
200 g - 100 mg	**40555**	$710.00	$616.00	$255.00
2-200 g - 1 g	**96471**	$712.00	$552.00	$295.00
200 g - 1 g	**40556**	$682.00	$456.00	$215.00
200 g - 100 g	**40557**	$580.00	$290.00	$150.00

REPLACEMENT CASES

Part #	List Price
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00

F2

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
2-200 g - 1 mg	**96472**	$798.00	$929.00	$465.00
200 g - 1 mg	**40558**	$685.00	$842.00	$395.00
200 g - 100 mg	**40559**	$512.00	$616.00	$255.00
2-200 g - 1 g	**96473**	$572.00	$552.00	$295.00
200 g - 1 g	**40560**	$425.00	$456.00	$215.00
200 g - 100 g	**40561**	$400.00	$290.00	$150.00

REPLACEMENT CASES

Part #	List Price
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00

OIML

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
11711	Weight tweezer, plastic, for polished weights 100 g and below	$3.00
11714	Weight gloves, white, cotton	$3.00
50035	Forceps, 100 g - 1 mg	$25.00
11755	Leaf weight lid	$32.00
36092	Certificate of Accuracy, not available for Class E2	$45.00

Case Inserts

WEIGHT	PART #	LIST PRICE
200 g - 1 mg	**30607**	$164.00
200 g - 100 g	**30608**	$264.00
2/200 - 1 g	**84472**	$325.00
2/200 - 1 mg	**84473**	$325.00

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PRECISION LABORATORY

Metric Sets

200 g and (2) 200 g (5-2-2-1 configuration)

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	Class	2-200 g-1 mg	200 g - 1 mg	200 g-100 mg	2-200 g-1 g	200 g - 1 g	200 g-100 g
Weight Set Part #	E2	96468	40550	40551	96469	40552	40553
	F1	96470	40554	40555	96471	40556	40557
	F2	96472	40558	40559	96473	40560	40561
Wt. Value		Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
200 g		2	1	1	2	1	2
100 g		1	1	1	1	1	1
50 g		1	1	1	1	1	-
20 g		2	2	2	2	2	-
10 g		1	1	1	1	1	-
5 g		1	1	1	1	1	-
2 g		2	2	2	2	2	-
1 g		1	1	1	1	1	-
500 mg		1	1	1	-	-	-
200 mg		2	2	2	-	-	-
100 mg		1	1	1	-	-	-
50 mg		1	1	-	-	-	-
20 mg		2	2	-	-	-	-
10 mg		1	1	-	-	-	-
5 mg		1	1	-	-	-	-
2 mg		2	2	-	-	-	-
1 mg		1	1	-	-	-	-
Total		23	22	15	11	10	3
		611.11 g	411.11g	611 g	610 g	410 g	500 g

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PRECISION LABORATORY

Metric Sets

500 g (5-2-2-1 configuration)



E2

Set Size	Part #	List Price	Calibration Report
500 g - 1 mg	**30823**	$1,900.00	$1,015.00
500 g - 100 mg	**30827**	$1,795.00	$800.00
500 g - 1 g	**30831**	$1,445.00	$648.00
500 g - 100 g	**30835**	$1,190.00	$328.00

REPLACEMENT CASES

Part #	List Price
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00

F1

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
500 g - 1 mg	**30824**	$1,585.00	$1,015.00	$465.00
500 g - 100 mg	**30828**	$1,420.00	$800.00	$375.00
500 g - 1 g	**30832**	$1,180.00	$648.00	$325.00
500 g - 100 g	**30836**	$880.00	$328.00	$164.00

REPLACEMENT CASES

Part #	List Price
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00

F2

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
500 g - 1 mg	**30825**	$1,350.00	$1,015.00	$465.00
500 g - 100 mg	**30829**	$1,250.00	$800.00	$375.00
500 g - 1 g	**30833**	$1,045.00	$648.00	$325.00
500 g - 100 g	**30837**	$735.00	$328.00	$164.00

REPLACEMENT CASES

Part #	List Price
34645	$264.00
34645	$264.00
34645	$264.00
34645	$264.00

Case Inserts

WEIGHT	PART #	LIST PRICE
500 g - 1 mg	**30607**	$164.00
500 g - 100 g	**30608**	$264.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
50000	Tong assembly, ends protected with surgical tubing, 1 kg - 200 g	$56.00
11711	Weight tweezer, plastic, for leaf weights only	$3.00
11714	Weight gloves, white, cotton	$3.00
11755	Leaf weight lid	$32.00
36092	Certificate of Accuracy, (not available for Class E2)	$45.00
50032	Forceps, 100 g - 1 mg	$25.00

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PRECISION LABORATORY

Metric Sets

500 g (5-2-2-1 configuration)

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	Class	500 g-1 mg	500 g-100 mg	500 g-1 g	500 g-100 g
Weight Set Part #	E2	30823	30827	30831	30835
	F1	30824	30828	30832	30836
	F2	30825	30829	30833	30837
Wt. Value		Qty.	Qty.	Qty.	Qty.
500 g		1	1	1	1
200 g		2	2	2	2
100 g		1	1	1	1
50 g		1	1	1	-
20 g		2	2	2	-
10 g		1	1	1	-
5 g		1	1	1	-
2 g		2	2	2	-
1 g		1	1	1	-
500 mg		1	1	-	na/
200 mg		2	2	-	-
100 mg		1	1	-	-
50 mg		1	-	-	-
20 mg		2	-	-	-
10 mg		1	-	-	-
5 mg		1	-	-	-
2 mg		2	-	-	-
1 mg		1	-	-	-
Total		24	16	12	4
		1.11111 kg	1.111 kg	1.11 kg	1 kg

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PRECISION LABORATORY

Metric Sets

2 kg, 2-2 kg and 1 kg (5-2-2-1 configuration))



E2

Set Size	Part #	List Price	Calibration Report
2-2 kg -1 mg	**96455**	$3,400.00	$1,554.00
2 kg - 1 mg	**40523**	$3,075.00	$1,002.00
2-2 kg - 1 g	**96457**	$3,200.00	$1,194.00
2 kg - 1 g	**40525**	$2,615.00	$800.00
1 kg - 1 mg	**30807**	$2,315.00	$980.00
1 kg - 100 mg	**30811**	$2,305.00	$900.00
1 kg - 1 g	**30815**	$1,945.00	$700.00
1 kg - 100 g	**30819**	$1,900.00	$420.00

REPLACEMENT CASES

Part #	List Price
84474	$1,596.00
96308	$1,596.00
84474	$1,596.00
96308	$1,596.00
30605	$1,596.00
30605	$1,596.00
30605	$1,596.00
30606	$1,433.00

F1

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
2-2 kg - 1 mg	**96459**	$3,200.00	$1,55400	$960.00
2 kg - 1 mg	**40528**	$2,622.00	$1,002.00	$600.00
2-2 kg - 1 g	**96461**	$2,800.00	$1,194.00	$672.00
2 kg - 1 g	**40530**	$2,330.00	$800.00	$393.00
1 kg - 1 mg	**30808**	$2,125.00	$980.00	$500.00
1 kg - 100 mg	**30812**	$2,110.00	$900.00	$370.00
1 kg - 1 g	**30816**	$2,105.00	$700.00	$348.00
1 kg - 100 g	**30820**	$1,930.00	$420.00	$200.00

REPLACEMENT CASES

Part #	List Price
84474	$1,596.00
96308	$1,596.00
84474	$1,596.00
96308	$1,596.00
30605	$1,596.00
30605	$1,596.00
30605	$1,596.00
30606	$1,433.00

F2

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
2-2 kg -1 mg	**96463**	$2,325.00	$1,554.00	$960.00
2 kg - 1 mg	**40533**	$2,125.00	$1,002.00	$600.00
2-2 kg -1 g	**96465**	$2,415.00	$1,194.00	$672.00
2 kg - 1 g	**40535**	$1,920.00	$800.00	$393.00
1 kg - 1 mg	**30809**	$1,795.00	$980.00	$500.00
1 kg - 100 mg	**30813**	$1,750.00	$900.00	$370.00
1 kg - 1 g	**30817**	$1,700.00	$700.00	$348.00
1 kg - 100 g	**30821**	$1,600.00	$420.00	$200.00

REPLACEMENT CASES

Part #	List Price
84474	$1,596.00
96308	$1,596.00
84474	$1,596.00
96308	$1,596.00
30605	$1,596.00
30605	$1,596.00
30605	$1,596.00
30606	$1,433.00

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PRECISION LABORATORY

Metric Sets

2 kg, 2-2 kg and 1 kg (5-2-2-1 configuration))

WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	Class	2-2 kg - 1 mg	2 kg - 1 mg	2-2 kg - 1g	2 kg - 1g	1 kg-1 mg	1 kg-100 mg	1 kg-1 g	1 kg-100 g
Weight Set Part #	E2	96455	40523	96457	40525	30807	30811	30815	30819
	F1	96459	40528	96461	40530	30808	30812	30816	30820
	F2	96463	40533	96465	40535	30809	30813	30817	30821
Wt. Value		Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
2 kg		2	1	2	1	-	-	-	-
1 kg		1	1	1	1	1	1	1	1
500 g		1	1	1	1	1	1	1	1
200 g		2	2	2	2	2	2	2	2
100 g		1	1	1	1	1	1	1	1
50 g		1	1	1	1	1	1	1	-
20 g		2	2	2	2	2	2	2	-
10 g		1	1	1	1	1	1	1	-
5 g		1	1	1	1	1	1	1	-
2 g		2	2	2	2	2	2	2	-
1 g		1	1	1	1	1	1	1	-
500 mg		1	1	-	-	1	1	-	-
200 mg		2	2	-	-	2	2	-	-
100 mg		1	1	-	-	1	1	-	-
50 mg		1	1	-	-	1	-	-	-
20 mg		2	2	-	-	2	-	-	-
10 mg		1	1	-	-	1	-	-	-
5 mg		1	1	-	-	1	-	-	-
2 mg		2	2	-	-	2	-	-	-
1 mg		1	1	-	-	1	-	-	-
Total		27	26	15	14	25	17	13	5
		6.11111 kg	4.11111 kg	6.11 kg	4.11 kg	2.11111 kg	2.111 kg	2.11 kg	2 kg

Secondary Case

WEIGHT	PART #	LIST PRICE
100 g - 1 mg	34697	$175.00

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
50000	Tong assembly, ends protected with surgical tubing, 1 kg - 200 g	$56.00
11711	Weight tweezer, plastic, for polished weights 1 kg - 200 g,	$3.00
11714	Weight gloves, white, cotton	$3.00
50037	Lifter, 5 kg & 2 kg	$22.00
11755	Leaf weight lid, (not available for Class E2)	$32.00
36092	Certificate of Accuracy, (not available for Class E2)	$45.00

OIML

PRECISION LABORATORY

Metric Sets

20 kg , 10 kg and 5 kg (5-2-2-1 configuration)



E2

Set Size	Part #	List Price	Calibration Report
20 kg - 1 mg	**65210**	$8,600.00	$1,338.00
20 kg - 100 mg	**96416**	$8,500.00	$1,350.00
20 kg - 1 g	**96414**	$8,390.00	$1,300.00
20 kg - 100 g	**96417**	$7,995.00	$1,095.00
20 kg - 1 kg	**96418**	$7,365.00	$656.00
10 kg - 1 mg	**65213**	$6,577.00	$1,254.00
10 kg - 100 mg	**96419**	$6,475.00	$1,150.00
10 kg - 1 g	**96415**	$6,395.00	$1,190.00
10 kg - 100 g	**96420**	$5,755.00	$980.00
10 kg - 1 kg	**96421**	$5,360.00	$540.00
5 kg - 1 mg	**30786**	$4,227.00	$1,170.00
5 kg - 100 mg	**30790**	$4,245.00	$1,050.00
5 kg - 1 g	**30794**	$3,860.00	$950.00
5 kg - 100 g	**30798**	$3,555.00	$850.00
5 kg - 1 kg	**30803**	$3,260.00	$208.00

REPLACEMENT CASES

Part #	List Price
65219	$1,889.00
65219	$1,889.00
65219	$1,889.00
65219	$1,889.00
65219	$1,889.00
65218	$1,993.00
65218	$1,993.00
65218	$1,993.00
65218	$1,993.00
65218	$1,993.00
30602	$1,562.00
30602	$1,562.00
30602	$1,562.00
30603	$1,562.00
30604	$1,433.00

OIML

F1

Set Size	Part #	List Price	Calibration Report	Mass Value Certificate
20 kg - 1 mg	**65211**	$6,500.00	$1,338.00	$695.00
20 kg - 100 mg	**96428**	$7,655.00	$1,350.00	$669.00
20 kg - 1 g	**96425**	$7,570.00	$1,300.00	$573.00
20 kg - 100 g	**96426**	$7,210.00	$1,095.00	$426.00
20 kg - 1 kg	**96427**	$6,642.00	$656.00	$340.00
10 kg - 1 mg	**65214**	$5,964.00	$1,254.00	$633.00
10 kg - 100 mg	**96429**	$5,858.00	$1,150.00	$575.00
10 kg - 1 g	**96430**	$5,765.00	$1,190.00	$528.00
10 kg - 100 g	**96467**	$5,404.00	$980.00	$381.00
10 kg - 1 kg	**96432**	$4,835.00	$540.00	$280.00
5 kg - 1 mg	**30787**	$3,800.00	$1,170.00	$595.00
5 kg - 100 mg	**30791**	$3,860.00	$1,050.00	$500.00
5 kg - 1 g	**30795**	$3,570.00	$950.00	$472.00
5 kg - 100 g	**30800**	$3,268.00	$850.00	$336.00
5 kg - 1 kg	**30804**	$3,950.00	$432.00	$208.00

REPLACEMENT CASES

Part #	List Price
65219	$1,889.00
65219	$1,889.00
65219	$1,889.00
65219	$1,889.00
65219	$1,889.00
65218	$1,993.00
65218	$1,993.00
65218	$1,993.00
65218	$1,993.00
65218	$1,993.00
30602	$1,562.00
30602	$1,562.00
30602	$1,562.00
30603	$1,562.00
30604	$1,433.00

Secondary Case

WEIGHT	PART #	LIST PRICE
100 g - 1 mg	34697	$175.00
100 g (insert)	49489	$123.00

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PRECISION LABORATORY

Metric Sets

20 kg , 10 kg and 5 kg (5-2-2-1 configuration)

		F2			REPLACEMENT CASES	
Set Size	Part #	List Price	Calibration Report	Mass Value Certificate	Part #	List Price
20 kg - 1 mg	**65212**	$6,930.00	$1,338.00	$695.00	**65219**	$1,889.00
20 kg - 100 mg	**96447**	$6,820.00	$1,350.00	$669.00	**65219**	$1,889.00
20 kg - 1 g	**96441**	$6,745.00	$1,300.00	$573.00	**65219**	$1,889.00
20 kg - 100 g	**96442**	$6,425.00	$1,095.00	$426.00	**65219**	$1,889.00
20 kg - 1 kg	**96443**	$5,915.00	$656.00	$340.00	**65219**	$1,889.00
10 kg - 1 mg	**65215**	$5,305.00	$1,254.00	$633.00	**65218**	$1,993.00
10 kg - 100 mg	**96445**	$5,215.00	$1,150.00	$575.00	**65218**	$1,993.00
10 kg - 1 g	**96446**	$5,135.00	$1,190.00	$528.00	**65218**	$1,993.00
10 kg - 100 g	**96444**	$4,815.00	$980.00	$381.00	**65218**	$1,993.00
10 kg - 1 kg	**96448**	$4,310.00	$540.00	$280.00	**65218**	$1,993.00
5 kg - 1 mg	**30788**	$3,465.00	$1,170.00	$595.00	**30602**	$1,562.00
5 kg - 100 mg	**30792**	$3,370.00	$1,050.00	$500.00	**30602**	$1,562.00
5 kg - 1 g	**30796**	$3,060.00	$950.00	$472.00	**30602**	$1,562.00
5 kg - 100 g	**30801**	$2,810.00	$850.00	$336.00	**30603**	$1,562.00
5 kg - 1 kg	**30805**	$2,590.00	$432.00	$208.00	**30604**	$1,433.00

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PRECISION LABORATORY

Metric Sets

20 kg , 10 kg and 5 kg (5-2-2-1 configuration)



WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	20 kg- 1 mg	20 kg - 100 mg	20 kg - 1 g	20 kg - 100 g	20 kg - 1 kg	10 kg - 1 mg	10 kg -100 mg	10 kg - 1 g
Weight Set Part #	**65210**	**96416**	**96414**	**96417**	**96418**	**65213**	**96419**	**96415**
	65211	**96428**	**96425**	**96426**	**96427**	**65214**	**96429**	**96430**
	65212	**96447**	**96441**	**96442**	**96443**	**65215**	**96445**	**96446**
Wt. Value	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
20 kg	1	1	1	1	1	-	-	-
10 kg	1	1	1	1	1	1	1	1
5 kg	1	1	1	1	1	1	1	1
2 kg	2	2	2	2	2	2	2	2
1 kg	1	1	1	1	1	1	1	1
500 g	1	1	1	1	-	1	1	1
200 g	2	2	2	2	-	2	2	2
100 g	1	1	1	1	-	1	1	1
50 g	1	1	1	-	-	1	1	1
20 g	2	2	2	-	-	2	2	2
10 g	1	1	1	-	-	1	1	1
5 g	1	1	1	-	-	1	1	1
2 g	2	2	2	-	-	2	2	2
1 g	1	1	1	-	-	1	1	1
500 mg	1	1	-	-	-	1	1	-
200 mg	2	2	-	-	-	2	2	-
100 mg	1	1	-	-	-	1	1	-
50 mg	1	-	-	-	-	1	-	-
20 mg	2	-	-	-	-	2	-	-
10 mg	1	-	-	-	-	1	-	-
5 mg	1	-	-	-	-	1	-	-
2 mg	2	-	-	-	-	2	-	-
1 mg	1	-	-	-	-	1	-	-
Total	30	22	18	10	6	29	21	17
	41.11111 kg	**41.11105 kg**	**41.111 kg**	**41 kg**	**40 kg**	**21.11111 kg**	**21.11105 kg**	**21.111 kg**

OIML

Additional Accessories

PART #	DESCRIPTION	LIST PRICE
50000	Tong assembly, ends protected with surgical tubing, 1 kg - 200 g	$56.00
11711	Weight tweezer, plastic, for polished weights 100 g and below	$3.00
50037	Lifter, 5 kg - 2 kg	$22.00
11714	Weight gloves, white, cotton	$3.00
11755	Leaf weight lid	$32.00
36092	Certificate of Accuracy, (not available for Class E2)	$45.00

RICE LAKE WEIGHING SYSTEMS

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PRECISION LABORATORY

Metric Sets

20 kg , 10 kg and 5 kg (5-2-2-1 configuration)

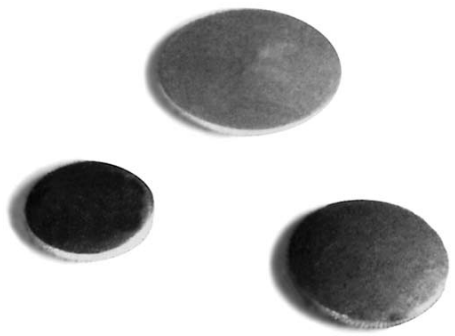
WEIGHT SET CONTENTS (PIECE COUNT AND TOTAL WEIGHT)

	10 kg - 100 g	10 kg - 1 kg	5 kg - 1 mg	5 kg - 100 mg	5 kg - 1 g	5 kg-100 g	5 kg-1 kg
Weight Set Part #	96420	96421	30786	30790	30794	30798	30803
	96467	96432	30787	30791	30795	30800	30804
	96444	96448	30788	30792	30796	30801	30805
Wt. Value	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
20 kg	-	-	-	-	-	-	-
10 kg	1	1	-	-	-	-	-
5 kg	1	1	1	1	1	1	1
2 kg	2	2	2	2	2	2	2
1 kg	1	1	1	1	1	1	1
500 g	1	-	1	1	1	1	-
200 g	2	-	2	2	2	2	-
100 g	1	-	1	1	1	1	-
50 g	-	-	1	1	1	-	-
20 g	-	-	2	2	2	-	-
10 g	-	-	1	1	1	-	-
5 g	-	-	1	1	1	-	-
2 g	-	-	2	2	2	-	-
1 g	-	-	1	1	1	-	-
500 mg	-	-	1	1	-	-	-
200 mg	-	-	2	2	-	-	-
100 mg	-	-	1	1	-	-	-
50 mg	-	-	1	-	-	-	-
20 mg	-	-	2	-	-	-	-
10 mg	-	-	1	-	-	-	-
5 mg	-	-	1	-	-	-	-
2 mg	-	-	2	-	-	-	-
1 mg	-	-	1	-	-	-	-
Total	9	5	28	20	16	8	4
	21 kg	20 kg	11.11111 kg	11.111 kg	11.11 kg	11 kg	10 kg

OIML

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Sealing Plugs



SEALING PLUGS

PART #	DIAMETER (MM)	LIST PRICE
Lead Plugs		
11749	2 3/4" (69.8)	$2.50
11750	1 7/8" (47.6)	$2.50
11751	1" (25.4)	$2.50
11752	1/2" (12.7)	$2.50
11753	1 1/4" (31.7)	$2.50
11760	9/16" (14.3)	$2.50
11761	5/8" (15.9)	$2.50
11765	3/4" (19.1)	$2.50
11785	7/8" (22.2)	$2.50
Aluminum Plugs		
11744	3/8" (9.5)	$1.00
11745	1/2" (12.7)	$1.00
11746	5/8" (15.9)	$1.00
11762	1" (25.4)	$1.00
11767	9/16" (14.3)	$1.00
11775	7/8" (22.2)	$1.00
11776	3/4" (19.1)	$1.00
Back-up Plugs		
11748	2 3/4" (69.8)	$3.50
11766	3/4" (19.1)	$3.35
11710	1" (25.4)	$1.35
11699	1 7/8" (47.6)	$1.35
Stainless Steel Plugs		
11709	15/10" (23.0)	$1.35

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Clean Room Cases



These cases are ideal for all clean room environments. Made of tough, clear acrylic, these attractive cases protect your valuable investment while allowing you to comply to even the most stringently clean room requirements. Inserts are made of either acrylic or PVC depending on the number and configuration of weights being stored. Please note that acrylic weight cases have been developed for storage of your weights only. They are not designed for shipping purposes. Acrylic weight cases are available as an accessory only. Weight sets will be shipped in our standard wood or PVC cases for the ultimate in protection during transportation. You will find these cases convenient, attractive, effective and economical. Please call for a quotation.



Replacement Cases

PART #	WIDTH **	LENGTH **	CLOSED HEIGHT **	LIST PRICE
Leatherette				
69429	3 3/4"	1 7/8"	1 1/16"	$27.00
69229	3 7/16"	2 1/2"	7/8"	$27.00
69228	4"	4"	4 1/2"	$39.00
Plastic				
87982	9 1/2"	6"	3 1/2"	$59.00
ABS Plastic				
11531	13 1/2"	7 5/8"	6"	$192.00
11534	14 3/8"	9 3/8"	7 5/8"	$197.00
11572	8 3/8"	6 1/2"	7 1/8"	$142.00
Sealers Cube Wt -- Foam-lined*				
40783	14 3/8"	9 3/8"	7 5/8"	$290.00

** No storage pocket*

*** Inside case dimensions*



Pelican Cases

PART #	WIDTH	LENGTH	CLOSED HEIGHT	LIST PRICE
21230	22"	17"	8"	$345.00
21229	17"	11 3/4"	6"	$225.00





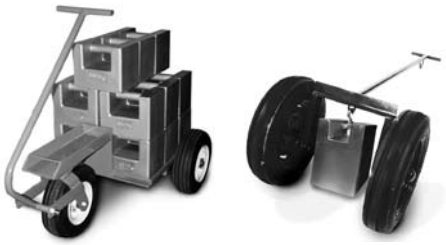




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Transfer Cart

PART #	WIDTH (MM)	HANDLE WIDTH (MM)	HEIGHT	LIST PRICE
11700	36 1/2" (927.1)	74 1/2" (1892.3)	29" (736.6)	$1,350.00
For use on smooth, level surfaces— especially for moving 500 lb or 1000 lb heavy-capacity weights. Cart can be sealed to a specified weight.				
11702	24" (609)	35" (889)	14" (355)	$1,540.00
For use on smooth, level surfaces— especially for moving 500 lb or 1000 lb heavy-capacity weights. Cart can be sealed to a specified weight. For use on smooth, level surfaces—for holding up to fifteen 50 lb Grip-handle weights. Cart can be sealed to a specific weight.				





Touch-Up/Repair Paint

PART #	COLOR	LIST PRICE
88071	Gold Sierra	$132.00/gal.
88072	Silver Sierra	$100.00/gal.
88073	Primer	$116.00/gal.
88561	Aerosol Spray (Gold)	$25.00
88562	Aerosol Spray (Silver)	$25.00
88563	Aerosol Spray (Primer)	$79.00/gal.
88323	Thinner	$68.00/gal.

Specially developed metallic paint to keep your cast iron weights looking like new



Canvas Dust Covers

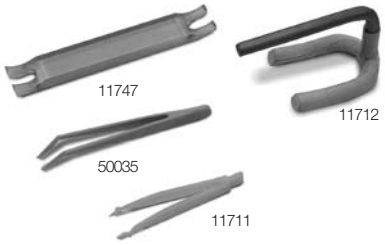
CAPACITY	WEIGHT PART #	COVER PART #	LIST PRICE
200 lb	**(12890)**	**11720**	$175.00
500 lb	**(12844)**	**11722**	$175.00
750 lb	**(12880)**	**11723**	$175.00
1000 lb	**(12850)**	**11724**	$175.00
1250 lb	**(12858)**	**11727**	$175.00
2000 lb	**(12866)**	**11729**	$175.00
2500 lb	**(12860)**	**11732 (slab)**	$175.00
5000 lb	**(12888)**	**11735**	$175.00
25 kg	**(12775)**	**11736**	$175.00
50 kg	**(12803)**	**11737**	$175.00
100 kg	**(12817)**	**11738**	$175.00
250 kg	**(12782)**	**11740**	$175.00
500 kg	**(12797)**	**11741**	$175.00
1000 kg	**(12801)**	**11742**	$175.00
2000 kg	**(12821)**	**11743**	$175.00

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Gloves
11712



Transfer Equipment



Standard Balance Slab
Kasota Stone



Clean Room Table
Granite



Standard Balance Table
Kasota Stone



Anti-Vibration



Gloves

PART #	DESCRIPTION	LIST PRICE
11714	White Cloth (pair)	$3.00
11773	Plastic (each)	$1.50

Transfer Equipment

PART #	DESCRIPTION	LIST PRICE
11711	Forceps, 3 5/8" 100 g - 1 mg	$3.00
50035	Forceps, 4 3/4"	$25.00
11747	Plastic Bar 200 g - 4 kg	$13.00
11712	Metal Handle 5 kg +	$56.00
65640*	Metal Forceps	$11.00
50037	Weight lifter, OIML 2 kg and 5 kg	$22.00

** Not recommended for use with polished weights.*

Weight and Balance Accessories Slabs and Tables

Tables and Anti-Vibration

PART #	DESCRIPTION	LIST PRICE
Standard Balance Slab, Kasota Stone		
83779	15" x 20" x 3" 100 lb	$328.00
Clean Room Table		
83780	24" x 35" x 32" 600 lb	$2,630.00
Standard Balance Table, Kasota Stone		
83778	24" x 35" x 32" 700 lb	$930.00
Anti-Vibration Pad		
75263	Anti-vibration pad 4 x 4 1/4 Thick	$15.00

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Specials and Discontinued Products

Availability limited to existing stock, contact Sales for pricing, additional specifications available upon request

10425	Weight, CP Round Slotted	Interlocking 5lb x 5/8lb 2-15/16Dia ASTM Class 7 Cast Iron
12724	Weight, Leaf .5GN NIST	Class F SST Satin Density 7.95
12728	Weight, Leaf 3GN NIST	Class F SST Satin Density 7.95
12729	Weight, Leaf 4GN NIST	Class F SST Satin Density 7.95
12730	Weight, Leaf 5GN NIST	Class F SST Satin Density 7.95
12731	Weight, Leaf 6GN NIST	Class F SST Satin Density 7.95
12737	Weight, CYL 30GN NIST	Class F SST Satin Density 7.84
12738	Weight, CYL 50GN NIST	Class F SST Satin Density 7.84
12742	Weight, CYL 300GN NIST	Class F SST Satin Density 7.84
12743	Weight, CYL 500GN NIST	Class F SST Satin Density 7.84
12745	Weight, CYL 1,000GN NIST	Class F SST Satin Density 7.84
12764	Weight, CYL 1oz Apothecary	NIST Class F SST Satin
11154	Weight, Slotted 1oz ASTM	Class 4 SST Satin
11779	Weight, Straight CYL 1kg	SST Turned Not Sealed
11566	Weight Case, 3x6 Wood	

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TRUCK/RAIL/LIVESTOCK SCALES

Truck/Rail/Livestock Scales **TS-2**

RoughDeck® AX

Axle Scale..... **TS-3**

AX3040

Axle Scale..... **TS-4**

SURVIVOR®

Truck, Rail and Livestock Scales

For more information on Rice Lake's full line of SURVIVOR® truck, rail and livestock scales please visit our website at www.ricelake.com or call 800-472-6703 and ask to speak with a heavy capacity team member.



Truck Scales:
www.ricelake.com/truckscales

SURVIVOR® OTR
Heavy-duty, top access, low profile concrete or steel deck scales

SURVIVOR® ATV
Heavy or extreme duty, top access portable steel deck scales

SURVIVOR® SR
Heavy-duty, low profile, concrete or steel deck siderail scales

SURVIVOR® PT
Heavy-duty, pit-type, concrete or steel deck scales

SURVIVOR® X
Extreme-duty, off-road vehicle scales

SURVIVOR® ATV-M
Self-contained levertronic, steel deck scales

SURVIVOR® PT-M
Pit-type, levertronic, concrete deck scales

Rail Scales:
www.ricelake.com/railscales

SURVIVOR® RT
Pit-type, rail/truck combination scales

SURVIVOR® PL
Low profile, pitless scales

Livestock Scales:
www.ricelake.com/livestockscales

SURVIVOR® AG
Livestock/Agriculture utility scale

SURVIVOR® LV
Livestock ring scale

SURVIVOR® LS
Multiple animal livestock scale

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RoughDeck® AX

Axle Scale



STANDARD FEATURES

- System includes two platforms and four on/off ramps
- Axle capacity - tandem platforms - 60,000lb (two scales 30,000lb each)

Scale

- 32in W x 84in L x 6in H
- 30,000lb
- Contains four environmentally sealed, IP67 20,000lb load cells per platform
- Treaded top plate with side access junction box
- JB4SS TuffSeal® Signal Trim junction box
- Top access foot adjustment holes
- Carbon steel captured ball feet
- 20ft Survivor EL147HE cable

Ramps

- 32in W x 60in L x 6in H
- Treaded top plate

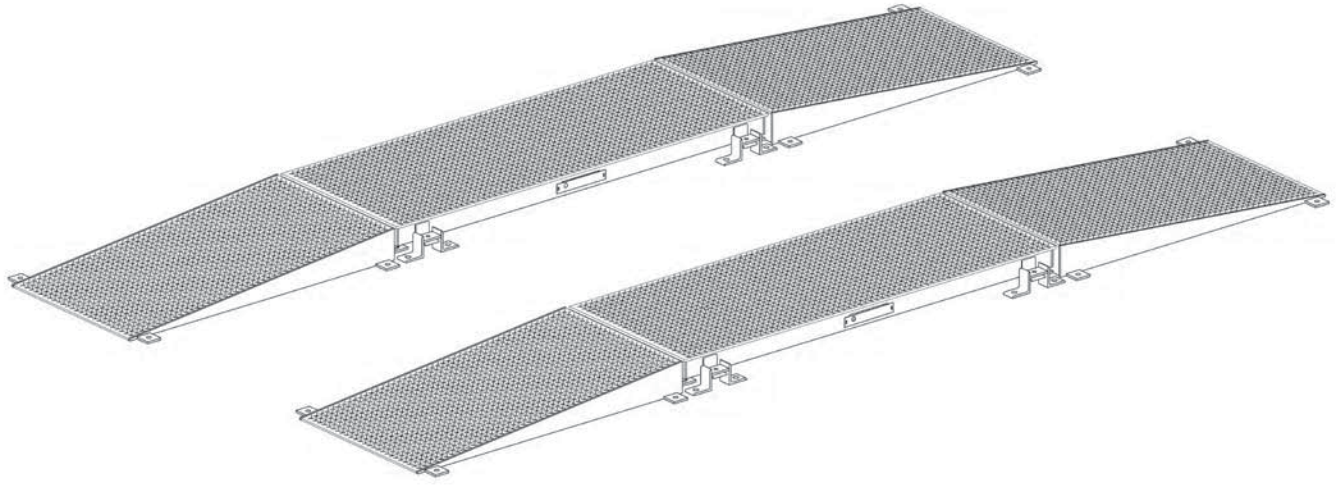
SPECIFICATIONS

ESTIMATED SHIP WEIGHT:
Two scales and four ramps (3,500lb)

END LOADING CAPACITY:
133% full scale at 30,000lb

WARRANTY:
Five-year limited warranty

PART #	CAPACITY	SIZE (W x L x H)	EST. SHIP WEIGHT	PRICE
107637	60,000lb (30,000lb each)	32in x 204in x 6in	4,900lb	$11,915.00



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NEW AX3040

Axle Scale



STANDARD FEATURES

- Sizes: 7ft, 12ft and 14ft lengths
- Construction: steel or aluminum
- Capacity: 60,000lb or 80,000lb
- JB4SS Tuff Seal Signal Trim Junction Box
- Treaded top plate with four lifting eyes
- 10ft EL146HE Interconnect cable with MS-type connectors to go between weigh pads
- 50ft EL147HE cable to connect weigh pad to indicator

Ramps

- 32in W x 25.25in L
- Steel or Aluminum

SPECIFICATIONS

CONSTRUCTION:
Steel or Aluminum

END LOADING CAPACITY:
100% full scale at 30,000lb
75% full scale at 40,000lb

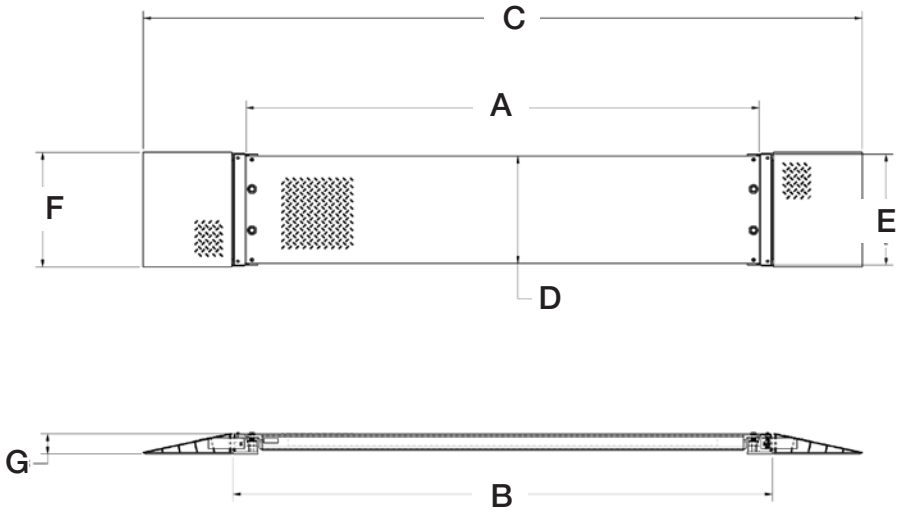
WARRANTY:
One-year limited warranty

PART #	CAPACITY	SIZE (W x L x H)	EST. SHIP WEIGHT	PRICE
Steel Construction - Painted Black				
112330	60,000lb (30,000lb each)	2.5ft x 7ft x 5.63	1,817lb	$9,660.00
111748	80,000lb	2.5ft x 12ft x 5.63	3,565lb	11,635.00
112328	80,000lb	2.5ft x 14ft x 5.75	4,485lb	15,800.00
Aluminum Construction - Glass Beaded				
112329	60,000lb (30,000lb each)	2.5ft x 7ft x 5.63	1,030lb	11,250.00

OPTIONS/ACCESSORIES

111749	Steel access ramps set of four	32in W x 25.25 L x 5.63 H	750lb	1,100.00
112326	Aluminum access ramps set of four	32in W x 25.25 L x 5.63 H	270lb	2,580.00

DIMENSIONS			
7 FOOT STEEL			
A	83.60in (2123.44mm)	**E**	31.00in (787.4mm)
B	90.90in (2308.86mm)	**F**	32.00in (812.8mm)
C	141.25in (3587.75mm)	**G**	5.63in (143.0mm)
D	30.00in (762.00mm)		
12 FOOT STEEL			
A	143.60in (3647.44mm)	**E**	31.00in (787.4mm)
B	150.90in (3832.86mm)	**F**	32.00in (812.8mm)
C	201.2 in (5111.75mm)	**G**	5.63in (143.0mm)
D	30.00in (762.00mm)		
14 FOOT STEEL			
A	167.60in (4257.04mm)	**E**	31.00in (787.4mm)
B	174.90in (4442.46mm)	**F**	32.00in (812.8mm)
C	225.25in (5721.35mm)	**G**	5.75in (146.05mm)
D	30.00in (762.00mm)		
7 FOOT ALUMINUM			
A	83.60in (2123.44mm)	**E**	31.00in (787.4mm)
B	90.90in (2308.86mm)	**F**	32.00in (812.8mm)
C	141.25in (3587.75mm)	**G**	5.63in (143.0mm)
D	30.00in (762.00mm)		



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Wheel Loader Scale On-Board Weighing Systems..... **WL-2**

WLS-C

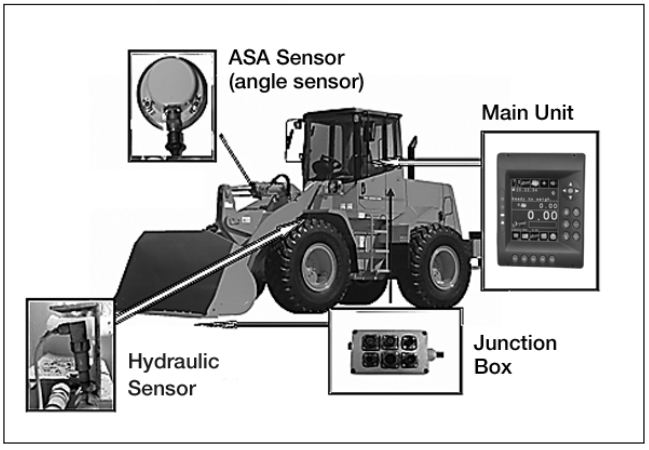
Wheel Loader Scale On-Board Weighing Systems..... **WL-4**

WLS-1

Wheel Loader Scale

Rice Lake's WLS-1 Wheel Loader Scale provides on-the-go weighing for track, skid-steer and front loaders. Essential for quarries, transfer stations, mines and remote sites. The WLS-1 is a state-of-the-art solution for on the move weighing that won't slow your production rates. This system allows loader operators to accurately load trucks, rail cars or vessels to optimum capacity, eliminating load adjustments at the outbound scale.





STANDARD FEATURES

- Unique self-learning calibration method that drastically reduces the system installation time
- WLS-1 is a dynamic weighing system which allows you to accurately weigh without stopping your operation or movement
- Ergonomic display design, knuckle-boom support and wide back lit LDC enables immediate understanding of weight data
- Graphic display and icons make reading the display easy during the loading process
- Customer and material management keeps track of production and inventory
- Can Bus based I/O
- IP65 housing and mil-spec connectors
- Display of partial weights and relative totals automatically summed without operator intervention
- Partial zeroing (tipping) for precise loadings
- 1000 different customers with name, address, etc.
- 200 types of materials with names
- 50 different operators
- 500 truck numbers
- 100 projects
- Sum of truck loads
- Subtraction of the partial loads starting from the target
- Display of totals for materials
- 4 different calibrations allows a single display to be used with up to 4 loaders
- RS-232 output for printers, modem, telemetry, GPS

If the system has a printer:

- Print tickets for each weighment
- Print total ticket at the end of each load
- End of day (week, month or year) summary grouped together by type of material loaded
- Date and time
- Load up to 10 different materials on the same truck
- Load up to 10 different trucks at the same time

SPECIFICATIONS

OPERATING VOLTAGE
10-30 VDC (polarity)

TEMPERATURE OPERATING RANGE
-22ºF to 158ºF (-20ºC to 70ºC)

PANEL DIMENSIONS
5,1 X 7,7 X 2,5 inches

LOAD MEASURING ACCURACY
+/-1%

CONNECTIONS FOR DATA TRANSMISSION
Two RS-232/C

MACHINE CALIBRATIONS
4 different

UNITS OF MEASURE
Ton, Kg, Tu, Lbs

WARRANTY
Two-year limited warranty

RICE LAKE WEIGHING SYSTEMS
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Prices and specifications subject to change without notice. Visit ricelake.com for current prices.

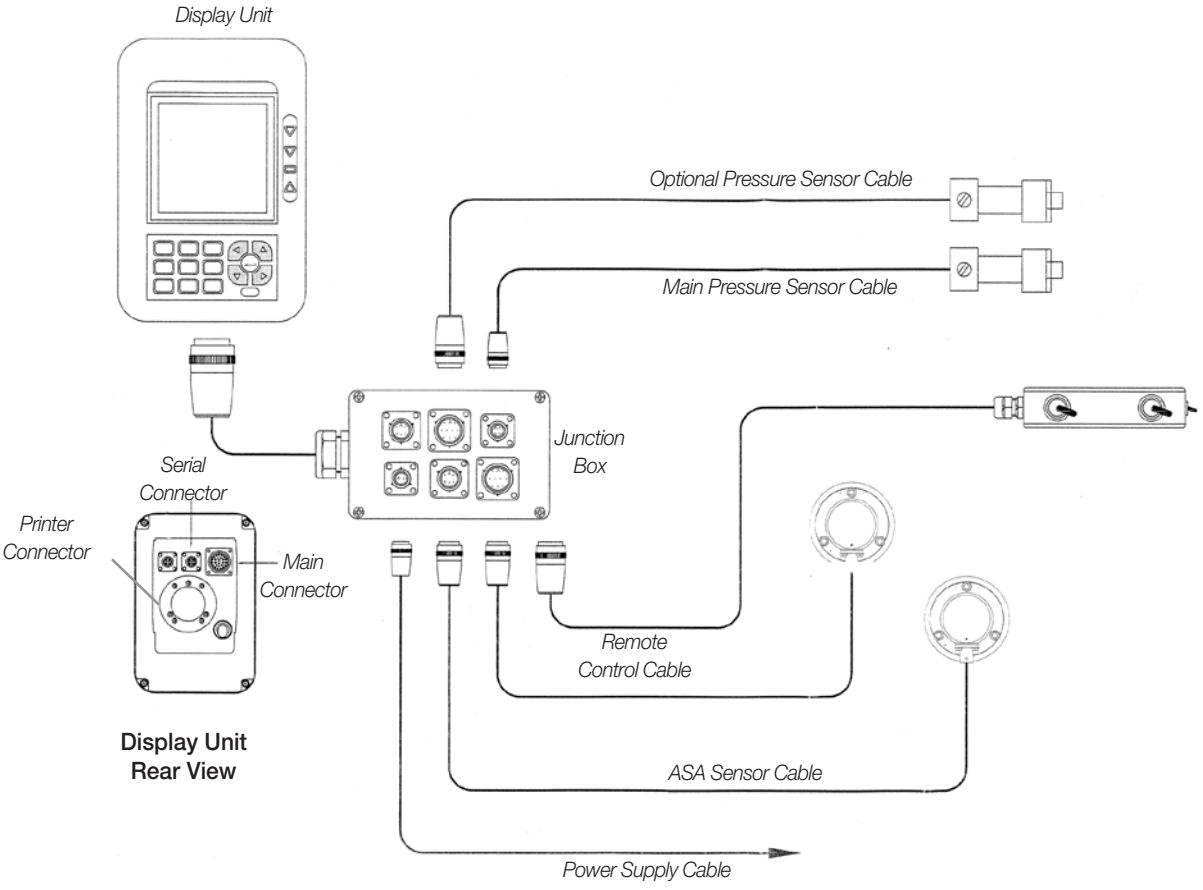
WLS-1

Wheel Loader Scale

PART #	DESCRIPTION	PRICE
103192	WLS-1 loader scale	$6,299.00

OPTIONS/ACCESSORIES

103780	Roll tape printer, 24 column	995.00
100035	Power cable with connector	395.00
100030	SD12 junction box	940.00
100033	Hydraulic pressure sensor	720.00
100036	Hydraulic pressure sensor cable	295.00
100037	Hydraulic fitting kit	270.00
100383	ASA sensor weld plate	100.00
100032	ASA cable with connector	295.00
100034	Remote control with connector	485.00
100031	ASA sensor 180 angle sensor	1,295.00
102081	WLS-1 indicator	4,299.00
101063	WLS-1 Manual	55.00
107613	Printer bracket	95.00
108234	Wireless data package	2,095.00
103779	WLS-1 2nd machine kit	3,995.00
104594	ASA sensor cover	195.00
104593	Top Share PC software	1,195.00
69916	One-ply paper roll, 3 in W x 150 ft L (76.2 mm W x 45.7 m L)	5.00
69915	Two-ply paper roll, 3 in W x 90 ft L (76.2 mm W x 27.4 m L)	7.00
Consult	Ink cartridge, color	Consult



WLS-C

Wheel Loader Scale

Rice Lake WLS-C is our compact weighing system for skid steers, wheel loaders and track loaders. The compact control head fits in virtually any cab. Both individual bucket weights and accumulated weights are shown on the LCD display. The quality you would expect from Rice Lake at a price that allows you to put one on every machine in the fleet.

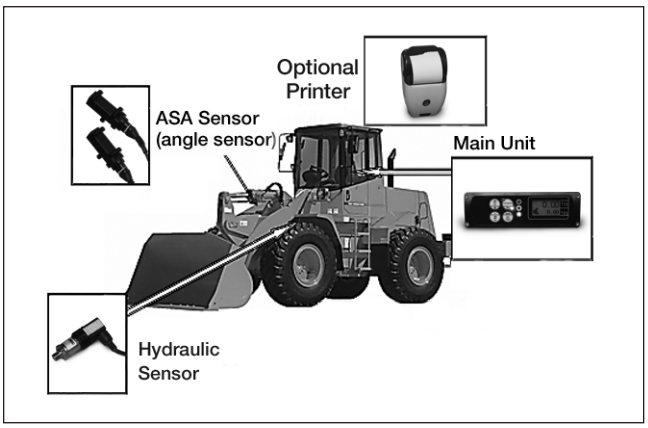


STANDARD FEATURES

- Pre-cabled wiring for easy installation
- LCD display with adjustable contrast
- Smart software for self-learning calibration
- On dash easy mounting with swivel support
- High tec design to best fit any machine
- Low profile display for best installation
- Clear indication of the readings on the display

Options

- Printer
- Display available In-Dash configuration



SPECIFICATIONS

OPERATING VOLTAGE
10-30 VDC

TEMPERATURE OPERATING RANGE
-4ºF to 158ºF (-20ºC to 70ºC)

CONNECTIONS FOR DATA TRANSMISSION
Cable harness with automotive connectors

PROTECTION GRADE
IP65

MICROCONTROLLER BASE
16 Bit

WARRANTY
Two-year limited

PART #	DESCRIPTION	PRICE
114397	WLS-C loader scale	$3,795.00

OPTIONS/ACCESSORIES

103780	Roll tape printer, 24 column	995.00
100033	Hydraulic pressure sensor	720.00
100036	Hydraulic pressure sensor cable	295.00
100037	Hydraulic fitting kit	270.00
69916	One-ply paper roll, 3 in W x 150 ft L (76.2 mm W x 45.7 m L)	5.00
69915	Two-ply paper roll, 3 in W x 90 ft L (76.2 mm W x 27.4 m L)	7.00
Consult	Ink cartridge, color	Consult

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