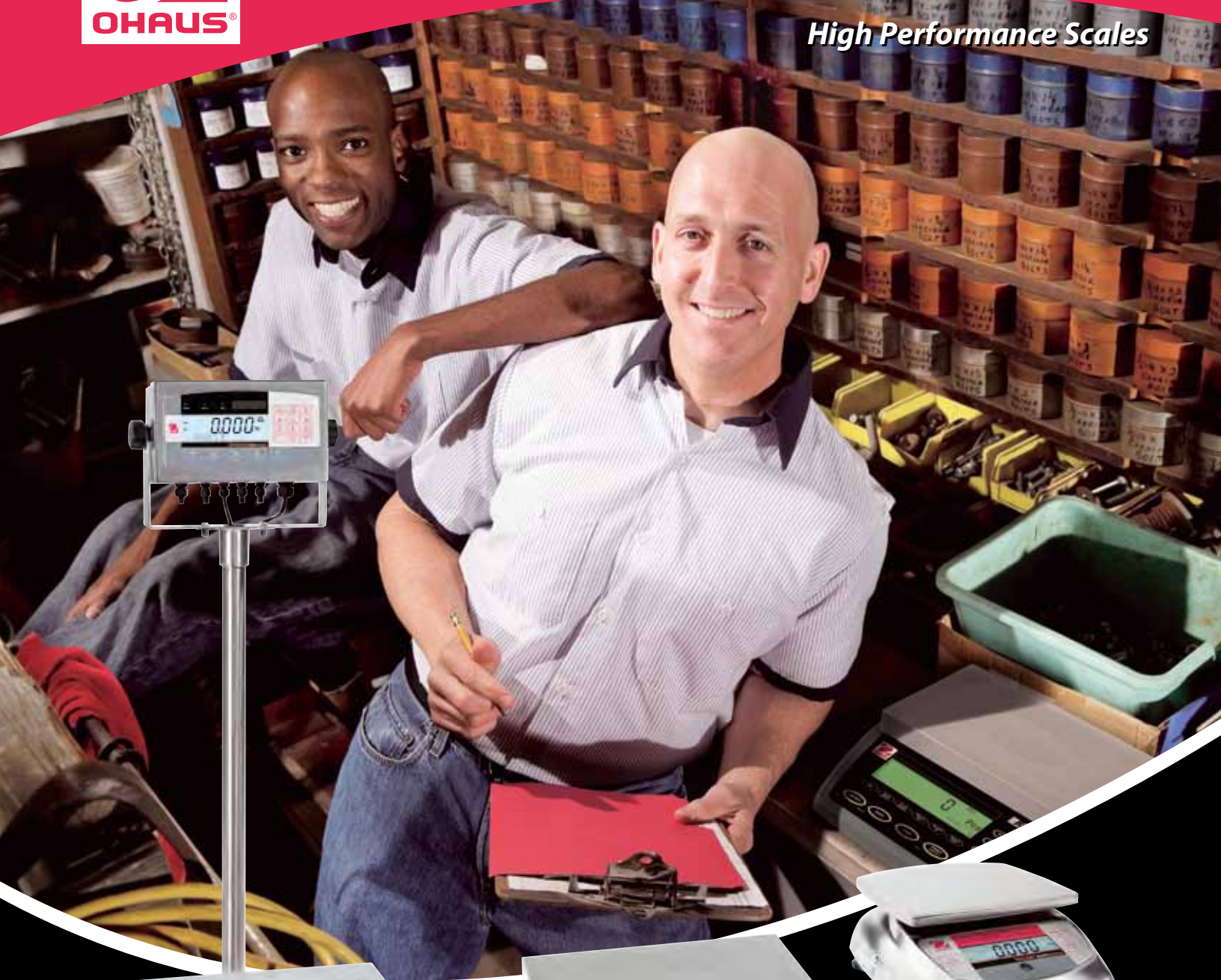




Industrial

High Performance Scales



ISO 9001:2008
Registered Quality Management System

2012

ohaus.com
youtube.com/ohauschannel
facebook.com/ohauscorp



Industrial Balances












NEW!

EXPLORER®

The industry's most easy-to-use balance

- ✓ **SmarText 2.0 software with full color touch screen display** guides users through the weighing process
- ✓ **AutoCal™ automatic balance calibration—no need for external masses**
- ✓ **Touch-free operation—two sensors on the base and two on the display**
- ✓ **QWERTY keyboard and numeric keypad**
- ✓ **Fast stabilization time—up to 50% faster than previous generation**
- ✓ **Superior vibration filtering—provides balance stability in unstable environments**
- ✓ **Frameless, flip-top draftshield provides unobstructed access to the weighing chamber**
- ✓ **Library function to store and recall customized applications**
- ✓ **Data Transfer Function helps to output data directly into Microsoft Excel**
- ✓ **Standard USB and RS232 and an optional third port (either RS232 or Ethernet)**



							
Parts Counting	Check-Weighing	Dynamic/Animal weighing	Percent Weighing	Totalization	Hi Point	Statistics	Internal Calibration
							
Pipette Adjustment	Gross/Net/Tare	Density Determination	Time/Date	GLP Data Output	Weigh Below Hook	Backlit Touchscreen	RS232/USB Interface
							
Ethernet Interface (Optional)	NTEP Certified (Optional)**						



UP TO ELEVEN OPERATING LANGUAGES!

Model	EX223*	EX423*	EX623*	EX1103*	EX2202	EX4202	EX6202	EX10202	EX6201	EX10201
Capacity (g)	220	420	620	1100	2200	4200	6200	10200	6200	10200
Readability (g)	0.001				0.01				0.1	
Repeatability std (g)	±0.001				±0.01				±0.1	
Linearity (g)	±0.002				±0.02				±0.1	
Pan Size (in/mm)	Ø5.1 / 130				7.5 × 7.9 / 190 × 200					
Display Housing (W×H×D) (in/mm)	7.7 × 3.5 × 6.0 / 195 × 90 × 154									
Base Housing (W×H×D) (in/mm)	9.1 × 13.8 × 15.5 / 230 × 350 × 393				9.1 × 3.9 × 15.5 / 230 × 98 × 393					
List Price	\$3,036	\$3,301	\$3,611	\$4,359	\$3,036	\$3,301	\$3,611	\$4,359	\$3,094	\$3,324

*Includes Draftshield

****NTEP CERTIFIED MODELS ARRIVING 2012!**



Four touchless sensors provide hands-free operation of tare, print, calibration, and other selectable functions.



Virtual QWERTY and numeric keypads to quickly input GLP and GMP data



Adjustable viewing angle display



The Explorer's display can be separated from the weighing base—the optional Display Extension Cable (\$48, Item 83021083) extends the remote base up to 10 feet away.

Other accessories include Draftshield Kit for Precision 0.01g and 0.1g balances, balance Security Device, RS232 or USB cables, Thermal or Impact Printers, Second RS232 or Ethernet connections.



High resolution, 5.7" color screen display quickly responds to operator's touch.



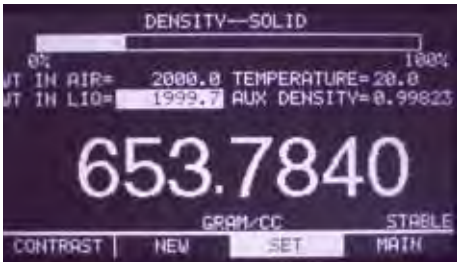
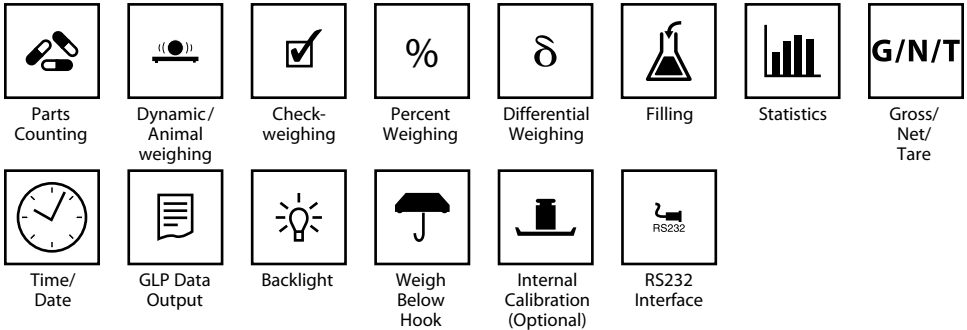
Tower mount accessory (\$91, Item 83021102) mounts the display 10.75" above the base.

High Capacity Industrial Balances



EXPLORER® PRO HIGH RESOLUTION BALANCES

- ✓ Feature-rich software for a wide variety of applications
- ✓ Large, brilliant graphic display for easy reading under all lighting conditions
- ✓ SmarText™ Software guides users through application use and balance setup
- ✓ g, kg, ozt, lb, ct, GN, dwt, m, N, ti, t HK, t SG, t TW, custom unit
- ✓ Optional AutoCal™ internal calibration



Model w/ AutoCal	EP12001C	EP22001C	EP32001C
Model w/o AutoCal	EP12001	EP22001	EP32001
Capacity (g)	12,000	22,000	32,000
Readability / Linearity (g)	0.1 / ±0.4		
Platform Size (in/cm)	11 × 14 / 28 × 35.6		
Dimensions (W×H×D) (in/cm)	14 × 5.3 × 16.4 / 35.5 × 13.3 × 40.6		
Price w/ AutoCal	\$4,021	\$4,297	\$4,509
Price w/o AutoCal	\$3,703	\$4,021	\$4,233



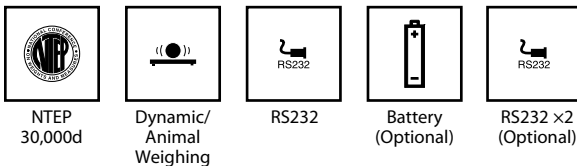
RD3RM Model

RANGER™ HIGH RESOLUTION COMPACT BENCH SCALES

- ✓ 1:300,000 maximum displayed resolution
- ✓ lb, oz, kg or g units
- ✓ Dynamic Weighing software included
- ✓ Backlit LCD display
- ✓ Stainless steel platform with cast aluminum housing
- ✓ RS232 interface included, 2nd RS232 optional
- ✓ AC power or optional internal NiMH rechargeable battery (add \$420 to List Price and /1 to Model #)



RD15LM or RD35LM Model



Model		RD3RM	RD6RM	RD15LM	RD35LM
Capacity × Readability	Default	6.61388 × 0.00002 lb 105.8228 × 0.0002 oz 3 × 0.00001 kg 3,000 × 0.01g	13.22770 × 0.00005 lb 211.6440 × 0.0005 oz 6 × 0.00002 kg 6,000 × 0.02g	33.0694 × 0.0001 lb 529.110 × 0.002 oz 15 × 0.00005 kg 15,000 × 0.05g	77.1620 × 0.0002 lb 1234.592 × 0.002 oz 35 × 0.0001 kg 35,000 × 0.1g
	NTEP Certified	3 × 0.0001 kg 6 × 0.0002 lb	6 × 0.0002 kg 12 × 0.0005 lb	15 × 0.0005 kg 30 × 0.001 lb	30 × 0.001 kg 60 × 0.002 lb
Pan Size		6.4 × 6.4 in / 16.2 × 16.2 cm	9.5 × 8 in / 24 × 20 cm	14 × 9.5 in / 35 × 24 cm	
Construction		Painted cast aluminum housing and stainless steel pan			
List Price		\$2,212	\$1,921	\$2,640	\$3,231

NTEP Certificate of Conformance No. 07-026

DEFENDER™ 7000X XTREME BENCH SCALES

Available in Square or Rectangular Platforms

- ✓ 1:10,000 – 1:12,500 maximum displayed resolution for “Q” models
1:6,000 – 1:7,500 maximum displayed resolution for “H” models
- ✓ kg, g, lb, oz, lb:oz (decimal), metric tonnes and user-definable custom unit
- ✓ Stainless steel indicator and pan, painted column and base
- ✓ Large dual line backlit LCD display with alphanumeric keypad for data entry
- ✓ Counting, Percent Weighing, Dynamic/Animal Weighing, Checkweighing, Totalization, Display Hold and 255 item library function included
- ✓ Internal universal switching AC power supply with hardwired line cord— optional NiMH internal rechargeable power pack available (\$125, Model 80500729)
- ✓ Optional interfaces include DC relay control kit, AC relay control kit, 2nd RS232 and RS485/422 (see page 26 for pricing)



NEMA 4X/IP66 w/'W' base



NTEP 3,000 or 5,000d



Measurement Canada 3,000 or 5,000d



Parts Counting



Percent Weighing



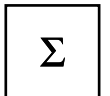
Dynamic/Animal Weighing



Checkweighing



Display Hold



Totalization



GMP/GLP



External Analog Base Input



RS232



RS485/RS422 (Optional)



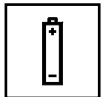
RS232 x2 (Optional)



AC Relay (Optional)



DC Relay (Optional)



Rechargeable Battery (Optional)



DEFENDER™ 7000XW XTREME SQUARE WASHDOWN BENCH SCALES

Model		D71XW10WR3	D71XW25WR3	D71XW50WL4	D71XW100WL4	D71XW250WX4
Capacity × Readability	Default	25 × 0.002 lb 400 × 0.05 oz 25 lb × 0.05 oz 10 × 0.001 kg	50 × 0.005 lb 800 × 0.1 oz 50 lb × 0.1 oz 25 × 0.002 kg	100 × 0.01 lb 1,600 × 0.2 oz 100 lb × 0.2 oz 50 × 0.005 kg	250 × 0.02 lb 4,000 × 0.5 oz 250 lb × 0.5 oz 100 × 0.01 kg	500 × 0.05 lb 8,000 × 1 oz 500 lb × 1 oz 250 × 0.02 kg
	Certified / Approved	25 × 0.005 lb 10 × 0.002 kg 400 × 0.1 oz	50 × 0.01 lb 25 × 0.005 kg 800 × 0.2 oz	100 × 0.02 lb 50 × 0.01 kg 1,600 × 0.5 oz	250 × 0.05 lb 100 × 0.02 kg 4,000 × 1 oz	500 × 0.1 lb 250 × 0.05 kg 8,000 × 2 oz
Scale Base Size		12 × 12 × 3.8 in / 30 × 30 × 9.5 cm		18 × 18 × 4.5 in / 45 × 45 × 11.5 cm		24 × 24 × 5.4 in / 61 × 61 × 13.7 cm
Column		13.8 in / 35 cm stainless steel			26.8 in / 68 cm stainless steel	
Construction		Stainless steel indicator, weighing pan, loadcell, column and base construction				
List Price		\$1,712	\$1,712	\$2,092	\$2,092	\$2,740

Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 09-102 and 01-048AL, Measurement Canada Notices of Approval AM-5762 and AM-5719

DEFENDER™ 7000X XTREME RECTANGULAR BENCH SCALES

Model		D71XW15HR1	D71XW30HR1	D71XW60HR1	D71XW60HL2	D71XW100HL2	D71XW150HX2	D71XW300HX2
Capacity × Readability	Default	30 × 0.005 lb 480 × 0.1 oz 30 lb × 0.1 oz 15 × 0.002 kg	60 × 0.01 lb 960 × 0.2 oz 60 lb × 0.2 oz 30 × 0.005 kg	150 × 0.02 lb 2,400 × 0.5 oz 150 lb × 0.5 oz 60 × 0.01 kg	250 × 0.05 lb 4,000 × 1 oz 250 lb × 1 oz 100 × 0.02 kg	300 × 0.05 lb 4,800 × 1 oz 300 lb × 1 oz 150 × 0.02 kg	600 × 0.1 lb 9,600 × 2 oz 600 lb × 2 oz 300 × 0.05 kg	
	Certified / Approved	30 × 0.01 lb 480 × 0.2 oz 15 × 0.005 kg	60 × 0.02 lb 960 × 0.5 oz 30 × 0.01 kg	150 × 0.05 lb 2,400 × 1 oz 60 × 0.02 kg	250 × 0.1 lb 4,000 × 2 oz 100 × 0.05 kg	300 × 0.1 lb 4,800 × 2 oz 150 × 0.05 kg	600 × 0.2 lb 9,600 × 5 oz 300 × 0.1 kg	
Scale Base Size		12 × 14 × 3.7 in / 30.5 × 35.5 × 9.5 cm			15.7 × 19.7 × 4.1 in / 40 × 50 × 10.5 cm		16.5 × 21.7 × 4.9 in / 42 × 55 × 10.5 cm	
Column		13.8 in / 35 cm painted steel			26.8 in / 68 cm painted steel			
Construction		Stainless steel indicator and weighing pan, aluminum loadcell, painted steel column and base construction						
List Price		\$1,354	\$1,354	\$1,354	\$1,520	\$1,520	\$1,584	\$1,723

Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 09-102 and 99-203A3, Measurement Canada Notices of Approval AM-5762 and AM-5675



DEFENDER™ 7000 BENCH SCALES

Available in Square or Rectangular Platforms

- ✓ 1:10,000 – 1:12,500 maximum displayed resolution for “Q” models
1: 6,000 – 1:7,500 maximum displayed resolution for “H” models
- ✓ kg, g, lb, oz, lb:oz (decimal), metric tonnes and user-definable custom unit
- ✓ ABS plastic indicator, stainless steel pan, painted steel base and column
- ✓ Large dual line backlit LCD display with alphanumeric keypad for data entry
- ✓ Counting, Percent Weighing, Dynamic/Animal Weighing, Checkweighing, Totalization, Display Hold and 255 item library function included
- ✓ Internal universal switching AC power supply with line cord or power using 6 “C” cell batteries (not included)—optional NiMH internal rechargeable power pack available (\$125, Model 80500729)
- ✓ Optional interfaces include DC relay control kit, AC relay control kit, 2nd RS232 and RS422/485 (see page 26 for pricing)

NTEP 3,000 or 5,000d	Measurement Canada 3,000 or 5,000d	Parts Counting	Percent Weighing	Dynamic/Animal Weighing	Checkweighing	Display Hold	Totalization
GMP/GLP	External Analog Base Input	RS232	RS485/422 (Optional)	RS232 x2 (Optional)	AC Relay (Optional)	DC Relay (Optional)	Battery Power (Rechargeable Battery Option)

DEFENDER™ 7000 SQUARE BENCH SCALES

Model	D71P10QR1	D71P25QR1	D71P50QL2	D71P100QL2	D71P250QX2	
Capacity × Readability	Default	25 × 0.002 lb 400 × 0.05 oz 25 lb × 0.05 oz 10 × 0.001 kg	50 × 0.005 lb 800 × 0.1 oz 50 lb × 0.1 oz 25 × 0.002 kg	100 × 0.01 lb 1,600 × 0.2 oz 100 lb × 0.2 oz 50 × 0.005 kg	250 × 0.02 lb 4,000 × 0.5 oz 250 lb × 0.5 oz 100 × 0.01 kg	500 × 0.05 lb 8,000 × 1 oz 500 lb × 1 oz 250 × 0.02 kg
	Certified / Approved	25 × 0.005 lb 400 × 0.1 oz 10 × 0.002 kg	50 × 0.01 lb 800 × 0.2 oz 25 × 0.005 kg	100 × 0.02 lb 1,600 × 0.5 oz 50 × 0.01 kg	250 × 0.05 lb 4,000 × 1 oz 100 × 0.02 kg	500 × 0.10 lb 8,000 × 2 oz 250 × 0.05 kg
Scale Base Size	12 × 12 × 3.8 in / 30 × 30 × 9.5 cm		18 × 18 × 4.5 in / 45 × 45 × 11.5 cm		24 × 24 × 5.4 in / 61 × 61 × 13.7 cm	
Column	13.8 in / 35 cm painted steel			26.8 in / 68 cm painted steel		
Construction	ABS plastic indicator, stainless steel weighing pan and aluminum loadcell, painted steel column and base construction					
List Price	\$1,145	\$1,145	\$1,274	\$1,274	\$1,830	

Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 09-102 and 01-048AL, Measurement Canada Notices of Approval AM-5762 and AM-5719

DEFENDER™ 7000 RECTANGULAR BENCH SCALES

Model	D71P15HR1	D71P30HR1	D71P60HR1	D71P60HL2	D71P100HL2	D71P150HX2	D71P300HX2
Capacity × Readability	Default	30 × 0.005 lb 480 × 0.1 oz 30 lb × 0.1 oz 15 × 0.002 kg	60 × 0.01 lb 960 × 0.2 oz 60 lb × 0.2 oz 30 × 0.005 kg	150 × 0.02 lb 2,400 × 0.5 oz 150 lb × 0.5 oz 60 × 0.01 kg	250 × 0.05 lb 4,000 × 1 oz 250 lb × 1 oz 100 × 0.02 kg	300 × 0.05 lb 4,800 × 1 oz 300 lb × 1 oz 150 × 0.02 kg	600 × 0.1 lb 9,600 × 2 oz 600 lb × 2 oz 300 × 0.05 kg
	Certified / Approved	30 × 0.01 lb 480 × 0.2 oz 15 × 0.005 kg	60 × 0.02 lb 960 × 0.5 oz 30 × 0.01 kg	150 × 0.05 lb 2,400 × 1 oz 60 × 0.02 kg	250 × 0.1 lb 4,000 × 2 oz 100 × 0.05 kg	300 × 0.1 lb 4,800 × 2 oz 150 × 0.05 kg	600 × 0.2 lb 9,600 × 5 oz 300 × 0.1 kg
Scale Base Size	12 × 14 × 3.7 in / 30.5 × 35.5 × 9.5 cm			15.7 × 19.7 × 4.1 in / 40 × 50 × 10.5 cm	16.5 × 21.7 × 4.9 in / 42 × 55 × 10.5 cm		
Column	13.8 in / 35 cm painted steel			26.8 in / 68 cm painted steel			
Construction	ABS plastic indicator, stainless steel weighing pan and aluminum loadcell, painted steel column and base construction						
List Price	\$1,049	\$1,049	\$1,049	\$1,215	\$1,215	\$1,279	\$1,424

Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 09-102 and 99-203A3, Measurement Canada Notices of Approval AM-5762 and AM-5675



Square Base



Rectangular Base

DEFENDER™ 7000 LOW PROFILE SCALES

Available in Square or Rectangular Platforms

- ✓ 1:10,000 – 1:12,500 maximum displayed resolution for “Q” models
1:6,000 – 1:7,500 maximum displayed resolution for “H” models
- ✓ kg, g, lb, oz, lb:oz (decimal), metric tonnes and user-definable custom unit
- ✓ ABS plastic indicator, stainless steel pan, painted steel base and mounting bracket
- ✓ Large dual line backlit LCD display with alphanumeric keypad for data entry
- ✓ Counting, Percent Weighing, Dynamic/Animal Weighing, Checkweighing, Totalization, Display Hold and 255 item library function included
- ✓ Internal universal switching AC power supply with line cord or power using 6 “C” cell batteries (not included)—optional NiMH internal rechargeable power pack available (\$125, Model 80500729)
- ✓ Includes external analog scale base input for two scale counting and weighing
- ✓ Optional interfaces include DC relay control kit, AC relay control kit, 2nd RS232 and RS422/485 (see page 26 for pricing)

NTEP 3,000 or 5,000d	Measurement Canada 3,000 or 5,000d	Parts Counting	Percent Weighing	Dynamic/Animal Weighing	Checkweighing	Display Hold	Totalization
GMP/GLP	External Analog Base Input	RS232	RS485/422 (Optional)	RS232 x2 (Optional)	AC Relay (Optional)	DC Relay (Optional)	Battery Power (Rechargeable Battery Option)

DEFENDER™ 7000 LOW PROFILE SQUARE BENCH SCALES

Model		D71P10QR5	D71P25QR5	D71P50QL5	D71P100QL5	D71P250QX5
Capacity x Readability	Default	25 x 0.002 lb 400 x 0.05 oz 25 lb x 0.05 oz 10 x 0.001 kg	50 x 0.005 lb 800 x 0.1 oz 50 lb x 0.1 oz 25 x 0.002 kg	100 x 0.01 lb 1,600 x 0.2 oz 100 lb x 0.2 oz 50 x 0.005 kg	250 x 0.02 lb 4,000 x 0.5 oz 250 lb x 0.5 oz 100 x 0.01 kg	500 x 0.05 lb 8,000 x 1 oz 500 lb x 1 oz 250 x 0.02 kg
	Certified / Approved	25 x 0.005 lb 10 x 0.002 kg 400 x 0.1 oz	50 x 0.01 lb 25 x 0.005 kg 800 x 0.2 oz	100 x 0.02 lb 50 x 0.01 kg 1,600 x 0.5 oz	250 x 0.05 lb 100 x 0.02 kg 4,000 x 1 oz	500 x 0.10 lb 250 x 0.05 kg 8,000 x 2 oz
Scale Base Size		12 x 12 x 3.8 in / 30 x 30 x 9.5 cm		18 x 18 x 4.5 in / 45 x 45 x 11.5 cm		24 x 24 x 5.4 in / 61 x 61 x 13.7 cm
Construction		ABS plastic indicator, stainless steel weighing pan and aluminum loadcell, painted steel mounting bracket and base construction				
List Price		\$1,145	\$1,145	\$1,274	\$1,274	\$1,830

Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 09-102 and 01-048AL, Measurement Canada Notices of Approval AM-5762 and AM-5719

DEFENDER™ 7000 LOW PROFILE RECTANGULAR BENCH SCALES

Model		D71P15HR5	D71P30HR5	D71P60HR5	D71P60HL5	D71P100HL5	D71P150HX5	D71P300HX5
Capacity x Readability	Default	30 x 0.005 lb 480 x 0.1 oz 30 lb x 0.1 oz 15 x 0.002 kg	60 x 0.01 lb 960 x 0.2 oz 60 lb x 0.2 oz 30 x 0.005 kg	150 x 0.02 lb 2,400 x 0.5 oz 150 lb x 0.5 oz 60 x 0.01 kg	150 x 0.05 lb 2,400 x 1 oz 60 x 0.01 kg	250 x 0.05 lb 4,000 x 1 oz 250 lb x 1 oz 100 x 0.02 kg	300 x 0.05 lb 4,800 x 1 oz 300 lb x 1 oz 150 x 0.02 kg	600 x 0.1 lb 9,600 x 2 oz 600 lb x 2 oz 300 x 0.05 kg
	Certified / Approved	30 x 0.01 lb 480 x 0.2 oz 15 x 0.005 kg	60 x 0.02 lb 960 x 0.5 oz 30 x 0.01 kg	150 x 0.05 lb 2,400 x 1 oz 60 x 0.02 kg	150 x 0.05 lb 2,400 x 1 oz 60 x 0.02 kg	250 x 0.1 lb 4,000 x 2 oz 100 x 0.05 kg	300 x 0.1 lb 4,800 x 2 oz 150 x 0.05 kg	600 x 0.2 lb 9,600 x 5 oz 300 x 0.1 kg
Scale Base Size		12 x 14 x 3.7 in / 30.5 x 35.5 x 9.5 cm		15.7 x 19.7 x 4.1 in / 40 x 50 x 10.5 cm		16.5 x 21.7 x 4.9 in / 42 x 55 x 10.5 cm		
Construction		ABS plastic indicator, stainless steel weighing pan and aluminum loadcell, painted steel mounting bracket and base construction						
List Price		\$1,049	\$1,049	\$1,049	\$1,215	\$1,215	\$1,279	\$1,424

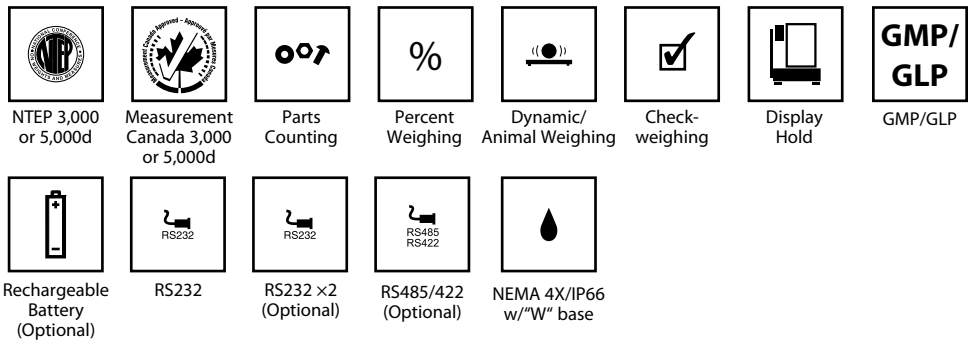
Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 09-102 and 99-203A3, Measurement Canada Notices of Approval AM-5762 and AM-5675



DEFENDER™ 5000X XTREME BENCH SCALES

Available in Square or Rectangular Platforms

- ✓ 1:10,000 – 1:12,500 maximum displayed resolution for “Q” models
1:6,000 – 1:7,500 maximum displayed resolution for “H” models
- ✓ kg, g, lb, oz, lb:oz (decimal), metric tonnes and user-definable custom unit
- ✓ All steel construction, with stainless steel indicator and pan, painted column and base
- ✓ Large backlit LCD display
- ✓ Counting, Percent Weighing, Dynamic/Animal Weighing, Checkweighing, and Display Hold software included
- ✓ Internal universal switching AC power supply with hardwired line cord—optional NiMH internal rechargeable power pack available (\$125, Model 80500729)
- ✓ Optional interfaces include DC relay control kit, AC relay control kit, 2nd RS232 and RS485/422 (see page 27 for pricing)



DEFENDER™ 5000XW XTREME SQUARE WASHDOWN BENCH SCALES

Model		D51XW10WR3	D51XW25WR3	D51XW50WL4	D51XW100WL4	D51XW250WX4
Capacity × Readability	Default	25 × 0.002 lb 400 × 0.05 oz 25 lb × 0.05 oz 10 × 0.001 kg	50 × 0.005 lb 800 × 0.1 oz 50 lb × 0.1 oz 25 × 0.002 kg	100 × 0.01 lb 1,600 × 0.2 oz 100 lb × 0.2 oz 50 × 0.005 kg	250 × 0.02 lb 4,000 × 0.5 oz 250 lb × 0.5 oz 100 × 0.01 kg	500 × 0.05 lb 8,000 × 1 oz 500 lb × 1 oz 250 × 0.02 kg
	Certified / Approved	25 × 0.005 lb 10 × 0.002 kg 400 × 0.1 oz	50 × 0.01 lb 25 × 0.005 kg 800 × 0.2 oz	100 × 0.02 lb 50 × 0.01 kg 1,600 × 0.5 oz	250 × 0.05 lb 100 × 0.02 kg 4,000 × 1 oz	500 × 0.1 lb 250 × 0.05 kg 8,000 × 2 oz
Scale Base Size		12 × 12 × 3.8 in / 30 × 30 × 9.5 cm		18 × 18 × 4.5 in / 45 × 45 × 11.5 cm		24 × 24 × 5.4 in / 61 × 61 × 13.7 cm
Column		13.8 in / 35 cm stainless steel			26.8 in / 68 cm stainless steel	
Construction		Stainless steel indicator, weighing pan, loadcell, column and base construction				
List Price		\$1,569	\$1,569	\$1,965	\$1,965	\$2,629

Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 08-039 and 01-048A1, Measurement Canada Notices of Approval AM-5687 and AM-5719

DEFENDER™ 5000X XTREME RECTANGULAR BENCH SCALES

Model		D51XW15HR1	D51XW30HR1	D51XW60HR1	D51XW60HL2	D51XW100HL2	D51XW150HX2	D51XW300HX2
Capacity × Readability	Default	30 × 0.005 lb 480 × 0.1 oz 30 lb × 0.1 oz 15 × 0.002 kg	60 × 0.01 lb 960 × 0.2 oz 60 lb × 0.2 oz 30 × 0.005 kg	150 × 0.02 lb 2,400 × 0.5 oz 150 lb × 0.5 oz 60 × 0.01 kg	250 × 0.05 lb 4,000 × 1 oz 250 lb × 1 oz 100 × 0.02 kg	300 × 0.05 lb 4,800 × 1 oz 300 lb × 1 oz 150 × 0.02 kg	600 × 0.1 lb 9,600 × 2 oz 600 lb × 2 oz 300 × 0.05 kg	
	Certified / Approved	30 × 0.01 lb 480 × 0.2 oz 15 × 0.005 kg	60 × 0.02 lb 960 × 0.5 oz 30 × 0.01 kg	150 × 0.05 lb 2,400 × 1 oz 60 × 0.02 kg	250 × 0.1 lb 4,000 × 2 oz 100 × 0.05 kg	300 × 0.1 lb 4,800 × 2 oz 150 × 0.05 kg	600 × 0.2 lb 9,600 × 5 oz 300 × 0.1 kg	
Scale Base Size		12 × 14 × 3.7 in / 30.5 × 35.5 × 9.5 cm			15.7 × 19.7 × 4.1 in / 40 × 50 × 10.5 cm	16.5 × 21.7 × 4.9 in / 42 × 55 × 10.5 cm		
Column		13.8 in / 35 cm painted steel			26.8 in / 68 cm painted steel			
Construction		Stainless steel indicator and weighing pan, aluminum loadcell, painted steel column and base construction						
List Price		\$1,171	\$1,171	\$1,171	\$1,340	\$1,340	\$1,404	\$1,548

Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 08-039 and 99-203A3, Measurement Canada Notices of Approval AM 5687 and AM-5675



DEFENDER™ 5000 BENCH SCALES

Available in Square or Rectangular Platforms

- ✓ 1:10,000 – 1:12,500 maximum displayed resolution for “Q” models
1: 6,000 – 1:7,500 maximum displayed resolution for “H” models
- ✓ kg, g, lb, oz, lb:oz (decimal), metric tonnes and user-definable custom unit
- ✓ ABS plastic indicator, stainless steel pan, painted steel base and column
- ✓ Large backlit LCD display
- ✓ Counting, Percent Weighing, Dynamic/Animal Weighing, Checkweighing, and Display Hold software included
- ✓ Internal universal switching AC power supply with line cord or power using 6 “C” cell batteries (not included)—optional NiMH internal rechargeable power pack available (\$125, Model 80500729)
- ✓ Optional interfaces: DC relay control kit, AC relay control kit, 2nd RS232 and RS422/485 (see page 27 for pricing)

NTEP 3,000 or 5,000d	Measurement Canada 3,000 or 5,000d	Parts Counting	Percent Weighing	Dynamic/Animal Weighing	Checkweighing	Display Hold	GMP/GLP
RS232	RS232 x2 (Optional)	RS485/422 (Optional)	AC Relay (Optional)	DC Relay (Optional)	Battery Power	Rechargeable Battery (Optional)	

DEFENDER™ 5000 SQUARE BENCH SCALES

Model	D51P10QR1	D51P25QR1	D51P50QL2	D51P100QL2	D51P250QX2	
Capacity × Readability	Default	25 × 0.002 lb 400 × 0.05 oz 25 lb × 0.05 oz 10 × 0.001 kg	50b × 0.005 lb 800 × 0.1 oz 50 lb × 0.1 oz 25 × 0.002 kg	100 × 0.01 lb 1,600 × 0.2 oz 100 lb × 0.2 oz 50 × 0.005 kg	250 × 0.02 lb 4,000 × 0.5 oz 250 lb × 0.5 oz 100 × 0.01 kg	500 × 0.05 lb 8,000 × 1 oz 500 lb × 1 oz 250 × 0.02 kg
	Certified / Approved	25 × 0.005 lb 10 × 0.002 kg 400 × 0.1 oz	50 × 0.01 lb 25 × 0.005 kg 800 × 0.2 oz	100 × 0.02 lb 50 × 0.01 kg 1,600 × 0.5 oz	250 × 0.05 lb 100 × 0.02 kg 4,000 × 1 oz	500 × 0.10 lb 250 × 0.05 kg 8,000 × 2 oz
Scale Base Size	12 × 12 × 3.8 in / 30 × 30 × 9.5 cm		18 × 18 × 4.5 in / 45 × 45 × 11.5 cm		24 × 24 × 5.4 in / 61 × 61 × 13.7 cm	
Column	13.8 in / 35 cm painted steel		26.8 in / 68 cm painted steel			
Construction	ABS plastic indicator, stainless steel weighing pan and aluminum loadcell, painted steel column and base construction					
List Price	\$1,006	\$1,006	\$1,140	\$1,140	\$1,695	

Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 08-039 and 01-048A1, Measurement Canada Notices of Approval AM 5687 and AM-5719

DEFENDER™ 5000 RECTANGULAR BENCH SCALES

Model	D51P15HR1	D51P30HR1	D51P60HR1	D51P60HL2	D51P100HL2	D51P150HX2	D51P300HX2
Capacity × Readability	Default	30 × 0.005 lb 480 × 0.1 oz 30 lb × 0.1 oz 15 × 0.002 kg	60 × 0.01 lb 960 × 0.2 oz 60 lb × 0.2 oz 30 × 0.005 kg	150 × 0.02 lb 2,400 × 0.5 oz 150 lb × 0.5 oz 60 × 0.01 kg	250 × 0.05 lb 4,000 × 1 oz 250 lb × 1 oz 100 × 0.02 kg	300 × 0.05 lb 4,800 × 1 oz 300 lb × 1 oz 150 × 0.02 kg	600 × 0.1 lb 9,600 × 2 oz 600 lb × 2 oz 300 × 0.05 kg
	Certified / Approved	30 × 0.01 lb 480 × 0.2 oz 15 × 0.005 kg	60 × 0.02 lb 960 × 0.5 oz 30 × 0.01 kg	150 × 0.05 lb 2,400 × 1 oz 60 × 0.02 kg	250 × 0.1 lb 4,000 × 2 oz 100 × 0.05 kg	300 × 0.1 lb 4,800 × 2 oz 150 × 0.05 kg	600 × 0.2 lb 9,600 × 5 oz 300 × 0.1 kg
Scale Base Size	12 × 14 × 3.7 in / 30.5 × 35.5 × 9.5 cm			15.7 × 19.7 × 4.1 in / 40 × 50 × 10.5 cm		16.5 × 21.7 × 4.9 in / 42 × 55 × 10.5 cm	
Column	13.8 in / 35 cm painted steel			26.8 in / 68 cm painted steel			
Construction	ABS plastic indicator, stainless steel weighing pan and aluminum loadcell, painted steel column and base construction						
List Price	\$931	\$931	\$931	\$1,106	\$1,106	\$1,172	\$1,318

Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 08-039 and 99-203A3, Measurement Canada Notices of Approval AM 5687 and AM-5675

DEFENDER™ 5000 LOW PROFILE SCALES

Available in Square or Rectangular Platforms



Square Base



Rectangular Base

- ✓ 1:10,000 – 1:12,500 maximum displayed resolution for “Q” models
1:6,000 – 1:7,500 maximum displayed resolution for “H” models
- ✓ kg, g, lb, oz, lb:oz (decimal), metric tonnes and user-definable custom unit
- ✓ ABS plastic indicator, stainless steel pan, painted steel base and mounting bracket
- ✓ Large backlit LCD display
- ✓ Counting, Percent Weighing, Dynamic/Animal Weighing, Checkweighing, and Display Hold software included
- ✓ Internal universal switching AC power supply with line cord or power using 6 “C” cell batteries (not included)—optional NiMH internal rechargeable power pack available (\$125, Model 80500729)
- ✓ Optional interfaces include DC relay control kit, AC relay control kit, 2nd RS232 and RS422/485 (see page 27 for pricing)

NTEP 3,000 or 5,000d	Measurement Canada 3,000 or 5,000d	Parts Counting	Percent Weighing	Dynamic/Animal Weighing	Checkweighing	Display Hold	GMP/GLP
RS232	RS232 x2 (Optional)	RS485/422 (Optional)	AC Relay (Optional)	DC Relay (Optional)	Rechargeable Battery (Optional)		

DEFENDER™ 5000 SQUARE BENCH SCALES

Model		D51P10QR5	D51P25QR5	D51P50QL5	D51P100QL5	D51P250QX5
Capacity × Readability	Default	25 × 0.002 lb 400 × 0.05 oz 25 lb × 0.05 oz 10 × 0.001 kg	50 × 0.005 lb 800 × 0.1 oz 50 lb × 0.1 oz 25 × 0.002 kg	100 × 0.01 lb 1,600 × 0.2 oz 100 lb × 0.2 oz 50 × 0.005 kg	250 × 0.02 lb 4,000 × 0.5 oz 250 lb × 0.5 oz 100 × 0.01 kg	500 × 0.05 lb 8,000 × 1 oz 500 lb × 1 oz 250 × 0.02 kg
	Certified / Approved	25 × 0.005 lb 10 × 0.002 kg 400 × 0.1 oz	50 × 0.01 lb 25 × 0.005 kg 800 × 0.2 oz	100 × 0.02 lb 50 × 0.01 kg 1,600 × 0.5 oz	250 × 0.05 lb 100 × 0.02 kg 4,000 × 1 oz	500 × 0.10 lb 250 × 0.05 kg 8,000 × 2 oz
Scale Base Size		12 × 12 × 3.8 in / 30 × 30 × 9.5 cm		18 × 18 × 4.5 in / 45 × 45 × 11.5 cm		24 × 24 × 5.4 in / 61 × 61 × 13.7 cm
Construction		ABS plastic indicator, stainless steel weighing pan and aluminum loadcell, painted steel mounting bracket and base construction				
List Price		\$1,006	\$1,006	\$1,140	\$1,140	\$1,695

Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 08-039 and 01-048A1, Measurement Canada Notices of Approval AM 5687 and AM-5719

DEFENDER™ 5000 RECTANGULAR BENCH SCALES

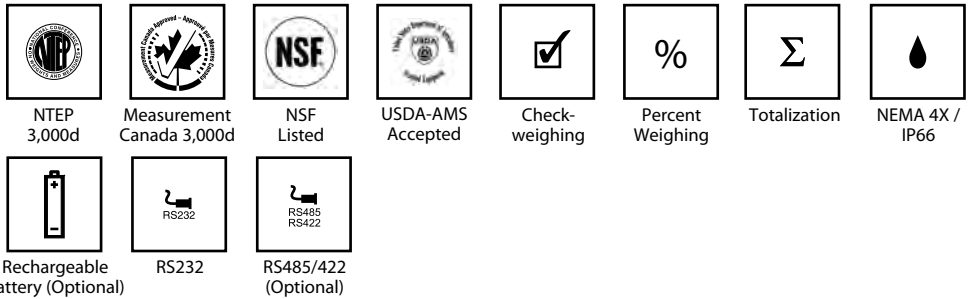
Model		D51P15HR5	D51P30HR5	D51P60HR5	D51P60HL5	D51P100HL5	D51P150HX5	D51P300HX5
Capacity × Readability	Default	30 × 0.005 lb 480 × 0.1 oz 30 lb × 0.1 oz 15 × 0.002 kg	60 × 0.01 lb 960 × 0.2 oz 60 lb × 0.2 oz 30 × 0.005 kg	150 × 0.02 lb 2,400 × 0.5 oz 150 lb × 0.5 oz 60 × 0.01 kg	250 × 0.05 lb 4,000 × 1 oz 250 lb × 1 oz 100 × 0.02 kg	300 × 0.05 lb 4,800 × 1 oz 300 lb × 1 oz 150 × 0.02 kg	600 × 0.1 lb 9,600 × 2 oz 600 lb × 2 oz 300 × 0.05 kg	
	Certified / Approved	30 × 0.01 lb 480 × 0.2 oz 15 × 0.005 kg	60 × 0.02 lb 960 × 0.5 oz 30 × 0.01 kg	150 × 0.05 lb 2,400 × 1 oz 60 × 0.02 kg	250 × 0.1 lb 4,000 × 2 oz 100 × 0.05 kg	300 × 0.1 lb 4,800 × 2 oz 150 × 0.05 kg	600 × 0.2 lb 9,600 × 5 oz 300 × 0.1 kg	
Scale Base Size		12 × 14 × 3.7 in / 30.5 × 35.5 × 9.5 cm			15.7 × 19.7 × 4.1 in / 40 × 50 × 10.5 cm		16.5 × 21.7 × 4.9 in / 42 × 55 × 10.5 cm	
Construction		ABS plastic indicator, stainless steel weighing pan and aluminum loadcell, painted steel mounting bracket and base construction						
List Price		\$931	\$931	\$931	\$1,106	\$1,106	\$1,172	\$1,318

Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 08-039 and 99-203A3, Measurement Canada Notices of Approval AM 5687 and AM-5675



CHAMP™ CKW CHECKWEIGHING SCALES

- ✓ All stainless steel construction with NEMA 4X/IP66 washdown protection
- ✓ NSF Listed/Certified, USDA/AMS accepted, supports HACCP-Certified systems
- ✓ lb, oz, combined lb:oz display, kg, g, % of target
- ✓ Quick operation with fully configurable bright LED weight display
- ✓ Fully programmable red/yellow/green LED checkweighing display
- ✓ 20-item library for Over, Under, Target, and Tare values
- ✓ Internal AC power supply or optional NiMH internal rechargeable battery (\$240, Model 71167966)



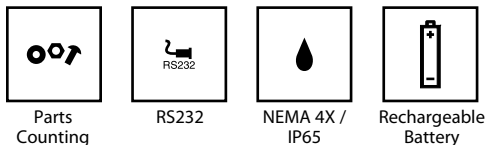
Model	CKW3R55	CKW6R55	CKW15L55	CKW30L55	
Capacity × Readability	Default	6 × 0.001 lb 96 × 0.02 oz 6 lb × 0.02 oz 3 × 0.0005 kg	15 × 0.002 lb 240 × 0.05 oz 16 lb × 0.05 oz 6 × 0.001 kg	30 × 0.005 lb 480 × 0.1 oz 30 lb × 0.1 oz 15 × 0.002 kg	60 × 0.01 lb 960 × 0.2 oz 60 lb × 0.2 oz 30 × 0.005 kg
	Certified / Approved	6 × 0.002 lb 96 × 0.05 oz 3 × 0.001 kg	15 × 0.005 lb 240 × 0.1 oz 6 × 0.002 kg	30 × 0.01 lb 480 × 0.2 oz 15 × 0.005 kg	60 × 0.02 lb 960 × 0.5 oz 30 × 0.01 kg
Scale Base Size	10 × 10 × 2.3 in / 254 × 254 × 57.5 mm		12 × 12 × 2.3 in / 305 × 305 × 57.5 mm	12 × 12 × 2.7 in / 305 × 305 × 69.5 mm	
Column	11.8 in / 29.97 cm stainless steel				
Construction	All stainless steel indicator, base, weighing pan, loadcell, and column				
List Price	\$1,645	\$1,645	\$1,921	\$1,921	

Made from Certified/Approved weighing components - NTEP Certificate of Conformance 06-030 for bases, 06-038 for indicator; Measurement Canada Notice of Approval AM-5422 on Base, AM-5340 Rev. 1 on indicator. NSF Listed/Certified to NSF/ANSI 169-2005 Special Purpose Food Equipment and Devices (formerly NSF C-2); USDA/AMS Accepted to NSF/3-A 14159-1 Hygiene Requirements for the Design of Meat and Poultry Processing Equipment; meets requirements for HACCP conformity.



DEFENDER™ 3000XW XTREME WASHDOWN SCALES

- ✓ NEMA 4X / IP65 washdown protection
- ✓ 1:6,000 – 1:7,500 maximum displayed resolution
- ✓ Stainless-steel indicator, column, pan and base
- ✓ lb, oz, lb:oz (decimal), kg, and g
- ✓ Backlit LCD display
- ✓ Parts Counting software included
- ✓ Internal AC power supply or 58-hour internal rechargeable battery (included)



Model	D32XW30VR	D32XW60VR	D32XW60VL	D32XW150VL	D32XW150VX	D32XW300VX
Capacity × Readability	66 × 0.02 lb 1,056 × 0.2 oz 66 lb × 0.2 oz 30 × 0.005 kg	132 × 0.05 lb 2,112 × 0.5 oz 160 lb × 0.5 oz 60 × 0.01 kg	132 × 0.05 lb 2,112 × 0.5 oz 160 lb × 0.5 oz 60 × 0.01 kg	330 × 0.05 lb 5,280 × 1 oz 300 lb × 1 oz 150 × 0.02 kg	330 × 0.05 lb 5,280 × 1 oz 300 lb × 1 oz 150 × 0.02 kg	660 × 0.2 lb 10,576 × 2 oz 660 lb × 2 oz 300 × 0.05 kg
	Column	13.8 in / 350 mm stainless steel		27.6 in / 700 mm stainless steel		
Construction	All-stainless steel indicator, removable weighing platform, loadcell, column and base construction					
Scale Base Size	12 × 14 × 4.8 in / 305 × 355 × 123 mm		16.5 × 21.6 × 5.4 in / 420 × 550 × 136 mm		19.7 × 25.6 × 5.8 in / 500 × 650 × 147 mm	
List Price	\$1,054	\$1,054	\$1,472	\$1,472	\$2,007	\$2,007



DEFENDER™ 3000 BENCH SCALES

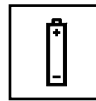
- ✓ 1:6,000-1:7,500 maximum displayed resolution
- ✓ Stainless steel pan with painted carbon steel frame and column, ABS indicator
- ✓ Backlit LCD display
- ✓ lb, oz, lb:oz, kg, g
- ✓ Parts Counting software included
- ✓ AC power adapter or 100-hour internal rechargeable lead acid battery (included)



Parts Counting



RS232



Rechargeable Battery

Model	D31P30BR	D31P60BR	D31P60BL	D31P150BL	D31P150BX	D31P300BX
Capacity × Readability	66 × 0.02 lb 1056 × 0.2 oz 66 lb × 0.2 oz 30 × 0.005 kg	132 × 0.05 lb 2,112 × 0.5 oz 160 lb × 0.5 oz 60 × 0.01 kg	132 × 0.05 lb 2,112 × 0.5 oz 160 lb × 0.5 oz 60 × 0.01 kg	330 × 0.05 lb 5,280 × 1 oz 300 lb × 1 oz 150 × 0.02 kg	330 × 0.05 lb 5,280 × 1 oz 300 lb × 1 oz 150 × 0.02 kg	660 × 0.2 lb 10,576 × 2 oz 660 lb × 2 oz 300 × 0.05 kg
Column	13.8 in / 350 mm stainless steel		27.6 in / 700 mm stainless steel			
Scale Base Size	12 × 14 × 4.8 in / 305 × 355 × 123 mm		16.5 × 21.6 × 5.4 in / 420 × 550 × 136 mm		19.7 × 25.6 × 5.8 in / 500 × 650 × 147 mm	
Construction	ABS indicator, stainless steel weighing pan, aluminum loadcell, painted steel frame and column					
Price	\$577	\$577	\$706	\$706	\$748	\$748



DEFENDER™ 3000 WHEELED BENCH SCALES

- ✓ 1:6,000-1:7,500 maximum displayed resolution
- ✓ Stainless steel pan with painted carbon steel frame and column, ABS indicator
- ✓ Backlit LCD display
- ✓ lb, oz, lb:oz, kg, g
- ✓ Polyurethane wheels with quick-lock mechanism
- ✓ Parts Counting software included
- ✓ AC power adapter or 100-hour internal rechargeable lead acid battery (included)



NTEP 3,000d



Measurement Canada 3,000d



Parts Counting



RS232



Rechargeable Battery

Model	D31P250TX	D31P500TX
Capacity × Readability (default: cal unit lb)	500 × 0.1 lb / 227 × 0.05 kg	1,000 × 0.2 lb / 454 × 0.1 kg
Capacity × Readability (cal unit kg)	250 × 0.05 kg / 551 × 0.2 lb	500 × 0.1 kg / 1,102 × 0.5 lb
Certified / Approved Resolution	500 × 0.2 lb 250 × 0.1 kg	1,000 × 0.5 lb 500 × 0.2 kg
Column	40.5 in / 1,030 mm stainless steel	
Pan Dimensions (W × D)	20 × 28 in / 508 × 710 mm	
Construction	ABS indicator, stainless steel weighing pan, aluminum loadcell, painted steel frame and column, polyurethane wheels	
Price	\$1,786	\$1,786

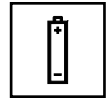
Made from Certified/Approved weighing components • NTEP Certificate of conformance No. 09-056 for base, 08-066A1 for indicator, Measurement Canada Notice of Approval AM-5723 for bases, AM-5713C Rev.1 for indicator



3-way mounting bracket

ES ECONOMICAL BENCH SCALES

- ✓ 1:2,000–1:3,000 maximum displayed resolution
- ✓ kg, lb, oz or lb:oz*
- ✓ AC power adapter or 6 “AA” cell battery power
- ✓ Stainless steel platform/painted steel frame
- ✓ Three-way mounting bracket included



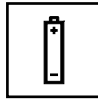
Battery Power

Model	ES6R	ES30R	ES50R	ES50L	ES100L	ES200L
Capacity × Readability	13,225 × 0.005 lb 6 × 0.002 kg 211.6 × 0.1 oz 13 lb 3 oz × 1 oz	66.1 × 0.05 lb 30 × 0.01 kg 1,058 × 0.5 oz 66 lb 2 oz × 1 oz	110.2 × 0.05 lb 50 × 0.02 kg 1,763 × 1.0 oz 110 lb 3 oz × 1 oz	110.2 × 0.05 lb 50 × 0.02 kg 1,763 × 1.0 oz 110 lb 3 oz × 1 oz	220.4 × 0.1 lb 100 × 0.05 kg 3,526 × 2.0 oz 220 lb 6 oz × 2 oz	440.8 × 0.2 lb 200 × 0.1 kg 7,050 × 5.0 oz n/a
Typical Battery Life	Up to 120 hours / 30 hours of continuous use					
Weighing Units	kg, lb, oz,					kg, lb, oz
Scale Base Size	12.2 × 10.8 × 1.5 in / 31 × 27 × 4 cm			20.5 × 15.7 × 3 in / 52 × 40 × 7.5 cm		
Indicator Stand	4 in / 10 cm					
Construction	ABS indicator, stainless steel pan and painted steel frame					
List Price	\$584	\$584	\$584	\$625	\$625	\$625

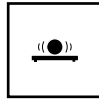
*lb:oz unit not available in ES200L model.

SD SHIPPING SCALES

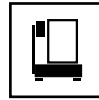
- ✓ 1:1,650-1:2,200 maximum displayed resolution
- ✓ Painted steel platform with painted steel platform and ABS plastic indicator
- ✓ lb or kg units with modes for Dynamic Weighing and Display Hold
- ✓ AC power adapter (included) or 4 “C” cell battery power (not included)
- ✓ Universal table/wall mounting brackets included



Battery Power



Dynamic/Animal Weighing



Display Hold

Model	SD35	SD75	SD200	SD75L	SD200L
Capacity × Readability	77 × 0.05 lb 35 × 0.02 kg	165 × 0.1 lb 75 × 0.05 kg	440 × 0.2 lb 200 × 0.1 kg	165 × 0.1 lb 75 × 0.05 kg	440 × 0.2 lb 200 × 0.1 kg
Battery Life	360 Hours				
Scale Base Size	12.4 × 11 × 1.7 in / 31.6 × 28 × 4.5 cm			20.5 × 15.7 × 3 in / 52 × 40 × 7.5 cm	
Construction	ABS indicator, painted steel platform				
List Price	\$177	\$188	\$220	\$305	\$338

CATAPULT 1000 COMPACT SHIPPING SCALES

- ✓ 1:1,500-1:2,200 maximum displayed resolution
- ✓ ABS Plastic construction—Stainless steel pan cover optional
- ✓ lb or kg units with modes for Dynamic Weighing and Display Hold
- ✓ AC power adapter (included) or 4 “C” cell battery power (not included)
- ✓ Integrated handles for easy transport



Battery Power



Dynamic/Animal Weighing



Display Hold

Model	C11P9	C11P20	C11P75
Capacity × Readability	20 × 0.01 lb 9 × 0.005 kg	44 × 0.02 lb 20 × 0.01 kg	165 × 0.1 lb 75 × 0.05 kg
Pan Size	12.4 × 11 in / 316 × 280 mm		
Construction	ABS plastic housing and weighing pan		
List Price	\$177	\$177	\$198

SD shipping scale “L” model

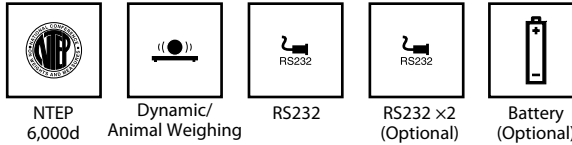
Optional Stainless steel pan, \$27 Model 80251248 (scale not included)

Compact Bench



RANGER™ COMPACT BENCH SCALES

- ✓ 1:30,000 maximum displayed resolution
- ✓ lb, oz, kg or g units
- ✓ Includes Dynamic Weighing software
- ✓ Backlit LCD display
- ✓ Stainless steel platform with cast aluminum housing
- ✓ RS232 interface included, 2nd RS232 optional
- ✓ AC power or optional internal NiMH rechargeable battery



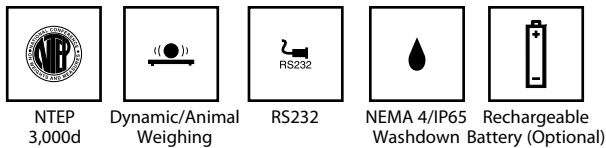
Model		RD3RS	RD6RS	RD12LS	RD30LS	RD60LS
Capacity × Readability	Default	6.6138 × 0.0002 lb 105.822 × 0.002 oz 3 × 0.0001 kg 3,000 × 0.1 g	13.2275 × 0.0005 lb 211.640 × 0.005 oz 6 × 0.0002 kg 6,000 × 0.2 g	26.456 × 0.001 lb 423.30 × 0.02 oz 12 × 0.0005 kg 12,000 × 0.5 g	66.138 × 0.002 lb 1,058.20 × 0.02 oz 30 × 0.001 kg 30,000 × 1 g	132.275 × 0.005 lb 2116.50 × 0.05 oz 60 × 0.002 kg 60,000 × 2 g
	NTEP Certified	6 × 0.001 lb 3 × 0.0005 kg 3,000 × 0.5 g	12 × 0.002 lb 6 × 0.001 kg 6,000 × 1 g	24 × 0.005 lb 12 × 0.002 kg 12,000 × 2 g	60 × 0.01 lb 30 × 0.005 kg 30,000 × 5 g	120 × 0.02 lb 60 × 0.01 kg 60,000 × 10 g
Pan Size		9.5 × 8 in / 24 × 20 cm			14 × 9.5 in / 35 × 24 cm	
Construction		Painted cast aluminum housing and stainless steel pan				
List Price		\$931	\$931	\$1,075	\$1,225	\$1,225
List Price with NiMH rechargeable battery add /1 to Model#		\$1,351	\$1,351	\$1,495	\$1,645	\$1,645

NTEP Certificate of Conformance No. 07-026



RANGER™ COMPACT WASHDOWN BENCH SCALES

- ✓ NEMA 4/IP65 washdown protection
- ✓ 1:30,000 max. displayed resolution
- ✓ Stainless steel pan, painted cast aluminum housing
- ✓ lb, oz, g, kg or t
- ✓ Includes Dynamic Weighing software
- ✓ Backlit LCD display
- ✓ RS232 output included 2nd RS232 factory option
- ✓ AC power or optional internal NiMH rechargeable battery



Model		RD3RSW	RD6RSW	RD12LSW	RD30LSW	RD60LSW
Capacity × Readability	Default	6.6138 × 0.0002 lb 105.822 × 0.002 oz 3 × 0.0001 kg 3,000 × 0.1 g	13.2275 × 0.0005 lb 211.640 × 0.005 oz 6 × 0.0002 kg 6,000 × 0.2 g	26.456 × 0.001 lb 423.30 × 0.02 oz 12 × 0.0005 kg 12,000 × 0.5 g	66.138 × 0.002 lb 1,058.20 × 0.02 oz 30 × 0.001 kg 30,000 × 1 g	132.275 × 0.005 lb 2116.50 × 0.05 oz 60 × 0.002 kg 60,000 × 2 g
	NTEP Certified	6 × 0.001 lb 3 × 0.0005 kg 3,000 × 0.5 g	12 × 0.002 lb 6 × 0.001 kg 6,000 × 1 g	24 × 0.005 lb 12 × 0.002 kg 12,000 × 2 g	60 × 0.01 lb 30 × 0.005 kg 30,000 × 5 g	120 × 0.02 lb 60 × 0.01 kg 60,000 × 10 g
Pan Size		9.5 × 8 in / 24 × 20 cm			14 × 9.5 in / 35 × 24 cm	
Construction		Painted cast aluminum housing, stainless steel pan				
List Price		\$1,600	\$1,600	\$1,755	\$1,755	\$1,755
List Price with NiMH rechargeable battery add /1 to Model#		\$2,000	\$2,000	\$2,155	\$2,155	\$2,155

NTEP Certificate of Conformance No. 07-026.

Compact Bench



TROOPER® COMPACT BENCH SCALES

- ✓ 1:6,000-1:7,500 maximum displayed resolution
- ✓ lb, oz, kg or g units
- ✓ ABS housing with stainless steel platform
- ✓ Backlit LCD display
- ✓ AC power adapter (included) or 6 "C" cell battery power (not included)



NTEP
3,000d



Measurement
Canada 3,000d



Battery
Power



RS232

Model		TR3RS	TR6RS	TR15RS	TR30RS
Capacity × Readability	Default	6 × 0.001 lb 96 × 0.016 oz 3 × 0.0005 kg 3,000 × 0.5 g	15 × 0.002 lb 240 × 0.032 oz 6 kg × 0.001 kg 6,000 × 1 g	30 lb × 0.005 lb 480 × 0.08 oz 15 kg × 0.002 kg 15,000 × 2 g	60 lb × 0.01 lb 960 × 0.16 oz 30 kg × 0.005 kg 30,000 × 5 g
	Certified / Approved	6 × 0.002 lb 96 × 0.032 oz 3 × 0.001 kg 3,000 × 1 g	15 × 0.005 lb 240 × 0.08 oz 6 × 0.002 kg 6,000 × 2 g	30 × 0.01 lb 480 × 0.16 oz 15 × 0.005 kg 15,000 × 5 g	60 × 0.02 lb 960 × 0.32 oz 30 × 0.01 kg 30,000 × 10 g
Typical Battery Life		Up to 100 Hours			
Pan Size		13.5 in × 9 in / 34 cm × 23 cm			
Construction		ABS housing, stainless steel platform			
List Price		\$578	\$578	\$613	\$760

NTEP Certificate of Conformance No. 02-009A3, Measurement Canada Notice of Approval AM-5449

Compact Bench



FD SERIES COMPACT BENCH SCALES

- ✓ NSF Listed/Certified, USDA/AMS Accepted, supports HACCP-Certified Systems
- ✓ 1:6,000-1:7,500 or 1:30,000 maximum displayed resolution (by model)
- ✓ All stainless steel construction, dishwasher safe removable pan
- ✓ Backlit LCD display with checkweighing LEDs
- ✓ lb, oz (¼ fractional or decimal oz), lb:oz, g or kg
- ✓ AC power adapter or 120 hour internal rechargeable battery (included)
- ✓ Percentage Weighing and Checkweighing software



NTEP 3,000d
(non-H models)



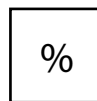
Measurement
Canada
3,000d
(non-H models)



NSF
Listed



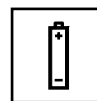
USDA-AMS
Accepted



Percent
Weighing



Check-
weighing



Rechargeable
Battery



Optional
Foot Tare Switch for hands-free scale use, \$101
(Model 71169633)

Model	FD3H	FD6H	FD15H
Capacity × Readability	6 × 0.0002 lb 96 × 0.005 oz 96 × ¼ oz 6 lb × 0.1 oz or ¼ oz 3 × 0.0001 kg 3,000 × 0.1 g	15 × 0.001 lb 240 × 0.01 oz 240 × ¼ oz 15 lb × 0.1 oz or ¼ oz 6 × 0.0002 kg 6,000 × 0.2 g	30 × 0.001 lb 480 × 0.02 oz 480 × ¼ oz 30 lb × 0.1 oz or ¼ oz 15 × 0.001 kg 15,000 × 1 g
Pan Size	8.2 × 8.2 in / 209 × 209 mm		
Construction	All stainless steel		
List Price	\$588	\$588	\$588



Optional Carrying Case, \$70
(Model 80251394)

LEGAL FOR TRADE MODELS

Model		FD3	FD6	FD15
Capacity × Readability	Default	6 × 0.001 lb 96 × 0.02 or ¼ oz 6 lb × 0.1 or ¼ oz 3 × 0.0005 kg 3,000 × 0.5 g	15 × 0.002 lb 240 × 0.05 or ¼ oz 15 lb × 0.1 or ¼ oz 6 × 0.001 kg 6,000 × 1 g	30 × 0.005 lb 480 × 0.1 or ¼ oz 30 lb × 0.1 or ¼ oz 15 × 0.002 kg 15,000 × 2 g
	Certified / Approved	6 × 0.002 lb 96 × 0.05 or ¼ oz 3,000 × 1 g	15 × 0.005 lb 240 × 0.1 or ¼ oz 6,000 × 2 g	30 × 0.01 lb 480 × 0.2 or ¼ oz 15,000 × 5 g
Pan Size		8.2 × 8.2 in / 209 × 209 mm		
Construction		All stainless steel		
List Price		\$534	\$534	\$534

NTEP Certificate of Conformance No. 05-072, Measurement Canada Approval No. AM-5582
NSF Listed/Certified to NSF/ANSI 169-2005 Special Purpose Food Equipment and Devices (formerly NSF C-2); USDA/AMS Accepted to NSF/3-A 14159-1 Hygiene Requirements for the Design of Meat and Poultry Processing Equipment; meets requirements for HACCP conformity.

Compact Bench



VALOR™ 5000 COMPACT BENCH SCALES

- ✓ NSF Listed/Certified, USDA-AMS Accepted, supports HACCP systems
- ✓ 1:6,000-1:7,500 or 1:30,000 maximum displayed resolution (by model)
- ✓ ABS housing, dishwasher safe removable stainless steel pan
- ✓ Backlit LCD display with checkweighing LEDs
- ✓ lb, oz (¼ fractional or decimal oz), lb:oz, g or kg
- ✓ AC power adapter or 120 hour internal rechargeable battery (included)
- ✓ Percentage Weighing and Checkweighing software



NTEP 3,000d
(non-H models)



Measurement
Canada
3,000d
(non-H models)



NSF
Listed



USDA-AMS
Accepted



Percent
Weighing



Check-
weighing



Rechargeable
Battery



Optional
Foot Tare Switch for hands-free scale use, \$101
(Model 71169633)



Optional Carrying Case, \$70
(Model 80251394)

Model	V51PH3	V51PH6	V51PH15	V51PH30
Capacity × Readability	6 × 0.0002 lb 96 × 0.005 oz 96 × ¼ oz 6 lb × 0.1 oz 6 lb × ¼ oz 3 × 0.0001 kg 3,000 × 0.1 g	15 × 0.001 lb 240 × 0.01 oz 240 × ¼ oz 15 lb × 0.1 oz 15 lb × ¼ oz 6 × 0.0002 kg 6,000 × 0.2 g	30 × 0.001 lb 480 × 0.02 oz 480 × ¼ oz 30 lb × 0.1 oz 30 lb × ¼ oz 15 × 0.001 kg 15,000 × 1 g	60 × 0.002 lb 960 oz × 0.05 oz 960 × ¼ oz 60 lb × 0.1 oz 60 lb × ¼ oz 30 × 0.001 kg 30,000 × 1 g
Weighing Units	lb, decimal ounce, ¾, ½, ¼ fractional ounce, g, kg, combined display (decimal or fractional ounces)			
Construction	ABS housing, stainless steel weighing pan			
Pan Size	8.2 × 8.2 in / 209 × 209 mm			
List Price	\$450	\$450	\$450	\$450

NSF Listed/Certified to NSF/ANSI 169-2005 Special Purpose Food Equipment and Devices (formerly NSF C-2); USDA/AMS Accepted to NSF/3-A 14159-1 Hygiene Requirements for the Design of Meat and Poultry Processing Equipment; meets requirements for HACCP conformity.

LEGAL FOR TRADE MODELS

Model		V51P3	V51P6	V51P15	V51P30
Capacity × Readability	Default	6 × 0.001 lb 96 × 0.02 oz 96 × ¼ oz 6 lb × 0.1 oz 6 lb × ¼ oz 3 × 0.0005 kg 3,000 × 0.5 g	15 × 0.002 lb 240 × 0.05 oz 240 × ¼ oz 15 lb × 0.1 oz 15 lb × ¼ oz 6 × 0.001 kg 6,000 × 1 g	30 × 0.005 lb 480 × 0.1 oz 480 × ¼ oz 30 lb × 0.1 oz 30 lb × ¼ oz 15 × 0.002 kg 15,000 × 2 g	60 × 0.01 lb 960 oz × 0.2 oz 960 × ¼ oz 60 lb × 0.2 oz 60 lb × ¼ oz 30 × 0.005 kg 30,000 × 5 g
	Certified / Approved	6 × 0.002 lb 96 × 0.05 oz 3 × 0.001 kg	15 × 0.005 lb 240 × 0.1 oz 6 × 0.002 kg	30 × 0.01 lb 480 × 0.2 oz 15 × 0.005 kg	60 × 0.02 lb 960 oz × 0.5 oz 30 × 0.01 kg
Weighing Units		lb, decimal ounce, ¾, ½, ¼ fractional ounce, g, kg, combined display (decimal or fractional ounces)			
Construction		ABS housing, stainless steel weighing pan			
Pan Size		8.2 × 8.2 in / 209 × 209 mm			
List Price		\$402	\$402	\$402	\$402

NTEP Certificate of Conformance No. 08-065, Measurement Canada Approval No. AM-5729

Compact Bench



SEE PAGE 19 FOR
HIGHER RESOLUTION MODELS

VALOR™ 3000 XTREME PORTABLE SCALES

- ✓ NSF Listed/Certified, USDA-AMS Accepted, supports HACCP-Certified systems
- ✓ 1:3,000-1:6,000 displayed resolution (by model)
- ✓ Stainless steel construction, dishwasher-safe removable pan
- ✓ Backlit LCD display
- ✓ lb, oz (1/8 fractional or decimal oz), lb:oz, g, kg or fluid oz of water
- ✓ Specific Gravity Determination and % Weighing software included
- ✓ AC power adapter (included) or 4 "C" cell battery power (not included)



NTEP 3,000d
(N Models)



NSF
Listed



USDA-AMS
Accepted



%
Percent
Weighing



SPG
Specific
Gravity Mode



Battery
Power



NEMA 4X/IP65
XW Models only

Model	V31XW301	V31X3	V31XW3	V31X3N	V31X6	V31XW6	V31X6N	
Capacity × Readability	0.6615 × 0.0005 lb 10.585 × 0.005 oz 10 1/2 × 1/8 oz — 0.3 × 0.0001 kg 300 × 0.1 g 10.140 × 0.005 fl oz	6.615 × 0.005 lb 105.8 × 0.05 oz 105 1/2 × 1/8 oz 6 lb : 9.80 oz × 0.05 oz 6 lb : 9 1/2 oz × 1/8 oz 3 × 0.001 kg 3,000 × 1 g 101.45 × 0.05 fl oz	6.615 × 0.002 lb 105.80 × 0.02 oz 105 1/2 × 1/8 oz 6 lb : 9.80 oz × 0.02 oz 6 lb : 9 1/2 oz × 1/8 oz 3 × 0.0005 kg 3,000 × 0.5 g 101.44 × 0.02 fl oz	6.615 × 0.002 lb 105.8 × 0.02 oz 105 1/2 × 1/8 oz 6 lb : 9.80 oz × 0.02 oz 6 lb : 9 1/2 oz × 1/8 oz 3 × 0.0005 kg 3,000 × 0.5 g 101.44 × 0.02 fl oz	6.615 × 0.002 lb 105.8 × 0.02 oz 105 1/2 × 1/8 oz 6 lb : 9.80 oz × 0.02 oz 6 lb : 9 1/2 oz × 1/8 oz 3 × 0.0005 kg 3,000 × 0.5 g 101.44 × 0.02 fl oz	13.225 × 0.005 lb 211.65 × 0.05 oz 211 1/2 × 1/8 oz 13 lb: 3.65 oz × 0.05 oz 13 lb : 3 1/2 oz × 1/8 oz 6 × 0.001 kg 6,000 × 1 g 202.90 × 0.05 fl oz	13.225 × 0.005 lb 211.60 × 0.05 oz 211 1/2 × 1/8 oz 13 lb: 3.60 oz × 0.05 oz 13 lb : 3 1/2 oz × 1/8 oz 6 × 0.001 kg 6,000 × 1 g 202.90 × 0.05 fl oz	13.225 × 0.005 lb 211.65 × 0.05 oz 211 1/2 × 1/8 oz 13 lb : 3.65 oz × 0.05 oz 13 lb : 3 1/2 oz × 1/8 oz 6 × 0.001 kg 6,000 × 1 g 202.90 × 0.05 fl oz
NTEP Certified Capacity × Readability	Not NTEP Certified	Not NTEP Certified	6.6 × 0.005 lb 105.80 × 0.05 oz 3 × 0.001 kg 3,000 × 1 g	6.6 × 0.005 lb 105.8 × 0.05 oz 3 × 0.001 kg 3,000 × 1 g	Not NTEP Certified	13.2 × 0.005 lb 211.6 × 0.1 oz 6 × 0.002 kg 6,000 × 2 g	13.2 × 0.005 lb 211.6 × 0.1 oz 6 × 0.002 kg 6,000 × 2 g	
Battery Life	50 hours minimum	120 hours minimum	50 hours minimum	120 hours minimum	120 hours minimum	50 hours minimum	120 hours minimum	
Pan Size	5.8 × 6.2 in / 14.6 × 15.8 cm							
Protection	Washdown	Dry Use	Washdown	Dry Use	Dry Use	Washdown	Dry Use	
List Price	\$437	\$370	\$437	\$431	\$370	\$437	\$431	

NTEP Certificate of Conformance No. 08-008, NSF Listed/Certified to NSF/ANSI 169-2005 Special Purpose Food Equipment and Devices (formerly NSF C-2); USDA/AMS Accepted to NSF/3-A 14159-1 Hygiene Requirements for the Design of Meat and Poultry Processing Equipment; meets requirements for HACCP conformity.



Carrying Case
(scale not included)



Ice Cream
Holder



French Fries/
Taco Holder

Compact Bench

VALOR™ 3000 XTREME PORTABLE SCALES

- ✓ NSF Listed/Certified, USDA-AMS Accepted, supports HACCP-Certified systems
- ✓ Stainless steel construction, dishwasher-safe removable pan
- ✓ Backlit LCD display
- ✓ lb, oz (1/8 fractional or decimal oz), lb:oz, g, kg or fluid oz of water
- ✓ Specific Gravity Determination and % Weighing software included
- ✓ AC power adapter (included) or 4 "C" cell battery power (not included)



NSF
Listed



USDA-AMS
Accepted



Percent
Weighing



Specific
Gravity Mode



Battery
Power

**HIGH
RESOLUTION
MODELS!**

Model	V31XH202	V31XH402	V31X501	V31XH2	V31XH4
Capacity × Readability	0.4409 × 0.00005 lb 7.055 × 0.0005 oz 7 × 1/8 oz — — 0.2 × 0.00001 kg 200 × 0.01 g 6.7630 × 0.0005 fl oz	0.88185 × 0.00005 lb 14.1095 × 0.0005 oz 14 1/8 × 1/8 oz — — 0.40000 × 0.00001 kg 400 × 0.01 g 13.5255 × 0.0005 fl oz	1.1025 × 0.0005 lb 17.635 × 0.005 oz 17 5/8 × 1/8 oz 1 lb : 1.64 oz × 0.01 oz 1 lb : 1 5/8 oz × 1/8 oz 0.5000 × 0.0001 kg 500 × 0.1 g 16.905 × 0.005 fl oz	4.409 × 0.0005 lb 70.55 × 0.005 oz 70 1/2 × 1/8 oz 4 lb : 6.55 oz × 0.01 oz 4 lb : 6 1/2 oz × 1/8 oz 2 × 0.0001 kg 2,000 × 0.1 g 67.630 × 0.005 fl oz	8.81850 × 0.0005 lb 141.095 × 0.005 oz 141 1/8 × 1/8 oz 8 lb : 13.10 oz × 0.01 oz 8 lb : 13 1/8 oz × 1/8 oz 4.0000 × 0.0001 kg 4,000 × 0.1 g 135.255 × 0.005 fl oz
Typical Battery Life	50 hours minimum	120 hours minimum	50 hours minimum		
Pan Size	5.8 × 6.2 in / 14.6 × 15.8 cm	4.72 in / 12 cm dia	4.72 in / 12 cm dia	5.8 × 6.2 in / 14.6 × 15.8 cm	
List Price	\$530	\$686	\$407	\$530	\$728

NSF Listed/Certified to NSF/ANSI 169-2005 Special Purpose Food Equipment and Devices (formerly NSF C-2); USDA/AMS Accepted to NSF/3-A 14159-1 Hygiene Requirements for the Design of Meat and Poultry Processing Equipment; meets requirements for HACCP conformity.

Sandwich Pan



VALOR 3000 CARRYING CASE AND STAINLESS STEEL ACCESSORY TRAYS

Model	Description	Dimensions	List Price
80251147	Sandwich Pan	11 × 5.9 in	\$44
80251148	French Fries / Taco Holder	6.3 × 3.5 in	\$44
80251149	Ice Cream Cone Holder	6.3 × 4.7 in	\$44
80251216	Carrying Case	16.6 × 12.6 × 5.5 in	\$70

Accessory trays installed on Valor 3000—scale not included. Trays only recommended for Valor 3000 scales with capacities 2 lb or over.

Compact Bench



BW WASHDOWN SCALES

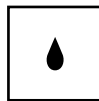
- ✓ NEMA 4 / IP65 Washdown Protection
- ✓ 1:6,000 or 1:7,500 maximum displayed resolution
- ✓ ABS housing, dishwasher-safe removable stainless steel pan
- ✓ Models with single or dual LED displays available
- ✓ lb, oz, or g units with checkweighing mode
- ✓ AC power adapter or 50 hour internal rechargeable battery (included)



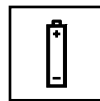
NTEP 3,000d
(lb unit only)



Checkweighing



NEMA 4/IP65
Washdown



Rechargeable
Battery



Measurement
Canada
3,000d

**NOW MEASUREMENT
CANADA APPROVED!**

Single Display Model	BW1.5US	BW3US	BW6US	BW15US
Dual Display Model	BW1.5TUS	BW3TUS	BW6TUS	BW15TUS
Capacity × Readability Certified / Approved	3 × 0.001 lb* 50 × 0.02 oz 1,500 × 0.5 g	6 × 0.002 lb* 100 × 0.05 oz 3,000 × 1 g	15 × 0.005 lb* 200 × 0.1 oz 6,000 × 2 g	30 × 0.01 lb* 500 × 0.2 oz 15,000 × 5 g
Pan Size	9 × 7 in / 230 × 180 mm			
Construction	ABS housing with stainless steel pan			
List Price (Single Display)	\$354	\$354	\$354	\$354
List Price (Dual Display)	\$423	\$423	\$423	\$423

NTEP Certificate of Conformance No. 08-059, Measurement Canada Notice of Approval AM-5706 • *lb unit only available for NTEP certification



VALOR™ 2000 WASHDOWN SCALES

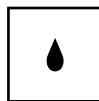
- ✓ NEMA 4 / IP65 Washdown Protection
- ✓ 1:6,000 or 1:7,500 maximum displayed resolution
- ✓ NSF Listed/Certified, USDA-AMS Accepted, supports HACCP systems
- ✓ lb, oz, g or kg units
- ✓ ABS housing, dishwasher-safe removable stainless steel pan
- ✓ Dual LED displays (front & back of housing)
- ✓ AC power adapter or 40 hour internal rechargeable battery (included)



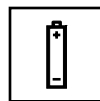
NSF
Listed



USDA-AMS
Accepted



NEMA 4/IP65
Washdown



Rechargeable
Battery

Model	V21PW3	V21PW6	V21PW15
Capacity × Readability	6 × 0.001 lb 96 × 0.02 oz 3 × 0.0005 kg 3,000 × 0.5 g	15 × 0.002 lb 240 × 0.05 oz 6 × 0.001 kg 6,000 × 1 g	30 × 0.005 lb 480 × 0.1 oz 15 × 0.002 kg 15,000 × 2 g
Pan Size	9.2 × 7.2 in / 23.3 × 18.4 cm		
Construction	ABS housing and stainless steel pan		
List Price	\$364	\$364	\$364

NSF Listed/Certified to NSF/ANSI 169-2005 Special Purpose Food Equipment and Devices (formerly NSF C-2); USDA/AMS Accepted to NSF/3-A 14159-1 Hygiene Requirements for the Design of Meat and Poultry Processing Equipment; meets requirements for HACCP conformity.

Compact Bench

VALOR™ 1000 SCALES

- ✓ ABS housing, removable stainless steel pan
- ✓ 1:6,000-1:7,500 maximum displayed resolution
- ✓ NSF Listed/Certified, supports HACCP systems
- ✓ lb, oz, g or kg units
- ✓ Single or dual backlit LCD display
- ✓ Checkweighing and Accumulation software included
- ✓ AC power adapter or 80 hour internal rechargeable battery (included)



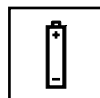
NSF
Listed



Check-
weighing



Totalization



Rechargeable
Battery

Single Display Model	V11P3	V11P6	V11P15	V11P30
Dual Display Model	V11P3T	V11P6T	V11P15T	V11P30T
Capacity × Readability	6.6 × 0.001 lb 105 × 0.02 oz 3 × 0.0005 kg 3,000 × 0.5 g	13 × 0.002 lb 210 × 0.05 oz 6 × 0.001 kg 6,000 × 1 g	33 × 0.005 lb 520 × 0.1 oz 15 × 0.002 kg 15,000 × 2 g	66 × 0.01 lb 1,058 × 0.5 oz 30 × 0.005 kg 30,000 × 5 g
Pan Size	9.9 × 7.1 in / 250 × 180 mm			
Construction	ABS housing and stainless steel pan			
List Price (Single Display)	\$198	\$198	\$198	\$198
List Price (Dual Display)	\$220	\$220	\$220	\$220

NSF Listed/Certified to NSF/ANSI 169-2005 Special Purpose Food Equipment and Devices (formerly NSF C-2).

Retail Price Computing



LCD Display Tower Model
(Model RE15CUS)

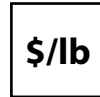


RE STANDARD RETAIL PRICE COMPUTING SCALES

- ✓ ABS housing, removable stainless steel pan
- ✓ lb weighing unit
- ✓ 100 PLU memories for storing price/weight information and 24 preset PLU keys
- ✓ ½ or ¼ lb fractional pricing mode
- ✓ By count pricing mode
- ✓ Prepack pricing mode
- ✓ Dual backlit LCD displays (front and back of scale)
- ✓ Model with backlit LCD display tower available (RE15CUS)*
- ✓ AC power adapter (included) or 6 "D" cell battery power



NTEP
3,000d



Price
Computing



Totalization



Battery
Power

Model	RE15US	RE15CUS*	RE30US
Capacity × Readability NTEP Certified	30 × 0.01 lb	30 × 0.01 lb	60 × 0.02 lb
Typical Battery Life	Up to 60 Hours		
Pan Size	9.5 × 13.5 in		
Construction	ABS housing, stainless steel weighing pan		
List Price	\$493	\$556	\$493

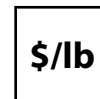
*Model with LCD display tower • NTEP Certificate of Conformance No. 08-057

RA ECONOMICAL RETAIL PRICE COMPUTING SCALES

- ✓ ABS housing, removable stainless steel pan
- ✓ lb weighing unit
- ✓ 24 PLU memories for storing price/weight information
- ✓ By count pricing mode
- ✓ Dual backlit LCD displays (front and back of scale)
- ✓ AC power adapter (included) or 6 "D" cell battery power



NTEP
3,000d



Price
Computing



Totalization



Battery
Power

Model	RA6US	RA15US
Capacity × Readability NTEP Certified	15 × 0.005 lb	30 × 0.01 lb
Typical Battery Life	Up to 60 Hours	
Pan Size	7.9 × 11.4 in	
Construction	ABS housing, stainless steel weighing pan	
List Price	\$394	\$394

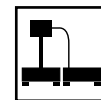
NTEP Certificate of Conformance No. 08-058



RANGER™ COUNT PLUS DEDICATED COUNTING SCALES

1:300,000 Maximum External Counting Resolution

- ✓ Stainless steel platform and painted cast aluminum housing
- ✓ APW Enhancement and Auto Add sample weight software
- ✓ lb, oz, kg or g units
- ✓ 100 memories for APW and parts information
- ✓ RS232 interface included, optional 2nd RS232 interface
- ✓ AC power or optional internal NiMH rechargeable battery
- ✓ Optional analog scale base input



External Base Input (Optional)



NTEP 30,000d



Checkweighing



Parts Counting



Dynamic/Animal Weighing



Totalization



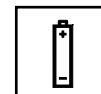
GMP/GLP



RS232



RS232 x2 (Optional)



Rechargeable Battery (Optional)

Model		RP3RM	RP6RM	RP15LM	RP35LM
Capacity x Readability	Default	6.61388 x 0.00002 lb 105.8228 x 0.0002 oz 3 x 0.00001 kg 3,000 x 0.01g	13.22770 x 0.00005 lb 211.6440 x 0.0005 oz 6 x 0.00002 kg 6,000 x 0.02g	33.0694 x 0.0001 lb 529.110 x 0.002 oz 15 x 0.00005 kg 15,000 x 0.05g	77.1620 x 0.0002 lb 1,234.592 x 0.002 oz 35 x 0.0001 kg 35,000 x 0.1g
	NTEP Certified (NTEP Certification not for Counting Function)	3 x 0.0001 kg 6 x 0.0002 lb	6 x 0.0002 kg 12 x 0.0005 lb	15 x 0.0005 kg 30 x 0.001 lb	30 x 0.001 kg 60 x 0.002 lb
Minimum APW		0.000005 lb 0.0001 oz 0.002 g	0.00001 lb 0.00005 oz 0.005 g	0.00005 lb 0.0002 oz 0.01 g	0.00002 lb 0.0002 oz 0.05 g
Pan Size		6.4 x 6.4 in / 16.2 x 16.2 cm	9.5 x 8 in / 24 x 20 cm	14 x 9.5 in / 35 x 24 cm	
Construction		Painted cast aluminum housing with stainless steel pan			
List Price		\$2,713	\$2,595	\$3,173	\$3,537
List Price with NiMH Rechargeable Battery add /1 to Model #		\$2,963	\$2,845	\$3,423	\$3,787
List Price with Analog Input Option add /4 to Model #		\$2,927	\$2,809	\$3,387	\$3,751
NiMH Battery and Analog Input Option add /5 to Model #		\$3,194	\$3,077	\$3,655	\$4,018

NTEP Certificate of Conformance No. 07-026



RANGER™ COUNT DEDICATED COUNTING SCALES

1:30,000 Maximum External Counting Resolution

- ✓ Stainless steel platform/painted cast aluminum housing
- ✓ APW Enhancement and Auto Add Sample Weight Dynamic Weighing software
- ✓ lb, oz, kg, g or t units
- ✓ RS232 interface included, optional 2nd RS232 interface
- ✓ AC power or optional internal NiMH rechargeable battery
- ✓ Optional analog scale base input



NTEP
6,000d



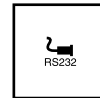
Parts
Counting



Dynamic/
Animal
Weighing



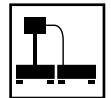
RS232



RS232 x2
(Optional)



Rechargeable
Battery
(Optional)



External
Base Input
(Optional)

Model		RC3RS	RC6RS	RC12LS	RC30LS	RC60LS
Capacity x Readability	Default	6.6138 × 0.0002 lb 105.822 × 0.002 oz 3 × 0.0001 kg 3,000 × 0.1 g 0.003 × 0.000001 t	13.2275 × 0.0005 lb 211.640 × 0.005 oz 6 × 0.0002 kg 6,000 × 0.2 g 0.006 × 0.000001 t	26.456 × 0.001 lb 423.30 × 0.02 oz 12 × 0.0005 kg 12,000 × 0.5 g 0.012 × 0.000001 t	66.138 × 0.002 lb 1,058.20 × 0.02 oz 30 × 0.001 kg 30,000 × 1 g 0.03 × 0.000001 t	132.275 × 0.005 lb 2116.50 × 0.05 oz 60 × 0.002 kg 60,000 × 2 g 0.06 × 0.000002 t
	NTEP Certified (NTEP Certification not for Counting Function)	6 × 0.001 lb 3 × 0.0005 kg 3,000.0 × 0.5 g	12 × 0.002 lb 6 × 0.001 kg 6,000 × 1 g	24 × 0.005 lb 12 × 0.002 kg 12,000 × 2 g	60 × 0.01 lb 30 × 0.005 kg 30,000 × 5 g	120 × 0.02 lb 60 × 0.01 kg 60,000 × 10 g
Minimum APW		0.00002 lb 0.0005 oz 0.01 g	0.00005 lb 0.001 oz 0.02 g	0.0001 lb 0.002 oz 0.05 g	0.0002 lb 0.005 oz 0.1 g	0.0005 lb 0.01 oz 0.2 g
Pan Size		9.5 × 8 in / 24 × 20 cm			14 × 9.5 in / 35 × 24 cm	
Construction		Painted cast aluminum housing with stainless steel pan				
List Price		\$1,092	\$1,092	\$1,226	\$1,306	\$1,306
List Price with Analog Input Option add /4 to Model #		\$1,306	\$1,306	\$1,440	\$1,520	\$1,520

NTEP Certificate of Conformance No. 07-026



TROOPER® COUNT DEDICATED COUNTING SCALES

Up To 1:100,000 Maximum External Counting Resolution

- ✓ ABS plastic housing and stainless steel platform
- ✓ lb, oz, kg or g units
- ✓ AC power adapter (included) or 6 "C" cell battery power (not included)
- ✓ Average Piece Weight and Sample Weight Optimization software
- ✓ 300 Memories for 60 Parts



NTEP
3,000d



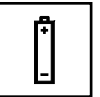
Parts
Counting



Check-
weighing



RS232



Battery
Power

Model		TC3RS	TC6RS	TC15RS	TC30RS
Capacity x Readability	Default	6 × 0.001 lb 96 × 0.02 oz 3 × 0.0005 kg 3,000 × 0.5 g	15 × 0.002 lb 240 × 0.05 oz 6 kg × 0.001 kg 6,000 × 1 g	30 lb × 0.005 lb 480 × 0.1 oz 15 kg × 0.002 kg 15,000 × 2 g	60 lb × 0.01 lb 960 × 0.2 oz 30 kg × 0.005 kg 30,000 × 5 g
	NTEP Certified (NTEP certification not for counting function)	6 × 0.002 lb 96 × 0.05 oz 3 × 0.001 kg 3,000 × 1 g	15 × 0.005 lb 240 × 0.1 oz 6 × 0.002 kg 6,000 × 2 g	30 × 0.01 lb 480 × 0.2 oz 15 × 0.005 kg 15,000 × 5 g	60 × 0.02 lb 960 × 0.5 oz 30 × 0.01 kg 30,000 × 10 g
Minimum APW		0.03 g	0.06 g	0.15 g	0.3 g
Pan Size		13.5 in × 9 in / 34 cm × 23 cm			
Construction		ABS housing with stainless steel pan			
List Price		\$813	\$813	\$930	\$1,069

NTEP Certificate of Conformance No. 05-072



EC DEDICATED COUNTING SCALES

Up To 1:30,000 Maximum External Counting Resolution

- ✓ ABS plastic housing and stainless steel platform
- ✓ APW Optimization software
- ✓ 10 memories for APW
- ✓ lb or kg units
- ✓ AC power adapter or battery power with 80-hour internal rechargeable battery (included)
- ✓ In-use cover included



Parts
Counting



Rechargeable
Battery

Model	EC3	EC6	EC15	EC30
Capacity × Readability	6 × 0.0002 lb 3,000 × 0.1 g	15 × 0.0005 lb 6,000 × 0.2 g	30 × 0.001 lb 15,000 × 0.5 g	60 × 0.002 lb 30,000 × 1 g
Minimum APW	0.01 g	0.02 g	0.05 g	0.1 g
Pan Size	11.8 × 9 in / 29.4 × 22.6 cm			
Construction	ABS housing with stainless steel pan			
List Price	\$562	\$562	\$562	\$562



EB MULTIFUNCTIONAL COMPACT BENCH SCALES

Up To 1:30,000 Maximum External Counting Resolution

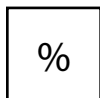
- ✓ ABS plastic housing and stainless steel platform
- ✓ Simple Parts Counting, Checkweighing, and % Weighing software included
- ✓ kg, g, lb or oz units
- ✓ AC power adapter or battery power with 80-hour internal, rechargeable battery (included)
- ✓ In-use cover included



Parts
Counting



Check-
weighing

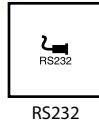
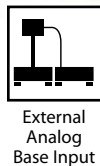


Percent
Weighing



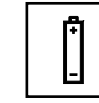
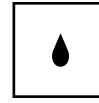
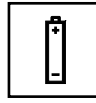
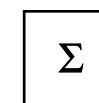
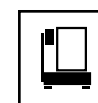
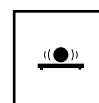
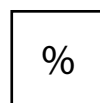
Rechargeable
Battery

Model	EB3	EB6	EB15	EB30
Capacity × Readability	6.6 × 0.0002 lb 105 × 0.005 oz 3 × 0.0001 kg 3,000 × 0.1 g	13 × 0.0005 lb 208 × 0.01 oz 6 × 0.0002 kg 6,000 × 0.2 g	33 × 0.001 lb 528 × 0.02 oz 15 × 0.0005 kg 15,000 × 0.5 g	66 × 0.002 lb 1,056 × 0.05 oz 30 × 0.001 kg 30,000 × 1 g
Minimum APW	0.01 g	0.02 g	0.05 g	0.1 g
Pan Size	11.6 × 8.9 in / 29.4 × 22.6 cm			
Construction	ABS housing with stainless steel pan			
List Price	\$509	\$509	\$509	\$509



7000 SERIES INDICATORS

- ✓ 1:50,000 maximum displayed weighing resolution, maximum counting resolution to 1:500,000
- ✓ T71P features a high-impact, durable ABS plastic housing
T71XW features an NEMA 4X/IP66 water resistant stainless steel housing
- ✓ Large backlit LCD and checkweighing LEDs (green, yellow, red)
- ✓ kg, g, lb, oz, lb:oz (decimal), metric tonnes and user-definable custom unit
- ✓ Software for Counting, Percent Weighing, Dynamic/Animal Weighing, Checkweighing, Totalization, Display Hold and 255-item library for storing application data
- ✓ Includes RS232 interface with GMP/GLP data output including date and time
- ✓ Includes analog scale base input for two scale counting and weighing
- ✓ Optional interfaces include DC relay control kit, AC relay control kit, 2nd RS232 and RS422/485.



T71 Indicator Options		
80500720	AC Relay Kit	\$196
80500727	DC Relay Kit	\$168
80500729	Rechargeable Battery	\$125
80500731	RS422/485 Kit	\$53
80500733	2 nd RS232 Kit	\$39

















Model	T71P	T71XW
Capacity Range	1 to 999,950 kg/lb	
Certified / Approved Resolution	1:10,000	
Maximum Displayed Resolution	1:50,000	
Maximum Counting Resolution	1:500,000	
Minimum Average Piece Weight	0.1d	
Operating Temperature Range	14°F to 104°F / -10°C to 40°C	
Stabilization Time	Within 2 seconds	
Auto-Zero Tracking Capture Range	Off, 0.5, 1 or 3 divisions	
Zeroing Range	2% or 100% of capacity	
Span Calibration	1 kg or 1 lb to 100% of capacity	
Load Cell Sensitivity	Up to 3 mV/V	
Load Cell Drive	Up to eight × 350 Ohm load cells	
Display	1.5 in / 3.8 cm high x 4.9 in / 12.5 cm dual-line backlit LCD display with 1 in / 2.5 cm high 6-digit primary weight/text display and 3/8 in / 0.95 cm high 12-character secondary alphanumeric text display	
Power	9 VDC, 0.5A, AC adapter (included) or 6 "C" cell batteries (not included) optional internal rechargeable, NiMH battery	100-240 VAC/50-60 Hz, internal power supply or optional internal rechargeable, NiMH battery
Environmental Protection	Dry use	NEMA 4X / IP66
Housing	ABS Plastic	Stainless Steel
Interface	Built-in RS232, external tare input and analog scale base input included, Optional 2nd RS232, RS244/485, AC Relay or DC Relay available	
Keypad	4 function membrane switches, raised tactile keys with alphanumeric keypad	
Enclosure Dimensions (W × D × H)	10.2 × 2.7 × 6.6 in / 260 × 71 × 168 mm	10.3 × 3 × 5.8 in / 262 × 76 × 149 mm
List Price	\$670	\$1,005

NTEP Certificate of Conformance No. 09-102, Measurement Canada Notice of Approval AM-5762



5000 SERIES INDICATORS

- ✓ 1:30,000 maximum displayed weighing resolution, maximum counting resolution to 1:300,000
- ✓ T51P features a high-impact, durable ABS plastic housing
T51XW features an NEMA 4X/IP66 water resistant stainless steel housing
- ✓ Large backlit LCD and checkweighing LEDs (green, yellow, red)
- ✓ kg, g, lb, oz, lb:oz (decimal), metric tonnes and user-definable custom unit
- ✓ Software for Counting, Percent Weighing, Dynamic/Animal Weighing, Checkweighing, and Display Hold
- ✓ Includes RS232 interface with GMP/GLP data output including date and time
- ✓ Optional interfaces include DC relay control kit, AC relay control kit, 2nd RS232 and RS422/485.

							
NTEP 10,000d	Measurement Canada 10,000d	Parts Counting	Percent Weighing	Dynamic/ Animal Weighing	Check- weighing	Display Hold	RS232
							
Battery Power T51P	GMP/GLP	NEMA 4X IP66 (T51XW models)	AC Relay (Optional)	DC Relay (Optional)	RS232 x2 (Optional)	RS422/ RS485 (Optional)	Rechargeable Battery (optional) T51P/T51XW

T51 Indicator Options		
80500720	AC Relay Kit	\$196
80500727	DC Relay Kit	\$168
80500729	Rechargeable Battery	\$125
80500731	RS422/485 Kit	\$53
80500733	2 nd RS232 Kit	\$39

Model	T51P	T51XW
Capacity Range	1 to 999,950 kg/lb	
Certified / Approved Resolution	1:10,000	
Maximum Displayed Resolution	1:30,000	
Maximum Counting Resolution	1:300,000	
Minimum Average Piece Weight	0.1d	
Operating Temperature Range	14°F to 104°F / -10°C to 40°C	
Stabilization Time	Within 2 Seconds	
Auto-Zero Tracking Capture Range	Off, 0.5, 1 or 3 Divisions	
Zeroing Range	2% or 100% of Capacity	
Span Calibration	1 kg or 1 lb to 100% Capacity	
Load Cell Sensitivity	Up to 3 mV/V	
Load Cell Drive	Up to eight x 350 Ohm Load Cells	
Display	1 in / 2.5 cm digit height, 6-digit, 7-segment 1.5 in / 3.8 cm high x 4.9 in / 12.5 cm wide backlit LCD	
Power	9 VDC, 0.5A, AC adapter (included) or 6 "C" cell batteries (not included) optional internal rechargeable, NiMH battery	100-240 VAC/50-60 Hz, internal power supply or optional internal rechargeable, NiMH battery
Environmental Protection	Dry use	NEMA 4X / IP66
Housing	ABS Plastic	Stainless Steel
Interface	Built-in RS232 and External Tare Input included, Optional 2nd RS232, RS244/485, AC Relay or DC Relay available	
Keypad	4 function membrane switches, raised tactile keys	
Enclosure Dimensions (W x D x H)	10.2 x 2.7 x 6.6 in / 260 x 71 x 168 mm	10.3 x 3 x 5.8 in / 262 x 76 x 149 mm
List Price	\$510	\$819

NTEP Certificate of Conformance No. 08-039, Measurement Canada Notice of Approval AM-5687



CKW55 INDICATOR

- ✓ 1:20,000 max. displayed resolution
- ✓ lb, kg, g, oz, lb:oz, %
- ✓ GLP/GMP, Time, Date output
- ✓ NEMA 4X/IP66 all-stainless steel construction
- ✓ LED display
- ✓ Fully programmable checkweighing function
- ✓ User programmable library
- ✓ RS232 Interface included



NTEP
10,000d



Measurement
Canada 10,000d



NSF
Listed



USDA
Accepted



Check-
weighing



NEMA
4X/ IP66
Washdown



RS232



Battery
(Optional)

CKW55 Indicator Options		
71167967	AC Relay Kit	\$273
71173377	DC Relay Kit	\$273
71167966	Rechargeable Battery	\$255
71167965	RS422/485 Kit	\$154

Model	CKW55
Capacity Range	1 to 100,000 lb, kg, oz or g
Graduation	0.0001 to 5 lb, kg, oz or g
Certified / Approved Resolution	1:10,000
Operating Temperature	-10°C to 40°C / 14° F to 104° F
Stabilization Time	Within 2 Seconds
Auto-Zero Tracking Capture Range	Off, .5, 1 or 3 Divisions
Zeroing Range	2%, 18%, or 100% of Capacity
Span Calibration	1 kg/lb to 100% of Capacity
Load Cell Performance	5V DC Excitation Voltage / 2 or 3mV/V Input Sensitivity
Load Cell Drive	Up to 4 x 350 Ohm Load Cells
Weight Display	20 mm / 0.8" High 6-digit, 7-segment LED with Adjustable Brightness Control
Checkweigh Indication	3-color, 34-segment LED Bar Graph with Audible Beeper Alert and LED Weight Display Alert
Power	100-240 VAC / 50/60Hz Universal Power Supply Hardwire Cord Optional Internal Rechargeable NiMH Battery
Interface	Built-in RS232 and External Input / Optional RS422/485, Relay Output
Keyboard	8 Function Keys, 11 Numeric Keypad, Dedicated Tare and Target Entry Buttons
Dimensions (W x D x H)	9 x 3 x 8.5 in. / 230 x 75 x 217 mm (Includes Bracket)
List Price	\$1,046

NTEP Certificate of Conformance No. 06-038, Measurement Canada Notice of Approval AM 5339 NSF Listed/Certified to NSF/ANSI 169-2005 Special Purpose Food Equipment and Devices (formerly NSF C-2); USDA/AMS Accepted to NSF/3-A 14159-1 Hygiene Requirements for the Design of Meat and Poultry Processing Equipment; meets requirements for HACCP conformity.

BRACKET NOW INCLUDED!



T31P Indicator



T32XW Indicator

3000 SERIES INDICATORS

- ✓ 20,000d maximum displayed weighing resolution
- ✓ High-impact ABS housing (Model T31P) or NEMA 4X/IP65 stainless steel housing (Model T32XW)—both models include mounting bracket
- ✓ lb, oz, combined lb:oz, kg or g
- ✓ Counting software included
- ✓ Backlit LCD display
- ✓ RS232 Interface included



NTEP
6,000d



Measurement
Canada
6,000d



Parts
Counting



RS232



Rechargeable
Battery



NEMA 4X IP65
(T32XW
models)

Model	T31P	T32XW
Capacity Range	5 to 20,000 lb or kg	
Maximum Displayed Resolution	1:20,000	
Certified /Approved Resolution	1:6,000	
Operating Temperature Range	14°F to 104°F / -10°C to 40°C Maximum relative humidity 80 % for temperatures up to 31°C / 88°F, decreasing linearly to 50 % relative humidity at 40°C / 104°F, non condensing	
Minimum Average Piece Weight	1d	
Stabilization Time	Within 2 Seconds	
Auto-Zero Tracking Capture Range	Off, 0.5, 1 or 3 Divisions	
Zeroing Range	2% or 100% of Capacity	
Span Calibration	5 kg or 5 lb to 100% Capacity	
Load Cell Sensitivity	Up to 3 mV/V	
Load Cell Drive	Up to four × 350 Ohm Load Cells	
Display	1 in. / 2.5 cm digit height, 6-digit, 7-segment 1.5 in. / 3.8 cm high x 4.9 in. / 12.5 cm wide backlit LCD	
Power	9 VDC, 0.5A, AC adapter or internal rechargeable, sealed lead-acid battery (100-hour typical operation with full charge)	100-240 VAC/50-60 Hz, internal power supply or internal rechargeable battery (58-hour typical operation with full charge)
Environmental Protection	Dry use	NEMA 4X / IP65
Housing	ABS Plastic	Stainless Steel
Interface	Bidirectional RS232C	
Keypad	4-button mechanical switches, raised tactile keys	4-button membrane switch, raised tactile keys
Dimensions (W × D × H)	8.2 × 2.8 × 6.5 in / 210 × 71 × 168 mm	8.3 × 2.8 × 5.8 in / 212 × 71 × 149 mm
List Price	\$331	\$542

NTEP Certificate of Conformance No. 08-066A1, Measurement Canada Notice of Approval AM-5713C Rev. 1



T32ME Indicator
(LED version)

T32MC Indicator
(LCD version)

3000 SERIES INDICATORS

- ✓ 1:20,000 maximum displayed weighing resolution, maximum counting resolution to 1:20,000
- ✓ High-impact ABS front panel with painted carbon steel rear housing
- ✓ T32MC features 1 in. high backlit LCD display, T32ME features 0.8 in. high LED display
- ✓ Both indicators feature checkweighing LEDs (green, yellow, red)
- ✓ kg, g, lb, oz (decimal) and lb-oz weighing units
- ✓ Basic modes for counting, checkweighing, display hold and totalization
- ✓ Includes RS232 interface



NTEP
6,000d



Measurement
Canada 6,000d



Parts
Counting



Check-
weighing



Display
Hold



Totalization



RS232
Interface

Model	T32MC	T32ME
Capacity Range	5 to 20,000 lb or kg	
Maximum Displayed Resolution	1:20,000	
Certified / Approved Resolution	1:6,000	
Maximum Counting Resolution	1:20,000	
Minimum Average Piece Weight	1d	
Operating Temperature Range	14°F to 104°F / -10°C to 40°C	
Stabilization Time	Within 2 Seconds	
Auto-Zero Tracking Capture Range	Off, 0.5, 1 or 3 Divisions	
Zeroing Range	2% or 100% of Capacity	
Span Calibration	5 kg or 5 lb to 100% Capacity	
Load Cell Sensitivity	5V DC / up to 3 mV/V (min 1 μV/d)	
Load Cell Drive	Up to four 350Ω load cells	
Display	6-digit, 7-segment LCD 1 in / 25 mm digit height, with high-contrast white LED backlight	6-digit, 7-segment red LED 0.8 in / 20 mm digit height
Power	9-12 VDC, 0.5A, external AC adapter	
Construction	ABS Plastic front panel with painted carbon steel rear housing; includes painted carbon steel table-wall mount bracket with adjustment knobs	
Interface	Bidirectional RS232C	
Keypad	4 function mechanical switches, raised tactile keys	
Dimensions (W × D × H)	7.8 × 1.08 × 5.2 in / 198 × 46 × 132 mm	
List Price	\$288	\$288

NTEP Certificate of Conformance No. 09-090, Measurement Canada Notice of Approval AM-5747C



DEFENDER™ SQUARE WASHDOWN BASES

- ✓ 1:10,000-1:12,500 maximum resolution
- ✓ Stainless steel pan, frame, and load cell
- ✓ Adjustable no-slip rubber leveling feet
- ✓ Externally visible level indicator
- ✓ IP67 washdown protected loadcell



NTEP
5,000d



Measurement
Canada
5,000d

Model		D10WR	D25WR	D50WL	D100WL	D250WX
Capacity × Readability	Maximum	25 × 0.002 lb 10 × 0.001 kg	50 × 0.005 lb 25 × 0.002 kg	100 × 0.01 lb 50 × 0.005 kg	250 × 0.02 lb 100 × 0.01 kg	500 × 0.05 lb 250 × 0.02 kg
	Certified / Approved	25 × 0.005 lb 10 × 0.002 kg	50 × 0.01 lb 25 × 0.005 kg	100 × 0.02 lb 50 × 0.01 kg	250 × 0.05 lb 100 × 0.02 kg	500 × 0.1 lb 250 × 0.05 kg
Scale Base Size		12 × 12 × 3.8 in / 30 × 30 × 9.5 cm		18 × 18 × 4.5 in / 45 × 45 × 11.5 cm		24 × 24 × 5.4 in / 61 × 61 × 13.7 cm
List Price		\$1,187	\$1,187	\$1,434	\$1,434	\$1,959

NTEP Certificate of Conformance No. 01-048A1, Measurement Canada Notice of Approval AM-5719



DEFENDER™ SQUARE BASES

- ✓ 1:10,000-1:12,500 maximum resolution
- ✓ Stainless steel platform, painted steel frame, aluminum loadcell
- ✓ Adjustable no-slip rubber leveling feet
- ✓ Externally visible level indicator
- ✓ IP67 washdown protected loadcell



NTEP
5,000d



Measurement
Canada
5,000d

Model		D10QR	D25QR	D50QL	D100QL	D250QX
Capacity × Readability	Maximum	25 × 0.002 lb 10 × 0.001 kg	50 × 0.005 lb 25 × 0.002 kg	100 × 0.01 lb 50 × 0.005 kg	250 × 0.02 lb 100 × 0.01 kg	500 × 0.05 lb 250 × 0.02 kg
	Certified / Approved	25 × 0.005 lb 10 × 0.002 kg	50 × 0.01 lb 25 × 0.005 kg	100 × 0.02 lb 50 × 0.01 kg	250 × 0.05 lb 100 × 0.02 kg	500 × 0.1 lb 250 × 0.05 kg
Scale Base Size		12 × 12 × 3.8 in / 30 × 30 × 9.5 cm		18 × 18 × 4.5 in / 45 × 45 × 11.5 cm		24 × 24 × 5.4 in / 61 × 61 × 13.7 cm
List Price		\$753	\$753	\$838	\$838	\$1,287

NTEP Certificate of Conformance No. 01-048A1, Measurement Canada Notice of Approval AM-5719



DEFENDER™ RECTANGULAR BASES

- ✓ 1:6,000-1:7,500 maximum resolution
- ✓ Stainless steel platform, painted steel frame, aluminum loadcell
- ✓ Adjustable leveling feet
- ✓ Externally visible leveling bubble
- ✓ IP67 washdown protected loadcell



NTEP
3,000d



Measurement
Canada
3,000d

Model		D15HR	D30HR	D60HR	D60HL	D100HL	D150HX	D300HX
Capacity × Readability	Maximum	30 × 0.005 lb 15 × 0.002 kg	60 × 0.01 lb 30 × 0.005 kg	120 × 0.02 lb 60 × 0.01 kg	120 × 0.02 lb 60 × 0.01 kg	250 × 0.05 lb 100 × 0.02 kg	300 × 0.05 lb 150 × 0.02 kg	600 × 0.1 lb 300 × 0.05 kg
	Certified / Approved	30 × 0.01 lb 15 × 0.005 kg	60 × 0.02 lb 30 × 0.01 kg	120 × 0.05 lb 60 × 0.02 kg	120 × 0.05 lb 60 × 0.02 kg	250 × 0.1 lb 100 × 0.05 kg	300 × 0.1 lb 150 × 0.05 kg	600 × 0.2 lb 300 × 0.1 kg
Scale Base Size (W × D × H)		12 × 14 × 3.54 in / 30.5 × 35.5 × 9.5 cm			16 × 20 × 4.1 in / 40 × 50 × 10.5 cm		17 × 22 × 4.1 in / 42 × 55 × 10.5 cm	
List Price		\$641	\$641	\$641	\$710	\$710	\$861	\$1,133

NTEP Certificate of Conformance No. 99-203A3, Measurement Canada Notice of Approval AM-5675



DEFENDER™ BASIC RECTANGULAR WASHDOWN BASES

- ✓ 1:6,000-1:7,500 max. resolution
- ✓ Adjustable no-slip rubber leveling feet
- ✓ Externally visible leveling bubble
- ✓ Stainless steel platform, tubular frame and load cell



NTEP
3,000d



Measurement
Canada
3,000d

Model		D30VR	D60VR	D60VL	D150VL	D150VX	D300VX
Capacity × Readability	Maximum	60 × 0.01 lb 30 × 0.005 kg	150 × 0.02 lb 60 × 0.01 kg	150 × 0.02 lb 60 × 0.01 kg	300 × 0.05 lb 150 × 0.02 kg	300 × 0.05 lb 150 × 0.02 kg	600 × 0.1 lb 300 × 0.05 kg
	Certified / Approved	60 × 0.02 lb 30 × 0.01 kg	150 × 0.05 lb 60 × 0.02 kg	150 × 0.05 lb 60 × 0.02 kg	300 × 0.1 lb 150 × 0.05 kg	300 × 0.1 lb 150 × 0.05 kg	600 × 0.2 lb 300 × 0.1 kg
Construction	Stainless steel pan and tubular stainless steel frame and load cell						
Base Dimensions (W × D × min. H)	12 × 14 × 4.8 in / 305 × 355 × 123 mm		16.5 × 21.6 × 5.4 in / 420 × 550 × 136 mm		19.7 × 25.6 × 5.8 in / 500 × 650 × 147 mm		
List Price		\$616	\$616	\$1,044	\$1,044	\$1,552	\$1,552

NTEP Certificate of Conformance No. 08-021, Measurement Canada Notice of Approval No. AM 5667



DEFENDER™ BASIC RECTANGULAR BASES

- ✓ 1:6,000-1:7,500 max. resolution
- ✓ Adjustable no-slip leveling feet
- ✓ Externally visible leveling bubble
- ✓ Stainless steel platform, painted tubular steel frame and aluminum loadcell



NTEP
3,000d



Measurement
Canada
3,000d

Model		D30BR	D60BR	D60BL	D150BL	DB150BX	DB300BX
Capacity × Readability	Maximum	60 × 0.01 lb 30 × 0.005 kg	150 × 0.02 lb 60 × 0.01 kg	150 × 0.02 lb 60 × 0.01 kg	300 × 0.05 lb 150 × 0.02 kg	300 × 0.05 lb 150 × 0.02 kg	600 × 0.1 lb 300 × 0.05 kg
	Certified / Approved	60 × 0.02 lb 30 × 0.01 kg	150 × 0.05 lb 60 × 0.02 kg	150 × 0.05 lb 60 × 0.02 kg	300 × 0.1 lb 150 × 0.05 kg	300 × 0.1 lb 150 × 0.05 kg	600 × 0.2 lb 300 × 0.1 kg
Construction	Stainless steel pan with painted carbon steel tubular frame and aluminum loadcell						
Base Dimensions (W × D × min. H)	12 × 14 × 4.8 in / 305 × 355 × 123 mm		16.5 × 21.6 × 5.4 in / 420 × 550 × 136 mm		19.7 × 25.6 × 5.8 in / 500 × 650 × 147 mm		
List Price		\$268	\$268	\$402	\$402	\$530	\$530

NTEP Certificate of Conformance No. 08-021, Measurement Canada Notice of Approval No. AM 5667



CHAMP™ CKW SQUARE BASES

- ✓ NSF Listed/Certified, USDA-AMS accepted, supports HACCP-certified systems
- ✓ 1:6,000-7,500 maximum resolution
- ✓ Stainless steel construction and extended skirt minimizes water or contamination entry into the frame
- ✓ Stainless steel pan, frame, and IP67 washdown protected load cell
- ✓ Adjustable no-slip rubber leveling feet
- ✓ Externally visible level indicator



NTEP
3,000d



Measurement
Canada 3,000d



NSF
Listed



USDA/
AMS
Accepted

Model		CKW3R	CKW6R	CKW15L	CKW30L
Capacity × Readability	Maximum	6 × 0.001 lb 3 × 0.0005 kg	15 × 0.002 lb 6 × 0.001 kg	30 × 0.005 lb 15 × 0.002 kg	60 × 0.01 lb 30 × 0.005 kg
	Certified / Approved	6 × 0.002 lb 3 × 0.001 kg	15 × 0.005 lb 6 × 0.002 kg	30 × 0.01 lb 15 × 0.005 kg	60 × 0.02 lb 30 × 0.01 kg
Base Dimensions (W × D × minimum H)	10 × 10 × 2.26 in / 25.4 × 25.4 × 5.75 cm		12 × 12 × 2.26 in / 30.5 × 30.5 × 5.75 cm		12 × 12 × 2.74 in / 30.5 × 30.5 × 6.95 cm
List Price		\$814	\$814	\$950	\$950

NTEP Certificate of Conformance No. 06-030, Measurement Canada Notice of Approval AM-5340/Rev1

NSF Listed/Certified to NSF/ANSI 169-2005 Special Purpose Food Equipment and Devices (formerly NSF C-2); USDA/AMS Accepted to NSF/3-A 14159-1 Hygiene Requirements for the Design of Meat and Poultry Processing Equipment; meets requirements for HACCP conformity.



D500M MOBILE FLOOR BEAM SCALE

- ✓ Epoxy-painted steel construction
- ✓ Beam lock mechanism protects scale during storage
- ✓ Phenolic wheels for portability
- ✓ lb weighing unit
- ✓ Beam calibrated to 100 lbs in 0.5 lb increments
- ✓ Included counterpoise weights increase capacity to 1,000 lbs.
Total 1,000 lb: 2 × 100 lb, 1 × 200 lb, 1 × 500 lb



NTEP 2,000d

Model	D500M
Capacity × Readability	1,000 × 0.5 lb
Front Beam Calibrations	100 lb × 0.5 lb
Epoxy Coated Steel Plate Platform	19.25 × 28.125 in
List Price	\$961

NTEP Certificate of Conformance No. 08-070.



HEAVY DUTY SOLUTION

HIGH CAPACITY WEIGHING SCALES

- ✓ Stainless steel platform
- ✓ Positive load stops
- ✓ Oversized plate for larger containers
- ✓ Tare for containers up to 2270g
- ✓ Magnetic damping speeds the weighing process
- ✓ Covered self-aligning bearings for maintenance-free life

Model	1119-D0
Capacity × Readability	20 kg × 1 g
Calibrations	Front Beam Rear Beam
	100 g × 1 g 1000 g × 100 g
Epoxy Coated Steel Plate Platform (Diameter)	11 in / 27.9 cm
List Price	\$1,547



FIELD TEST COMPACT INDUSTRIAL SCALES

- ✓ Compact, precision mechanical design
- ✓ Slotted weight set included
- ✓ Weighed base keeps scale stable
- ✓ Large, stabilized pan holds oversized samples without tipping
- ✓ Kg or lb units (by model)

Model	2400-11	2400-12
Capacity × Readability	16 kg × 5 g	36 × 0.01 lb
Beam Calibration	500 g × 5 g	1 lb × 0.01 lb
Epoxy Coated Steel Plate Platform (Diameter)	11 in / 27.9 cm	
List Price	\$948	\$984

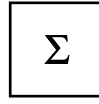


DC5000 STANDARD CRANE SCALES

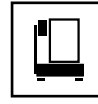
- ✓ Rugged, all metal NEMA 4X/IP65 construction
- ✓ lb or kg units
- ✓ Large, bright LED display with anti-scrap screen
- ✓ Modes for accumulation of total weights, peak weight and display hold of current weight value
- ✓ Internal rechargeable battery with up to 150 hours of operation between charges
- ✓ Includes RS232 port with TTL or passive relay contacts
- ✓ Infra-red remote controller included



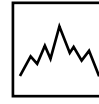
NTEP 5,000d



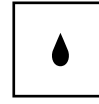
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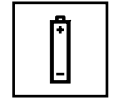
Display Hold



Peak Hold



NEMA 4/IP65 Washdown



Rechargeable Battery



RS232



DC Relay

Model		DCL10000	DCL50000	DCL80000
Capacity × Readability	Default	10,000 × 5 lb 5,000 × 2 kg	50,000 × 20 lb 25,000 × 10 kg	80,000 × 50 lb 40,000 × 25 kg
	NTEP Certified	10,000 × 2 lb 5,000 × 1 kg	50,000 × 10 lb 25,000 × 5 kg	80,000 × 20 lb 40,000 × 10 kg
Construction		Die cast aluminum housing with electroplated hook		
List Price		\$3,401	\$6,378	\$11,489

NTEP Certificate of Conformance No. 09-059A1

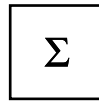


DC3000 ECONOMICAL CRANE SCALES

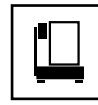
- ✓ Rugged, all metal NEMA 4X/IP65 construction
- ✓ lb or kg units
- ✓ Large, bright LED display with anti-scrap screen
- ✓ Modes for accumulation of total weights, peak weight and display hold of current weight value
- ✓ Internal rechargeable battery with up to 150 hours of operation between charges
- ✓ Infra-red remote controller optional (\$88, Model 80253191)



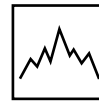
NTEP 5,000d



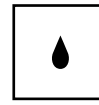
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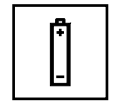
Display/
Peak Hold



Peak Hold



NEMA 4/IP65 Washdown



Rechargeable Battery

Model		DCR250	DCR1000	DCR2000*	DCR5000
Capacity × Readability	Default	250 × 0.1 lb 100 × 0.05 kg	1,000 × 0.5 lb 500 × 0.2 kg	2,000 × 1 lb 1,000 × 0.5 kg	5,000 × 2 lb 2,500 × 1 kg
	NTEP Certified	250 × 0.1 lb 100 × 0.05 kg	1,000 × 0.2 lb 500 × 0.1 kg	—	5,000 × 1 lb 2,500 × 0.5 kg
Construction		Die cast aluminum housing with galvanized hook			
List Price		\$1,686	\$1,686	\$1,686	\$1,815

NTEP Certificate of Conformance No. 09-059A1 *DCR2000 not NTEP Certified

IMPROVED!



VX STANDARD FLOOR SCALE

MODEL VX32XW2500L and VX32XW5000L ONLY*

- ✓ Durable epoxy painted weighing deck
- ✓ Junction box with easy side access and integrated DB-9 connector
- ✓ Pre-wired NEMA 4X/IP65 water resistant stainless steel indicator
- ✓ lb or kg units
- ✓ Factory pre-calibrated (factory settings)
- ✓ Parts counting software included
- ✓ RS232 output
- ✓ Optional ramps



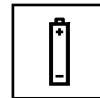
NTEP
5,000d*



Parts
Counting



RS232



Rechargeable
Battery

Model	VX32XW2500L*	VX32XW5000L*	VX32XW5000X	VX32XW10000L	VX32XW10000X
Capacity × Readability	2,500 × 0.5 lb	5,000 × 1 lb	5,000 × 1 lb	10,000 × 2 lb	10,000 × 2 lb
Scale Base Size	48 × 48 in		60 × 60 in	48 × 48 in	60 × 60 in
Construction	Durable epoxy painted weighing deck				
List Price	\$2,074	\$2,074	\$2,442	\$2,806	\$2,971

*Made from Certified/Approved weighing components • NTEP Certification for model VX32XW2500L and V32XW5000L only, Certificate of Conformance No. 08-069 and 08-066.



VN ECONOMICAL FLOOR SCALE

- ✓ Durable epoxy painted weighing deck
- ✓ Stainless steel junction box with easy side access and integrated DB-9 connector
- ✓ Pre-wired indicator with 12' ready-to-plug cable
- ✓ lb or kg units
- ✓ Factory pre-calibrated (factory settings)
- ✓ Adjustable ball-in-cup leveling feet
- ✓ Parts counting software included
- ✓ RS232 output
- ✓ Optional ramps



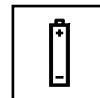
NTEP
5,000d**



Parts
Counting



RS232



Rechargeable
Battery

Model	VN31P5000L	VN31P5000X
Capacity × Readability	5,000 × 1 lb	
Scale Base Size	48 × 48 × 3.5 in	60 × 60 × 3.5 in
Construction	Painted steel platform and frame	
List Price	\$1,868	\$2,206

** Made from Certified/Approved weighing components • NTEP Certificate of Conformance No. 08-048A1 and 08-066.



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