GENERAL®

Full Line Tools & Instruments Catalog

CAT10

Precision, Specialty & Innovation

GENERAL® TABLE OF CONTENTS

TOOLS

INSTRUMENTS

PRECISION, SPECIALTY & INNOVATION

It started back in 1922 in New York City as General Hardware run by Abe Rosenberg and his wife Lillian. They realized that the future of specialty hand tools belonged to the company that could develop and offer new and unique products for both professionals and the general public. Thus General Tools Mfg. was born. Abe developed the products. Lillian managed the business.
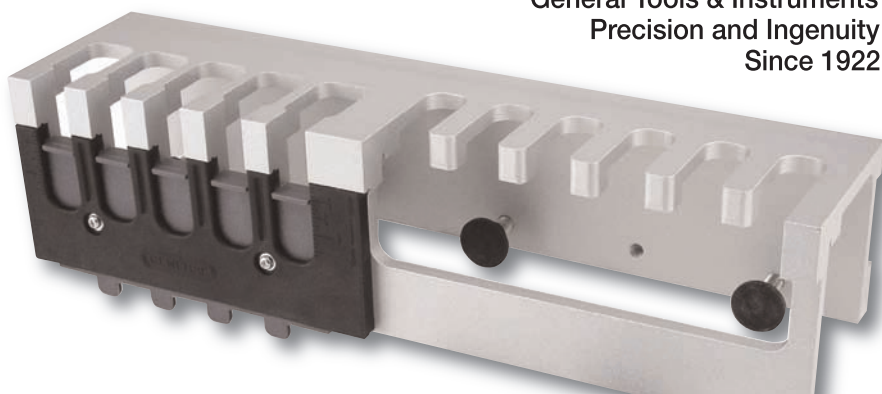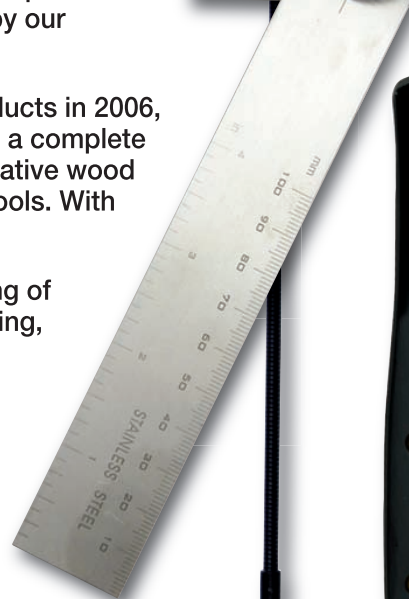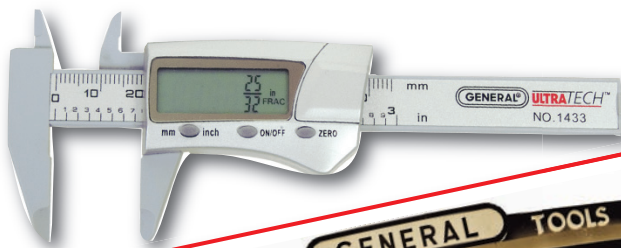
Today, some 87 years later, General is still a family business. Years of research, product development and innovation—fueled by a combination of user feedback and the application of new technology—have provided a wealth of specialty tools and instruments designed to meet the most demanding needs of craftsmen, technicians and professionals in a wide variety of industries. General's unique philosophy—and that of its founders—is to also offer this level of precision and technology to the hobbyist, the home mechanic and the D.I.Y. enthusiast. Our products carry on the heritage of precision, quality and value envisioned by our founders. Abe and Lillian would have had it no other way.

With the acquisition of both Mannix Instruments and Simp'l Products in 2006, General Tools made a quantum leap in product offerings, adding a complete line of hand held precision instruments, as well as a line of innovative wood joining jigs, to an already large and growing family of precision tools. With these acquisitions we became General Tools & Instruments.

Our vision remains the same: to provide you with a robust offering of high quality specialty tools and instruments for measuring, marking, inspecting, retrieving, fastening, joining, cutting, testing and monitoring. And we offer them at superb value. Whether you're a professional seeking a high-precision tool for woodworking, metalworking or plumbing, a technician seeking the right instrument at the right price for an industrial or HVAC/R application, or a weekend warrior looking for a cool tool to make that project easier and more fun to complete, General has the tool or instrument for you!

Gerry Weinstein, Chairman
Joe Ennis, President and CEO

General Tools & Instruments
Precision and Ingenuity
Since 1922

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309CD
Page 80

POCKET PEN WITH 3 FOOT REMOVEABLE TAPE MEASURE

MEASURE 'N MARK

ULTRATECH POWER PRECISION SCREWDRIVER
Destornillador Sin Cuerda / Tournevis Sans Fil

- Quick Change Chuck
- 10+ Hours of Power
- 100+ RPM • Super-Torque Drive
- Cordless (2 "AAA" alkaline batteries included)
- Precision use for computers, electronics and industrial applications

NEW!

Includes Six 1/8" Precision Bits

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1700
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GENERAL®

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AWARD WINNER!

Popular Mechanics
PM® EDITOR'S CHOICE AWARDS | 09

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LED
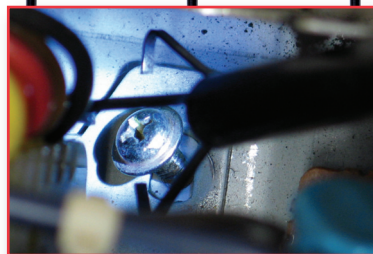
70401   70403   70408
Pages 84, 85

70399
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Pages 22, 23, 24

General's NEW Wood Joining Program features all the necessary pieces for . . . WOOD JOINING! Included in this program are: Fluted Dowel Pins, Dowel Plugs, Shaker Pegs, Biscuits and Pocket Hole Accessories. All of these items are used to create panels in the creation of furniture, cabinets, trim, crafts and much more. Also included in this program are the wood joining jigs, screws and drill bits.

Tubing Cutters

Mini Tubing Cutters

Cutting Tools

Flaring Tools

Bending Tools

Reamers

Deburring Tools

Cleaning Brushes

Wrenches

Pliers

Faucet Tools

THE GOLD STANDARD PROFESSIONAL SERIES

PLUMBING

**All General Tools Professional Tubing Cutters**, come standard with these customer proven features:
• **One** Bearing tool steel cutting wheel, machined to the perfect geometry and through hardened, that fits all General cutters. • **Wider** hardened and polished Flared Grooved Rollers for reliable, stable and true close end

cutting on flared tubing. Our rollers are mounted on hardened solid pins for longer, friction free operation.
• **Powder Coated** baked on painted finish for durability, corrosion resistance and great look. • **All fasteners** are drilled and tapped for precision fit and strength, not riveted or pinned.
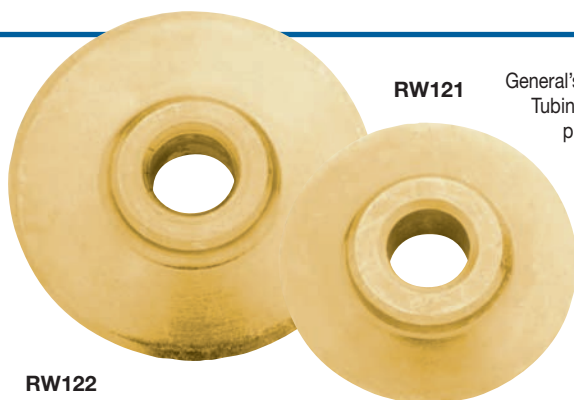
RW121

RW122

General's Gold Standard Tubing Cutter Wheels are the new Quality Standard Replacement Cutters for all General Tubing Cutters! Now with our new slim-line design only 2 cutter wheels are needed to cut copper, plastic, iron pipe and stainless steel.
• Our Gold Standard cutter wheels include these features:
Shape: New, sleek, slim-line geometry provides for smooth, clean, effortless cutting on all Pipes and Tube Materials.
**Strength:** Bearing Tool Steel for superior strength to withstand the greater cutting pressure.
Durability: Hardened and tempered to maintain its sharp edge and reduce chipping or breaking.
Speed: The combination of shape, strength and durability enable General's New GOLD Standard to repeatedly provide quicker cutting without deforming the pipe OD and cuts with minimum ID burring.
RW121/2 - **For thin wall cutting**-Fits all General tubing cutters, Pro or Classic series; mini, standard or high performance sizes. (Packed 2 per card).
RW122 - **Larger capacity: For iron or PVC pipe**-Fits Nos. 120, 125, 126 and 127 cutters.

TUBING CUTTER

1-1/8"

120
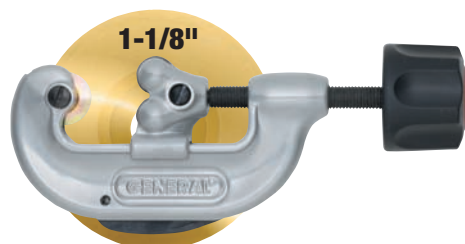
• Newly redesigned contoured shape comfort grip design
• Bearing tool steel cutter wheel
• Wide hardened flared grooved rollers allow cuts close to a flared end to avoid tube replacement in existing installations
• Full sized fold out reamer with double cutting edges

• Cuts copper, aluminum, brass, thin wall tubing and stainless steel
• Large knob with a covered extra cutter wheel storage space
• Replaceable cutting wheels: RW121/2, RW122

UPC	NO.	CAPACITY
12003 8	**120**	1/8" to 1-1/8" (3mm- 30mm)

PIPE AND TUBING CUTTER

2-5/8"

126

• General's best quality tubing and pipe cutter is designed to meet the demanding needs of the professional
• Quick release button to speed use
• Capacity 1/4" – 2-5/8" (6 – 67mm)
• For cutting copper, aluminum, thin wall tubing, iron and PVC
• Heavy-duty construction for tube or pipe
• Four rollers to accommodate multiple pipe sizes and prevent spiraling

• Removable machinists reamer to easily deburr pipe
• Quick open and close mechanism to speed use
• Extra wheel storage available in handle
• Uses standard General Tools cutting wheels #RW122 or #RW121

UPC	NO.	CAPACITY
12017 5	**126**	2-5/8" (67mm) copper

IRON PIPE CUTTER

2-5/8"

127

• All of the best features of General's No. 126 Pipe and Tubing Cutter and more
• Large hardened flare groove rollers allow you to cut close to the flared ends of pipe or tubing
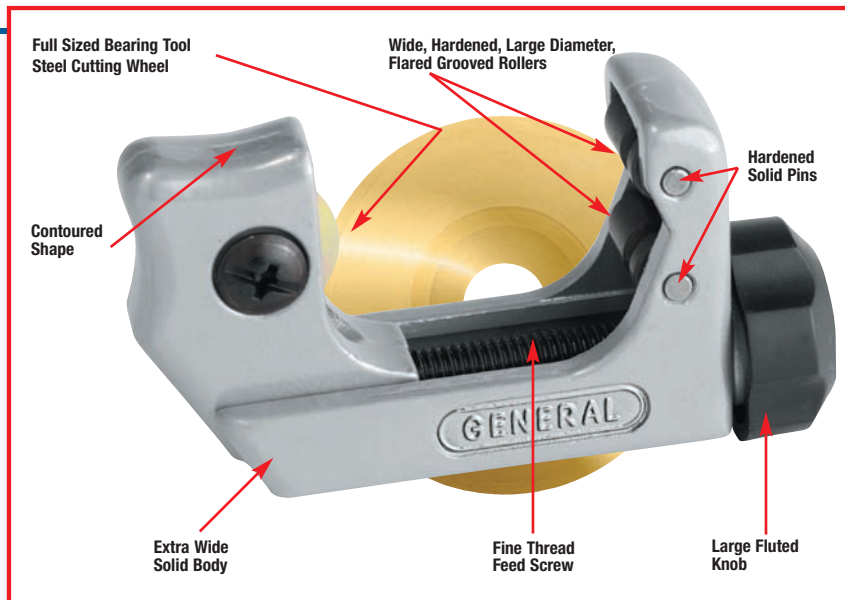• Removable machinists reamer to easily deburr pipe

• Solid frame for greater strength
• Equipped with RW122 heavy-duty cutting wheel for iron, copper, stainless steel, and PVC pipe
• Hardened Acme thread for greater strength
• Replaceable cutting wheels: RW121/2, RW122

UPC	NO.	CAPACITY
12020 5	**127**	2-5/8" (67mm) 1-1/4" (32mm) iron

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

Mini Tubing Cutters

GENERAL®

- A mini must work in locations where standard cutters don't fit. Our new mini cutters work in tighter locations that the Pro and DIY'er encounter. We call it Spin Radius.
- A mini must be comfortable to spin to avoid hand fatigue. We've designed in contoured finger grip locations to increase comfort, working torque and speed.

- We added a large fluted, easy turning, adjusting knob, fine threaded feed screw and unique tracking rail system, to ensure reliable, smooth, friction free operation and greater torque.
- Adding our standard full sized bearing tool steel cutter to every General Mini makes our Pro Series our best ever.
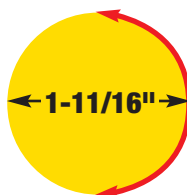

Full Sized Bearing Tool Steel Cutting Wheel
Wide, Hardened, Large Diameter, Flared Grooved Rollers
Hardened Solid Pins
Contoured Shape
Extra Wide Solid Body
Fine Thread Feed Screw
Large Fluted Knob

GENERAL PROFESSIONAL
Super Mini Tubing Cutter
Super mini coupe-tube
Super cortador de tubo

GENERAL PROFESSIONAL
Micro Tubing Cutter
Microcoupe-tube
Micro cortador de tubo
No. 123R
UPC 12009

SUPER MINI TUBING CUTTER
- Comfort grip design for easy turning
- Full size bearing tool steel cutter wheel
- Large fluted adjusting knob for greater torque
- Cuts copper, aluminum, brass, thin wall tubing and stainless steel
- Wide hardened flared grooved rollers allows true cuts close to flared end tubing to avoid tube replacement in existing installations

- Replaceable cutting wheel, RW121/2

UPC	NO.	CAPACITY
01240 1	**124**	1/8" to 1-1/8" (3mm – 30mm)

1-11/16"

1-11/16" SWING RADIUS AT MAX CAPACITY

1-1/8"

124

MINI TUBING CUTTER
- Comfort grip design for easy turning
- Full size bearing tool steel cutter wheel
- Large fluted adjusting knob for greater torque
- Cuts copper, aluminum, brass, thin wall tubing and stainless steel
- Wide hardened flared grooved rollers allows true cuts close to flared end tubing to avoid tube replacement in existing installations

- Replaceable cutting wheel, RW121/2

UPC	NO.	CAPACITY
12032 8	**129X**	1/8" to 7/8" (3mm – 22mm)

1-1/2"

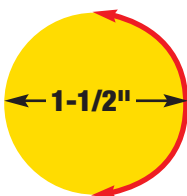**1-1/2" SWING RADIUS AT MAX CAPACITY**

7/8"

129X

MICRO TUBING CUTTER
- Comfort grip design for easy turning
- Full size bearing tool steel cutter wheel
- Large fluted adjusting knob for greater torque
- Cuts copper, aluminum, brass, thin wall tubing and stainless steel
- Wide hardened flared grooved rollers allows true cuts close to flared end tubing to avoid tube replacement in existing installations

- Replaceable cutting wheel, RW121/2

UPC	NO.	CAPACITY
12009 0	**123R**	1/8" to 5/8" (3mm – 15mm)

1-3/8"

1-3/8" SWING RADIUS AT MAX CAPACITY

5/8"

123R

"It's Your Job . . . General Tools Make It Easier"   **T-7**
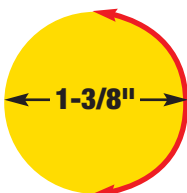
PLUMBING TOOLS
Tubing Cutters

GENERAL®

General's full range of cutters makes the job easier to do for the professional plumber as well as the do-it-yourselfer. Each of our cutters produces cuts on copper, aluminum and thin wall tubing. Our 126 and 127 cutters are perfect for cutting iron pipe, tubing and PVC. Sizes range from 1/8" to 2-5/8" O.D. capacity. RW122 gold standard replacement cutter wheel fits no's. 120, 125, 126 and 127 cutters.

HEAVY-DUTY CUTTER

1-5/8"

125

- Newly redesigned comfort grip for heavy-duty and industrial applications
- Bearing tool steel cutter wheel
- Wider, hardened flared grooved rollers allow cuts close to a flared end to avoid tube replacement in existing installations
- Full size fold-out reamer
- Cuts copper, aluminum, brass, thin wall tubing and stainless steel
- Oversize knob for additional leverage
- Spare cutting wheel storage position in handle
- Replaceable cutting wheels: RW121/2, RW122

UPC	NO.	CAPACITY
12015 1	**125**	1/4" to 1-5/8" (6mm - 41mm)

ENCLOSED FEED CUTTER

1-1/8"

128

- General's finest professional quality cutter
- Feed is enclosed to keep tool size consistent for work in confined spaces
- Enclosed threads seal out dirt for long life
- Wide hardened flared grooved rollers allow true cuts close to flared end tubing to avoid tube replacement in existing installations
- Cuts copper, aluminum, brass, thin wall tubing and stainless steel
- Hardened steel retractable reamer
- Conforms to government specifications GGG-C-771d
- Replaceable bearing tool steel cutter wheel, RW121/2 (included)

| UPC	NO.	CAPACITY
12018 2	**128**	1/8" to 1-1/8" (3mm - 30mm)

E•Z™ RATCHET TUBING CUTTER

1-1/8"

133

- Ratcheting action rotates the cutter around the tube allowing a standard size cutter to be used in close quarter applications
- Longer handle requires less effort to rotate cutter reducing hand fatigue
- Wide hardened flared grooved rollers allow true cuts close to flared end tubing to avoid tube replacement in existing installations
- Cuts copper, aluminum, brass, thin wall tubing and stainless steel
- Spare cutting wheel supplied in handle
- Replaceable cutting wheel: RW121/2

UPC	NO.	CAPACITY
13300 7	**133**	5/16" to 1-1/8" (8mm – 30mm)
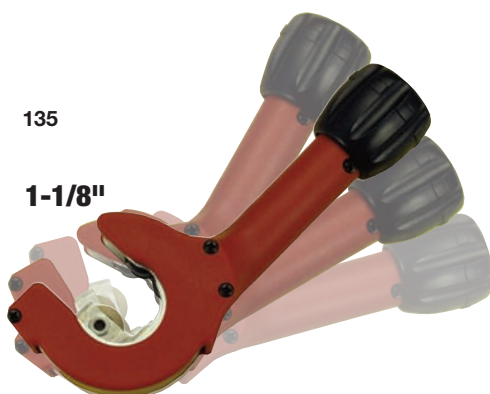
E•Z™ RATCHET II TUBE AND PIPE CUTTER

135

1-1/8"

- Cuts without rotating tool completely around tube or pipe
- Exclusive "One-Hand" operation
- Ratchets in 5° increments while cutting 360° around tube
- Large cutting diameter 1/8" to 1-1/8" (3mm-28mm)
- Cuts copper, brass, aluminum, stainless steel, PVC and thin wall conduit
- Replaceable cutting wheels: RW135/2

UPC	NO	CAPACITY
01350 7	**135**	1/8" to 1-1/8" (3mm-28mm)
01351 4	**RW135/2**	Replacement Wheel (2)

**ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES**

General's PVC Cutters are used for cutting PVC, PE and ABS pipe. All metal construction allows for greater durability. Ergonomically designed handle allows for comfort and control. The hose and tubing cutter cuts flexible rubber, PVC, ABS and Polythylene tubing. The PVC Saw has a smooth, fast cutting blade for PVC and wood. Its high impact plastic handle can be pivoted and locked into multiple positions.
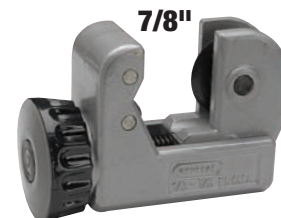
CLASSIC MINI TUBING CUTTER

- For cutting copper, aluminum, brass and thin wall tubing in tight or hard-to-reach places
- Large knob for added torque
- Hardened flare grooved rollers
- Replaceable cutting wheel: RW121/2

1-1/2"
← 1-1/2" →

7/8"

1-1/2" SWING RADIUS AT MAX CAPACITY

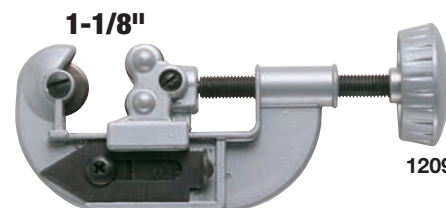| UPC	NO.	CAPACITY
12028 1	**129**	1/8" to 7/8" (3mm - 22mm)
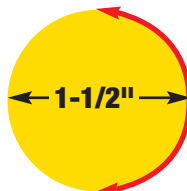
129

CLASSIC STANDARD TUBING CUTTER

- For cutting copper, aluminum, brass and thin wall tubing in tight or hard-to-reach places
- Large knob for added torque
- Hardened flare grooved rollers

- Retractable tool steel reamer
- Replaceable cutting wheel: RW121/2

1-1/8"

UPC	NO.	CAPACITY
01209 8	**1209**	1/8" to 1-1/8" (3mm- 30mm)

1209

TRIGGER ACTION PLASTIC PIPE AND HOSE CUTTER

- For cutting PVC, CPVC, Polyethylene, PEX, ABS
- Easily fits into tight spaces
- Quick blade replacement

UPC	NO.	CAPACITY
01170 1	**117**	1-5/8" (42mm)
01171 8	**117BG**	Replacement Blade

117

PVC RATCHET CUTTER

- For repeated heavy-duty cutting
- Cuts hose, PVC, CPVC, polyethylene, PEX and ABS up to 2"
- Ratchet action for easy cutting
- High carbon steel blade provides longer sharpness and clean cuts
- Aluminum body is lighter and corrosion resistant
- Safety locking clasp

UPC	NO.	CAPACITY	LENGTH
01181 7	**118**	up to 2" (50mm)	17" (425mm)
01180 0	**118BG**	Replacement Blade	

118

ONE-HANDED PLASTIC PIPE AND HOSE CUTTER

- For cutting PVC, CPVC, Polyethylene, PEX and ABS tubing
- One-handed Operation
- Quick-Blade Reset
- Ratchet system holds blade in place while you adjust your grip to increase pressure
- High carbon steel blade maintains sharpness and resists chipping

- Handle locking strap for safe storage
- Exclusive, easy replaceable blade feature
- Ergonomically designed handle for comfort
- Replacement Blade, No.119BG

119

UPC	NO.	CAPACITY	LENGTH
31173 3	**119**	1/8" to 1-5/8"	8-1/4" (210mm)
01194 7	**119BG**	Replacement Blade	

"It's Your Job . . . General Tools Make It Easier"
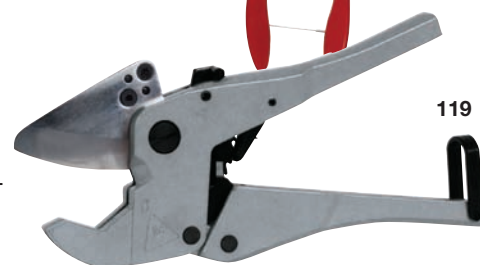
GENERAL®

General's PVC Cutters are used for cutting PVC, PE and ABS pipe. All-metal construction allows for greater durability. Ergonomically designed handle allows for comfort and control. The hose and tubing cutter cuts flexible rubber, PVC, ABS and Polythylene tubing. The PVC Saw has a smooth, fast cutting blade for PVC and wood. Its high impact plastic handle can be pivoted and locked into multiple positions.
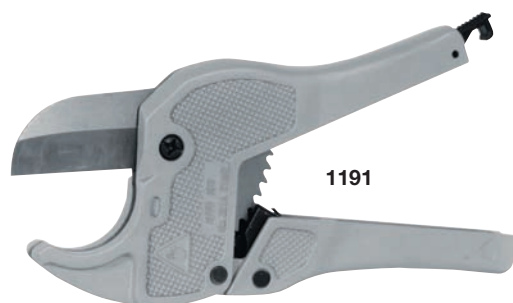
ONE-HANDED PVC/HOSE CUTTER

1191

- For cutting PVC, PE, PEX, ABS pipe
- Professional quality, all-metal construction for greater durability
- Ratcheting action for easy cutting
- High carbon steel blade provides longer sharpness and clean cuts
- Handle locks for safety
- Ergonomically designed handle for comfort

UPC	NO.	CAPACITY	LENGTH
01191 6	**1191**	up to 1-5/8" (40mm)	9-1/8" (231mm)

HOSE AND TUBING CUTTER

115

- Cuts flexible rubber, PVC, ABS & polyethylene tubing
- Long handles provide added leverage for easy cuts
- Curved holder supports hose for square cuts
- Replaceable steel blade
- Capacities: rubber hose 2", polyethylene and ABS pipe 1", PVC pipe 1"

UPC	NO.	CAPACITY
01150 3	**115**	1" to 2" (25mm – 50mm)
		LENGTH
		9-1/2" (241mm)
11500 3	**115B**	Replacement Blade

PVC PIPE CABLE SAW

858
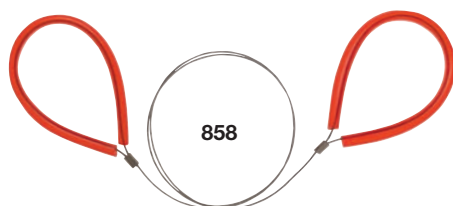
- For cutting PVC pipe in confined work areas
- 24" stainless steel serrated cutting cable
- Easily cuts pipe up to 8" in diameter
- Comfort grip handles

UPC	NO.	CAPACITY
08580 1	**858**	8" dia. (200mm)

JUNIOR HACKSAW

864

- Handy cutting tool for hobbyists, do-it-yourselfers and professionals
- Ergonomically designed with a comfortable high-impact plastic handle
- 6" (150mm) replaceable heat treated blade for cutting metal
- Sturdy tubular frame
- Reversible blade for push or pull cutting
- No. 864B, set of 6 replacement blades: 3 wood and 3 metal are available

UPC	NO.
43067 0	**864**
43070 0	**864B** Set of 6 Blades
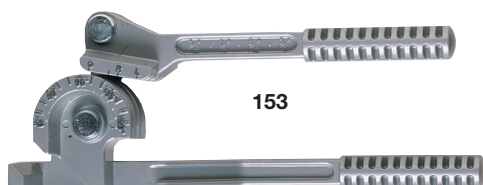
COMPOUND TUBING BENDER

153

- Will bend copper, brass, thin wall tubing, aluminum, soft wire and rods
- 180° bends in a single action
- Bender has calibrated angle markings from 0° to 180° for making accurate left, right and offset bends
- Bends 4 sizes
- Ergonomically designed handles for greater comfort
- Durable die-cast alloy construction
- Extra-long handle for greater leverage

UPC	NO.	CAPACITY
14019 7	**153**	3/16" (5mm), 1/4" (6mm), 5/16" (8mm), 3/8" (10mm)

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

General's Flaring Tools are essential for setting up or repairing flared tubing installations. Accurately flare copper, aluminum and thin wall tubing for leak free connections.

Each flaring tool forms 45° flares in seven popular sizes. Made of rust resistant plated steel bars. Tubing Benders will bend copper, brass, thin wall tubing, aluminum, soft wire and rods.

PLUMBING

TUBING BENDERS

- These tools eliminate crimping and collapsing of copper and other thin wall tubing. Made of oil hardened and tempered spring steel
- Our tubing bender set contains one each of the sizes listed below, packaged in a display box
- Available in individual sizes

UPC	NO.	TUBE SIZE OUTSIDE DIA.	
11009 1	S106	1/4", 5/16", 3/8", 7/16", 1/2", 5/8"	

| UPC	NO.	TUBE SIZE OUTSIDE DIA.	LENGTH
11003 9	100-1/4	1/4"	10-1/2"
11006 0	100-5/16	5/16"	10-1/2"
11018 3	100-3/8	3/8"	10-1/2"
11024 4	100-7/16	7/16"	10-3/8"
11012 1	100-1/2	1/2"	11-3/4"
11021 3	100-5/8	5/8"	11-3/4"
11015 2	100-3/4	3/4"	11-3/4"

S106
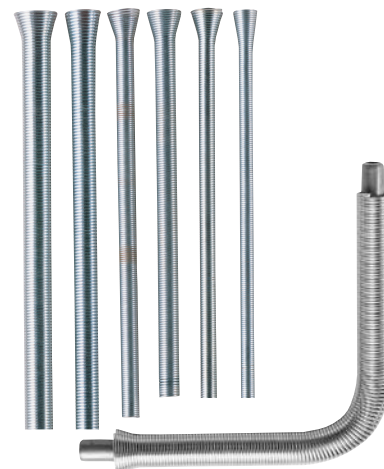
DOUBLE FLARING TOOL

- Specially designed to double flare tubing for high pressure applications in automotive, air conditioning and refrigeration
- Accurately single or double flares copper, aluminum and thin wall tubing for leak free connections
- Quick opening plated steel bars for easy insertion and removal of tubing

- Plated steel yoke and hardened steel bars for accurate flaring
- Double flare inserts are case hardened steel
- All parts have rust resistant finish
- Portable storage case

157

UPC	NO.	CAPACITY	
14015 9	157	3/16", 1/4", 5/16" 3/8", 7/16", 1/2", 5/8"	
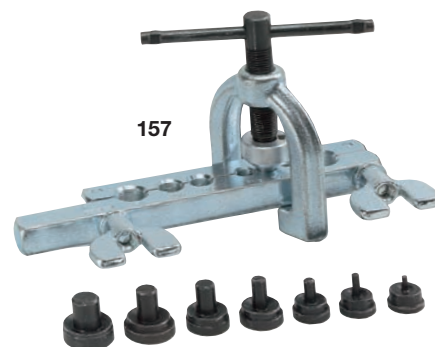
PLIER FLARING TOOL

- All-steel construction
- Freewheeling cone self centers accurately over tubing
- Quick release allows insertion and removal of tubing easily
- Quick release plier action handles hold tubing securely while flaring

- Can be used in confined areas
- Industrial quality
- Vinyl handles for greater comfort

152

UPC	NO.	CAPACITY
14022 7	152	3/16", 1/4", 5/16", 3/8",1/2", 5/8"
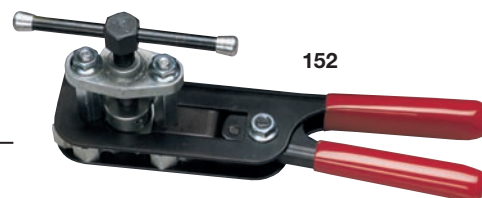
FLARING TOOLS

- High quality tool moderately priced
- Screw yoke slips quickly over bars without removing heavy-duty wing nuts
- Yokes have a freewheeling 45° plated cone for faster, smoother flaring and greater strength in flaring copper, aluminum, brass and thin wall tubing
- Large heavy-duty hardened feed thread for durability
- Long sliding T-handle provides maximum leverage

- Quick opening plated bars for easy insertion and removal of tubing
- Size individually marked on bars
- Extra long bars to fit in vice, for easier flaring
- No. 155 has a steel yoke and hardened bars
- No. 151 has a cast iron yoke

UPC	NO.	CAPACITY	
14008 1	151 (Standard)	3/16", 1/4", 5/16", 3/8", 7/16" 1/2", 5/8"	
14009 8	155 (Industrial)	3/16", 1/4", 5/16" 3/8", 7/16", 1/2", 5/8"	
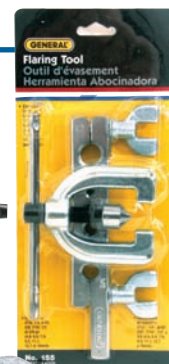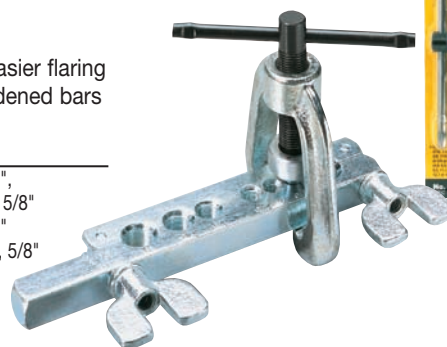
151 155

Reamers/Deburring

GENERAL®

General offers a wide selection of Reamers and Deburring Tools to plumbers, auto mechanics, steam-fitters, metal workers and mechanics. All of General's Reamers are precision hardened with ground cutting edges for durability. Reamers are used for removing burrs from cut pipe, tubing and conduit as well as for enlarging and counter-sinking holes in sheet metal, plastic and other material.

130

T-HANDLE REAMER
- Made of hardened and tempered tool steel with precision ground cutting edges
- T-handle provides leverage for easier reaming

UPC	NO.	CAPACITY
13003 7	**130**	1/8" to 1/2" (3mm – 12mm) 5-3/4" (146mm)

131

SCREWDRIVER HANDLE REAMER
- General's easy-to-use reamer is perfect for in-home plumbing
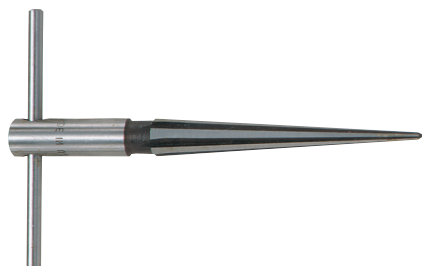- Fluted plastic handle
- Hardened and ground tempered steel

UPC	NO.	CAPACITY	LENGTH
13006 8	**131**	3/8" (10mm)	6-1/2" (165mm)

134

INNER/OUTER REAMER
- Inner/Outer Reamer will work on steel, iron, copper and PVC
- Zinc die-cast body
- Capacity 1-1/2" diameter (12.7mm)
- Grooved outer body gives you an easy grip

- Internal and external reamers are made of heat treated high carbon steel

UPC	NO.	CAPACITY
22077 6	**134**	1-1/2" (38mm)

196

HAND REAMER AND COUNTERSINK
- Handy tool for countersinking or deburring small jobs
- The 3/4" five-flute tool steel cutter makes fast work of deburring. Deburring plastic, copper, iron pipe and sheet metal

- Heavy-duty, ergonomically designed handle

UPC	NO.	CAPACITY	LENGTH
23054 6	**196**	3/4" (19mm)	5-1/8" (130mm)
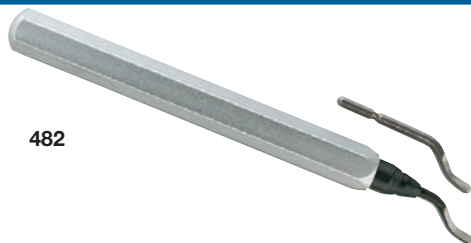
482

SWIVEL HEAD DEBURRING TOOL
- Professional quality and performance of higher price deburring tools
- Two interchangeable blades

UPC	NO.	HANDLE LENGTH
42324 5	**482**	5-1/8" (130mm)
42327 6	**482A**	Blade for steel, copper, aluminum and plastic
42330 6	**482B**	Blade for brass and cast iron.

481

DEBURRING TOOL
- Pivot blade allows easy burr removal from iron pipe, copper and PVC tubing
- Includes 1 replacement blade in storage handle
- High impact plastic for durability
- Replacement blades 482A & B are available

UPC	NO.	HANDLE LENGTH
00481 9	**481**	5" (127mm)

Toll Free 800-697-8665 • Fax 212-431-6499 • www.generaltools.com

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

Deburring/Cleaning Brushes

Deburring Tools are used for removing burrs from cut pipe, tubing, conduit and PVC tubing. Swaging Tools are an easy and economical method of joining copper tubing. The Pipe and Fitting Brushes are used for cleaning inside and outside diameters of tubing and fittings in preparation for solder when sweating pipes. By expanding the tube the need for coupling is eliminated.

PLUMBING

9-PIECE SWIVEL HEAD DEBURRING KIT

- Deburring tools are used for removing burrs from cut pipe, tubing, conduit and PVC tubing
- Spring-loaded **Speed-Chuck**™ allows blade changes instantly
- Nine interchangeable blades handle any deburring job
- Kit contains: • 1 each blade for • steel
  • aluminum • copper • plastic
  • 1 each blades for • brass
  • cast iron • plastic
  • 1 each corner edge
  • triangle
  • square flat scrapers

- Additional blade and storage in fitted zippered case
- Precision engineered 750 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
75972 6	**75409**	Zippered Case/ Boxed

75409

4-PIECE SWAGING TOOL SET

- An easy and economical method of joining copper tubing
- Eliminates the need for coupling
- Hex body prevents rolling and allows easy removal from tube
- Heat treated alloy steel, plated to prevent rust

UPC	NO.	SPECIFICATIONS
14018 0	**154ST**	Set of 4 Swaging Tools
SIZES:		
1/4", 3/8", 1/2", 5/8"		

154ST

6-IN-1 SWAGING TOOL

- Handy swaging tool expands tubing eliminating the need for couplings
- Expands 6 tubing sizes: 3/16", 1/4", 5/16", 3/8", 1/2" and 5/8" O.D. tubing
- Use with a flaring bar to hold tubing

UPC	NO.	LENGTH
01545 7	**1545**	5-1/4" (133mm)

1545

4-IN-1 PLUMBING BRUSH

- 4-IN-1 brush cleans both the inside and outside of copper tubing in preparation for solder when sweating pipes
- Cleans most popular 1/2" and 3/4" I.D. tube and 5/8" and 7/8" O.D. tube

- Hardened steel brushes and polypropylene body for strength and durability

UPC	NO.
01140 4	**114**

114

2-IN-1 PIPE AND FITTING BRUSHES

- Cleans I.D. and O.D. of tubing and fittings
- Long lasting steel bristles
- Designed for comfortable use and easy storage

UPC	NO.	CAPACITY
22075 2	**110**	1/2" (12mm)
22076 9	**111**	3/4" (19mm)

110
111

"It's Your Job . . . General Tools Make It Easier"

Cleaning Brushes are used for cleaning the inside and outside of tubing and fittings in preparation for solder when sweating pipes. Basin Wrenches, with their pivoting jaws and long handles, permits access to holding nuts behind basins. Spring-loaded jaws allow for one-handed ratcheting

PLUMBING

1133
1131
1132
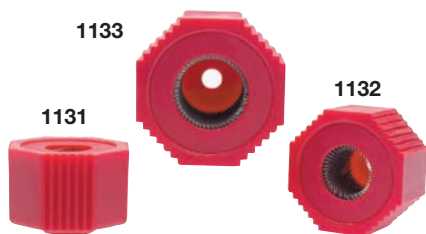
TUBE O.D. CLEANING BRUSHES
• Cleans pipe O.D. for a good solder joint
• Fluted octagon shape provides a firm hand-grip and will not roll
• Inserting tubing to the backstop insures correct cleaning length for a good solder joint
• Each brush cleans 2 tube sizes

| UPC	NO.	CAPACITY
01131 2	**1131**	3/8" I.D. - 1/2" O.D. (9 – 12mm)
01132 9	**1132**	1/2" I.D. - 5/8" O.D. (13 – 16mm)
01133 6	**1133**	3/4" I.D. - 7/8" O.D. (19 – 22mm)

1121
1122
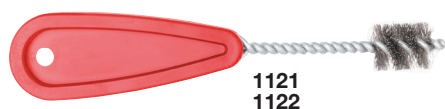
INSIDE DIAMETER FITTING AND TUBE BRUSHES
• Cleans the inside of copper fittings in preparation for solder when sweating pipes
• Two sizes 1/2" & 3/4" fits the most common copper tube fittings
• Use with General Tools No. 1132 and No. 1133 to completely clean fittings and tube inside and out

UPC	NO.	CAPACITY
01121 3	**1121**	1/2" (12mm)
01122 0	**1122**	3/4" (19mm)

1102
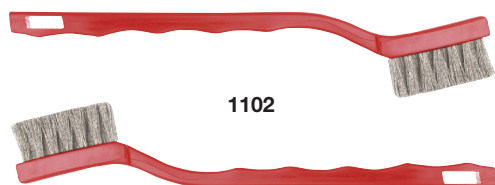
BRASS AND STAINLESS STEEL CLEANING BRUSHES
• Handy utility brushes clean pipe, battery terminals, spark plugs and more
• Brass brush is recommended for cleaning softer materials
• Steel brush provides extra abrasion needed to clean pipe

UPC	NO.	
01102 2	**1102**	(set of 2)

140
140X
140XL
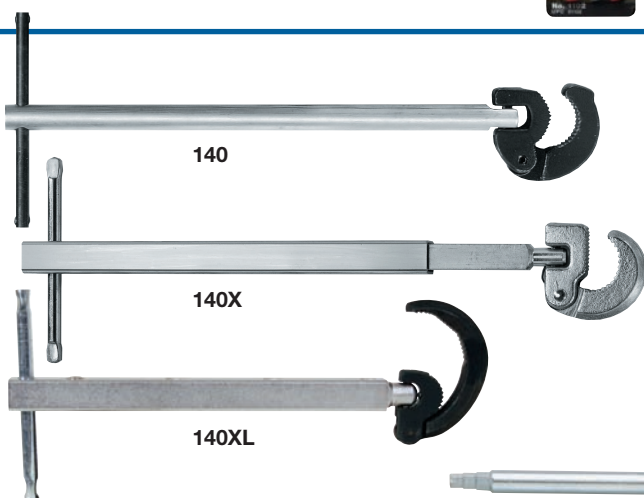
BASIN WRENCHES
• Pivoting jaws and long handle permits access to holding nuts behind basin
• Sliding T-handle for working in confined areas
• Spring loaded jaws for one-hand ratcheting
• All handles are plated to prevent rust
• 140X, 140XL extends from 11" (280mm) to 16" (400mm)
• The 140 is 11" long

UPC	NO.	CAPACITY
13019 8	**140**	3/8" - 1-1/4" (10mm - 31mm)
13033 4	**140X**	3/8" - 1-1/4" (10mm - 31mm)
01401 6	**140XL**	1" - 2" (25mm - 50mm)

138S
138T

SEAT WRENCHES
• Tapered seat wrenches for the removal of faucet seats
• Hardened alloy steel
• Plated to prevent rust

UPC	NO.	SIZE
13020 4	**138S**	.235 - .300" Stepped
13016 7	**138T**	.230 - .400" Tapered

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

PLUMBING

Internal Pipe Wrenches are used for the removal of broken thread ends of pipe, pipe plugs and fittings. The nipple extractor is used to remove broken iron pipe nipples.

General's Undersink Drain Pliers, our exclusive designed pliers, fits all sink, drain, slip, trap and compression nuts, basin and sink lock nuts.

PROFESSIONAL INTERNAL PIPE WRENCHES AND SETS
- For the removal of broken threaded ends of pipe, pipe plugs and fittings
- Hex body can be used with a wrench
- Pipe sizes are marked on each wrench
- Heat treated alloy steel, plated to prevent rust
- Size stamped on body
- Conforms to gov. spec. GGG-W643b

INDIVIDUAL SIZES

UPC	NO.	SPECIFICATIONS	LENGTH
13013 6	**139A**	3/8" (9.7mm)	3-3/4" (95.25mm)
13014 3	**139B**	1/2" (12mm)	3-3/4" (95.25mm)
13015 0	**139C**	3/4" (20mm)	3-3/4" (95.25mm)
13023 5	**139D**	1" (25mm)	3-3/4" (95.25mm)

SETS

UPC	NO.		
13017 4	**139ST**	Set of 3 Internal Pipe Wrenches (139A, 139B, 139C)	
13026 6	**139/4**	Set of 4 Internal Pipe Wrenches (139A, 139B, 139C, 139D)	

A   B   C   D

139/4

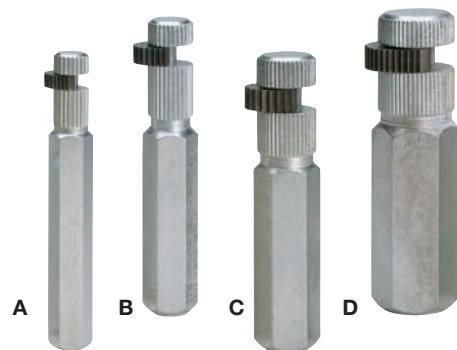## UTILITY INTERNAL PIPE WRENCHES AND SET
- For the removal of broken threaded ends of pipe, pipe plugs and fittings
- Hex body can be used with a wrench
- Pipe sizes are marked on each wrench
- Heat treated alloy steel, plated to prevent rust
- Size stamped on body

UPC	NO.	SPECIFICATIONS
01391 0	**1391**	3/8" (9.7mm)
01392 7	**1392**	1/2" (12mm)
01393 4	**1393**	3/3" (20mm)

SET

UPC	NO.	
01390 3	**1390**	3 Internal Pipe Wrenches

3/8"

1/2"

3/4"

1390

5-PIECE IRON PIPE NIPPLE EXTRACTOR SET
- Used to remove broken iron pipe nipples by tapping them snuggly into the broken pipe end; then turn counterclockwise with a wrench or socket that fits the hex end
- Fits iron pipe nipples: NPT 1/8", 1/4", 3/8", 1/2" and 3/4"
- Plated to prevent rust
- Tapered design for a snug fit and heat-treated for longer life
- Size stamped on body

UPC	NO.
01395 8	**1395**

1395

189

Removable Soft Jaw Covers

A   B

A. Fits Strainer Drain Nut Tabs
B. Fits Tabs for Plastic Traps, Slip and Compression Nuts.

UNDERSINK DRAIN PLIER
- Our exclusive designed pliers fits all sink drain, slip, trap and compression nuts, basin and sink lock nuts
- A true fits-everything drain pliers
- The 3 position slip joint allows the pliers to work on all 1-1/4", 1-1/2" and 2" plastic and metal drain systems
- Jaws expand to a huge 4" opening for large strainer nuts
- Removable rubber jaw covers to protect plated nuts or pipes from damage
- The textured handles provide a sure grip even with wet hands
- Replaces jaw wrenches, slip nut and combination wrenches
- Corrosion resistant chrome-plated
- Can be used as oil filter pliers

UPC	NO.	CAPACITY
18900 4	**189**	up to 4" (102mm) 10-1/4" (260mm)

FREE DISPLAY

HAWK™
Ratchet Action Pipe Wrench

PATENTED
Patent #7,096,764

2007
RETAILERS' Choice AWARDS

No. HWD

Long lasting, durable display can be restocked again and again! Sits on countertop or hangs on peg board.
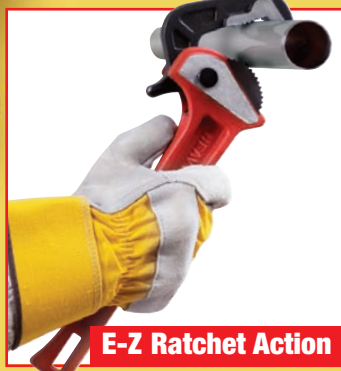
E-Z Grip　　**E-Z Ratchet Action**　　**E-Z Release**

One-Handed Operation
Ergonomic design allows one-handed fitting, adjusting, torquing and removal

Self-Adjusting
Unlike a traditional pipe wrench, the HAWK automatically adjusts to different pipe sizes

Ratchet Operation
Spring-loaded jaw enables fast ratchet action

Shut-Off Key Wrench
The handle includes a valve shut-off key wrench

Patented 3-Point Jaw Grip
The patented 3-Point jaw design provides an extra-strong grip for increased torque

Quick Release
To disengage the HAWK, simply pull back on the convenient thumb trigger

GENERAL®

Order Hawk Wrenches Individually

Item No.	UPC 0 38728	Wrench Size	Capacity Normal Pipe Diameter	Max Open Width Outside Pipe Diameter	Suit Max. Pipe Size Inch-BS Std Nominal Bore
1471	01471 9	10" / 250mm	1-1/2" - 40mm	1.77" - 45mm	1-1/4"
1472	01472 6	14" / 350mm	2" - 50mm	2.16" - 55mm	1-1/2"
1473	01473 3	18" / 450mm	2-1/2" - 65mm	2.55" - 65mm	2"

![GENERAL®]

Plumbing Pliers, which have chrome plated forged steel jaws, provide ample capacity for most pipes, nipples and fittings up to 2". Both pliers have removable jaw covers to protect plated nuts or pipes from damage. Pipe Wrenches have forged and ground jaws which provide ample capacity for most pipes, nipples and fittings up to 3". Both pipe wrenches have long handles for extra leverage and torquing.

PLUMBING

ALUMINUM PIPE WRENCHES
- Professional quality
- Forged and ground jaws
- Almost half the weight of iron wrenches
- Hang hole in handle

UPC	NO.	SIZE	CAPACITY
01482 5	**1482**	14" (350mm)	2" (50mm)
01483 2	**1483**	18" (450mm)	2-1/2" (65mm)
01484 9	**1484**	24" (600mm)	3" (80mm)

1483

1483 Shown

IRON PIPE WRENCHES
- Professional quality
- Forged and ground jaws
- Hang hole in handle

UPC	NO.	SIZE	CAPACITY
01491 7	**1491**	10" (250mm)	1-1/2" (38mm)
01492 4	**1492**	14" (350mm)	2" (50mm)
01493 1	**1493**	18" (450mm)	2-1/2" (65mm)
01494 8	**1494**	24" (600mm)	3" (80mm)

1493

1493 Shown

SOFT JAW PLUMBING PLIER
- Adjustable forged pliers with removable protective soft grip jaws
- Remove soft jaws for standard work
- Textured cushion grips provide a sure grip even with wet hands
- Includes a spare set of soft jaws
- Durable chrome plated forged steel jaws provide ample capacity for most pipes, nipples and fittings up to 2"
- 10" overall length provides extra torque

UPC	NO.	CAPACITY	LENGTH
01590 7	**159**	2" (50mm)	10" (254mm)

159

Removable Soft Jaw Covers

STRAINER LOCK NUT WRENCH
- Adjustable jaw wrench is used to install or remove all strainer basket lock nuts
- Extra long comfort grip handle allows access to lock nuts other wrenches can't reach
- Non-rusting finish
- Use with Model No. 183, Basket Strainer Wrench, to prevent slipping

UPC	NO.	LENGTH
01860 1	**186**	12" (300mm)

186

PLUMBING

General's Stub Wrench removes PVC and CPVC broken plastic plumbing pipes and garden sprinkler risers. The adjustable wrench's jaws have a cutout for convenient locknut installation. The spud wrench removes stubborn slip nuts, locknuts and spuds in tight places. The tub drain remover is used to install or remove tub drains with or without crossbars. Tap in for a snug fit then turn with a wrench or screwdriver.

193

PLUG WRENCH
- Holds pop-up plugs and basket strainers in position
- Prevents rotation of basket strainers during installation
- Zinc plated to prevent rust

UPC	NO.
22157 5	**193**

190

ADJUSTABLE WRENCH
- Jaws have a cutout for convenient locknut installation
- Fits spudnuts, slip and locknuts and basket strainer nuts
- Adjusts from 1" to 3" (25-75mm)
- Zinc plated to prevent rust

UPC	NO.	LENGTH
22155 1	**190**	10-1/4" (260mm)

191

SPUD WRENCH
- Even in tight spaces, stubborn slip nuts, locknuts and spuds are no match for this tool
- Handles three sizes of hex nuts: 1-3/4" (45mm), 2" (51mm) , 2-1/2" (64mm)
- 1/2" lug turn and pivot hook

- Stamped steel construction
- Nickel plated to prevent rust

UPC	NO.	LENGTH
22156 8	**191**	9-3/8" (238mm)
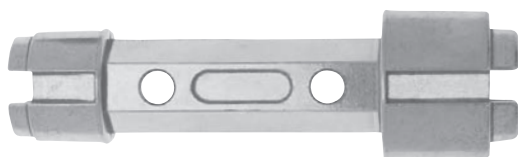
185

TUB DRAIN REMOVER
- Used to install or remove tub drains with or without crossbars. Tap in for a snug fit then turn with a wrench or large screwdriver
- Double ended to fit most tub drains
- Durable cast construction

UPC	NO.
01850 2	**185**

6" (152mm)

1-1/4" (32mm)

1-3/8" (35mm)
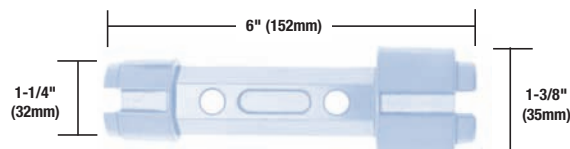
183

DOUBLE ENDED BASKET STRAINER WRENCH
- Holds strainer in position for easy installation while tightening the locking nut
- Sliding handle provides a secure grip and needed torque
- Two sizes to fit most basket strainers
- Plated steel prevents rust

UPC	NO.
01830 4	**183**

4" (102mm)

ALWAYS WEAR
OSHA APPROVED
SAFETY GOGGLES

The Garbage Disposal Wrench safely dislodges garbage disposal shredder plate jams. The Faucet Handle Puller can remove large or small faucet handles with ease. The Shower Valve Wrench now has a longer body length for access to recessed valve stems in tile covered walls. The Stub Wrench removes PVC and CPVC broken plastic plumbing pipes and garden sprinkler risers.

SHOWER VALVE WRENCHES

- Five-piece set comes with five double end wrenches, bar handle and a bar wire holder for easy storage
- Sizes: 21/32 x 27/32; 29/32 x 31/32; 1-1/32 x 1-3/32; 1-5/32 x 1-9/32; 1-11/32 x 1-7/16
- Longer length for access to recessed valve stems in tile covered walls

UPC	NO.	TYPE	SIZES
22161 2	**188**	(Five piece set)	21/32" x 1-7/16"
01881 6	**1881**	Individual	21/32" x 27/32"
01882 3	**1882**	Individual	29/32" x 31/32"
01883 0	**1883**	Individual	1-1/32" x 1-3/32"

188

STUB WRENCH

- Removes PVC and CPVC broken plastic plumbing and garden sprinkler risers
- Serrated and tapered jaws are tapped into the riser for a tight fit for easy extraction
- Comfort grip T-handle for added torque

UPC	NO.	SIZES	LENGTH
01399 6	**1399**	1/2", 3/4" (12, 20mm)	7-3/4" (197mm)

1399
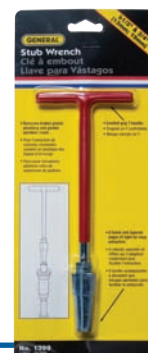
GARBAGE DISPOSAL WRENCH

- This universal wrench safely dislodges garbage disposal shredder plate jams
- Swivel head design provides easy position on the shredder plate
- The large flat surface cushion grip handle provides a comfortable grip

UPC	NO.	LENGTH
01920 2	**192**	11.5" (292mm)
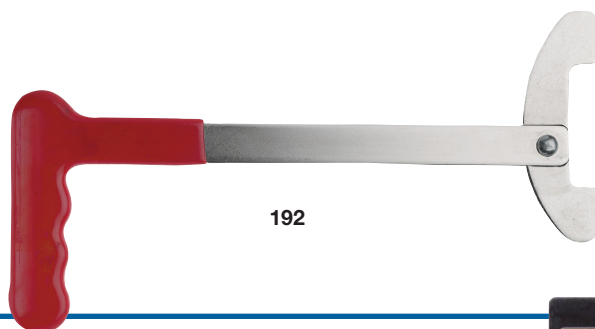
192

FAUCET HANDLE PULLER

- Removes large and small faucet handles with ease
- Two adjustable fingers 4 inches long for a more secure grip

UPC	NO.
22158 2	**180**
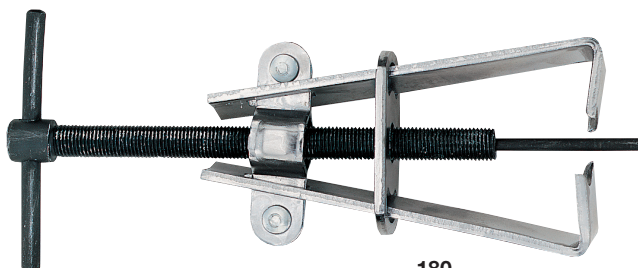
180

4-WAY FAUCET WRENCH

- One tool does the work of four individual wrenches
- Sizes: 1/4", 9/32", 5/16", 11/32" internal square
- Fits stopcocks, sillcocks and valves
- Heat treated steel for greater strength

UPC	NO.
22159 9	**182**

182

"It's Your Job . . . General Tools Make It Easier"
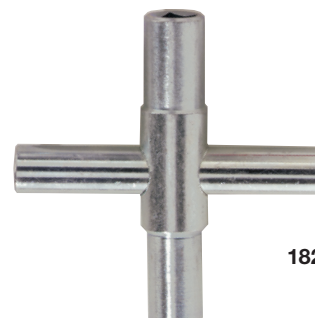
GENERAL®

Strap Wrenches provide a non-marring, slip-resistant grip. These wrenches are ideal for working on decorative finishes or irregular shapes.

The Mini-Drain Snake will clean out most problems of blocking sinks, bathtubs or toilets within 2 feet of the openings.
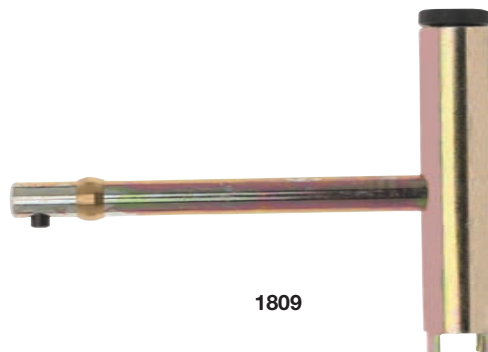
1809

STEM AND CARTRIDGE PULLER
- Works on plastic and brass cartridge stems for faucets, tubs and shower valves
- For easy removal of Moen® style single lever faucet stem and cartridge and other plastic and cartridge sleeve
- Works on plastic and brass faucets and shower valves

UPC	NO.
01809 0	1809

1566

RUBBER STRAP WRENCH
- Fits any shape
- Rubber strap for a non-marring, slip resistant grip
- Tough thin strap works in tight spaces
- Holds, loosens or tightens

UPC	NO.	CAPACITY
01566 2	1566	6" O.D. (152mm)
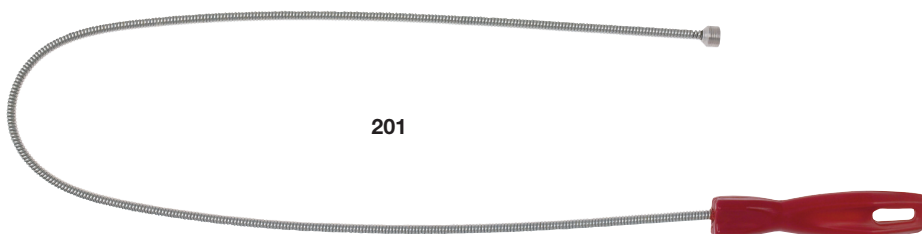
201

MINI-DRAIN SNAKE
- The Mini Snake will clean out most problems of blocked sinks, bathtubs or toilets within 2 feet of the opening
- The sharp ended scraper will cut through most debris in openings 1/2" or larger
- The flexible rod conforms to drain pipe without binding
- The rod is plated to prevent rust and last for years
- Useful for central vacuum clogs

UPC	NO.	LENGTH
00201 3	201	24" (600mm)

ALWAYS WEAR
OSHA APPROVED
SAFETY GOGGLES

Builder's Tools/Woodworking

Drill
  Accessories
Circle
  Cutters
Countersinks
Drill
  Bits
Gages
Layout
  Tools
Compasses
Calipers
Squares
Trammels
Scratch
  Awls
Moisture
  Meters

GENERAL®

E·Z Pro WOOD JOINING

ALWAYS WEAR
OSHA APPROVED
SAFETY GOGGLES

GENERAL®

General's NEW Wood Joining Program features all the necessary pieces for . . . WOOD JOINING! Included in this program are: Fluted Dowel Pins, Dowel Plugs, Shaker Pegs, Biscuits and Pocket Hole Accessories.

All of these items are used to create panels in the creation of furniture, cabinets, trim, crafts and much more. Also included in this program are the wood joining jigs, screws and drill bits.

Wood Joining Product Line — D34WJ

General Mfg UPC #038728
†General Mfg UPC #708200

UPC	NO.	DESCRIPTION	UPC	NO.	DESCRIPTION
†00031 7	841	E-Z Pro™ Doweling Jig Kit (1)	02112 0	314038	3/8" Round Head Plugs, Oak (3)
†00001 0	846	E-Z Pro™ Jointer Clamp Kit (1)	02116 8	316038	3/8" Round Head Plugs, Birch (3)
†00051 5	849	E-Z Pro™ Pocket Hole Jig Kit (1)	02117 5	316012	1/2" Round Head Plugs, Birch (3)
02124 3	860	E-Z Pro™ Dovetail Jig Kit (1)	02118 2	317000	Shaker Pegs (3)
02101 4	840014	1/4" Fluted Dowel Pins (3)	02119 9	841014	1/4" Dowel Accessory Kit (2)
02102 1	840516	5/16" Fluted Dowel Pins (3)	02120 5	841516	5/16" Dowel Accessory Kit (2)
02103 8	840038	3/8" Fluted Dowel Pins (3)	02121 2	841038	3/8" Dowel Accessory Kit (2)
02104 5	840012	1/2" Fluted Dowel Pins (3)	08401 9	8401	Dowel Accessory Kit (2)
02109 0	313038	3/8" Flat Head Plugs, Oak (3)	02123 6	8495	Pocket Hole Plugs, Birch (3)
02110 6	313012	1/2" Flat Head Plugs, Oak (3)	08497 2	8497	Pocket Hole Screws, Coarse (2)
02113 7	315516	5/16" Flat Head Plugs, Birch (3)	08498 9	8498	Pocket Hole Screws, Fine (2)
02114 4	315038	3/8" Flat Head Plugs, Birch (3)	02122 9	8492	2 Square Drive Bits (2)
02115 1	315012	1/2" Flat Head Plugs, Birch (3)	†00052 2	32	Step Drill Bit (2)
02105 2	311038	3/8" Button Plugs, Oak (3)	23096 6	S838	6 Pc Drill Stop Set (2)
02106 9	311012	1/2" Button Plugs, Oak (3)	23041 6	34ST	4 Pc Pilot Drill Set (2)
02107 6	312038	3/8" Button Plugs, Birch (3)	23024 9	31A	3/8" Plug Cutter (2)
02108 3	312012	1/2" Button Plugs, Birch (3)	23036 2	S31	3 Pc Plug Cutter Set (2)

Size: 28 x 40 (Quantity indicated in parenthesis)

All wood pieces in our program are manufactured in accordance with certification by the FSC (Forest Stewardship Council). The goal of the FSC (Forest Stewardship Council) is *to promote environmentally responsible, socially beneficial and economically viable management of the world's forests.*

FLUTED DOWEL PINS & DOWEL ACCESSORY KITS	DOWEL PLUGS	SHAKER PEGS	BISCUITS	POCKET HOLE ACCESSORIES

Used for: Wood joinery (furniture, cabinets, trim, crafts).
Fluted design offers quick glue dispersion and increases bonding strength.

Dowel Accessory Kits: Available for 1/4", 5/16" and 3/8" doweling projects and include dowels, drill bit, drill stop and center point.
E•Z Dowel Kit No. 8401 Includes: 1/4", 5/16" and 5/8" dowels, drill bits, drill stops and center points.

Used for: Covering screws for a finished appearance.
Available in 3 styles:
• Button, Round and Flat in 2 finishes: Birch and Oak

Used for: Coat and Hat Racks, Crafts and Decorations. Shaker Pegs can be painted or stained.

Used for: Wood Joinery with Biscuit Joiners. Great for furniture, cabinets and trim. Biscuits soak up water-based glue for a tighter wood joint.
No. 318000 – size #0
No. 318010 – size #10
No. 318020 – size #20
No. 318050 – size FF

Used for: Making pocket hole joints.
• Step drill
• Square drive bits
• Plugs and screws

"It's Your Job . . . General Tools Make It Easier"

WOODWORKING

General's NEW Wood Joining Program features all the necessary pieces for . . . WOOD JOINING! Included in this program are: Fluted Dowel Pins, Dowel Plugs, Shaker Pegs, Biscuits and Pocket Hole Accessories.

All of these items are used to create panels in the creation of furniture, cabinets, trim, crafts and much more. Also included in this program are the wood joining jigs, screws and drill bits.

Wood Joining Planogram (small) D21WJ

UPC	NO.	DESCRIPTION
†00031 7	**841**	E-Z Pro™ Doweling Jig Kit (1)
†00051 5	**849**	E-Z Pro™ Pocket Hole Jig Kit (1)
02124 3	**860**	E-Z Pro™ Dovetail Jig Kit (1)
02101 4	**840014**	1/4" Fluted Dowel Pins (3)
02102 1	**840516**	5/16" Fluted Dowel Pins (3)
02103 8	**840038**	3/8" Fluted Dowel Pins (3)
02109 0	**313038**	3/8" Flat Head Plugs, Oak (3)
02110 6	**313012**	1/2" Flat Head Plugs, Oak (3)
02113 7	**315516**	5/16" Flat Head Plugs, Birch (3)
02114 4	**315038**	3/8" Flat Head Plugs, Birch (3)
02115 1	**315012**	1/2" Flat Head Plugs, Birch (3)
02105 2	**311038**	3/8" Button Plugs, Oak (3)
02106 9	**311012**	1/2" Button Plugs, Oak (3)
02107 6	**312038**	3/8" Button Plugs, Birch (3)
02108 3	**312012**	1/2" Button Plugs, Oak (3)
02112 0	**314038**	3/8" Round Head Plugs, Oak (3)
02116 8	**316038**	3/8" Round Head Plugs, Birch (3)
02117 5	**316012**	1/2" Round Head Plugs, Birch (3)
02118 2	**317000**	Shaker Pegs (3)
08497 2	**8497**	Pocket Hole Screws, Coarse (2)
†00052 2	**32**	Step Drill Bit (2)

Size: 28 x 22 (Quantity indicated in parenthesis)

THE DOVETAILER™
DOVETAIL JIG

E•Z Pro™ DOVETAIL JIG KIT

With the Dovetailer™ and your router, you can cut Professional Dovetail Joints, Simply and Accurately . . . Right Out Of The Box!

- Self-aligning design ensures that both ends of the dovetail joint match up evenly every time
- Portable to your work site or work area
- Sturdy machined aluminum construction
- Easily adjust the dovetail interference to create loose or tight joints
- No need to bolt the jig onto workbench like many other expensive Dovetail Jigs

- You bring the jig to the work piece, not the work piece to the jig
- Integrated clamps allow precise clamping of jig to work piece
- Accommodates boards of any widths
- Includes: 1/2" Dovetail Router bit, User's Manual

UPC	NO.
02124 3	**860**
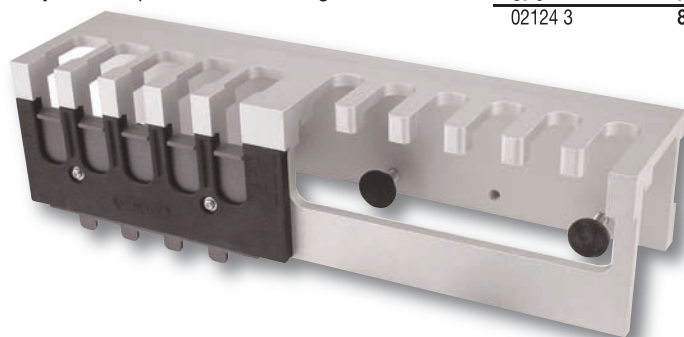
"The Easy Way to Make Professional Furniture Joints"

Patent Pending   860

GENERAL®

E•Z Pro™

THE DOVETAILER™
DOVETAIL JIG

Cut Dovetail Joints with Your Router!

No. 860

CAN BE USED WITH ALL HANDHELD ROUTERS AND ALL ROUTER TABLES

With THE DOVETAILER™ Jig and your router, you can cut professional Through or Half Blind Dovetail Joints, simply and accurately . . . **Right Out of the Box!**

- Accommodates boards of any width
- Includes 1/2" Dovetail Router Bit, Instructional CD and User's Manual

1/2" Dovetail Router Bit included

Cuts Through Joints

Cuts Half-Blind Joints

EASY TO USE FOR THE BEGINNER AND THE PROFESSIONAL

- Self-aligning design ensures that both ends of the dovetail joint match up evenly every time
- Portable to your work site or work area
- Sturdy machined aluminum construction

- Easily adjust the dovetail interference to create loose or tight joints
- No need to bolt the jig onto workbench like many other expensive Dovetail Jigs
- You bring the jig to the work piece, not the work piece to the jig
- Integrated clamps allow precise clamping of jig to work piece
- Can be used with all handheld Routers or Router Tables

The Easy Way to Make Professional Furniture Joints

GENERAL®
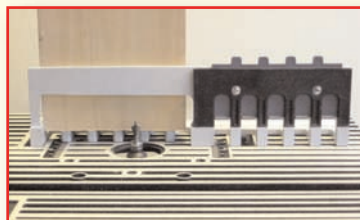
Patent Pending

WOODWORKING

Pocket-Hole Joints are sturdy and simple to make with a driving jig. By drilling steeply pitched counter bores in one joint member, you can drive self-tapping screws into the other without pilot holes. Ideal for leg and rail connections and cabinet construction.

AWARD WINNER
Popular Mechanics
EDITOR'S CHOICE AWARD 2007

849

E•Z Pro™ POCKET HOLE JIG KIT

- Pocket hole joints are sturdy and simple to make with a drilling jig
- By drilling steeply pitched counterbores in one joint member, you can drive self-tapping screws into the other without pilot holes
- The joints are ideal for leg-and-rail connections, cabinet construction, sneaking screws into tight-squeeze spots or fastening picture frame miters
- Heavy-duty aluminum extrusion and hardened steel frill bushings

- Built to be portable or bench mounted and designed with a clamping system built in
- Kit includes: 1 Pocket Hole Jig with Clamps; 3/8" Step Drill Bit; 1 3/8" Drill Stop and Hex Wrench; 6" Steel Square Drive Bit; Square Drive Screws, Instructions

UPC	NO.
708200000515	**849**

Patent No. 6,254,320

Photos property of Woodworker's Journal

E•Z™ STEP DRILL BIT

- Replacement bit for General's E•Z Pocket Hole Jig Kit (No. 849)
- 3/8" x 6" (9.5 x 152mm) step drill bit
- High speed steel

- Ideal for creating pocket hole joints and counter-boring
- Includes 3/8" (9.5mm) steel drill stops with hex wrench

UPC	NO.
70820000052 2	**32**

32

POCKET HOLE SCREWS

- Self-tapping
- Use a coarse thread screw in soft material
- Use a fine thread screw in hardwoods
- Nickel-plated
- Pan Head
- Size: 1-1/4"

UPC	NO.	Thread	Count/pkg
08497 2	**8497**	Coarse	100
08498 9	**8498**	Fine	100

No. 8497 shown
actual size of 1-1/4"

8497

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

General Tools now offers replacement and accessory parts for their new line of Drill and Wood Joining Jigs. The No. 32 Replacement Step Drill Bit is used with the No. 849 Pocket Hole Jig. No. 8401, Dowel Accessory Kit, can be used for both the No. 840 and No. 841 doweling jigs. No's. 8497 and 8498 are Pocket Hole Screws used specifically for pocket hole wood joinery. Offered in both fine and coarse thread.

E•Z Pro™ DOWELING JIG KIT

- Dowels add mechanical strength to butt joints and keep miters lined up during clamping
- The pointed notches on the working edges of our jig centers the drill bit automatically for precise registration
- Indicate a thin layout mark across the joint where you want the dowel to be and registering the drill bit is easy

- Create 3 types of dowel joints: Edge to edge, right angle, edge to surface, as well as 3 sizes of dowel joints; 1/4", 5/16" and 3/8"
- Ideal for 5/8", 3/4" and 1" thick stock
- Kit includes: 1 Dowel Jig; 3 Brad Point Drill Bits; 1/4", 5/16", 3/8"; 3 steel stops 1/4", 5/16" and 3/8" with Hex Wrench, 6 Dowel Center Points; 2 each of 1/4", 5/16" 3/8", supply of wood dowels, Instructions

UPC	NO.
708200000317	**841**

Patent No. 7,001,118

Photos property of Woodworker's Journal
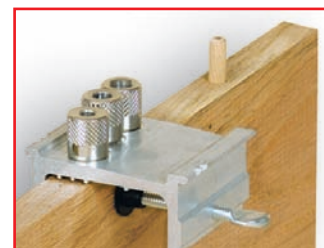
841

E•Z™ DOWEL ACCESSORY KIT

- Replacement bit for General's E•Z Pocket Hole Jig Kit (No. 849)
- Accessories Kit for General's Pro Doweling Kit (No. 840) and E•Z Dowel Kit (No. 841)
- For 1/4", 5/16", 3/8"
- Kit includes
  3 Brad Point Drill Bits 1/4", 5/16", 3/8",
  6 Dowel and Tenon Centers from 3/16" ID to 1/2" OD,
  3 Drill Stops 1/4", 5/16", 3/8",
  30 Dowel Pins, 10 each 1/4", 5/16", 3/8" hex wrench

UPC	NO.	
08401 9	**8401**	
02101 4	**840014**	1/4" Fluted Dowel Pins
02102 1	**840516**	5/16" Fluted Dowel Pins
02103 8	**840038**	3/8" Fluted Dowel Pins

8401

General Tools now offers replacement and accessory parts for their new line of Drill and Wood Joining Jigs. The No. 32 Replacement Step Drill Bit is used with the No. 849 Pocket Hole Jig. No. 8401, Dowel Accessory Kit, can be used for both the No. 840 and No. 841 doweling jigs. No's. 8497 and 8498 are Pocket Hole Screws used specifically for pocket hole wood joinery. Offered in both fine and coarse thread.

WOODWORKING

846

New Swing Arm

E•Z Pro™ TRU-EDGER™ JOINTER CLAMP

- The long awaited alternative to expensive jointers!
- Straight line rip crooked boards on your table saw
- Just mount the clamps to a guide board to create a flat reference edge
- The guide board can be made from any straight edged scrap
- Clamp the stock to the guide board and make your rip cut
- Get a dead-flat edge every time, with no extra waste
- The jointer clamps work on any length stock up to 2" thick
- Instructions included

UPC	NO.	Capacity
708200000010	**846**	2" stock

Photos property of Woodworker's Journal

Patent No. 7,000,519

DOWEL PINS

- General's dowel centers are the quickest and most accurate method to locate, transfer and match dowel holes
- Made of nickel plated steel

- Set includes 8 pcs., two of each size: 1/4", 5/16", 3/8", 1/2" diameter

UPC	NO.	
25099 5	**888**	Dowel centers

888

DRILL STOP SET

- For use on twist or brad point drills to prevent excessive drill penetration
- Positive depth control assures exact hole depths for multiple drilling jobs
- Black oxide finish on cold rolled steel

- Includes hex wrench

UPC	NO.	SIZEs INCLUDED
23096 6	**S838**	3/16" dia.,1/4" dia., 5/16" dia., 3/8" dia., 7/16" dia., 1/2" dia.

S838

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

General's Doweling Jig is a precision jig that assures the accurate line-up of dowel holes in furniture and carpentry. Simply clamp the jig onto your workpiece to quickly and accurately drill holes for dowel pins requiring exact alignment in the edge, end or surface of your work. General's Drill Grinding Attachment is engineered to permit the sharpening of drill bits to factory accuracy.

PRO DOWELING KIT

- A precision jig that assures accurate line up of dowel holes in furniture and carpentry
- Revolving turret has six twist drill sizes
- Just lift and turn turret to lock in guide hole
- Black oxide guide bars are graduated for fast positioning of hole center points
- Clamp screw locks tool onto work from 0" to 4" in width
- Hardened sintered turret for durability
- Package Contents: 1 Doweling Jig; 3 Brad Point Drill Bits, 1/4", 5/16", 3/8"; Dowel and Tenon Centers Set from 3/16" ID to 1/2" OD; 3 Drill Stops, 1/4", 5/16", 3/8"; 30 Dowel Pins, 10 Each 1/4", 5/16", 3/8"; Wood Glue
- Instructions included

UPC	NO.	CAPACITY
24120 7	**840**	3/16", 1/4", 5/16", 3/8", 7/16", 1/2"

840
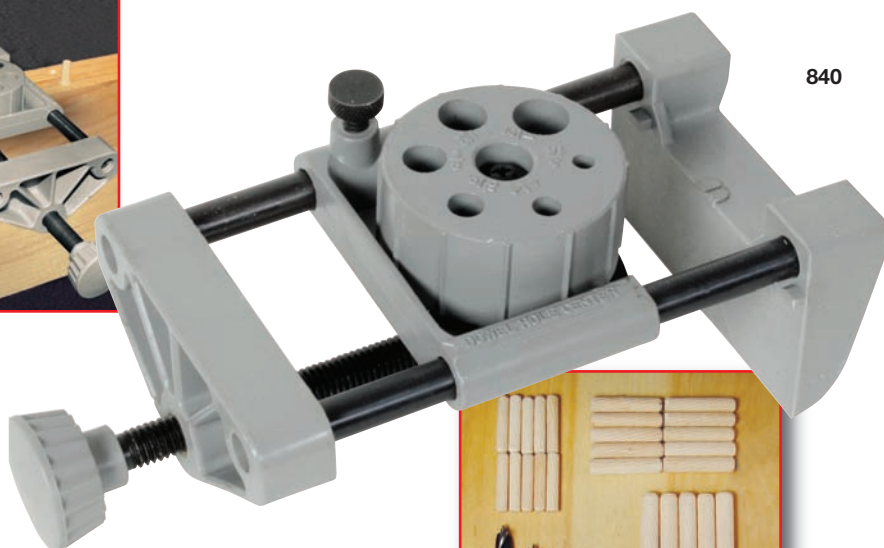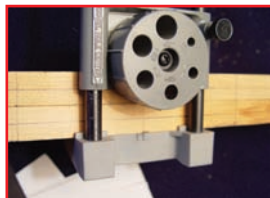
"ORIGINAL" DRILL GRINDING ATTACHMENT

- Engineered to permit sharpening of drill bits to factory accuracy
- Extends the life of drill bits
- Angle adjustments lock in to grind drill bits for more accurate drilling in a variety of materials
- Automatically adjusts to give correct clearance angle
- For use with ANSI, OSHA, and UL approved standard electric bench grinders or surface grinders
- Equally at home in machine shop and home workshop
- Instructions included

UPC	NO.	CAPACITY
24070 5	**825**	Fractional drills 1/8" to 3/4", Number size drills 30 to 1 Letter size drills A to Z, Millimeter size drills 3.0 to 19.0

825

WOODWORKING

*"It's Your Job . . . General Tools Make It Easier"*

General's Drill Accessories are engineered to do precision work in the many specialized drilling and cutting operations required for fine carpentry and metal working.

They expand the capabilities of portable electric drills, drill presses, drill stands, bit braces and hand drills. Our Drill Accessories are built for precision and durability.

WOODWORKING

PRECISION DRILL GUIDE

- Attaches to all 3/8" and 1/2" power drills
- Cross slide lock for accurate shaping and carving
- 3/8" capacity drill chuck with key
- Positive stop for accurate drill depth control
- Dual locking knob and handle holds precise angle setting
- Folds flat for tool box storage
- Easy-to-read protractor scale has 5° graduations (0° - 45° left or right)
- V-guides automatically center round stock for drilling
- Self centering channel for edge drilling

UPC	NO.	
23059 1	**36/37**	Complete set

45°–0°   0°–45°

36/37

ACCUDRILL™

RIGHT ANGLE DRIVE

924
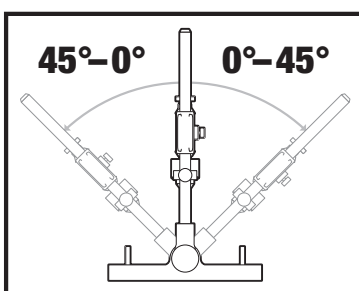
- Our Right Angle Drive reaches awkward corners and difficult angles easily; ideal for any close quarter drilling
- Designed for use with portable electric drills, sanding or buffing attachments and other drill accessories
- Plastic handle attaches for right or left-hand use

- Designed for long life, the drive body is strong die-cast zinc, with permanently lubricated steel gears
- 24-thread, 3/8" spindle has 3/8" drill chuck adapter
- Chucks not included

UPC	NO.
25115 2	**924**

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

General's Circle Cutters produce precision circles in sheet metal, brass, copper, soft steel, aluminum, plastic, wood and composition materials. Bodies are constructed of heat treated tool steel for durability.

The replaceable cutter blades are made of high-speed steel for precise and clean cuts. Circle Cutters are adjustable for cutting various diameter holes. A hex wrench is included for adjustments.

4" MAX CIRCLE CUTTER

- Round shank circle cutter
- Replaceable high-speed steel cutting blade and replaceable 1/4" pilot drill
- All adjustments are made with a hex wrench which is included
- **Maximum safe speed is 500 RPM**
- **For use with drill press only**

UPC	NO.	CAPACITY	SHANK
21003 6	**04**	7/8" to 4"	3/8" Round
27006 1	**4 Drill**		
27003 0	**4/5 Blade**		
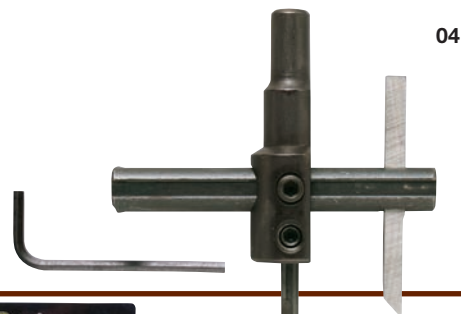
04

WHEEL AND CIRCLE CUTTER

- General's Wheel and Circle Cutter is the only one that cuts the exact diameter you need anywhere from 1" to 6" (26 to 152mm)
- Ideal for woodworkers, model builders, clockmakers, and hobbyists
- Produces precision circles and holes in sheet metal, brass, copper, aluminum, plastic, wood, and composition materials
- Change from circle to wheel cutting by simply reversing the double ended blade
- Sturdy round shank for use in any drill press or drill stand with 3/8" chuck

- Replaceable double ended 9/32" cutter blade is made of high-speed steel for precise clean cuts
- All adjustments are made with a hex wrench which is included
- **Maximum safe speed is 500 RPM**
- **For use with drill press only**

| UPC	NO.	CAPACITY	SHANK
21010 4	**06**	1" to 6"	3/8" Round
21014 2	**5/6/55 Drill**		
21013 5	**6 Blade**		

06

6" MAX CIRCLE CUTTER

- Has been a General Tools customer favorite for more than 30 years
- Adjusts from 1" to 6" (26 to 152mm) diameter circles
- Replaceable high-speed steel blade and replaceable 1/4" pilot drill
- All adjustments are made with a hex wrench which is included
- **Maximum safe speed is 500 RPM**
- **For use with drill press only**

UPC	NO.	CAPACITY	SHANK
21009 8	**5B**	1" to 6"	3/8" Round
21014 2	**5/6/55 Drill**		
27003 0	**4/5 Blade**		
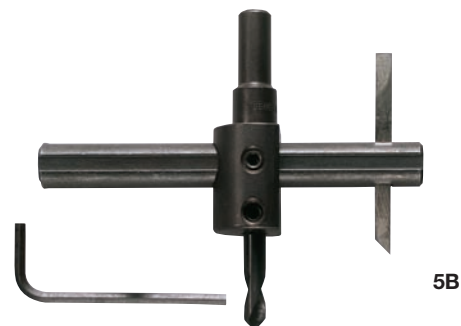
5B

HEAVY-DUTY CIRCLE CUTTER

- General's industrial quality cutter is most preferred by professionals
- 1/2" round shank for drill press use
- Replaceable high-speed tool steel blade and replaceable 1/4" pilot drill
- Markings on beam for easy measurement

- All adjustments are made with a hex wrench which is included
- **Maximum safe speed is 500 RPM**
- **For use with drill press only**

UPC	NO.	CAPACITY	SHANK
21012 8	**55**	1-3/4" to 7-7/8"	1/2" Round
21014 2	**5/6/55 Drill**		
27015 3	**55 Blade**		
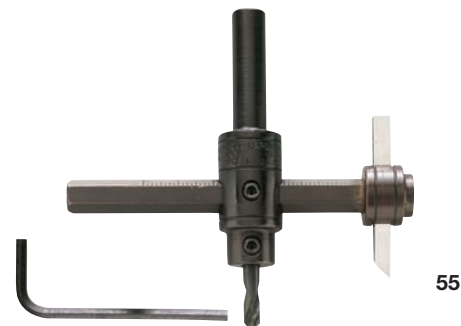
55

WASHER AND GASKET CUTTER

- This tool cuts washers and gaskets in leather, rubber, cork, graphite, fiber, copper and other soft materials
- Combination round and square shank permits use with bit brace or hand drill
- Made of steel with graduated beam to adjust to diameters from 5/8" to 6-1/2" (16 to 165mm)
- Replaceable tool steel Cutter Blades No. 11B

- Two independently adjustable cutter blades cut inside and outside diameters simultaneously
- **Maximum safe speed is 100 RPM**
- **For hand powered drill only**

UPC	NO.	CAPACITY
21024 1	**11**	5/8" to 6-1/2"
27024 5	**11B**	Replacement blades (Pair)

11

"It's Your Job . . . General Tools Make It Easier"

Pilot Bits drill, countersink and counterbore precision screw holes in a single operation. Self-Centering Hinge Bits drill highly accurate pilot holes in cabinet and door hinges.

Plug Cutters cut plugs for covering screw holes for decking, flooring and other fine woodworking projects.
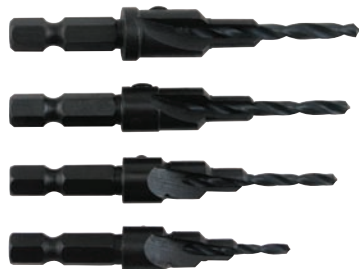
WOODWORKING
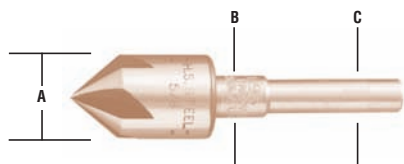
5 FLUTE ROSE PATTERN COUNTERSINKS

195-1/2

195-5/8

195-3/4

- The rose pattern cutting flutes assure chatter free countersinking on steel, brass, aluminum, plastic, wood & other materials
- Made of high-speed steel with five flutes
- 82° point angle
- Stepped shank for use with 1/4" and 3/8" chucks

UPC	NO.	A	B	C
23047 8	**195-1/2**	1/2"	3/8"	1/4"
23053 9	**195-5/8**	5/8"	3/8"	1/4"
23050 8	**195-3/4**	3/4"	3/8"	1/4"

ADJUSTABLE PILOT BITS

34ST

- Drill, countersink and counterbore precision screw holes in a single operation when doing fine carpentry and woodworking
- Hardened high-speed pilot bits give long life
- Black oxide finish deters rust

- 1/4" hex shanks prevents slippage in electric drills and can be used in power screwdrivers
- Adjustable drill and high performance angle on countersink

UPC	NO.	SCREW SIZES
23041 6	**34ST**	Set of 4 Pilot Bits (Sizes 5 – 14)

SELF-CENTERING HINGE BITS

291

292

293

- Highly accurate bits are used for drilling pilot holes in cabinet and door hinges, door butts and all large and small hardware

- Spring loaded outer guide keeps the high speed drill centered for perfect pilot holes
- Adjustable drill depth

UPC	NO.	Drill Size	drill depth	Screw Size
22154 4	**291**	5/64"	1/8"	3 & 4 screw size
22149 0	**292**	7/64"	7/32"	5 & 6 screw size
22150 6	**293**	9/64"	5/16"	8 & 10 screw size

PLUG CUTTERS

31A   **31B**   **31C**

- General's Plug Cutters produce accurate plugs for covering screw holes in decking, flooring and other woodworking projects
- Permits choice of matching or contrasting plugs for decorative effect
- Engineered to start cutting plugs easily with hand-held drills or drill press
- Cutter will produce and eject straight plugs from stock up to 3/4" thickness
- Made of hardened alloy steel

- Individual sizes:

UPC	NO.	Shank	Dia.
23024 9	**31A**	3/8"	3/8" dia.
23030 0	**31B**	3/8"	1/2" dia.
23033 1	**31C**	3/8"	5/8" dia.

- Set of 3 Diameters - 1/4", 3/8", 1/2":

UPC	NO.	Shank
23036 2	**S31**	3/8"

JIFFY CENTERING PUNCH

806

- For quickly starting screw holes when attaching countersunk hardware such as hinges, hasps, hangers and drawer pulls
- Countersunk end ensures starting hole is centered in hardware screw hole

- Hardened steel pin

UPC	NO.	LENGTH	BODY DIA.
24018 7	**806**	2-1/2" (68mm)	3/8" (10mm)

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES
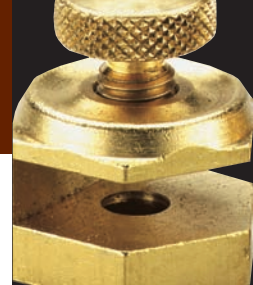
General has a full range of Gages designed for the specialized measurement operations necessary in construction jobs, cabinet making and fine carpentry. Woodworkers trust the quality, accuracy and value that General Tools gives them.
It's your job . . . General Tools make it easier.

HOBBY DRILL GAGE

- Heavy gage stainless steel gage conveniently identifies drill bit sizes
- Etched graduations are filled in black to give high contrast and will not wear off
- Gage measures 2-3/8" x 6-3/4" (60 x 172mm) overall
- Stainless steel will not rust

UPC	NO.	SPECIFICATIONS
22011 0	**24**	Fractional size drills 1/16" to 1/2" x 64ths
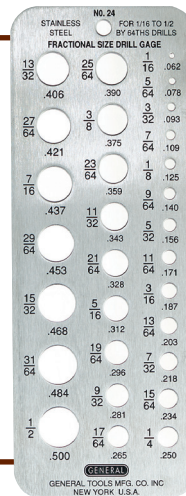
24

STAIR GAGE SET

- Brass plated steel stair gage assures fast and uniform layout in repetitive work including angle cuts on rafters and stair stringers
- Attaches easily to all metal rafter squares
- Set of 2 pieces

UPC	NO.
24009 5	**803**
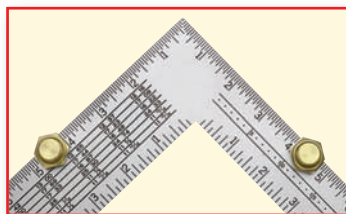
803

Pro-ANGLE™
DIGITAL PROTRACTOR

Take the guesswork out of measuring, marking, reading and transferring angles.

- 6" (150mm) Stainless Steel Protractor Arm with Knurled Locking Nut
- Large, easy-to-read display
- Absolute and Relative measurements
- Accuracy: 0.1°
- Resolution: 0.05°
- Range: 0.00° to 180.00°
- Display can be inverted for easy reading
- Hold function to freeze measurement
- Includes: 1 "CR2023" (3.0V) battery

UPC	NO.
26008 6	**1702**

NEW!

1702

Inverted Display

ULTRATECH™
TOOL SYSTEM

WOODWORKING

BUILDER'S TOOLS/WOODWORKING
Layout Tools

GENERAL®

General's Contour Gages can duplicate any shape. The stainless steel pins on our gage slide to conform to irregular surfaces. This tool can be used for pattern and mold making, duplicating parts and contours.

Great for fitting carpet, floor tiles and linoleum against door casings and pipes. The **ANGLE-IZER**™ can replace the need for making templates and can be used again and again. **The Ultimate Template Tool.**

10" CONTOUR GAGE
- Extra length is ideal for woodworking, linoleum installation, ceramic tile installation or any job where contour duplication is essential
- Gage will fit profiles up to 10" long
- Inch/mm graduations on body
- 3" (76mm) deep fingers will measure profiles up to 1-1/4" (32mm)
- Made from tough, durable plastic

UPC	NO.
08330 2	**833**

833

6" CONTOUR GAGE
- Ideal for woodworking, linoleum installation, or any job or hobby where contour duplication is essential
- Inch graduation on body
- Stainless steel pins
- Component parts are enamel painted and brass plated
- Size is 6" x 3-1/2" (152 x 89mm) with an overall travel of 5-1/4" (133mm)

UPC	NO.
24116 0	**837**

837

THE ANGLE-IZER™
- The unique and versatile **ANGLE-IZER**™ The Ultimate Template Tool eliminates the need for making templates and can be used again and again
- The **ANGLE-IZER**™ can be set-up in seconds not only improving quality but saving time
- Just form the tool into the shape of your work area, then use it to mark your work-piece to be cut
- Repeat accurate marking for creating bulls eyes, arches, repetitive angles or shapes

- Tool can be set to mark bricks, tiles, lumber and laminates
- All the arms are dual-calibrated in inches and metric measures
- Unique tightening mechanism for one-handed operations
- Fiberglass filled nylon for added strength and flexibility
- Includes FREE instructional **ANGLE-IZER**™ CD program

UPC	NO.
08360 9	**836**

836
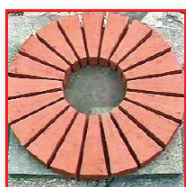
REPETITIVE MARKING   MARKING LUMBER   ANGLES FOR PAVER BRICKS   TILING   SPACING AND GAUGING

Patent No. Des. 402,217

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

GENERAL®

General's Compasses and Layout Tools are designed for the specialized operations of measuring and layout necessary in construction jobs, cabinet-making and fine carpentry. Woodworkers trust the quality and the value that General Tools provides.

OUTSIDE, INSIDE & SLOPED ANGLE PROTRACTOR

- Use this protractor/angle finder to measure and mark the degrees of an angle on outside, inside and sloped angles
- Fine black graduations from 0° to 165° in opposite directions
- Brass lock nut

UPC	NO.
22148 3	29

3-1/2" 29 6"

PROFESSIONAL QUALITY T-BEVEL

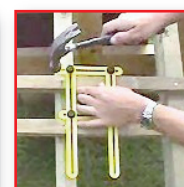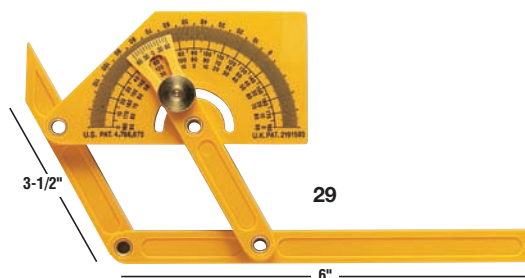- Our T-bevel is the tool preferred by the craftsperson who wants the finest
- Solid mahogany 5-1/2" (140mm) handle with brass trim and locking wing nut
- 10" (254mm) blade
- Conforms to government specifications GGG-B-211b

UPC	NO.
24100 9	829

829

FIBERGLASS FOLDING RULE

- Constructed of tough, flexible high impact plastic, with fiberglass reinforcement for added durability
- 72" (1929mm) folding ruler with a 6" (152mm) extension for accurate inside measurements

UPC	NO.		GRADS
25300 2	7200	Outside readings graduated in 16ths.	16ths

7200
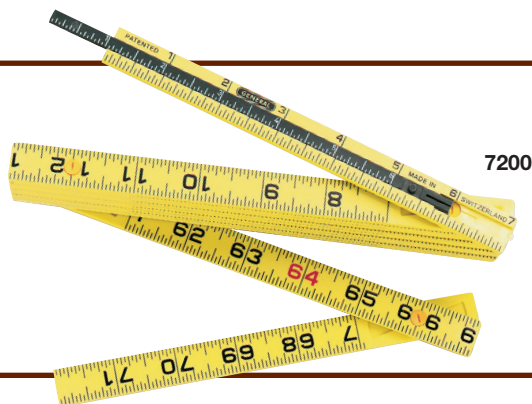
PENCIL COMPASS AND SCRIBER

- Designed for marking contours and circles
- Positive wing nut adjustment
- Full-length hardened steel pin in metal frame for greater rigidity
- Constructed of brass plated steel

UPC	NO.	CAPACITY
24132 0	843/1	8" (203mm)

843/1

PRECISION PENCIL COMPASS

- Carpenter quality compass is made of long lasting die-cast, rust resistant metal
- Spring tension adjustment for marking up to 9" (229mm) diameters
- Scribe guide for edge marking
- For use with pencil (included) or slim ballpoint pen

UPC	NO.	CAPACITY
24126 9	842	9" (229mm)

842

WOODWORKING

"It's Your Job . . . General Tools Make It Easier" **T-35**

WOODWORKING
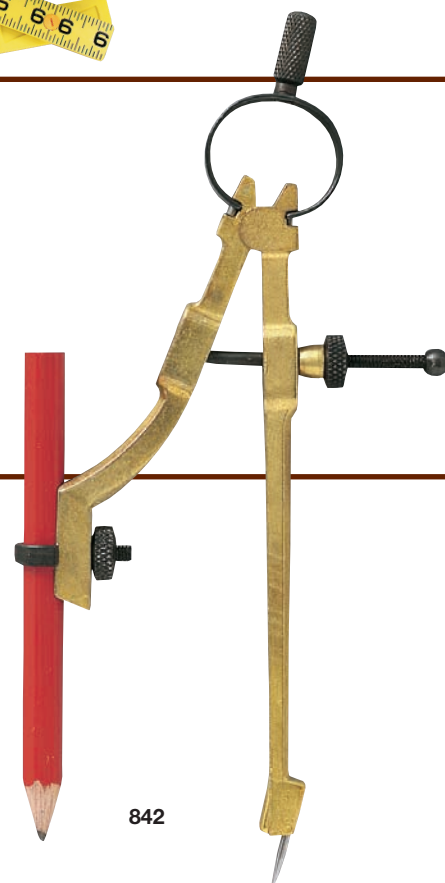
General's newest "**Fraction +**" Caliper has a 3 mode digital display. Measuring in inches, metric and fractions it offers everything for the hobbyist to the professional.

The Combination Squares are specifically designed for carpenters, the woodworking trade, the do-it-yourselfer and home mechanics. A necessary tool for every carpenter and home workshop.

FRACTION+
DIGITAL FRACTIONAL CALIPERS

- No. 147, No. 1478, No. 14712 are heavy-duty stainless steel construction
- No. 146, No. 1433 has a lightweight non-marring plastic housing
- Convenient auto-off feature
- Three mode digital display: Decimal Inches, Fractional and Metric
- Inside, outside, depth & step measurements
- Accuracy: +/- 0.001" +/- 0.02mm
- Resolution: 0.0005", 0.01mm, 1/64"
- Power Source: 1 "SR44" battery (included)

UPC	NO.	RANGE	
01460 3	146	0 - 6"	(0 - 153mm)
01470 2	147	0 - 6"	(0 - 153mm)
01433 7	1433	0 - 3"	(0 - 76mm)
01478 3	1478	0 - 8"	(0 - 203mm)
14712 7	14712	0 - 12"	(0 - 305mm)
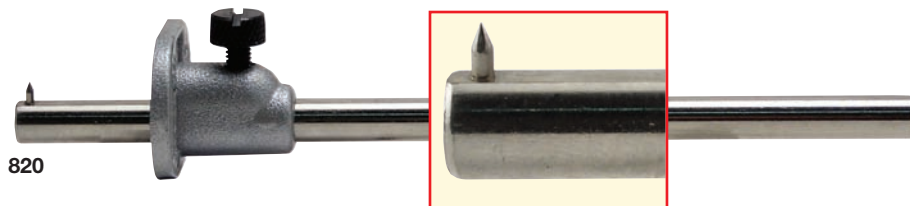
No. 146 Digital Display
No. 147 Fractional Display
147
820

SINGLE BAR MARKING GAGE

- 6" (153mm) adjustable bar is nickel plated steel graduated in 16ths
- Die-cast head
- Fine needle point for precision marking

UPC	NO.
24050 7	820

PROFESSIONAL CARPENTER'S COMBINATION SQUARE

- Specially designed for carpenters and the woodworking trades
- Machined and enameled cast iron head has precision level and scriber for producing right and 45° angles
- 12" x 1" (305 x 26mm) steel blade is graduated in 8ths, 16ths, and 32nds
- Conforms to government specifications GGG-S-656C

812

UPC	NO.	FRONT	BACK
24036 1	812	8ths, 16ths	16ths, 32nds
22193 3	812-CA	Clamp Assembly	
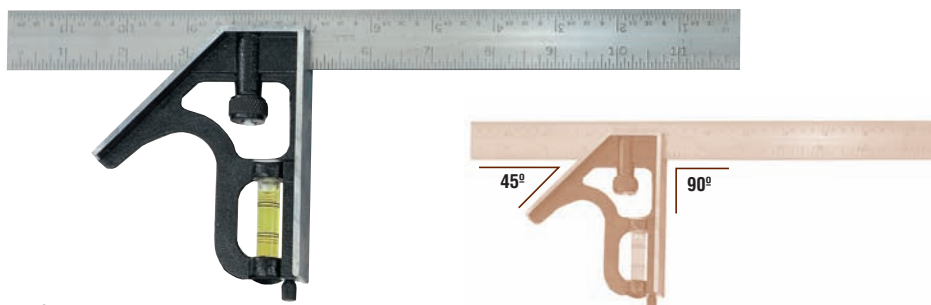
UTILITY COMBINATION SQUARE

- Economy version of the carpenter's combination square is perfect for the do-it-yourselfer and home mechanic
- 12" x 1" (305 x 26mm) steel blade is graduated in 8ths, 16ths, and 32nds
- Heavy zinc cast head with level and scriber

811

UPC	NO.	FRONT	BACK
24030 9	811	8ths, 16ths	16ths, 32nds

General's Adjustable Trammels accurately measure and mark distances that are too great for conventional compasses and dividers. Trammels will accurately transfer measurements, scribe arcs and lay out circles. Points can be replaced with pencils, ballpoint pens, crayons or soap-stone sticks for marking various materials.
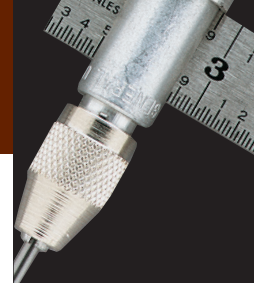
PRECISION ADJUSTABLE TRAMMELS

- Draw large circles and measure sizable distances with the accuracy of a divider
- Fine adjusting screw sets points accurately
- Points are removable and may be replaced with the pencil holder
- Die-cast bodies with hardened and ground 3" (76mm) needlepoint legs
- Clamp opening for beam is 3/8" x 3/4" (10 x 19mm)
- Conform to government specifications GGG-T-661b

UPC	NO.
23090 4	**520**
31104 7	**84P** Replacement points (12 per pkg.)

520
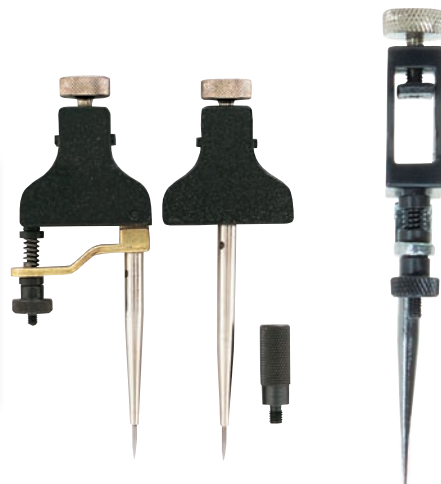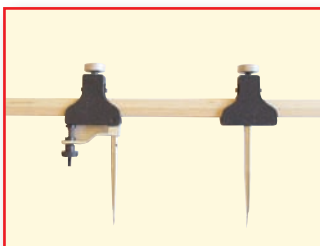
PROFILE VIEW

ADJUSTABLE TRAMMELS

- General's adjustable trammels accurately measure and mark distances that are too great for conventional compasses and dividers
- For layouts, marking templates, and drawing large circles
- 6" (153mm) eccentric points provide fine adjustments
- Points can be replaced with pencils, ballpoints pens, crayons, or soapstone sticks for marking various materials
- Clamps onto beam 5/8" to 1-1/2" (16 to 38mm) thick of any length

UPC	NO.
23093 5	**523**

523
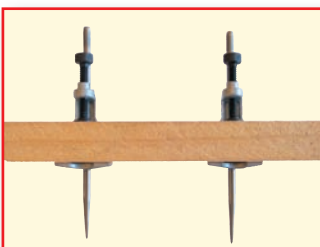
PROFILE VIEW

PRECISION TRAMMEL SET

524

- Will accurately transfer measurements, scribe arcs, and lay out circles too large for conventional compasses
- Will fit any scale, 1/2" to 1-1/8" (13 to 29mm) wide
- Two scriber points and two pencil points included
- Up to four points can be stored in body
- Free-wheeling thimble for greater precision
- Aluminum knurled body
- Steel collet holds replacement leads, scribers and crayons
- Points reverse into body for safety
- Ruler not included in set

UPC	NO.
23095 9	**524**

PROFILE VIEW

"It's Your Job . . . General Tools Make It Easier"
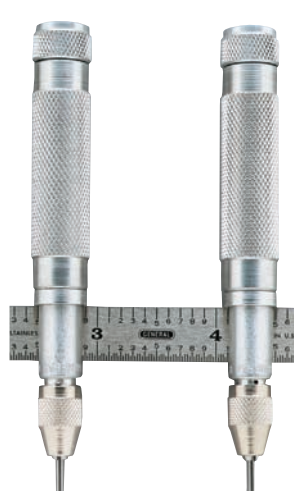
Scratch Awl & Blade Sharpener

GENERAL®

General's Scratch Awl is made from the finest materials for long life. This tool is designed for scribing and layout work, starting screw holes and piercing soft materials.

The Chisel/Plane Blade Sharpener keeps blades razor sharp. The graduated settings maintain the correct 30° cutting angle necessary for these blades.

WOODWORKING

Shown Actual Size

B

A

GENERAL® No. 818

GENERAL Scratch Awl Pointe à tracer   Lezna

- For scribing, perforating, punching, and aligning holes.
- Wood handle.
- Pour tracer, perforer, poinçonner, ou aligner les trous.
- Manche en bois.
- Para trazar, perforar, punzar, y alinear agujeros.
- Mango de madera.

**No. 818
UPC 24047**
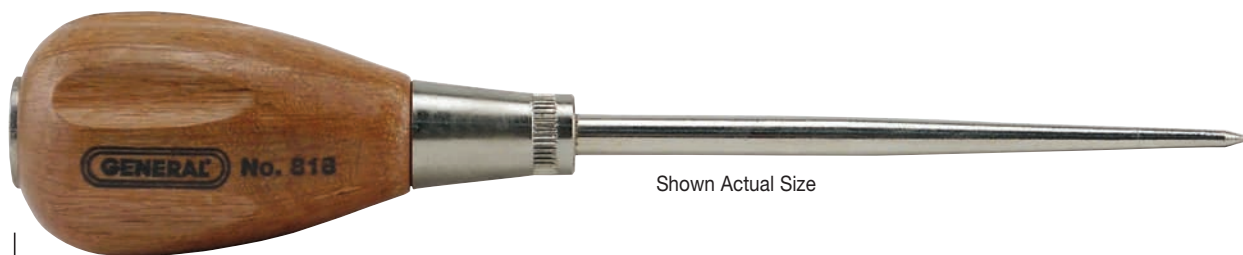
818

HARDWOOD HANDLE SCRATCH AWL

- Alloy steel blade runs through the handle and is securely fastened to both the plated steel ferrule and the cap
- Hardwood fluted handle is contoured for comfortable grip
- Our finest best selling scratch awl

UPC	NO.	A	B
24047 7	**818**	6-1/2" (165mm)	3-3/4" (95mm)

809

CHISEL/PLANE BLADE SHARPENER

- Keeps chisel and plane blades razor sharp
- Graduated settings maintain correct 30° cutting angle on chisel or plane blade
- Spring clamp locks in blades up to 2-5/8" (67mm) wide
- Made of high impact fiberglass reinforced Lexan®
- Folds for storage

UPC	NO.
24024 8	**809**

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

GENERAL®

FEATURES　　　　**SPECIFICATIONS**

MOISTURE METER

Ideal to use in woodworking, building construction and agriculture. Meter is also used in the restoration business to check if there is moisture in carpets and sub-flooring.

- LED Display
- Check wood, drywall and concrete before painting, sealing or treating
- Locate and identify water leaks in roofs, floors and walls
- Ideal for selecting dry lumber
- Great for home owners, contractors and inspectors
- CE, RoHS approved

♦ Display: Progressive LED's, 3 Green (5, 10, 12%); 2 yellow (14, 16%); 3 Red (18, 20, 22%)
♦ Range: 8-22%
♦ Resolution: 0.1%
♦ Accuracy: ±2%
♦ Sampling Rate: 1s
♦ Operating Environment: 32° to 122°F (0 to 50°C), RH<90%
♦ Size: 5.7" x 2.4" x 1.2" (145 x 60 x 30mm)
♦ Weight: 4.4 oz. (125g)
♦ Power Source: 1 "9V" battery (included)
Includes: • Protective Cover
　　　　　 • Instruction Manual

UPC	NO.
10188 9	**MM1E**

RoHS CE

MM1E

DIGITAL MOISTURE METER

Ideal for contractors and homeowners to accurately measure moisture content in wood, concrete, drywall, subflooring and other construction materials.

- Accurately and professionally measure moisture in wood and building materials including brick, concrete, drywall, plaster, wood and lumber
- Strong stainless steel pins
- Audible alarms
- Battery status indication
- Hold button to freeze/hold reading
- Ergonomically designed
- CE approved

♦ Measuring range: Wood: from 5% – 50% Building material: from 1.5% – 33%
♦ Resolution: 0.1%
♦ Accuracy: ±3%
♦ Audible alarm: 8 different tones level
♦ Auto power off: 3 minutes
♦ Power Source: 1 "9V" battery (included)
Includes: • Protective Cover
　　　　　 • User's Manual

UPC	NO.
41447 7	**MMD4E**

CE

MMD4E

NON-INVASIVE MOISTURE METER

Ideal for use in wood / timber industry and building material storage.

- Moisture display on LCD.
- Data hold to freeze reading and display
- Auto calibration
- Low battery indication
- Sense 6 different materials including 50 types of wood/timber
- Audible sound at 'peak' detection
- Auto power off
- CE, RoHS approved

♦ Measuring moisture from 0.0% to 99.9% with 10 different groups
♦ Resolution: ±1 digit
♦ Sense depth maximum: 3/4" (20mm)
♦ Power Source: 1 "9V" battery (included)
Includes: • User's Manual

UPC	NO.
40142 2	**MMD5NP**

RoHS CE

MMD5NP

PRECISION DIGITAL AND LED MOISTURE METER

Measures moisture content in wood, timber and other commercial / industrial material.

- Wood material: 6% to 40% moisture content
- Concrete material: 0% to 100% moisture content
- Also measures temperature
- Red LED bar graph indicator with LCD display
- Easy Operation
- Replaceable Tips
- Hold, Record (Min/Max)

♦ Pin length: .5"
♦ Power Source: 1 "9V" battery (not included)
Includes: • Extra pins
　　　　　 • Protective Cover
　　　　　 • User's Manual

UPC	NO.	
07003 1	**MMD7003**	
01255 0	**MP7003**	External Pin Type Probe (Optional)

MMD7003

WOODWORKING

Professional Moisture Meters

GENERAL®

FEATURES	SPECIFICATIONS

NON-INVASIVE MOISTURE METER

Precision instrument for highly sensitive and non-invasive measurement of moisture content in wood, timber and other industrial applications.

MMD6NP

- High accuracy
- Fast measuring time
- Wide measuring range and high resolution
- High resolution digital display
- Zero value and correction value can be stored
- Strong, light weight ABS-plastic housing
- Comfortable fit for either hand

- ♦ Display: 3 digits, 10mm LCD
- ♦ Range: 0 to 80%   ♦ Resolution: 0.1%
- ♦ Accuracy: ±(1%n+1) under 30%, ±(2%n+1) over 30%
- ♦ Sampling time: 1.0s
- ♦ Operating condition: Temp. 0° to 50°C, Humidity: <80%
- ♦ Dimensions: 218 x 76 x 53mm
- ♦ Weight: 260g (with batteries)
- ♦ Power Source: 4 "AAA" batteries (included)
Includes: • Carrying Case • User's Manual

UPC	NO.
40143 9	**MMD6NP**

PRECISION LED MOISTURE METER WITH SIGNAL OUTPUT

Precision instrument for accurate moisture reading in wood and timber.

CE RoHS

MM70

- 1% Accuracy
- High Resolution Multi-color LED bar graph readout 5.5% to 99.9% moisture range
- Protective cap for safe carrying and operation
- Auto temperature compensation and calibration adjustment
- 99 Point memory
- Ergonomic design, comfortable and durable
- Convertible to non-invasive measuring by adding optional MP7002 probe
- Audible Alarm starts for catch reading
- Audible and visual low battery warning
- Additional set of long pins .9" (23mm) included
- CE and RoHS approved

- ♦ Measuring Range: 5.5 to 99.9% H2O %WME
- ♦ Accuracy (at 25°C): ±1% Wood Scale
- ♦ Indicator: LED bargraph
- ♦ Color Codes: Green (<16%) Yellow / Red (>21%)
- ♦ Signal Output: 0 to 1Vdc 10mV%
- ♦ Calibration: Automatic Temperature compensation
- ♦ Built–in calibration adjustment
- ♦ Power Source: 1 "9V" battery (included)
Includes:
- 1 MM70 Meter with .5" (12.7mm) pins
- 1 MP7021 External Pin Type Probe 39" (1 meter) long with .5" (12.7mm) pins
- Additional Set of Interchangeable Long Pins .9" (23mm)
- Protective Fabric Carrying Case
- User's Manual

UPC	NO.
07020 8	**MM70**
70604 6	**MP7021** External Pin Type Probe 39" (1 meter) long (Replacement)
07070 3	**MP7022** External Roller-Type Probe 39" (1 meter) long (Optional)

PRECISION DIGITAL MOISTURE METER WITH SIGNAL OUTPUT

Precision digital instrument for accurate moisture reading in wood and timber.

NEW!

CE RoHS

MM70D

Includes: • 1 MM70D Meter with two .5 in. (12.7mm) pins
- 1 MP7021 External Pin Type Probe 39 in. (1m) long with .5 in. (12.7mm) pins
- Additional Set of Interchangeable Long Pins .9 in. (23mm)
- Protective Fabric Carrying Case
- User's Manual

- 1% Accuracy
- Digital LCD display with luminescent back-light
- Protective cap for safe carrying and operation
- Hardened gloss treatment on display-window for an abrasion-proof long-term clean lens
- 5.5% to 99.9% moisture range with DC 0~1V output
- Stores up to 99 readings, Max/Min average values recalled
- Auto temperature compensation and internal calibration
- Auto power off
- Ergonomic design, comfortable and durable
- Easy operation
- Audible and visual low battery warning
- Usable and changeable extension probe
- Additional set of long pins .9 in. (23mm) included
- CE and RoHS approved

- ♦ Measuring Range: 5.5 ~ 99.9% H2O %WME
- ♦ Resolution: 0.1%
- ♦ Accuracy: (at 25°C) ±1% Wood scale
- ♦ Display: Digital dual LCD display, with multi-function indicator
- ♦ Sampling Rate: 0.3 seconds
- ♦ Wood group scales: Select from 8 wood species groups
- ♦ Data memory: 99 readings
- ♦ Signal output: Analog DC 0 ~ 1V (10 mV / 1%), load > 500Ω
- ♦ Calibration: Built-in calibration adjustment
- ♦ Power: About 250 hours for continuing use (none back light)
- ♦ Operating: -20° to +55°C, <90%RH, non-condensing
- ♦ Dimensions: 6.0 x 2.2 x 1.26 in. (153 x 56 x 32mm)
- ♦ Weight: 5.5 oz. (155g) including battery
- ♦ Power Source: 1 "9V" battery (included)

UPC	NO.
07010 9	**MM70D**
70604 6	**MP7021** External Pin Type Probe 39 in. (1 meter) long (Replacement)
07070 3	**MP7022** External Roller-Type Probe 39 in. (1 meter) long (Optional)

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

Machinists, Measuring & Precision Tools

Center Punches

Drive Pin Punches

Scribers

Dividers

Tap Wrenches

Measuring & Repair Tools

Steel Rules

Feeler Gages

Gages

Protractors

Calipers

Micrometers

Dial Indicators

Square Sets

General's Automatic Center Punches are a precise means of punching center holes for drilling in layout work. A single-handed operation with stored energy design eliminates the need for striking the punch with a hammer. Spring tension cap can be adjusted for light to heavy strokes. Punch depth can be set for repetitive work. Replacement points, shafts and moving parts are hardened alloy steel.

MACHINIST

NEW!

89

STAINLESS STEEL AUTOMATIC CENTER PUNCH
- Provides accurate center punches to prevent drill bits from traveling
- One-handed operation - No hammer needed!
- For marking, punching & staking
- Durable stainless steel body will not rust
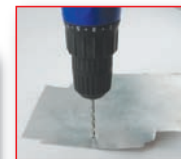
UPC	NO.	A	B	C	D	E
02131 1	89	5-1/4" (133mm)	4" (102mm)	9/16" (14mm)	5/32" (4mm)	.070" (1.8mm)

77

MACHINISTS AUTOMATIC CENTER PUNCH
- Punches, marks, scribes and starts drill, nail or screw holes
  - One-hand spring impact operation. No hammer needed
- Spring tension adjusts for light or heavy markings
- Ball bearing action
- Lightweight aluminum body with long wearing alloy steel parts
- Hardened steel point

UPC	NO.	A	B	C	D	E
31062 0	77	5" (127mm)	3-29/32" (99mm)	5/8" (16mm)	1/4" (6mm)	.104" (2.6mm)

HEAVY-DUTY STEEL AUTOMATIC CENTER PUNCH
- Heavy-duty center punch
- Punches, marks, scribes and starts drill, nail or screw holes
- One-hand spring impact operation, no hammer needed
- Spring tension adjusts for light or heavy markings
- Black oxide finish inhibits rust
- All-steel body with threaded, replaceable hardened steel point

78

UPC	NO.	A	B	C	D	E
31066 8	78	5-5/8" (143mm)	4-9/32" (109mm)	5/8" (16mm)	17/64" (7mm)	.083" (2.1mm)
31068 2	78P	Replacement point				

79

STEEL AUTOMATIC CENTER PUNCH
- Punches, marks, scribes and starts drill, nail or screw holes
- One-hand spring impact operation. No hammer needed
- Spring tension adjusts for light or heavy markings
- Ball bearing action
- Black oxide finish inhibits rust
- All-steel body with threaded, replaceable hardened steel point

UPC	NO.	A	B	C	D	E
31072 9	79	4-7/8" (124mm)	3-29/32" (99mm)	1/2" (12mm)	3/16" (5mm)	.055" (1.4mm)
31078 1	79P	Replacement point				
31079 8	79P/2	Replacement points (2)				

87

POCKET AUTOMATIC CENTER PUNCH
- Pencil slim design with pocket clip
- Punches, marks, scribes and starts drill, nail or screw holes
- One-hand spring impact operation, no hammer needed
- Spring tension adjusts for light or heavy markings
- Lightweight aluminum body with long wearing alloy steel parts
- Hardened steel point

UPC	NO.	A	B	C	D	E
31108 5	87	5-3/4" (146mm)	5-11/16" (144mm)	5/16" (8mm)	1/8" (3mm)	.058" (1.5mm)

Drive Pin Punches are well proportioned, hardened, tempered and have a knurled finger grip. Designed to withstand hard use, they are perfect in the machine shop as well as in the motor service industry.

Machinists use our shank punches for marking work in layout and drilling operations. These tools are constructed of hardened and ground alloy tool steel for maximum strength and durability.

UTILITY AUTOMATIC CENTER PUNCH

- Punches, marks, scribes and starts drill, nail or screw holes
- One-hand spring impact operation, no hammer needed
- Ball bearing action
- Lightweight aluminum body with long wearing alloy steel parts
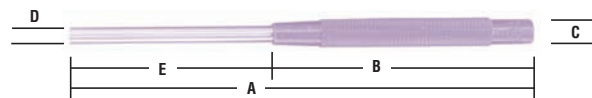- Hardened steel point

UPC	NO.	A	B	C	D	E
22339 5	**70079**	5" (127mm)	3-15/16" (100mm)	1/2" (12mm)	5/32" (4mm)	.070" (1.8mm)

70079

EXTRA LONG DRIVE PIN PUNCHES

- Made of tool steel, hardened and centerless ground
- For use on work not accessible with shorter punches
- Knurled body
- Packed in a vinyl case
- Conforms to gov. specs, GGG-P-831E

UPC	NO.	PUNCH DIAMETERS				
31050 7	**SPC76**	1/8", 3/16", 1/4" 5/16", 3/8"	Set contains five punches, A-E, listed below.			

| UPC	NO.	A	B	C	D	E
31052 1	76A	8" (203mm)	4-1/2" (114mm)	3/8" (10mm)	**1/8" (3mm)**	3-1/2" (89mm)
31054 5	76B	8" (203mm)	4-1/2" (114mm)	7/16" (11mm)	**3/16" (5mm)**	3-1/2" (89mm)
31056 9	76C	8" (203mm)	4-1/2" (114mm)	7/16" (11mm)	**1/4" (6mm)**	3-1/2" (89mm)
31058 3	76D	8" (203mm)	4-1/2" (114mm)	7/16" (11mm)	**5/16" (8mm)**	3-1/2" (89mm)
31060 6	76E	8" (203mm)	4-1/2" (114mm)	1/2" (12mm)	**3/8" (10mm)**	3-1/2" (89mm)

SPC76

SPC75

DRIVE PIN PUNCHES

- Tool steel punches are uniformly heat treated and centerless ground to withstand the hardest use
- Ends are ground square for accurate pin driving
- Packed in a plastic case

UPC	NO.					
31032 3	**SPC75**	Set contains eight punches, A-H, listed below				

UPC	NO.	A	B	C	D	E
31034 7	75A	4" (102mm)	2-5/8" (67mm)	1/4" (6mm)	**1/16" (2mm)**	3/4" (19mm)
31036 1	75B	4" (102mm)	2-9/16" (65mm)	1/4" (6mm)	**3/32" (2mm)**	3/4" (19mm)
31038 5	75C	4" (102mm)	2-7/16" (62mm)	5/16" (8mm)	**1/8" (3mm)**	3/4" (19mm)
31040 8	75D	4" (102mm)	2-9/16" (65mm)	5/16" (8mm)	**5/32" (4mm)**	3/4" (19mm)
31042 2	75E	4" (102mm)	2-5/8" (67mm)	5/16" (8mm)	**3/16" (5mm)**	1" (25mm)
31044 6	75F	4" (102mm)	2-5/8" (67mm)	3/8" (10mm)	**7/32" (6mm)**	1" (25mm)
31046 0	75G	4" (102mm)	2-9/16" (65mm)	3/8" (10mm)	**1/4" (6mm)**	1"(25mm)
31048 4	75H	4" (102mm)	2-3/4" (70mm)	3/8" (10mm)	**5/16" (8mm)**	1" (25mm)

SPC74
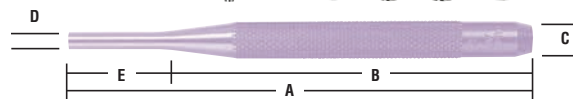
ROUND SHANK CENTER PUNCHES

- Points are ground to size for maximum strength and penetration
- Knurled body
- Stamped with size for quick identification
- Packed in a vinyl case

UPC	NO.					
31018 7	**SPC74**	Set contains five punches, AA-D, listed below				

UPC	NO.	A	B	C	D	E
31020 0	**74AA**	3-1/16" (78mm)	2" (51mm)	1/4" (6mm)	**1/16" (2mm)**	5/32" (4mm)
31022 4	**74A**	3-19/32" (91mm)	2-1/4" (57mm)	1/4" (6mm)	**5/64" (2mm)**	3/16" (5mm)
31024 8	**74B**	3-7/8" (98mm)	2-15/32" (63mm)	5/16" (8mm)	**3/32" (2mm)**	7/32" (6mm)
31026 2	**74C**	4" (102mm)	2-5/8" (67mm)	5/16" (8mm)	**9/64" (4mm)**	1/4" (6mm)
31028 6	**74D**	4" (102mm)	2-19/32" (66mm)	3/8" (10mm)	**5/32" (4mm)**	9/32" (7mm)

MACHINIST

"It's Your Job . . . General Tools Make It Easier"

General manufactures a complete line of Scribers for machinists, engravers, mechanics and craftspeople. A basic tool for layout work and tool marking.

General's Scribers are used for marking and engraving on metal, glass, plastics and ceramics.
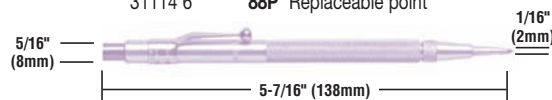
MACHINIST

88CM

TUNGSTEN CARBIDE SCRIBER/ETCHING PEN AND MAGNET
- Tungsten carbide tip marks hard materials including hardened steel, stainless steel, ceramics and glass
- Permanent magnet picks up small parts and retrieves steel chips from hard-to-reach places
- Screw chuck for reversing tungsten carbide point when not in use
- Knurled aluminum handle provides maximum control and comfort
- Point is replaceable
- Convenient pocket-clip

UPC	NO.	
31116 0	**88CM**	
31114 6	**88P**	Replaceable point

5/16" (8mm)   5-7/16" (138mm)   1/16" (2mm)

88

TUNGSTEN CARBIDE TIP SCRIBER/ETCHING PEN
- Tungsten carbide tip marks hard materials including hardened steel, stainless steel, ceramics and glass
- Screw chuck for reversing tungsten carbide point when not in use
- Knurled aluminum handle provides maximum control and comfort
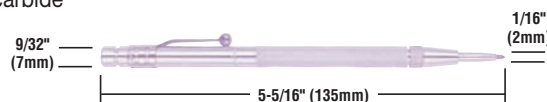- Point is replaceable
- Convenient pocket-clip

UPC	NO.	
31112 2	**88**	
31114 6	**88P**	Replaceable point

9/32" (7mm)   5-5/16" (135mm)   1/16" (2mm)

70088

UTILITY TUNGSTEN CARBIDE TIP SCRIBER/ETCHING PEN
- Tungsten carbide point for marking and scribing steel, ceramics and glass
- Magnet picks up small parts and retrieves steel chips from hard-to-reach places
- Knurled aluminum handle provides maximum control and comfort
- Convenient pocket-clip

UPC	NO.
22340 1	**70088**

9/32" (7mm)   4-13/16" (122mm)   1/16" (2mm)

81

POCKET SCRIBER
- Replaceable hardened and centerless ground steel point
- Point reverses into knurled body for safety
- Hex cap prevents rolling
- Conforms to government specifications GGG-S-131E

UPC	NO.	
31092 7	**81**	
31094 1	**81P**	Replaceable point

1/2" (12mm)   3/8" (10mm)   4" (102mm)   2" (51mm)   3/16" (5mm) Diam.   6" (152mm)

83

POCKET SCRIBER
- Replaceable hardened and centerless ground steel point
- Point reverses into knurled body for safety
- Hex cap prevents rolling
- Conforms to government specifications GGG-S-131E

UPC	NO.	
31098 9	**83**	
31100 9	**83P**	Replaceable point

3/8" (10mm)   1/4" (6mm)   3-1/2" (89mm)   1-7/16" (37mm)   4-15/16" (125mm)

84
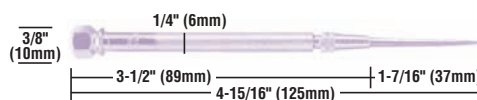
REPLACEABLE NEEDLEPOINT SCRIBER
- Scribes stainless steel, copper and brass
- Nork pattern scriber
- Four extra points are stored under cap

UPC	NO.	
31102 3	**84**	
31104 7	**84P**	Replaceable point (12 per pkg.)

3/8" (10mm)   1/4" (6mm)   4-15/16" (125mm)   5-5/16" (135mm)   7/16" (11mm)
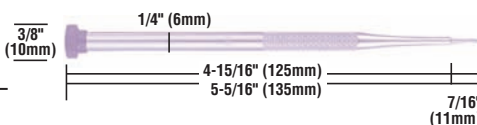
All Dividers' legs and Calipers' legs are forged of special caliper steel. Hardened and tempered bow springs and fulcrum spools assure uniform tension without side play. Adjusting screw has a self-seating washer and nut to permit quick and positive adjustment. Dividers have hardened points. Calipers have hardened measurement faces and meet government specifications GGG-C-95.
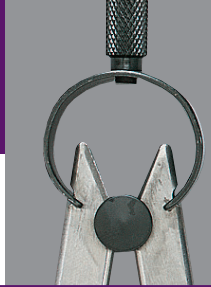
FIXED TWO POINT SCRIBER
- Hardened and ground steel needle points are fixed to a knurled body
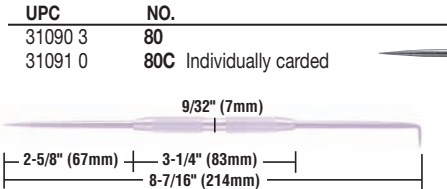- Has one straight point and one 90° bent point

UPC	NO.
31090 3	**80**
31091 0	**80C** Individually carded

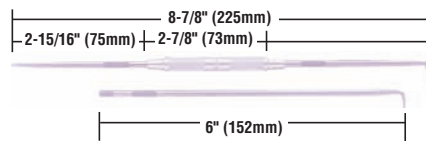9/32" (7mm) · 2-5/8" (67mm) · 3-1/4" (83mm) · 8-7/16" (214mm)

80

THREE POINT SCRIBER
- Finest quality machinist's scriber
- Aluminum knurled body, with three interchangeable threaded steel points: short straight, short bent and long bent
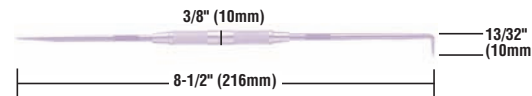
UPC	NO.
31400 0	**380A**

8-7/8" (225mm) · 2-15/16" (75mm) · 2-7/8" (73mm) · 6" (152mm)

380A

TWO POINT SCRIBER
- This scriber consists of short straight and short 90° bent steel points which thread into knurled body

UPC	NO.
31403 1	**380B**

3/8" (10mm) · 13/32" (10mm) · 8-1/2" (216mm)

380B

SINGLE POINT SCRIBER
- Hardened tempered steel point

UPC	NO.
31106 1	**85**

1/16" (2mm) · 3/16" (5mm) · 4-1/2" (114mm)

85

FLAT LEG DIVIDERS
- Legs are forged of special caliper steel
- Hardened and tempered bow springs
- Hardened points

UPC	NO.	A	B
31598 4	**450-4**	4" (102mm)	4-1/8" (105mm)
31601 1	**450-6**	6" (152mm)	6-1/4" (159mm)
31604 2	**450-8**	8" (203mm)	8-1/4" (210mm)
31592 2	**450-10**	10" (254mm)	10-1/4" (260mm)
31595 3	**450-12**	12" (305mm)	12-1/4" (311mm)
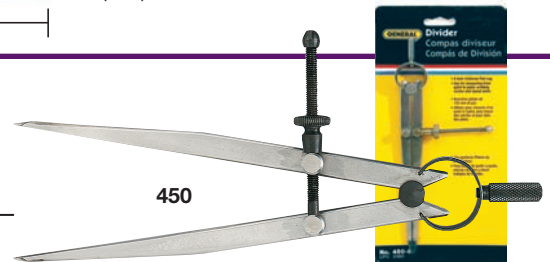
450

OUTSIDE CALIPERS
- Legs are forged of special caliper steel
- Hardened and tempered bow springs
- Hardened measurement points

UPC	NO.	A	B
31615 8	**452-4**	4-3/16" (106mm)	4-3/16" (106mm)
31618 9	**452-6**	6-1/8" (156mm)	6-5/16" (160mm)
31621 9	**452-8**	8" (203mm)	8-1/16" (205mm)
31607 3	**452-10**	10" (254mm)	10" (254mm)
31610 3	**452-12**	12-3/4" (324mm)	12-1/4" (311mm)
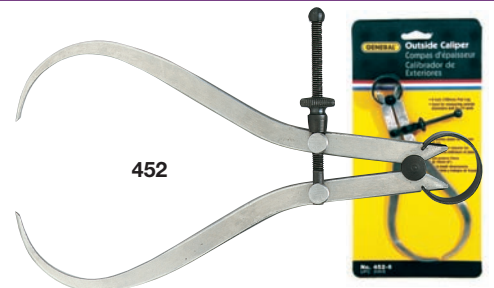
452

INSIDE CALIPERS
- Legs are forged of special caliper steel
- Hardened and tempered bow springs
- Hardened measurement points

UPC	NO.	A	B
31636 3	**454-4**	4" (102mm)	4-7/16" (113mm)
31639 4	**454-6**	6-5/16" (160mm)	6-1/2" (165mm)
31641 7	**454-8**	8" (203mm)	8-11/16" (221mm)
31624 0	**454-10**	10" (254mm)	10-11/16" (271mm)
31627 1	**454-12**	12-5/16" (313mm)	12" (305mm)

454

"It's Your Job . . . General Tools Make It Easier"

MACHINIST

General's Tap Wrenches provide good leverage in tight spaces. These top quality tools are designed to give the user the reach and leverage needed for accurate tapping. The T-handle tap wrenches are for holding taps, drills, reamers and other small tools to be turned by hand.

161R

REVERSIBLE RATCHET TAP WRENCHES

- Ratchet can be set for right- or left-hand operation or locked for non-ratchet use
- Self-centering hardened steel jaws and knurled chuck sleeve provide positive grip on taps, reamers and small tools
- Sliding T-handle for fitting into tight spaces with operator leverage
- No. 161R conforms to government specifications GGG-W-680a

UPC	NO.	TAP CAPACITY	LENGTH
31200 6	**160R**	No. 0 to No. 8 (1.6 to 4mm)	2-3/4" (70mm)
31203 7	**161R**	No. 0 to 1/4" (1.6 to 6.3mm)	3-1/2" (88mm)
31209 9	**162R**	No. 12 to 1/2" (6 to 12mm)	4-1/4" (106mm)

PROFESSIONAL REVERSIBLE RATCHETING TAP WRENCH SET

- Set includes: No. 161R Ratcheting Tap Wrench, No. 162R Ratcheting Tap Wrench and No. 715P Reference Table
- Self-centering, hardened steel jaws and knurled chuck sleeve
- For holding taps, reamers, screw extractors, hand turned tools and drill bits
- The No. 715P Plastic Reference Table is the essential reference table for tool makers, machinists and mechanics
- The front has machine screw size tap drill chart for recommended 75% depth thread
- The back has decimal equivalents table in 64ths from 1/64" to 63/64"
- Packaged in a sturdy, fitted foam lined plastic case designed specifically for this set

UPC	NO.
01650 8	**165**

165

164

PLAIN TAP WRENCHES

- Self-centering hardened steel jaws and knurled chuck sleeve
- No. 163 has rigid T-handle
- Nos. 164 and 166 have sliding T-handle for fitting into tight spaces with greater leverage

UPC	NO.	TAP CAPACITY (NOS. & INCHES)	LENGTH
31212 9	**163**	No. 0 to No. 8 (1.6 to 4mm)	2-1/4" (57mm)
31215 0	**164**	No. 0 to 1/4" (1.6 to 6.3mm)	2-3/4" (70mm)
31218 1	**166**	No. 12 to 1/2" (6 to 12mm)	3-3/4" (95mm)

PROFESSIONAL TAP WRENCH SET

- Set includes: No. 164 Plain Tap Wrench, No. 166 Plain Tap Wrench and No. 715P Reference Table
- Nos. 164 and 166 has sliding T-handles for fitting into tight spaces with greater leverage
- Self-centering, hardened steel jaws and knurled chuck sleeve
- For holding taps, reamers, screw extractors, hand turned tools and drill bits
- The No. 715P Plastic Reference Table is the essential reference table for tool makers, machinists and mechanics
- The front has machine screw size tap drill chart for recommended 75% depth thread
- The back has decimal equivalents table in 64ths from 1/64" to 63/64"
- Packaged in a sturdy, fitted foam lined plastic case designed specifically for this set

UPC	NO.
01670 6	**167**

167

MACHINIST

GENERAL®

Telescoping Gages are used for quick and accurate measurements of inside diameters of holes and widths of slots from which micrometer measurements are taken. Thread Repair Files restore damaged external threads on studs, bolts, screws, plumbing pipes and pipe fittings.

NUT SPLITTER

- Here is a real timesaver for the removal of frozen, hard to remove rusted nuts
- Only 4-3/4" long, this compact tool will split nuts up to 1/2" automotive series (3/4" or 19mm across flats)
- Standard 3/4" driving hex head for use with wrenches or sockets
- Angled body for getting into hard-to-reach work areas
- Replaceable hardened steel chisel point can be reversed to achieve best cutting angle
- Made of high-grade heat treated forged steel for durability. Plated and black oxide finishes to prevent rust

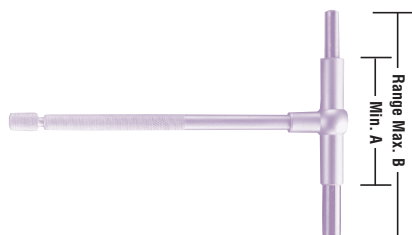| UPC	NO.
31325 6	**175**

175

THREAD REPAIR FILES

- These indispensable files restore damaged external threads on studs, bolts, screws, plumbing pipe and pipe fittings
- Four different high carbon steel files are available. Each file provides 4 to 8 different thread pitches
- Restores rusted or corroded fasteners
- Doubles as a screw pitch gage
- Black oxide to prevent rust

UPC	FILE NO.	THREAD PITCHES
31236 5	**177-1**	11,12,13, 14, 16, 18, 20, 24, T.P.I.
31240 2	**177-2**	9, 10, 12, 16, 20, 27, 28, 32, T.P.I.
31244 0	**177-4**	8, 11-1/2, 14, 18 iron pipe
31242 6	**177-8**	0.75, 1.0,1.25, 1.5, 1.75, 2.0, 2.5, 3.0mm

177-1

177-2

177-4

177-8

7/16" (12mm)

8-1/2" (213mm)
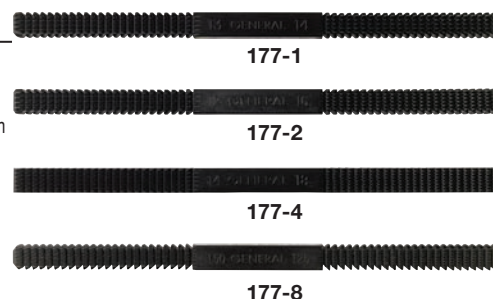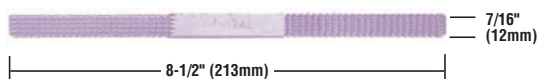
TELESCOPING GAGE SET

- These gages are used for quick and accurate measurements of inside diameters of holes and widths of slots from which micrometer measurements are taken
- Both gaging ends are heat treated tool steel and ground to a radius for measuring the smallest hole the gage will enter
- Self-centering action ensures accuracy
- Long handled design provides improved reach in deep holes and slots
- Satin chrome finish
- Swivel lock at base of handle
- Set of Six, AA-E, listed below, packed in vinyl case

Range Max. B
Min. A

UPC	NO.	RANGE	
31130 6	**S98-6**		
		A	**B**
AA		5/16" (7.5mm)	1/2" (12mm)
A		1/2" (12mm)	3/4" (20mm)
B		3/4"(20mm)	1-1/4" (31mm)
C		1-1/4" (31mm)	2-1/8" (53mm)
D		2-1/8" (53mm)	3-1/2" (88mm)
E		3-1/2" (88mm)	6" (140mm)

A   D   AA   E   B   C

S98-6

EDGE FINDERS

- General's edge finders accurately locate working edges, shoulders, grooves, center-points and scribed lines
- Time-saving positioning tools for jig borers, milling and other machines
- Hardened and centerless ground precision tolerance
- All sizes 3" long

UPC	NO.	END	SIZE	SHANK
31329 4	**260**	Single	.500"	1/2" (12mm)
31331 7	**262**	Double	.200" and 500"	1/2" (12mm)
31334 8	**263**	Single	.200"	3/8" (10mm)
31337 9	**264**	Double	.200" and point	1/2" (12mm)

260   **262**   **263**   **264**

MACHINIST

Rulers

GENERAL®

General's Industrial Quality Steel Rules and Economy Steel Rules are precision made with etched fine black graduations for easy reading and long life.

The two finishes available are polished stainless steel, flex and rigid or satin chrome, flex and rigid.
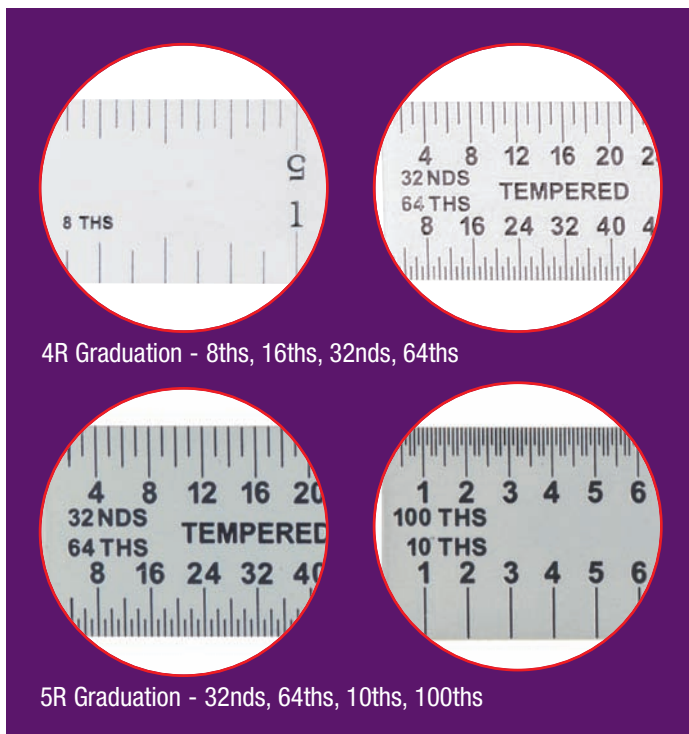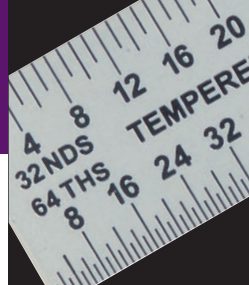
STEEL RULES:
ULTRATEST®, INDUSTRIAL & ECONOMY

UPC CODE	ITEM NO	SIZE	GRAD TYPE	GRADUATION SIDE 1	GRADUATION SIDE 2	WIDTH
ULTRATEST® STEEL RULES
6" CHROME PLATED HARDENED STEEL RULES
39021 9	CF640MM	150mm Flex	–	mm, .5mm	mm, .5mm	1/2"
33020 8	CF645	6" Flex	5R	10, 100	32, 64	1/2"
33035 2	CF649MD	6" Flex	–	10, 100	mm, .5mm	1/2"
33040 6	CF661	6" Rigid	4R	8, 16 w/32nd End Grads	32, 64	3/4"
33050 5	CF664	6" Rigid	4R	8, 16	32, 64	3/4"
33065 9	CF667ME	6" Rigid	–	32, 64	mm, .5mm	3/4"
12" CHROME PLATED HARDENED STEEL RULES
33085 7	CF1245	12" Flex	5R	10, 100	32, 64	1/2"
33090 1	CF1246	12" Flex	16R	32, 64	50, 100	1/2"
33095 6	CF1247ME	12" Flex	–	32, 64	mm, .5mm	1/2"
33100 7	CF1249MD	12" Flex	–	10, 100	mm, .5mm	1/2"
33110 6	CF1264	12" Rigid	4R	8, 16	32, 64	1"
18" CHROME PLATED HARDENED STEEL RULE
33140 3	CF1845	18" Flex	5R	10, 100	32, 64	3/4"
24" CHROME PLATED HARDENED STEEL RULE
33190 8	CF2445	24" Flex	5R	10, 100	32, 64	3/4"
INDUSTRIAL STEEL RULES
6" PRECISION STAINLESS STEEL RULES
32096 4	616	6" Flex	5R	10, 100	32, 64	15/32"
32108 4	634	6" Flex	4R	8, 16	32, 64	15/32"
32111 4	676	6" Rigid	4R	8, 16	32, 64	3/4"
32114 5	678MED	6" Rigid	–	mm, .5mm	10, 20, 50, 100	3/4"
12" PRECISION STAINLESS STEEL RULES
32162 6	1201ME	12" Flex	–	16, 32, 64, mm, .5mm	8, 16, 32, 64	7/8"
32171 8	1210	12" Flex Center Finding	16, 32	32, 64	1"	
32174 9	1216	12" Flex	5R	10, 100	32, 64	15/32"
32180 0	1251	12" Flex	Model RR	HO, S, O, Gage	N Gg., mm, 64 Dec Equiv.	1"
31286 0	1276	12" Rigid	4R	8, 16	32, 64	1"
6" AND 12" PRECISON SATIN CHROME STAINLESS STEEL RULES
32123 7	CF616	6" Flex	5R	10, 100	32, 64	15/32"
32141 1	CF676	6" Flex	4R	8, 16	32, 64	3/4"
32147 3	CF678MED	6" Flex	_	mm, .5mm	10, 20, 50, 100,16, 32, 64	3/4"
32150 3	CF1216	12" Flex	5R	10, 100	32, 64	15/32"
32153 4	CF1227ME	12" Rigid	–	32, 64	mm, .5mm	1"
32159 8	CF1276	12" Rigid	4R	8, 16	32, 64	1"
ECOMONY STEEL RULES
6" PRECISION STAINLESS STEEL RULES
32036 0	300/1*	6" Flex		32, 64	Dec. Equiv.	15/32"
32041 4	300MM*	150mm Flex		mm, .5mm		15/32"
32042 1	300ME*	6" Flex (150 mm)		mm, 64	Metric Equiv.	15/32"
32046 9	301/1*	6" Flex		32, 64		1/4"
32049 0	301ME	6" Flex		mm, 16		1/4"
32060 5	305ME	6" Flex		mm, 16		15/32"
32063 6	307	6" Flex		8, 16 w/32nd End Grads		3/4"
30266 3	308	6" Flex		32, 64	Dec. Equiv.	3/4"
32072 8	310	6" Flex		32, 64	B&S Wire Gg.	3/4"
32075 9	311ME	6" Flex		mm-inch 16, 32	Comparison	3/4"
32093 3	CF306MD*	6" Flex		10, 50	mm, .5mm	15/32

*Furnished with pocket clip

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ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

GENERAL®

ULTRATEST® STEEL RULES

ULTRATEST ® Steel Rules are manufactured by a special process to meet or exceed federal specification GGG-R-791f for accuracy. They have ultra-fine black graduations against a hard satin chrome finish for easy reading and long life. All Ultratest® Rules are supplied with a plastic sleeve.

4R Graduation - 8ths, 16ths, 32nds, 64ths

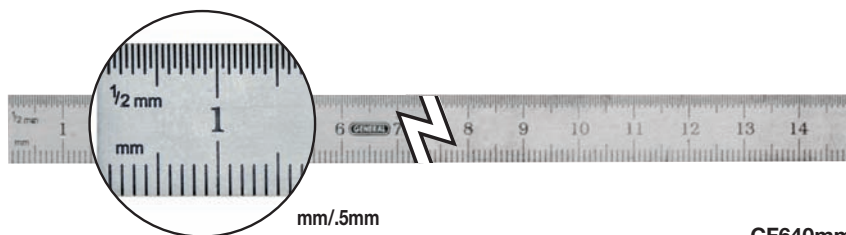16R Graduation - 32nds, 64ths, 50ths, 100ths
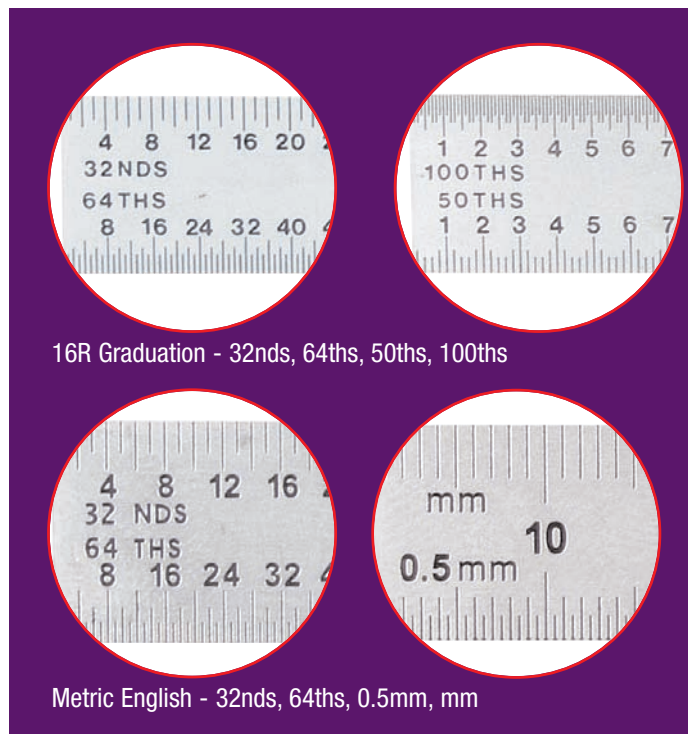
5R Graduation - 32nds, 64ths, 10ths, 100ths

Metric English - 32nds, 64ths, 0.5mm, mm

ULTRATEST® 150mm FLEX STEEL RULE
• Graduations - mm, .5mm, for both sides
• Ultra fine black graduations
• Hard satin chrome finish
• Length is 150mm long
• Width is 1/2"
• Comes in a plastic sleeve

UPC	NO.
39021 9	**CF640MM**

mm/.5mm

CF640mm

ULTRATEST® 6" FLEX STEEL RULE
• 5R Graduation - 32nds, 64ths; 10ths, 100ths
• Ultra fine black graduations
• Hard satin chrome finish
• Length is 6" long
• Width is 1/2"
• Comes in a plastic sleeve

UPC	NO.
33020 8	**CF645**

32nds/64ths   10ths/100ths

CF645

ULTRATEST® 6" FLEX STEEL RULE
• Graduation - 10ths, 100ths; mm, .5mm
• Ultra fine black graduations
• Hard satin chrome finish
• Length is 6" long
• Width is 1/2"
• Comes in a plastic sleeve

UPC	NO.
33035 2	**CF649MD**

10ths/100ths   mm/.5mm

CF649MD

MACHINIST

"It's Your Job . . . General Tools Make It Easier"   **T-49**

ULTRATEST®
STEEL RULES

ULTRATEST ® Steel Rules are manufactured by a special process to meet or exceed federal specification GGG-R-791f for accuracy. They have ultra-fine black graduations against a hard satin chrome finish for easy reading and long life. All Ultratest® Rules are supplied with a plastic sleeve.

MACHINIST

CF661

8ths/16ths   32nds/64ths

ULTRATEST® 6" RIGID STEEL RULE
- 4R Graduation - 8ths, 16ths w/32nd End Grads; 32nds, 64ths
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 6" long
- Width is 3/4"
- Comes in a plastic sleeve

UPC	NO.
33040 6	**CF661**

CF664

8ths/16ths   32nds/64ths

ULTRATEST® 6" RIGID STEEL RULE
- 4R Graduation - 8ths, 16ths; 32nds, 64ths
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 6" long
- Width is 3/4"
- Comes in a plastic sleeve

UPC	NO.
33050 5	**CF664**

CF667ME

32nds/64ths   mm/.5mm

ULTRATEST® 6"/150mm RIGID STEEL RULE
- Graduation - 32nds, 64ths; mm, .5mm
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 6" long
- Width is 3/4"
- Comes in a plastic sleeve

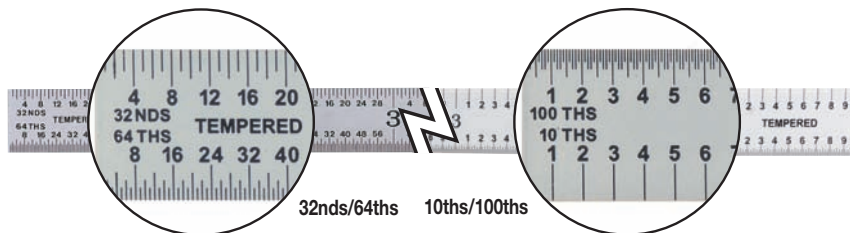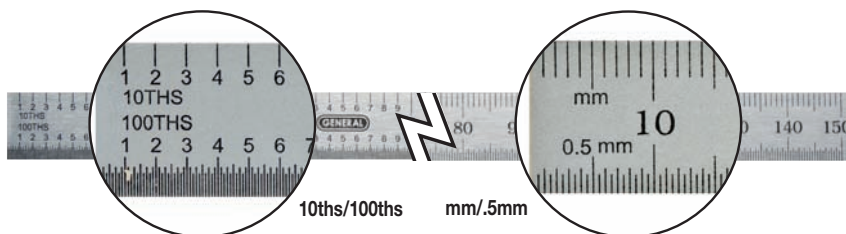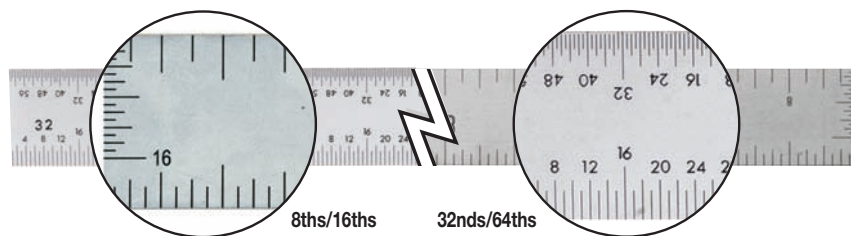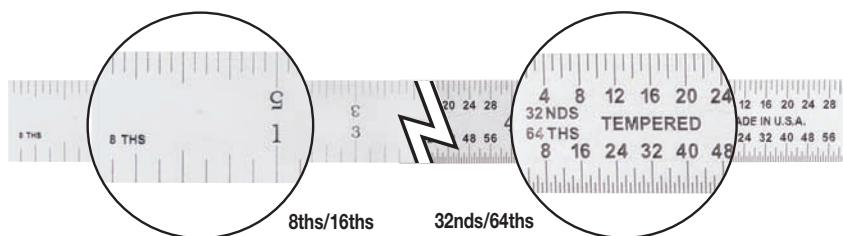| UPC	NO.
33065 9	**CF667ME**

CF1245

32nds/64ths   10ths/100ths

ULTRATEST® 12" FLEX STEEL RULE
- 5R Graduation - 32nds, 64ths; 10ths, 100ths
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 12" long
- Width is 1/2"
- Comes in a plastic sleeve

UPC	NO.
33085 7	**CF1245**

CF1246

32nds/64ths   50ths/100ths

ULTRATEST® 12" FLEX STEEL RULE
- 16R Graduation - 32nds, 64ths; 50ths, 100ths
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 12" long
- Width is 1/2"
- Comes in a plastic sleeve

UPC	NO.
33090 1	**CF1246**

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

GENERAL®

Ultratest® Steel Rules

TYPE OF GRADUATIONS:
4R Graduation - 8ths, 16ths, 32nds, 64ths.
5R Graduation - 32nds, 64ths, 10ths, 100ths.

16R Graduation - 32nds, 64ths, 50ths, 100ths.
Metric English - 32nds, 64ths, 0.5mm, mm.

ULTRATEST® 12"/300mm FLEX STEEL RULE
• Graduation - 32nds, 64ths; mm, .5mm
• Ultra fine black graduations
• Hard satin chrome finish
• Length is 12" (300mm) long
• Width is 1/2"
• Comes in a plastic sleeve

UPC	NO.
33095 6	**CF1247ME**

32nds/64ths   mm/.5mm

CF1247ME

ULTRATEST® 12" FLEX STEEL RULE
• Graduation - 10ths, 100ths; mm, .5mm
• Ultra fine black graduations
• Hard satin chrome finish
• Length is 12" long
• Width is 1/2"
• Comes in a plastic sleeve

UPC	NO.
33040 6	**CF1249MD**

10ths/100ths   mm/.5mm
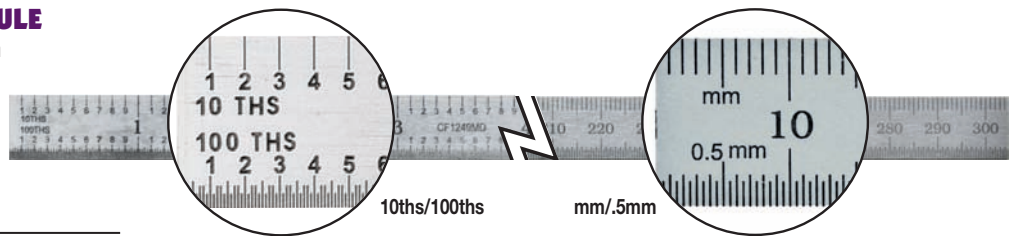
CF1249MD

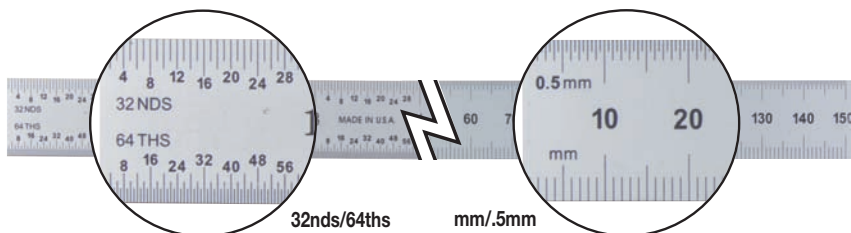## ULTRATEST® 12" RIGID STEEL RULE
• 4R Graduation - 8ths, 16ths; 32nds, 64ths
• Ultra fine black graduations
• Hard satin chrome finish
• Length is 12" long
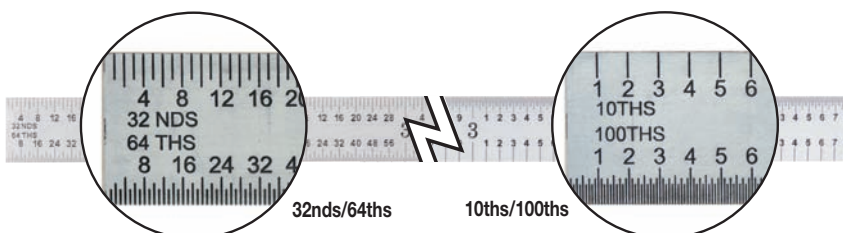• Width is 1"
• Comes in a plastic sleeve

UPC	NO.
33110 6	**CF1264**

8ths/16ths   32nds/64ths

CF1264

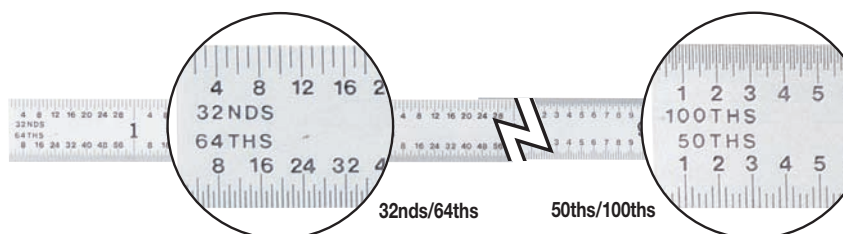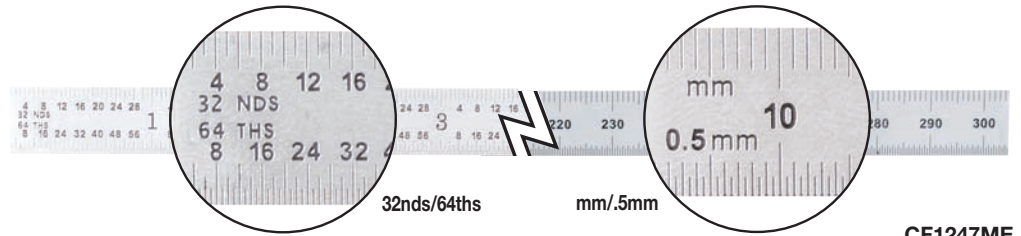## ULTRATEST® 18" RIGID STEEL RULE
• 5R Graduation - 32nds, 64ths; 10ths, 100ths
• Ultra fine black graduations
• Hard satin chrome finish
• Length is 18" long
• Width is 3/4"
• Comes in a plastic sleeve

UPC	NO.
33140 3	**CF1845**

10ths/100ths   32nds/64ths

CF1845

ULTRATEST® 24" FLEX RULE
• 5R Graduation - 32nds, 64ths; 10ths, 100ths
• Ultra fine black graduations
• Hard satin chrome finish
• Length is 24" long
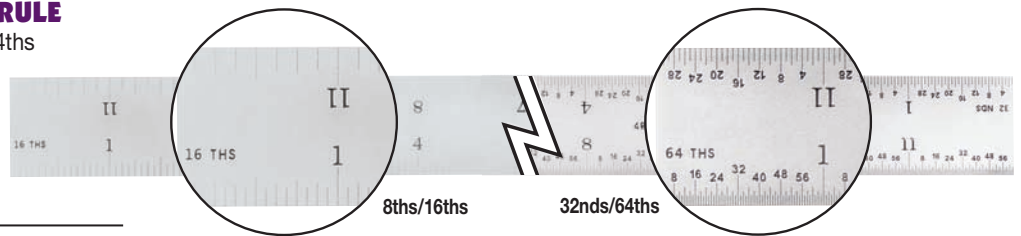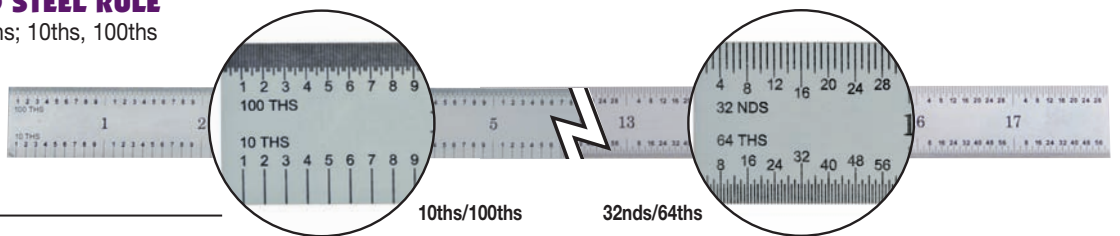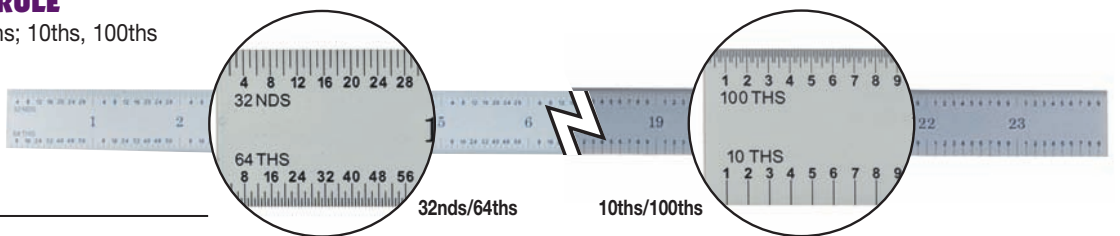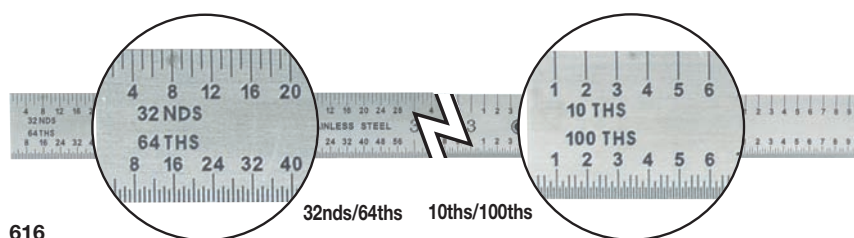• Width is 3/4"
• Comes in a plastic sleeve

UPC	NO.
39190 8	**CF2445**

32nds/64ths   10ths/100ths

CF2445

MACHINIST

"It's Your Job . . . General Tools Make It Easier"

Industrial Precison Rules

GENERAL®

General's Industrial Steel Rules and Economy Steel Rules are precision made with etched fine black graduations for easy reading and long life.

The two finishes available are polished stainless steel or satin chrome.

MACHINIST

PRECISION 6" FLEX STEEL RULE

- 5R Graduation - 32nds, 64ths; 10ths, 100ths
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 15/32"

UPC	NO.
32096 4	**616**

616 — 32nds/64ths · 10ths/100ths
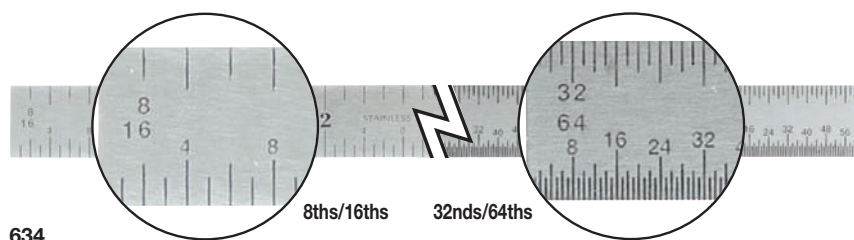
PRECISION 6" FLEX STEEL RULE

- 4R Graduation - 8ths, 16ths; 32nds, 64ths
- Ultra fine black etched graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 15/32"

UPC	NO.
32108 4	**634**

634 — 8ths/16ths · 32nds/64ths
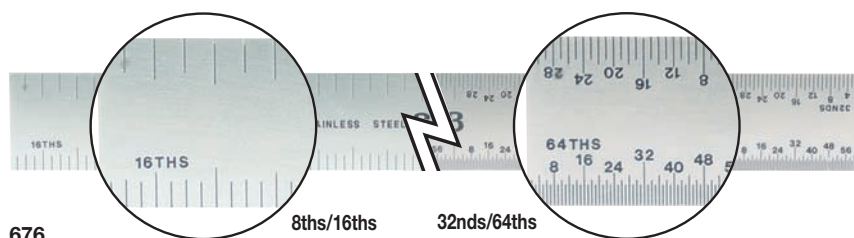
PRECISION 6" RIGID STEEL RULE

- 4R Graduation - 8ths, 16ths; 32nds, 64ths
- Ultra fine black etched graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 3/4"

UPC	NO.
32111 4	**676**

676 — 8ths/16ths · 32nds/64ths
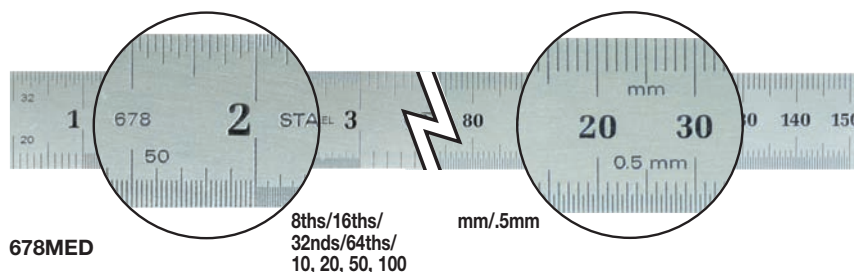
PRECISION 6"/150mm RIGID STEEL RULE

- 4R Graduation - 8ths, 16ths, 32nds, 64ths,
    Side 2 - 10, 20, 50, 100; mm, .5mm
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 3/4"

UPC	NO.
32114 5	**678MED**

678MED — 8ths/16ths/ 32nds/64ths/ 10, 20, 50, 100 · mm/.5mm
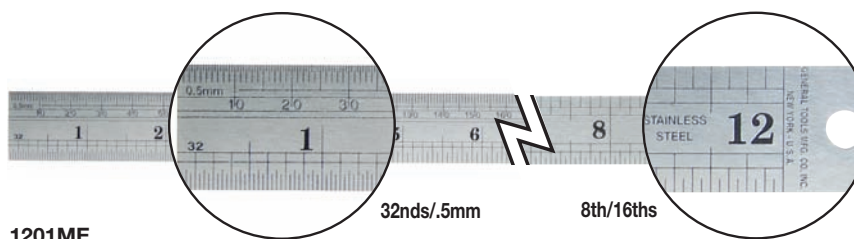
PRECISION 12" FLEX STEEL RULE

- Graduation - .5mm, 32nds; 8ths,16ths
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 13" overall
- Width is 7/8" • Hanging hole

UPC	NO.
32162 6	**1201ME**

1201ME — 32nds/.5mm · 8th/16ths
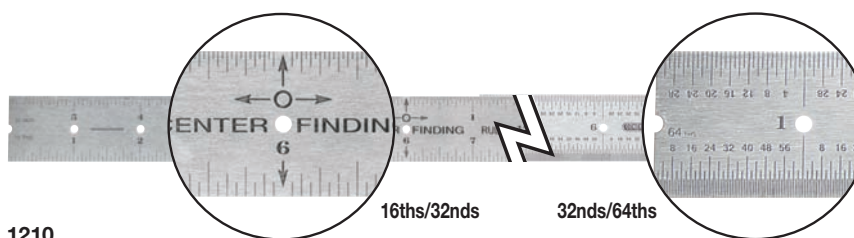
PRECISION 12" FLEX STEEL RULE

- Center finding graduation -
    16ths, 32nds, 32nds, 64ths
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 12" long   • Width is 15/32"

UPC	NO.
32171 8	**1210**

1210 — 16ths/32nds · 32nds/64ths

ALWAYS WEAR
OSHA APPROVED
SAFETY GOGGLES

TYPE OF GRADUATIONS:
4R Graduation - 8ths, 16ths, 32nds, 64ths.
5R Graduation - 32nds, 64ths, 10ths, 100ths.

16R Graduation - 32nds, 64ths, 50ths, 100ths.
Metric English - 32nds, 64ths, 0.5mm, mm.

PRECISION 12" FLEX STEEL RULE
• 5R Graduation - 32nds, 64ths; 10ths, 100ths
• Ultra fine black graduations
• Polished Stainless Steel finish
• Length is 12" long
• Width is 15/32"

UPC	NO.
32174 9	**1216**

32nds/64ths   10ths/100ths
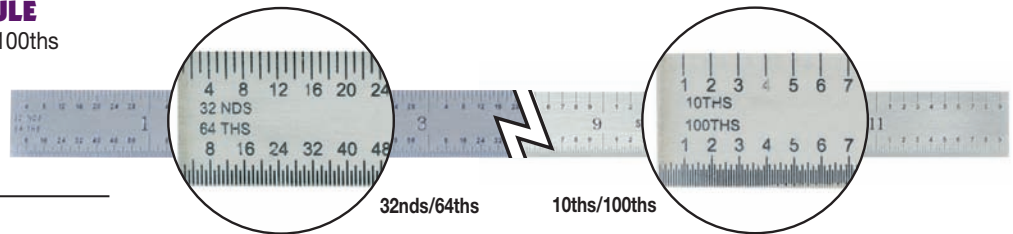
1216

PRECISION 12" FLEX STEEL RULE
• Model RR Graduation - HO, S, O Gage;
  N Gg, mm, 64ths Dec Equiv
• Ultra fine black graduations
• Polished Stainless Steel finish
• Length is 12" long
• Width is 1"

UPC	NO.
32180 0	**1251**

HO, S, O   N Gg, mm,
64 Dec Equiv
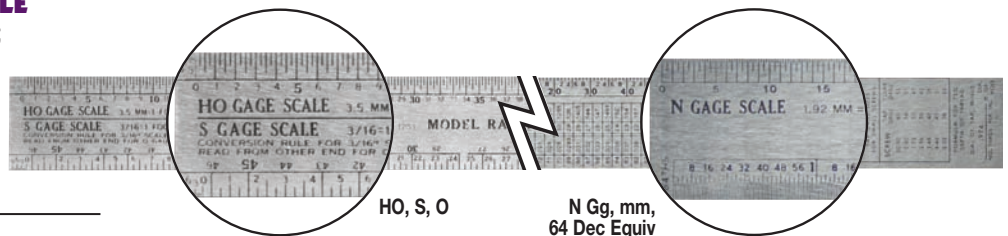
1251

PRECISION 12" RIGID STEEL RULE
• 4R Graduation - 8ths, 16ths; 32nds, 64ths
• Ultra fine black graduations
• Polished Stainless Steel finish
• Length is 12" long
• Width is 1"

UPC	NO.
31286 0	**1276**

8ths/16ths   32nds/64ths

1276

PRECISION 6" FLEX STEEL RULE
• 5R Graduation - 32nds, 64ths; 10ths, 100ths
• Ultra fine black graduations
• Satin chrome finish
• Length is 6" long
• Width is 15/32"

UPC	NO.
32123 7	**CF616**

32nds/64ths   10ths/100ths
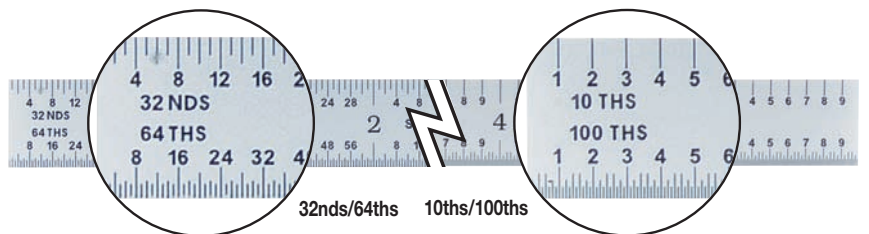
CF616

PRECISION 6" FLEX RULE
• 4R Graduation - 8ths, 16ths; 32nds, 64ths
• Ultra fine black graduations
• Satin chrome finish
• Length is 6" long
• Width is 3/4"

UPC	NO.
32141 1	**CF676** Carded
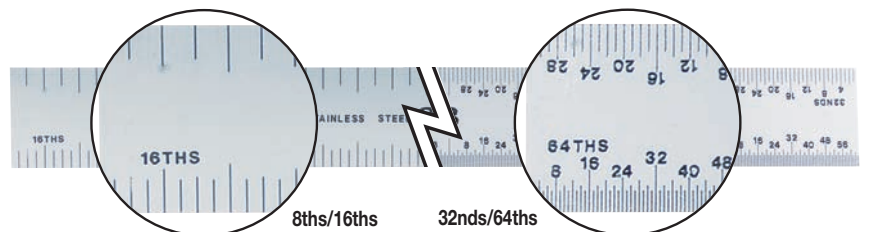
8ths/16ths   32nds/64ths

CF676

MACHINIST

Industrial Precision Rules

GENERAL®

General's Industrial Steel Rules and Economy Steel Rules are precision made with etched fine black graduations for easy reading and long life.

The two finishes available are polished stainless steel or satin chrome.

MACHINIST
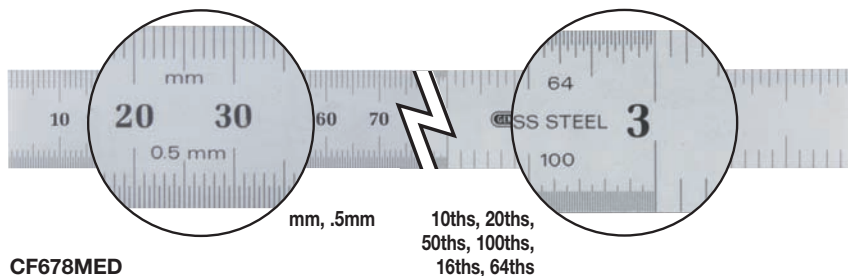
PRECISION 6"/150mm FLEX STEEL RULE
- Graduation - mm, .5mm; 10ths, 20ths, 50ths, 100ths, 16ths, 32nds, 64ths
- Ultra fine black etched graduations
- Satin chrome finish
- Length is 6" long
- Width is 3/4"

UPC	NO.
32147 3	**CF678MED**
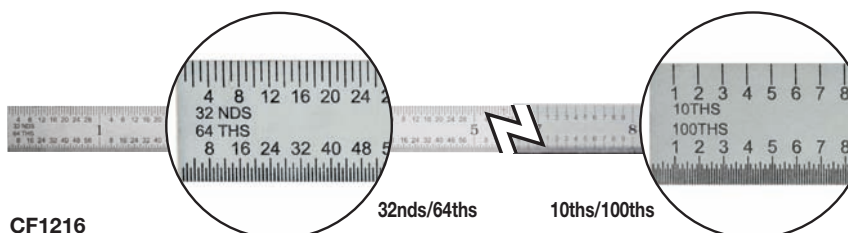
CF678MED
mm, .5mm
10ths, 20ths, 50ths, 100ths, 16ths, 64ths

PRECISION 12" FLEX STEEL RULE
- 5R Graduation - 32nds, 64ths; 10ths, 100ths
- Ultra fine black graduations
- Satin chrome finish
- Length is 12" long
- Width is 15/32"

UPC	NO.
32150 3	**CF1216**

CF1216
32nds/64ths
10ths/100ths
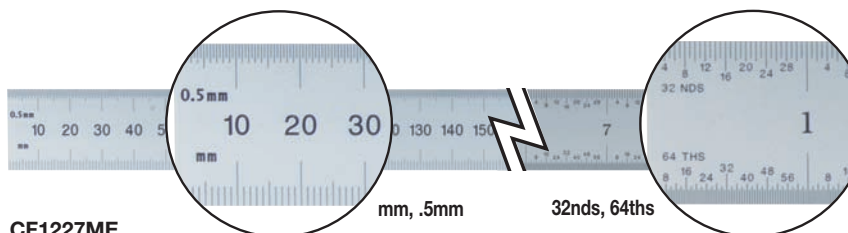
PRECISION 12" RIGID STEEL RULE
- Graduation - mm, .5mm; 32nds, 64ths
- Ultra fine black graduations
- Satin chrome finish
- Length is 12" long
- Width is 1"

UPC	NO.
32153 4	**CF1227ME**
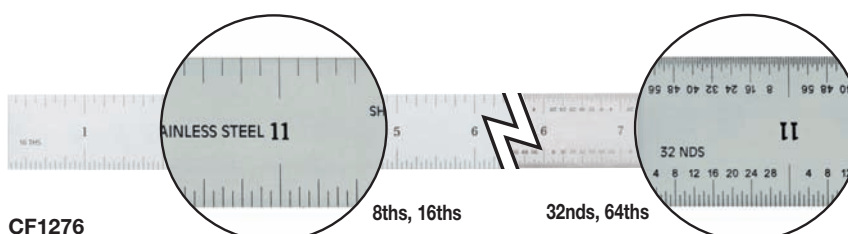
CF1227ME
mm, .5mm
32nds, 64ths

PRECISION 12" RIGID STEEL RULE
- 4R Graduation - 8ths, 16ths; 32nds, 64ths
- Ultra fine black graduations
- Satin chrome finish
- Length is 12" long
- Width is 1"

UPC	NO.
32159 8	**CF1276**

CF1276
8ths, 16ths
32nds, 64ths
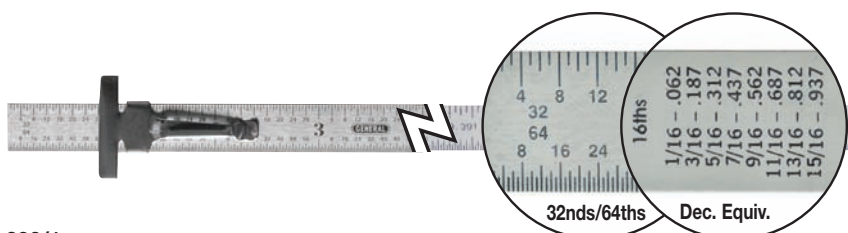
PRECISION 6" FLEX STEEL RULE
- Graduation - 32nds, 64ths; Dec. Equiv
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 6" long   • Width is 15/32"
- Convenient Pocket Clip
- Comes in a plastic sleeve

UPC	NO.
32036 0	**300/1**

300/1
32nds/64ths
Dec. Equiv.

PRECISION 150mm FLEX STEEL RULE
- Graduation - mm, .5mm
- Ultra fine black etched graduations
- Polished Stainless Steel finish
- Length is 150mm long   • Width is 15/32"
- Convenient Pocket Clip

UPC	NO.
32041 4	**300MM**

300mm
mm, .5mm

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

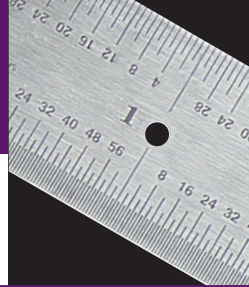**TYPE OF GRADUATIONS:**
4R Graduation - 8ths, 16ths, 32nds, 64ths.
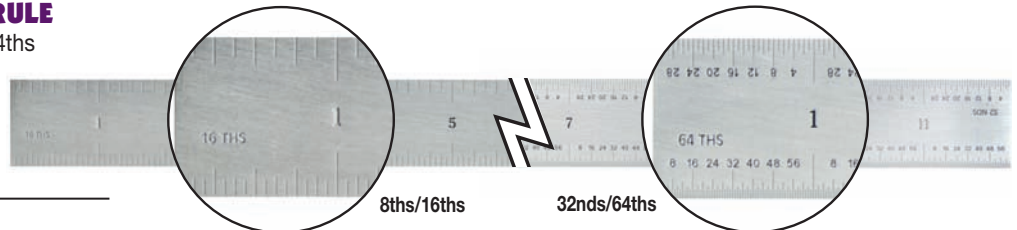5R Graduation - 32nds, 64ths, 10ths, 100ths.

16R Graduation - 32nds, 64ths, 50ths, 100ths.
Metric English - 32nds, 64ths, 0.5mm, mm.

PRECISION 6"/150mm FLEX STEEL RULE
- Graduation - mm, 64ths; Metric Equiv.
- Ultra fine black etched graduations
- Polished Stainless Steel finish
- Length is 6" (150mm) long
- Width is 15/32"
- Convenient Pocket Clip

UPC	NO.
32042 1	**300ME**

mm/64ths   Metric Equiv.
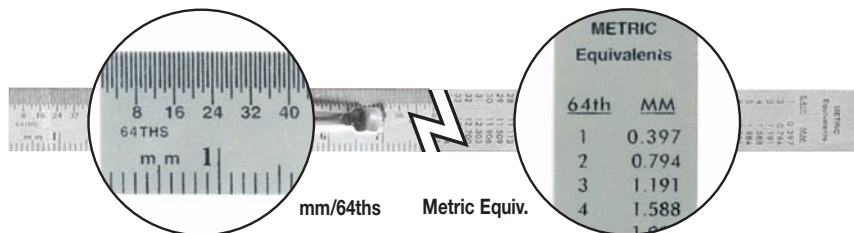
300ME

PRECISION 6" FLEX STEEL RULE
- Graduation - 32nds, 64ths
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 1/4"
- Convenient Pocket Clip

UPC	NO.
32046 9	**301/1**
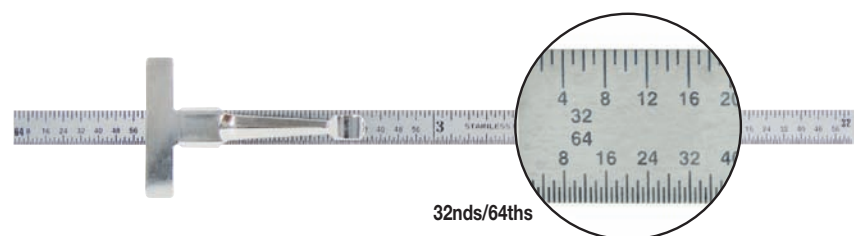
32nds/64ths

301/1

PRECISION 6"/150mm FLEX STEEL RULE
- Graduation - mm, 16ths
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 1/4"

UPC	NO.
32049 0	**301ME**
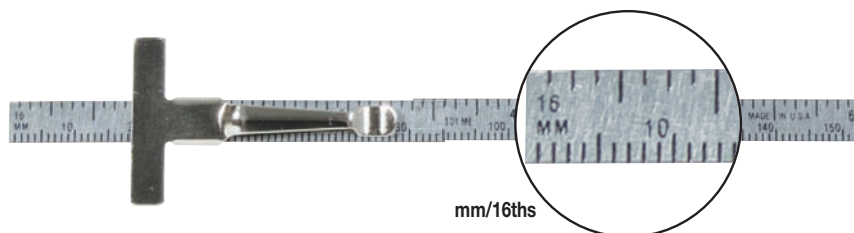
mm/16ths

301ME

PRECISION 6"/150mm FLEX STEEL RULE
- Graduation - mm, 16ths
- Ultra fine black etched graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 15/32"

UPC	NO.
32060 5	**305ME**
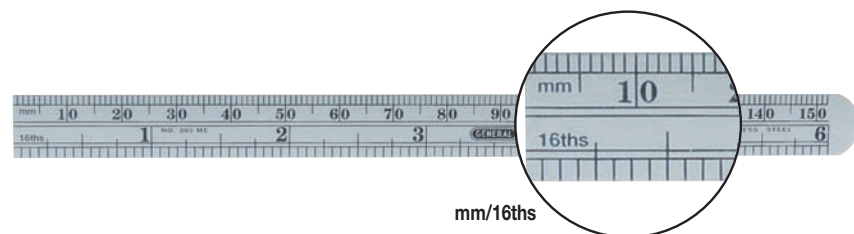
mm/16ths

305ME

PRECISION 6" FLEX STEEL RULE
- Graduation - 8ths, 16ths w/32nd End Grads.
- Ultra fine black etched graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 3/4"

UPC	NO.
32063 6	**307** Carded

8ths/16ths w/ 32nd End Grads.

307

MACHINIST

"It's Your Job . . . General Tools Make It Easier"   **T-55**
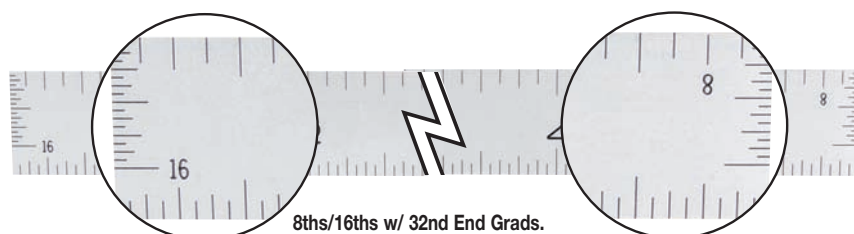
Economy Precision Rules

MACHINIST

***ULTRA RULE*™ STAINLESS STEEL RULES**

General's *ULTRA RULE* ™ Precision Marking Rule looks like an ordinary ruler. Look closer and you will see micro-fine marking holes and slots at every scale position to instantly locate a sharp pencil point or scriber exactly where you want it. You can effortlessly place your mark precisely on target with zero uncertainty and no eye strain.
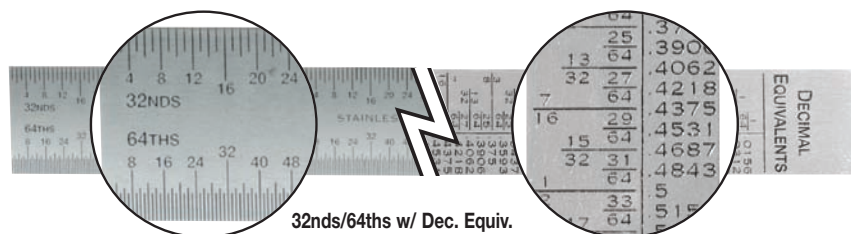
PRECISION 6" FLEX STEEL RULE
- Graduation - 32nds, 64ths w/ Dec. Equiv. Table
- Ultra fine black etched graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 3/4"

UPC	NO.	
30266 3	**308**	Carded

32nds/64ths w/ Dec. Equiv.

308
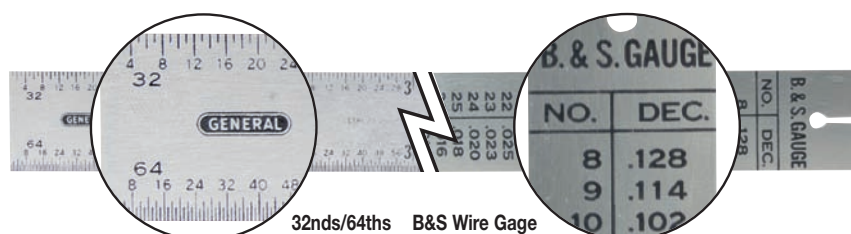
PRECISION 6" FLEX STEEL RULE
- Graduation - 32nds, 64ths; B & S Wire Gage
- Ultra fine black etched graduations
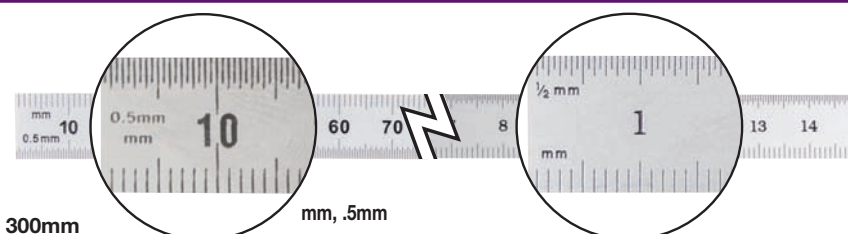- Polished Stainless Steel finish
- Length is 6" long
- Width is 3/4"

UPC	NO.	
32072 8	**310**	Carded

32nds/64ths   B&S Wire Gage

310
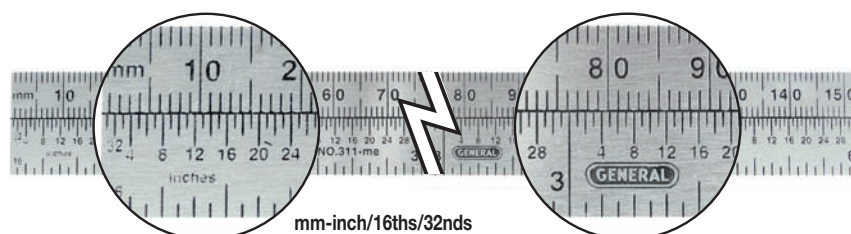
PRECISION 6"/150mm FLEX STEEL RULE
- Graduation - Comparison mm-inch, 16ths, 32nds
- Ultra fine black etched graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 3/4"

UPC	NO.	
32075 9	**311ME**	Carded

mm-inch/16ths/32nds

311ME

ULTRA RULE™ STAINLESS STEEL RULES
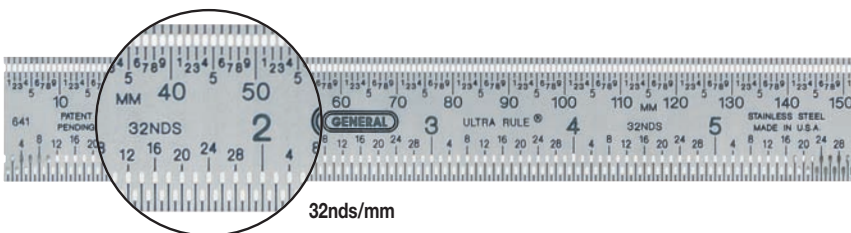
6"/150mm FLEXIBLE MARKING ULTRA-RULE
- Graduation - 32nds, mm's
- Ultra fine black graduations
- Micro-fine marking holes
- Polished Stainless Steel finish
- Width is 7/8"
- Comes with a No. 640 0.5mm Mechanical Pencil

UPC	NO.
32112 1	**641**
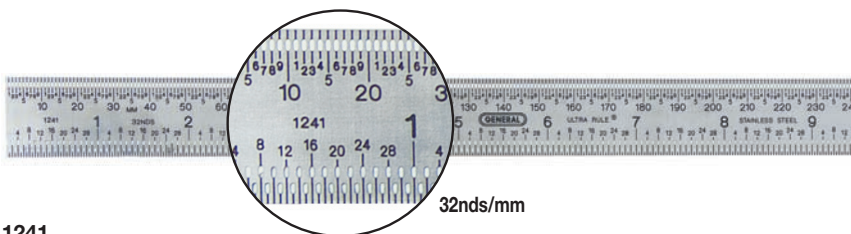
32nds/mm

641

12"/300mm FLEXIBLE MARKING RULE
- Graduation - 32nds, mm's
- Ultra fine black graduations
- Micro-fine marking holes
- Polished Stainless Steel finish
- Width is 7/8"
- Comes with a No. 640 0.5mm Mechanical Pencil

UPC	NO.
32181 7	**1241**

32nds/mm

1241

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

General's Feeler Gages are used for adjusting and gaging spark plugs, distributors points, valve clearances and measuring spaces between parts. All of the feeler gages are made of the finest high grade precision gage steel. Each leaf is etched with size numbers in the thousandths of an inch, as well as corresponding millimeter sized, for inch identification.

PRECISION FEELER GAGES
- Made of the finest high grade precision gage steel
- Each leaf is etched with size numbers in the thousandths for quick identification
- Knurled locknut holds the leaves in desired position
- Conforms to government specifications GGG-G-17b
- Special holder prevents edges from damage
- Leaves include the following sizes: .0015, .002, 0025, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024, and .025"

PRECISION 26 STRAIGHT LEAF FEELER GAGE
- 3" (75mm) leaves are 1/2" (12mm) wide

UPC	NO.	LEAVES	SIZES
31306 5	**226**	26	.0015" to .025"

PRECISION 26 TAPER LEAF FEELER GAGE
- 3" (75mm) leaves taper from 1/2" (12mm) to just 1/4" (6.5mm) wide for working in confined spaces

UPC	NO.	LEAVES	SIZES
31309 6	**226T**	26	.0015" to .025"

226T

226

26-LEAF ECONOMY GAGE
- General's best selling feeler gage provides precision accuracy at a reasonable price
- 3" leaves include the following sizes: .0015, .002, 0025, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024, and .025"
- Metric range is from .037 to .635mm

UPC	NO.	LEAVES	SIZES
31311 9	**230**	26	.0015" to .025"

230

15-LEAF ECONOMY GAGE WITH 3" (75MM) LEAVES
- Gage includes .002, .003, .004, .005, .006, .007, .008, .010, .011, .012, .013, .014, .015, .020, and .025"
- Metric range is from .051 to .635mm

UPC	NO.	LEAVES	SIZES
31313 3	**231**	15	.002" to .025"

231

15-LEAF ECONOMY GAGE WITH 6" (150MM) LEAVES
- Longer leaves allow accurate measuring in hard-to-reach places
- Gage includes .002, .003, .004, .005, .006, .007, .008, .010, .011, .012, .013, .014, .015, .020, and .025"
- Metric range is from .051 to .635mm

UPC	NO.	LEAVES	SIZES
31316 4	**232**	15	.051 to .635mm

232

MACHINIST

"It's Your Job . . . General Tools Make It Easier"

General's Precision Squares are used for checking internal and external 90° angles. Screw Pitch Gages are notched for measuring inside threads of small holes and nuts as well as external threads.

Center Gages improve efficiency and speed up set-up time for lathe thread cutting. Wiggler/Center Finders locate spindle centers and working points on drill presses, milling and other machines.

MACHINIST

WIGGLER/CENTER FINDER SET
- The snap-in ball and socket wiggler is essential for precise setups in machine shops
- Locates spindle centers and working points on drill presses, milling and other machines
- Four interchangeable point attachments snap into adjustable spring tension clutch holder
- Set includes snap-in holder, needle point, disk point, ball shaft and indicator shaft packed in a vinyl case

UPC	NO.
31418 5	**S389-4**

S389-4

PRECISION SQUARES
- Use where accurate right angles are essential
- For checking external and internal 90° angles. Beam is riveted to the fully ground and polished carbon steel blade
- Groove on inside corner of beam for clearance of dirt or burrs

270-6

UPC	NO.	BLADE LENGTH	BEAM LENGTH
31340 9	**270-2**	2-1/8" (53mm)	1-3/8" (35mm)
31343 0	**270-3**	3" (75mm)	1-1/2" (38mm)
31346 1	**270-4**	4-1/4" (107mm)	2-3/8" (60mm)
31349 2	**270-6**	6-1/4" (147mm)	3-1/4" (82mm)
02701 6	**S270**	Set of all 4 Squares	

SCREW PITCH GAGES
- These finely crafted measuring devices are used for gaging V, American National or U.S. standard 60° threads
- Gages are notched for measuring inside threads of small holes and nuts as well as external threads
- Set of 51 screw pitches combines all sizes from 4 to 84, including 11-1/2 and 27 pipe thread sizes
- Knurled thumb nuts lock the case in an open or closed position
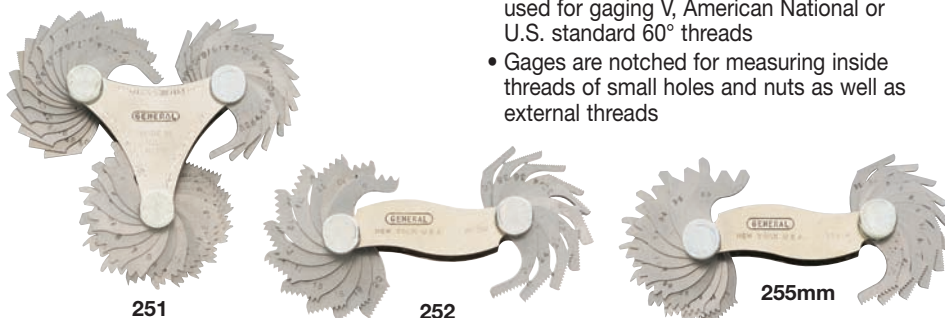
UPC	NO.	NO. OF PITCHES	SIZES
31321 8	**251**	51	4 to 84
31323 2	**252**	22	9 to 40
31326 3	**255mm**	22	.35 to 6.0mm

251   252   255mm

CENTER GAGE
- General's center gage improves efficiency and speeds set-ups for lathe thread cutting
  - The gage is graduated in 14ths, 20ths, 24ths, and 32nds of an inch for checking the number of threads per inch
- 60° angles for U.S. standard threads and double depth of American National thread
- Made of hardened spring tempered steel with protective satin chrome finish
- Notches have clearance slots

UPC	NO.
35010 7	**CF778**

CF778

REFERENCE TABLE
715
- Essential tap drill and decimal equivalents reference table for toolmakers, machinists and mechanics
- Front has machine screw size tap drill chart for recommended 75% depth thread
- Back has decimal equivalents table in 64ths from 1/64" to 63/64"
- For National Fine and National Coarse, American Standard Pipe and metric threads
- Convenient 6" rule is graduated in 64ths

UPC	NO.
35015 2	**715**

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

Wire Gages are used for gaging the thickness of non-ferrous wire and metals such as copper, brass and aluminum. Sheet Metal Gages are used for gaging uncoated sheet metal, plate iron and steel. Drill Gages and Hobby Gages are are used to quickly and conveniently identify drill bit sizes.

DRILL GAGES

- General's drill gages are used to quickly and conveniently identify drill bit sizes
- Made of heat treated heavy gage steel, machined and ground to close tolerances
- Hole sizes and decimal equivalents are permanently marked on the face
- No. 13 is 3" x 1-1/8" wide. Nos. 14 and 15 are 6-1/2" x 2-1/2" wide
- No. 14 and No. 15 conform to government specifications GG-G-86b

UPC	NO.	
22006 6	**13**	Number size drills 61 to 80
22009 7	**14**	Fractional size drills 1/16" to 1/2" x 64ths
22012 7	**15**	Number size drills 1 to 60

13

14

15
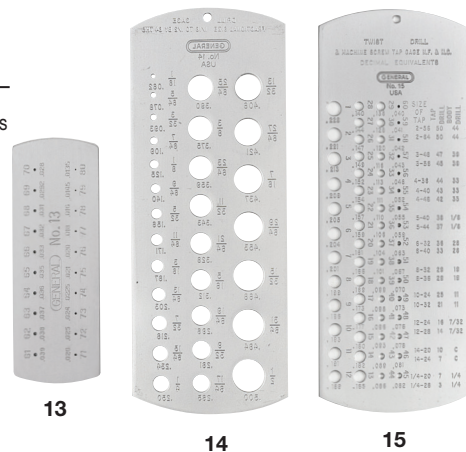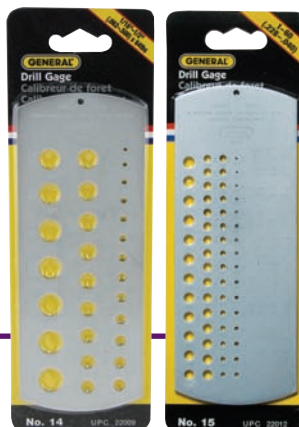
HOBBY DRILL GAGE

- Made of heat treated heavy gage steel, machined and ground to close tolerances
- Etched graduations are filled in black to give high contrast and will not wear off
- Gage measures 2-3/8" x 6-3/4" (60 x 172mm) overall
- Stainless steel will not rust

UPC	NO.	SPECIFICATIONS
22011 0	**24**	Fractional size drills 1/16" to 1/2" x 64ths

24
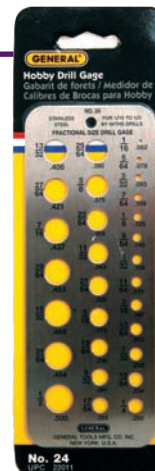
WIRE GAGE

- American Standard wire gage 0 to 36
- For gaging non-ferrous wire and metals such as copper, brass and aluminum
- Decimal equivalents of each size are stamped on reverse side
- Satin finished, heavy gage hardened and tempered steel
- 3-1/4" diameter, 3/32" thick

UPC	NO.
22036 3	**20**

20
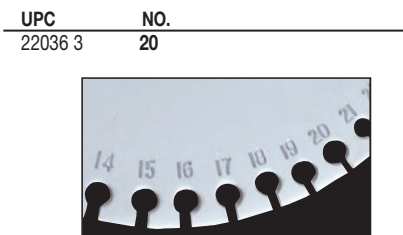
SHEET METAL GAGE

- Gage numbers are U.S. Standard 0 to 36
- For gaging uncoated sheet metal, plate iron and steel
- Decimal equivalents of each size are stamped on reverse side
- Satin finished, heavy gage steel is hardened and tempered
- 3-1/4" diameter, 3/32" thick

UPC	NO.
22041 7	**21**

21

MACHINIST

"It's Your Job . . . General Tools Make It Easier"
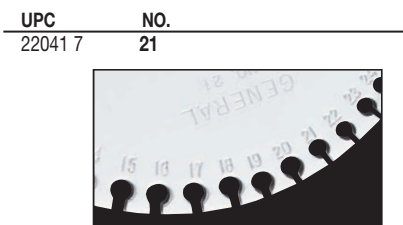
The Multi-Use Rule and Gage performs five separate functions: drill point gage, bevel protractor, center finder, circle divider and tap and drill gage.

Steel Protractors are preferred by machinists, draftspeople, and mechanics for setting bevels, measuring and transferring angles.

MACHINIST

MULTI USE RULE AND GAGE
- One of our most popular pocket tools performs five separate and distinct functions
- Drill point gage is used for checking 59° angle drill points
- Bevel protractor is used for measuring and laying out angles
- Center finder locates centers of shafts or circles
- Center finder locates centers of shafts or circles
- Circle divider (up to nine equal parts) is used for dividing circles into sectors, regular polygons and polygrams
- Tap and drill table shows popular tap sizes with correct drill sizes for National form of thread
- Made of long-wearing stainless steel
- 4" rule has etched graduations in 64ths and millimeters

UPC	NO.
22015 8	**16ME**

16ME

QUICK CHECK SCREW GAGE
- Quick way to identify machine screws, bolts, wood screws, standard size rivets and common cotter pin sizes up to 5/16" (8mm)
- 3" scale to check screw lengths
- Checker gives required drill size for corresponding tap size and proper drill size for like hole
- Threaded holes indicate threads per inch while unthreaded indicate size by number and fractions of an inch
- Durable engineering plastic

UPC	NO.
35018 3	**714**

714

STEEL PROTRACTORS
- Preferred by machinists, draftspeople, and mechanics for setting bevels, measuring and transferring angles
- Made of ground stainless steel for optimum accuracy
- Permanently etched graduations from 0 to 180° in opposite directions
- 3-3/8" x 2" head
- 6" adjustable protractor arm locks into desired position with knurled thumb nut

UPC	NO.	STYLE
22018 9	**17**	Square head
22021 9	**CF17**	Square head (Stain chrome finish)
22024 0	**18**	Round head

17

18

GENERAL®

The Pro-Angle™ Digital Protractor takes the guesswork out of measuring, marking, reading and transferring angels. The 6" Stainless Steel Protractor arm has a knurled locking nut. The large, display can be inverted for easy, instant reading. The Hold Function can be used to freeze measurements.

6" FLEXIBLE ULTRA-RULE PROTRACTOR
• Graduation - Degrees, 1/2 Degrees, 32nds
• Ultra fine black graduations
• Micro-fine marking holes
• Polished stainless steel finish
• Width is 3-7/8"
• Comes with a No. 640 0.5mm mechanical pencil

UPC	NO.
22165 0	**30**
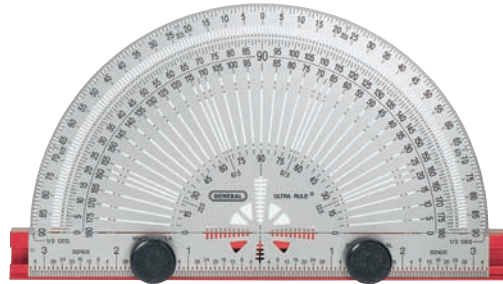
30

PROTRACTOR AND DEPTH GAGE
• Permanently etched with graduations from 0 to 180° in opposite directions
• Narrow 6" x 1/4" depth gage rule has etched graduations in 32nds and 64ths
• Spring tension nut locks rule for making both depth and angle measurements

• Made of stainless steel

UPC	NO.	STYLE
22027 1	**19**	Square head

19

Pro-ANGLE™
DIGITAL PROTRACTOR

Take the guesswork out of measuring, marking, reading and transferring angles
• 6" (150mm) stainless steel protractor arm with knurled locking nut
• Large, easy-to-read display
• Absolute and Relative measurements
• Accuracy: 0.1°
• Resolution: 0.05°
• Range: 0.00° to 180.00°
• Display can be inverted for easy reading
• Hold function to freeze measurement
• Power Source: 1 "CR2023" (3.0V) battery (included)

UPC	NO.
26008 6	**1702**
	CR2032 replacement battery

ULTRATECH™
T O O L   S Y S T E M

NEW!

1702

Inverted Display

MACHINIST TOOLS
Digital Calipers

GENERAL®

Electronic Digital Calipers do the work of dial calipers with added benefits; high-contrast liquid crystal display provides easy, instant readings with no need for calculations. Microprocessor-based calipers convert from inch to metric at the push of a button. General's high quality, easy-to-read Electronic Digital Calipers make precise inside, outside, depth and step measurements.

DEPTH/ANGLE GAGE
- Our easy to read gage makes precise depth measurements in small holes and slots; also doubles as a protractor
- Spring tension nut eases depth and angle measuring by securing rule in milled slot at 90° angle to base
- Permits easy setting of protractor angle to 30°, 45° and 60° settings on both sides
- 6" x 1/4" etched stainless steel rule graduated in 32nds and 64ths
- 2-1/2" wide hardened steel base

UPC	NO.
31586 1	**444**

444

FRACTION+
6", 8" & 12" STAINLESS STEEL DIGITAL FRACTIONAL CALIPERS

- 6" (153mm) range
- Heavy-duty stainless steel construction
- Convenient auto-off feature
- Three mode digital display: Decimal Inches, Fractions, Metric
- Inside, outside, depth & step measurements
- Accuracy: +/- 0.001", +/- 0.02mm

- Resolution: 0.0005", 0.01mm, 1/64"
- Power Source: 1 "SR44" (1.5V) battery included

UPC	NO.	RANGE	
01470 2	**147**	0 - 6"	(0 - 153mm)
01478 3	**1478**	0 - 8"	(0 - 203mm)
14712 7	**14712**	0 - 12"	(0 - 305mm)

147

No. 147 Digital Display

FRACTION+
6" CARBON FIBER DIGITAL FRACTIONAL CALIPER

- 6" (153mm) range
- Lightweight, non-marring carbon fiber composite
- Convenient auto-off feature
- Three mode digital display: Decimal Inches, Fractions, Metric
- Inside, outside, depth & step measurements
- Accuracy: +/- 0.008", +/- 0.2mm
- Resolution: 0.0005", 0.01mm, 1/64"
- Power Source: 1 "SR44" (1.5V) battery incl.

UPC	NO.	RANGE
01460 3	**146**	0 - 6" (0 - 153mm)
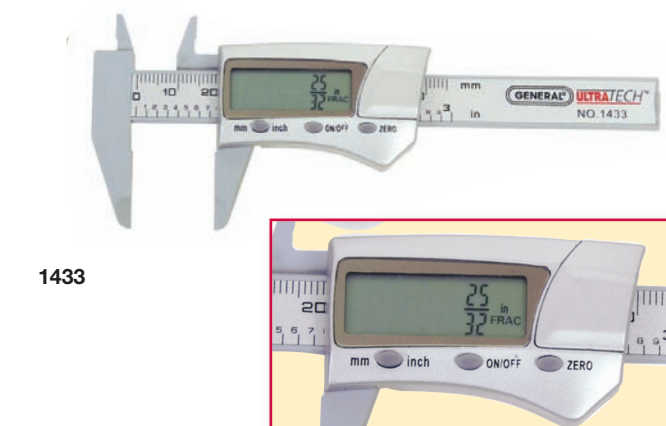
146

No. 146 Digital Display

FRACTION+
3" CARBON FIBER DIGITAL FRACTIONAL CALIPER

- 3" (76mm) range
- Lightweight non-marring carbon fiber composite
- Convenient auto-off feature
- Three mode digital display: Decimal Inches, Fractional and Metric
- Convenient pocket clip
- Accuracy: +/- 0.005" +/- 0.1mm
- Inside, outside, depth & step measurements
- Resolution: 0.0005", 0.01mm, 1/64"
- Power Source: 1 "SR54" (1.5V) silver oxide battery included

UPC	NO.	RANGE
01433 7	**1433**	0 - 3" (0 - 76mm)

1433

No. 1433 Digital Display

Toll Free 800-697-8665 • Fax 212-431-6499 • **www.generaltools.com**

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

General's Micrometers are used to measure distances to the nearest ten thousandth of an inch. The measurement is usually expressed or written as a decimal. The types of micrometers commonly used are made so that the longest movement possible between the spindle and the anvil is 1 inch. This movement is called the "range".

6" DIAL CALIPER
- Stainless steel construction for accuracy and durability
- Large, clear dial accurately reads to .001"
- Satin chrome scale with clearly etched tenths of inch graduations
- Covered rack ensures smooth operation by preventing dirt and chips from entering rack and gear mechanism
- Inside, outside, depth and step measurement
- Lock for repetitive measurement
- Free wheeling thumb roller
- Depth stop rod
- Adjustable bezel for zero setting

UPC	NO.	CAPACITY
10700 8	**107**	0 - 6" (0 - 153mm)

107

DIAL CALIPER AND MARKING SET
- This set contains three of the most useful measuring and marking tools for mechanics and machinists
- Set includes: 6" Dial Caliper; 6" x 3/4" Stainless Steel Ruler with satin finish and reversible Tip Carbide Scriber with magnetic pick-up
- Ruler has etched and filled 4R graduations (1/8", 1/16", 1/32", 1/64")
- Scriber has aluminum body with knurled handle in an overall length of 4-3/4"
- Caliper has inside, outside, depth and step measurement
- Caliper has lock for repetitive measurement
- Free wheeling thumb roller
- Packaged in a sturdy, fitted, plastic case designed specifically for this set

UPC	NO.
10800 5	**108**

108

PRECISION VERNIER CALIPER
- General's vernier caliper is an extremely accurate measuring tool guaranteed to .001" accuracy
- Vernier scale is extra long for easier and more accurate readings
- Permanent black graduations
- Hardened stainless steel construction with beveled lower jaws and pointed beveled upper jaws
- Depth gage
- Automatic thumb lock
- Conversion table on back
- Plastic case with instructions
- Satin chrome finish

UPC	NO.	GRADS
33450 3	**MG6001DC**	0-6" range, .001" bottom and 1/20mm top grads
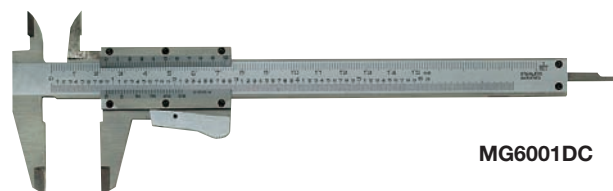
MG6001DC

PRECISION MICROMETERS FORGED STEEL FRAME
- Forged steel frame eliminates flexing for greater accuracy
- Reads to .001". Accurate to .0003"
- Hardened and precision ground measuring surfaces
- Positive spindle lock holds measurement
- Satin chrome thimble and barrel with easy-to-read black contrasting graduations
- Friction stop for repetitive readings
- Quick and easy zero adjustment with spanner wrench (included)

UPC	NO.	RANGE
34185 3	**MG1001**	0" to 1"
34184 6	**MG1001MM**	0 to 25mm

MG1001

UTILITY MICROMETER
- A practical and economical measuring device for beginners and hobbyists
- Well-suited for use in training programs, general toolroom and machine shop use and automotive work
- Accuracy guaranteed to .001"
- Satin chrome thimble and barrel with easy-to-read black contrasting graduations
- Special wrench is included for simple zero adjustments
- Ground and polished carbide measuring faces
- Engraved graduations on barrel
- Lock for repetitive measurement

UPC	NO.	RANGE INCLUDES
44103 4	**102**	0" to 1"

102

"It's Your Job . . . General Tools Make It Easier"

MACHINIST

General's Dial Indicators provide all the features necessary for precise quality control functions. Large dials provide easy to read measurements. Our Dial Indicators meet or exceed federal specifications for accuracy. General's four-piece set for toolmakers and machinists consists of square and miter heads, center head and bevel protractor head. The 12" blade is fully hardened and tempered steel.

MACHINIST

MG1780

ULTRATEST® PLUNGER DIAL INDICATOR
- Large 2-1/2" diameter dial indicator is made to the highest standards, with extreme accuracy throughout its full range
- Dial is continuous and may be rotated for setting at any point
- Full 1" travel
- Revolution accumulator counter
- Direct decimal two-way reading left and right
- Adjustable limit indicators
- Lug mount standard

UPC	NO.	READINGS
33605 7	**MG1780**	0 to .100" by .001"

109

PLUNGER DIAL INDICATOR
- Large 2-1/4" diameter dial indicator
- Accuracy to .001"
- Dial is continuous and may be rotated for setting at any point
- Full 1" travel
- Revolution accumulator counter
- Direct decimal two-way reading left and right
- Adjustable limit indicators
- Lug mount standard

UPC	NO.	READINGS
10900 2	**109**	0 to .100" by .001"

MG1758

ULTRATEST® MAGNETIC BASE
- No residual magnetism, when in the off position, to prevent scratching or other damage from inadvertent magnetism of chips or work pieces
- On/Off switch energizes only when in use on work surface
- V-groove for round surfaces
- Works on vertical or horizontal surfaces
- Switching adapts easily to cam action for automatic setups, using magnetic base as an on/off holding device
- Holds most dial indicators with center lug backs, universal indicator attachments, as well as other fixtures
- 60 lb. pull
- Base 2-3/4"L x 2-1/8"H; overall height 9-3/4"

UPC	NO.
33587 6	**MG1758**

MG-S281-4R

ULTRATEST® COMBINATION SET WITH HARDENED SQUARE AND CENTER HEADS, REVERSIBLE PROTRACTOR AND PATENTED LOCATING DEVICE
- Patented locating screw automatically positions all heads for quick assembly
- With hardened square and center heads for durability
- Double shoulder reversible protractor head
- Satin chrome 12" blade
- Square head has spirit level and hardened scriber
- Meets gov. specification GGG-S-656C.

UPC	NO.	GRADUATIONS
33840 2	**MG-S281-4R**	8, 16, 32, 64
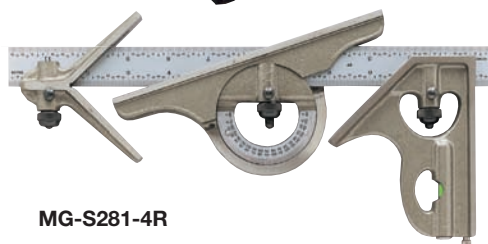
MG-S278-4R
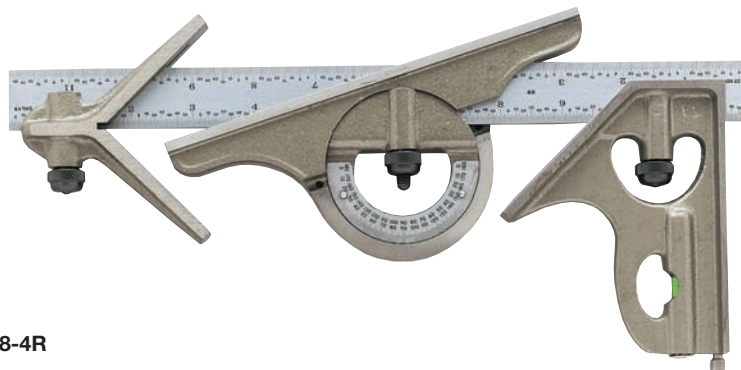
ULTRATEST® COMBINATION SET WITH SQUARE HEAD, CENTER HEAD, AND REVERSIBLE PROTRACTOR HEAD
- Double shoulder reversible protractor head
- 12" etched, high carbon steel ruler with satin chrome finish
- Square head has spirit level and hardened scriber
- Meets gov. specification GGG-S-656C

UPC	NO.	GRADUATIONS
33800 6	**MG-S278-4R**	8, 16, 32, 64

ULTRATECH™ Tool System

Precision Screwdriver Sets:
- Slotted
- Phillips
- Torx®
- Probe
- ESD
- Ball Hex
- Nut Driver

Knife & Blade Sets

Multi-Blade Sets

Offset Screwdrivers

Precision Screwdrivers

Pin Vises

ULTRA*TECH*™
POWER PRECISION SCREWDRIVER

Precision use for computers, electronics, industrial applications, hobbies and crafts.

- **Quick Change Chuck**
- **10+ Hours of Power**
- **100+ RPM**
- **Super-Torque Drive**
- **Cordless (2 "AAA" alkaline batteries included)**

NEW! 1/8" DRIVE

Quick Change Chuck

100+ RPM Super-Torque Drive

Ergonomically Designed Rubber Cushion Grip

Push and Hold for Forward Mode

ON/OFF Switch

Pull and Hold for Reverse Mode

To Replace Batteries Unscrew End Cap

Shown Actual Size

No. 500

GENERAL

GENERAL

ULTRA*TECH*™
POWER PRECISION SCREWDRIVER
Destornillador Sin Cuerda / Tournevis Sans Fil

- Quick Change Chuck
- 10+ Hours of Power
- 100+ RPM   • Super-Torque Drive
- Cordless (2 "AAA" alkaline batteries included)
- Precision use for computers, electronics and industrial applications

NEW! 1/8" DRIVE

Includes Six 1/8" Precision Bits

No. 500
UPC. 02132

Patent # D604,501

Includes Six 1/8" Precision Bits

⊕ #0   ⊕ #00   ⊖ 1/8"   ⊖ 1/16"   ✳ T6   ✳ T5

GENERAL®

ULTRA*TECH*™ TOOL SYSTEM

The UltraTech™ Tool System is an innovative line of premium specialty tools for both the professional and do-it-yourselfer. At the heart of the UltraTech™ Tool System lies the exclusive Versa-Grip™ handle with its ergonomic design and the versatility of four (4) distinct grip positions. From precision cutting to high-torque fastener installation, the Versa-Grip™ handle provides the maneuverability to meet the needs of nearly any job. What's more, Versa-Grip's eight-sided cushion grip and contoured head ensure maximum control as well as accurate pressure transfer onto the fastener or working surface.

Chrome plated or black oxide coated to resist corrosion

8650 Alloy Steel (nickel-chromium-molybdenum) blade

Body sized to prevent excess torque to fastener

Eight sided non-slip cushion grip

Color coded ring identifies type of tip

Rotating cap facets fit palm. Recess fits finger tip

Driver tip size shown on cap
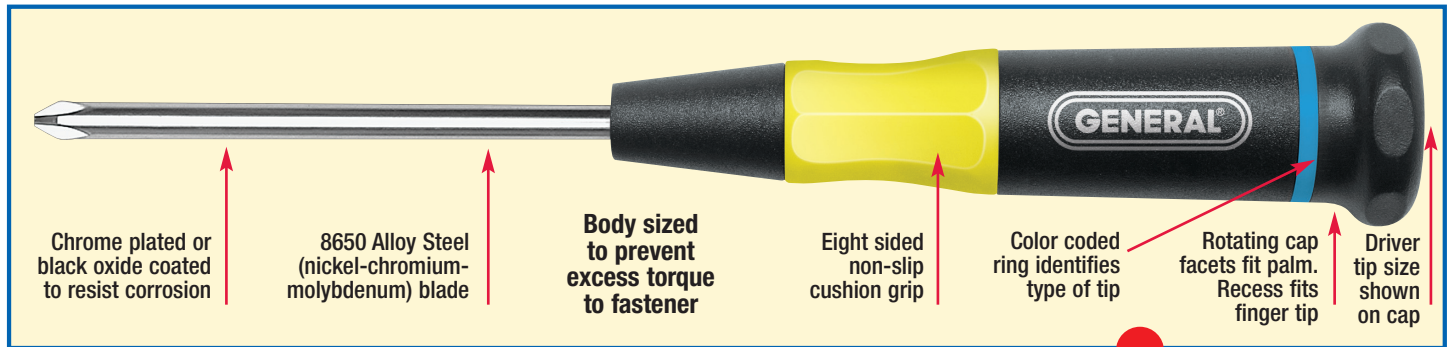
VERSA-GRIP™
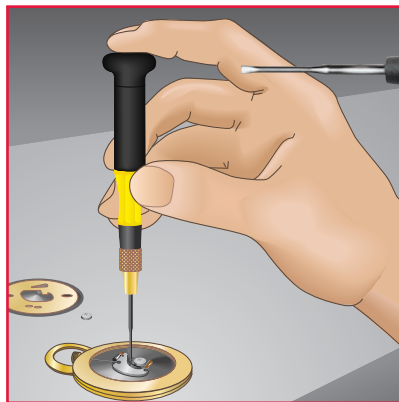
Use the *Precision Grip* for low-torque fastening and delicate jobs such as jewelry and electronics repair.

Use the *Palm Control Grip* for comfortable, day-to-day fastener removal and installation.
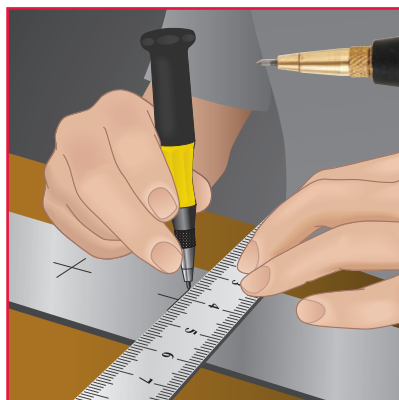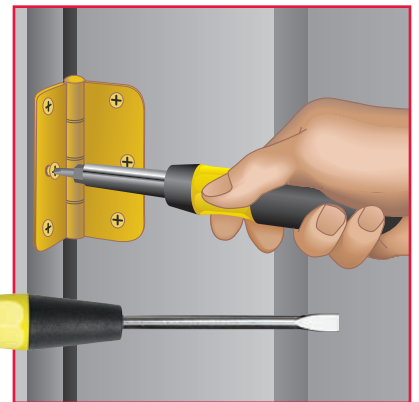
Use the *Positioning Grip* for the accurate placement of fasteners or when making precise cuts or markings on any type of surface.

Use the *Power Grip* for high-torque fastening and heavy-duty work, such as installing wood screws.
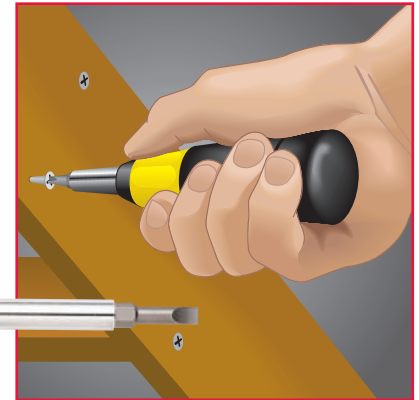
SCREWDRIVERS

General's new UltraTech™ Lighted Screwdriver Set, with LED Vision, allows you to put light directly on the screw head. The powerful LED Light allows instant direct light anytime, anywhere. Three reversable blades with 6 blade sizes make this Screwdriver Set a necessity for every tool box.

LIGHTED SCREWDRIVER SET

- Push On / Push Off Powerful LED light
- Rotating cap: facets fits palm, recess fits finger tips
- Non-Slip Cushion Grip
- Oxide Blades are Rust and Corrosion Resistant

- Set includes:
  - 1 Multi-blade handle
  - 3 Reversible blades
    - ⚊ Slotted: 3/32", 1/8"
    - ✚ Phillips: #000, #00
    - ✱ Torx: T5, T6
  - Hard Rubber Bit Organizer
- Power Source: 3 "LR44" batteries (included)

UPC	NO.
26002 4	**1700**
	LR44 replacement batteries

NEW!

6 Tips/Consejos/Conseils
Lighted Screwdriver Set
Luminado destornillador conjunto
Éclairés ensemble tournevis

1700

ULTRA*TECH*™
L E D V I S I O N ™

735

5-IN-1 MULTI-BLADE PRECISION SCREWDRIVER

- High-quality jewelers style precision screwdriver for mechanics, technicians, jewelers and do-it-yourselfers
- Five heat-treated blades conveniently store in handle.
- Blade sizes: 1/16", 5/64", 3/32" slotted tips; #00 Phillips and T6 Torx®
- Easy-twist screw chuck holds blade securely in place.
- Precision engineered 600 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
22412 5	**735**	Carded

28-PIECE MULTI-BLADE SET

- Close tolerance locking screw chuck holds blades securely in place
- Black Oxide Blades ensure a precision fit and prevent corrosion
- Set includes: • 26 Interchangeable Blades
  - 1 Multi-Blade Handle • 1 Blade Extension;
  - Slotted - 1/32", 3/64", 1/16", 5/64", 3/32";
  - Phillips - #0000, #000, #00 • Torx® - T6, T7, T8, T9 • Hex - .050, 1/16", 5/64"
  - Nut Driver - 3/32", 1/8", 5/32"
  - Probes - 35° Bend, 90° Bend, 180° Loop, Straight, 180° Hook, Triple Bend, Double Bend
  - Scratch Awl
- Precision engineered 600 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
63528 0	**63528**	Zippered Case/Carded

28 Piece Multi-Blade Screwdriver Set

63528

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

General's high quality Precision Screwdriver Sets are ideal for hobbyists, technicians, mechanics and do-it-yourselfers. Also used by jewelers, watchmakers, instrument makers, subminiature parts assemblers and model makers. The ergonomically designed handle provides greater control and comfort. Black oxide blades ensure the precision fit and prevent erosion.

18-PIECE PRECISION ULTRATECH™ SCREWDRIVER SET

1 Black oxide blades ensure a precision fit and prevent corrosion
2 Eight sided cushion grip has a non-slip surface
3 Close tolerance locking screw chuck holds blades securely in place
4 Ergonomically designed handle for greater control and comfort
5 Contoured fingertip swivel head allows greater pressure to be applied to the blade, for maximum torque and grip, while turning the fastening screw
6 Packaged in a pocket sized fitted zipper case for secure storage
• Set includes: • 1 Multi-Blade Handle • 17 Interchangeable Blades:
   • Slotted - 3/64", 1/16", 5/64", 3/32" • Phillips - #000, #00
   • Torx® - T5, T6, T7, T8 • Hex - .050, 1/16", 5/64"
   • Nut-Drivers - 3/32", 1/8", 5/32" • Awl/Scribe
• Precision engineered 600 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
63518 1	**63518**	Zippered Case/Carded
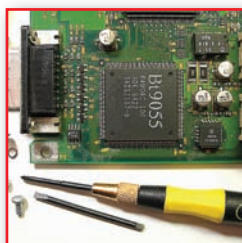
63518

10-PIECE TORX® SCREWDRIVER SET

• Spring-loaded **Speed-Chuck**™ allows blade changes instantly. Precision Locking System firmly holds blades in place
• Non-peel Black Oxide Blades ensure a precision fit and prevent rust
• Packaged in a pocket sized fitted zipper case for secure storage
• Set includes:
   • 1 Handle with precision **Speed-Chuck**™ Blade Locking System
   • 1 Multi-Blade Handle with close tolerance locking screw chuck;
   • 10 Interchangeable Torx® Blades; T3, T4, T5, T6, T7, T8, T9, T10, T15, T20
• Precision engineered 600 & 750 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
67351 0	**67351**	Zippered Case/Carded

67351

SCREWDRIVERS

SCREWDRIVERS

16-IN-1 SCREWDRIVER SET
- The ultimate screwdriver for all applications
- Unique 3 drivers in 1 handle design; Jewelers, Technician and Full Size
- Set Includes: • 8 Double-ended hardened alloy steel blades Zinc plated to prevent rust
  - Phillips - #0 x #000
  - Phillips/Slotted - #0000 x 3/64",
  - Slotted - 1/8" x 5/64";
  - Hex - .050" x 1/16", 5/64" x 3/32",
  - Torx® - T5 x T8, T6 x T10 • Square Recess - #0 x #1
- Double-ended blades are held in a carrier which snugly fits in handle
- Powerful magnet in handle allows the handle to be used as a driver with any power shank bit (not included)
- Precision engineered 750 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
75106 5	**751016**	Carded

751016

8 HARDENED ALLOY STEEL BLADES SHOWN WITH JEWELERS SIZE HANDLE

CONVENIENT STORAGE UNDER CAP FOR ALL 8 BLADES

28-PIECE BIT DRIVER SET - 16-IN-1 PLUS
- All the features of the 16-in-1, Model No. 751016, with the added full size bit capabilities
- Set Includes: • 8 double-ended hardened alloy steel precision blades. Zinc plated to prevent rust • Phillips - #0 x #000 • Phillips/Slotted - #0000 x 3/64" • Slotted - 1/8" x 5/64" • Hex - .050" x 1/16", 5/64" x 3/32" • Torx® - T5 x T8, T6 x T10 • Square Recess - #0 x #1 • Magnetic Insert Bit Holder • Industry Standard Insert Bits • Slotted - 3/16", 1/4" • Phillips - #1, #2 • Torx® - T15, T20, T25 • Hex - 1/8", 5/32", 3/16" • #2 Square Recess
- Convenient storage under cap for all 8 blades
- Packaged in a fitted Ballistic Nylon Holster
- Vinyl holster insert holds 11 insert bits and one magnetic insert bit holder
- Precision engineered 750 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
75102 7	**751028**	Holster/Carded

8 HARDENED ALLOY STEEL BLADES SHOWN WITH JEWELERS SIZE HANDLE

INDUSTRY STANDARD INSERT BITS WITH MAGNETIC BIT HOLDER

751028

4-IN-1 PRECISION SCREWDRIVER
- High-quality precision screwdriver for mechanics, technicians, hobbyists and do-it-yourselfers
- Two double-ended blades are held in a reversible carrier which snugly fits in handle Phillips #0, #000; Slotted 5/64", 1/8"
- Change blade sizes instantly.

UPC	NO.	PKG.
22394 4	**741**	Carded

741

Precision 4-in-1 Screwdriver
No. 741

GENERAL®

EXCEEDS ANSI STANDARDS

UltraTech™ Precision Screwdrivers feature a full range of best selling screwdrivers made to exceed ANSI specifications, convenient professional quality storage cases for kits and value priced set assortments. UltraTech™ drivers have been engineered with four handle sizes matched to tip torque requirements to minimize over torquing fasteners.

5-PC PRECISION ULTRATECH™ SCREWDRIVER SET - SLOTTED & PHILLIPS

- Driver tip size shown on cap
- Rotating cap; Facets fit palm, recess fits finger tip
- Color coded ring identifies type of tip
- Body sized to prevent excessive torque to fastener
- 8-Sided non-slip cushion grip
- 8650 Alloy steel (nickel-chromium-molybdenum)
- Chrome plated to resist corrosion

UPC	NO.	DESCRIPTION	PACK
22066 0	**700**	5-Piece Set	Carded

Set contains:

NO.	TYPE	SIZE	BLADE LENGTH
611094B	Slotted	3/32 (2.5mm)	1-1/2 (38mm)
711125B	Slotted	1/8 (3.0mm)	2-1/2 (64mm)
612020B	Phillips	No. 00	1-1/2 (38mm)
712010B	Phillips	No. 0	2-1/2 (64mm)
712001B	Phillips	No. 1	2-1/2 (64mm)

700

5-PC PRECISION ULTRATECH™ TORX® SCREWDRIVER SET

- Driver tip size shown on cap
- Rotating cap; Facets fit palm, recess fits finger tip
- Color coded ring identifies type of tip
- Body sized to prevent excessive torque to fastener
- 8-Sided non-slip cushion grip
- 8650 Alloy steel (nickel-chromium-molybdenum)
- Black oxide coated to resist corrosion

UPC	NO.	DESCRIPTION	PACK
22121 6	**711**	5-Piece Set	Carded

Set contains:

NO.	TYPE	SIZE	BLADE LENGTH
613006B	Torx®	T6	1-1/2 (38mm)
613007B	Torx®	T7	1-1/2 (38mm)
713008B	Torx®	T8	2-1/2 (64mm)
713009B	Torx®	T9	2-1/2 (64mm)
713010B	Torx®	T10	2-1/2 (64mm)

711

7-PC PRECISION ULTRATECH™ SCREWDRIVER SET SLOTTED, PHILLIPS & TORX®

- Driver tip size shown on cap
- Rotating cap; Facets fit palm, recess fits finger tip
- Color coded ring identifies type of tip
- Body sized to prevent excessive torque to fastener
- 8-Sided non-slip cushion grip
- 8650 Alloy steel (nickel-chromium-molybdenum)
- Chrome plated/black oxide coated to resist corrosion

UPC	NO.	DESCRIPTION	PACK
67123 3	**67123**	7-Piece Set	Carded

Set contains:

NO.	TYPE	SIZE	BLADE LENGTH
511062B	Slotted	1/16 (1.5mm)	1 (25mm)
611094B	Slotted	3/32 (2.5mm)	1-1/2 (38mm)
711125B	Slotted	1/8 (3.0mm)	2-1/2 (64mm)
612020B	Phillips	No. 00	1-1/2 (38mm)
712010B	Phillips	No. 0	2-1/2 (64mm)
712001B	Phillips	No. 1	2-1/2 (64mm)
613006B	Torx®	T6	1-1/2 (38mm)

67123

5-PC PRECISION ULTRATECH™ NUT DRIVER SET

- Driver tip size shown on cap
- Rotating cap; Facets fit palm, recess fits finger tip
- Color coded ring identifies type of tip
- Body sized to prevent excessive torque to fastener
- 8-Sided non-slip cushion grip
- 25% off-angle access for tight work areas
- 8650 Alloy steel (nickel-chromium-molybdenum)
- Black oxide coated to resist corrosion

UPC	NO.	DESCRIPTION	PACK
22129 2	**750**	5-Piece Set	Boxed

Set contains:

No.	Type	Size	Blade Length
615094B	Nut Driver	3/32 (2.4mm)	2 (51mm)
615125B	Nut Driver	1/8 (3.2mm)	2 (51mm)
715156B	Nut Driver	5/32 (4.0mm)	2 (51mm)
715187B	Nut Driver	3/16 (4.8mm)	3 (76mm)
715250B	Nut Driver	1/4 (6.4mm)	3 (76mm)

750

5-PC PRECISION *ESD* SCREWDRIVER SET

- Electro-Static Dissipating Screwdrivers safely take static electricity away from the work place
- Patented, ergonomically designed handle for rapid rotation, greater comfort and control
- Chrome plated vanadium steel blade ensures long life
- Large swivel head for greater control
- Hardened tip and shaft for maximum work load

UPC	NO.	DESCRIPTION	PACK
22170 4	**713**	5-Piece Set	Carded

Set contains:

TYPE	SIZE	BLADE LENGTH
Slotted	3/32 (2.5mm)	1-1/2 (38mm)
Slotted	1/8 (3.0mm)	2-1/2 (64mm)
Phillips	No. 00	1-1/2 (38mm)
Phillips	No. 0	2-1/2 (64mm)
Phillips	No. 1	2-1/2 (64mm)

713

SCREWDRIVERS

"It's Your Job . . . General Tools Make It Easier"

A-OVERALL LENGTH **B**-LENGTH OF BLADE **B1**-BLADE TIP DIAMETER **B2**-BLADE TIP THICKNESS **C**-HANDLE LENGTH **D**-HANDLE DIAMETER **E**-KNOB DIAMETER
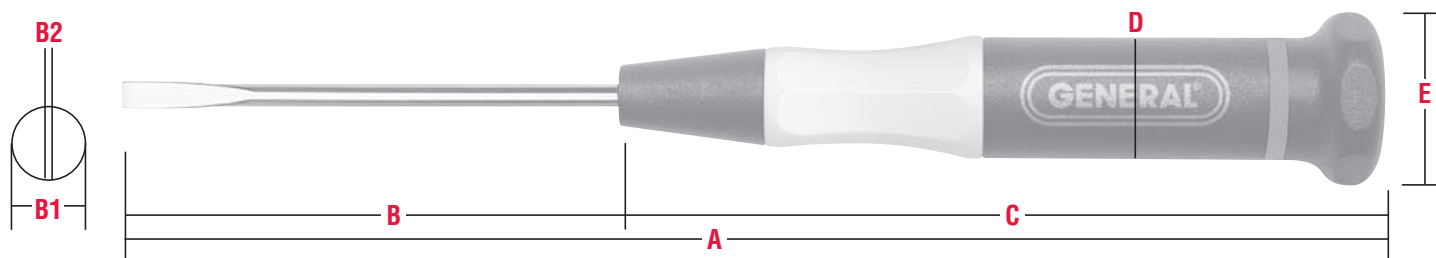
PRECISION ULTRATECH™ SLOTTED SCREWDRIVERS

- Driver tip size shown on cap
- Rotating cap; Facets fit palm, recess fits finger tip
- Color coded ring identifies type of tip
- Body sized to prevent excessive torque to fastener
- 8-Sided non-slip cushion grip
- Blades constructed of heat treated 8650 Alloy steel (nickel-chromium-molybdenum)
- Chrome plated to resist corrosion

PRECISION ULTRATECH SLOTTED SCREWDRIVERS - CARDED (OPEN STOCK)

UPC	NO.	A mm	B mm	B1 mm	B2 mm	C mm	D mm	E mm
61108 6	**611078**	4-7/8" (124)	1-1/2" (38)	**5/64" (2)**	0.014" (0.356)	3-3/8" (86)	1/2" (13)	3/4" (19)
61100 0	**611094**	4-7/8" (124)	1-1/2" (38)	**3/32" (2)**	0.015" (0.381)	3-3/8" (86)	1/2" (13)	3/4 " (19)
71110 6	**711125**	6-3/8" (162)	2-1/2" (64)	**1/8" (3)**	0.020" (0.508)	3-7/8" (98)	5/8" (16)	15/16" (23)
71140 3	**711140**	6-3/8" (162)	2-1/2" (64)	**9/64" (4)**	0.022" (0.559)	3-7/8" (98)	5/8" (16)	15/16" (23)
71116 8	**711156**	6-3/8" (162)	2-1/2" (64)	**5/32" (4)**	0.027" (0.686)	3-7/8" (98)	5/8" (16)	15/16" (23)

PRECISION ULTRATECH™ TORX® SCREWDRIVERS

- Driver tip size shown on cap
- Rotating cap; Facets fit palm, recess fits finger tip
- Color coded ring identifies type of tip
- Body sized to prevent excessive torque to fastener
- 8-Sided non-slip cushion grip
- Blades constructed of heat treated 8650 Alloy steel (nickel-chromium-molybdenum)
- Black oxide coated to resist corrosion

PRECISION ULTRATECH TORX® SCREWDRIVERS - CARDED (OPEN STOCK)

UPC	NO.	A mm	B mm	B1	C mm	D mm	E mm
61305 6	**613005**	4-7/8" (124)	1-1/2" (38)	T5	3-3/8" (86)	1/2" (13)	3/4" (19)
61360 8	**613006**	4-7/8" (124)	1-1/2" (38)	T6	3-3/8" (86)	1/2" (13)	3/4" (19)
61307 0	**613007**	4-7/8" (124)	1-1/2" (38)	T7	3-3/8" (86)	1/2" (13)	3/4" (19)
71380 3	**713008**	6-3/8" (162)	2-1/2" (64)	T8	3-7/8" (98)	5/8" (16)	15/16" (23)
71306 3	**713015**	6-3/4" (170)	2-1/2" (64)	T15	4-1/4" (107)	13/16" (21)	1-5/64" (27)

PRECISION ULTRATECH™ PHILLIPS SCREWDRIVERS

- Driver tip size shown on cap
- Rotating cap; Facets fit palm, recess fits finger tip
- Color coded ring identifies type of tip
- Body sized to prevent excessive torque to fastener
- 8-Sided non-slip cushion grip
- Blades constructed of heat treated 8650 Alloy steel (nickel-chromium-molybdenum)
- Chrome plated to resist corrosion

PRECISION ULTRATECH PHILLIPS SCREWDRIVERS - CARDED (OPEN STOCK)

UPC	NO.	A mm	B mm	B1	C mm	D mm	E mm
61203 8	**612020**	4-7/8" (124)	1-1/2" (38)	No. 00	3-3/8" (86)	1/2" (13)	3/4" (19)
71202 8	**712010**	4-7/8" (124)	2-1/2" (64)	No. 0	3-3/8" (86)	1/2" (13)	3/4" (19)
71211 0	**712101**	7-1/4" (183)	3" (76)	No. 1	4-1/4" (107)	13/16" (21)	1-5/64" (23)

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

General's High Quality Screwdrivers Sets are ideal for hobbyists, technicians, mechanics and do-it-yourselfers. Also used by jewelers, watchmakers, instrument makers, subminiature parts assemblers and model makers. The patened, ergonomically designed handle provides greater rotation, comfort and control. The plated alloy steel blade ensure a long life.

10-PIECE MINI SCREWDRIVER SET

- Patented, ergonomically designed handle for rotation, greater comfort and control
- Plated alloy steel blades ensure a long life
- Hardened tips and shafts ensure a maximum workload
- Three different blade configurations with color-coded large swivel heads
- Overall screwdriver length is 4-5/8" (117mm)
- Blade length is 1-1/2" (38mm)
- Set includes one each of the following sizes.
  Slotted: 3/64" x 1-1/2", 1/16" x 1-1/2", 5/64" x 1-1/2", 3/32" x 1-1/2";
  Phillips: #000 x 1-1/2", #00 x 1-1/2", #0 x 1-1/2";
  Torx®: T-6 x 1-1/2", T-7 x 1-1/2", T-8 x 1-1/2"

UPC	NO.	PACK
22200 8	**690**	Carded

690

EYEGLASS REPAIR KIT

- Travel-size with plastic carry case
- Great for emergencies
- Includes: screwdriver, tweezers, screws, nose pads and rubber rings for tightening side arm/frame
- Available individually carded or in a countertop display box

UPC	NO.	PACK
00601 1	**601**	
00601 2	**601CD**	Countertop Display/50 pieces

601

2-PIECE PRECISION MICRO SCREWDRIVER SET

- Ideal for close, delicate work
- Durable and rust-resistant
- Includes: Phillips #0 and Slotted tip 3/32"
- Available individually carded or in a countertop display box

UPC	NO.	PACK
06020 4	**602**	
06020 5	**602CD**	Countertop Display/18 pieces

602

609

6-PIECE PRECISION SCREWDRIVER SET

- For repairing jewelry, cameras, eyeglasses and instruments
- Fingertip swivel head for greater control
- Convenient stand-up case
- Includes: Phillips #1, #0 and Slotted tip 1/8", 3/32", 6/64", 1/16"
- Handles plated to prevent rust
- Available individually carded or in a countertop display box

UPC	NO.	
06090 7	**609**	
06090 8	**609CD**	Countertop Display/18 pieces

SCREWDRIVERS

General's High Quality Screwdrivers Sets are ideal for hobbyists, technicians, mechanics and do-it-yourselfers. Also used by jewelers, watchmakers, instrument makers, subminiature parts assemblers and model makers. The Jeweler's Screwdriver bodies are nickel plated with swivel heads. All the precision screwdrivers share the same features, quality and value that you have come to expect from General.

POCKET 4-IN-1 MINI SCREWDRIVER

744

- This screwdriver is ideal for technicians, hobbyists and do-it-yourselfers
- 2 double-ended chrome vanadium blades
- 1/16" and 1/8" slotted tip and #1 and #00 cross-point tip
- Blades are held in carrier handle
- Change blade sizes instantly
- Convenient pocket clip and capped ends

UPC	NO.	LENGTH
74401 2	744	5-1/8" (130mm)
74400 5	744DB	Bulk in 24 pieces
00744 5	744CD	Countertop Display 20 pieces (see Page T-118 for display)

T6 CELL PHONE SCREWDRIVER

666

- For repairs, battery changes or phone cover (faceplate) changes
- For use in any application requiring a T-6 Torx® screwdriver
- Fingertip swivel head for greater control
- Patented, ergonomically designed handle
- 1-1/2 inch (38mm) Chrome vanadium steel blade

UPC	NO.	OAL	PACK
22415 6	666	4-5/8" (117mm)	Carded
22415 7	666CD		Countertop Display/18 pieces

FIVE BLADE SCREWDRIVER SET

S605

- Blades are black oxide and screwdriver body is plated to prevent rust
- Four tempered steel straight blades and one No. 0 crosspoint blade
- Injection molded plastic case

UPC	NO.	BLADE WIDTH
42565 2	S605	Sizes: .040", .055", .070", 100" and # 0 crosspoint

JEWELER'S SCREWDRIVER AND HOBBY KIT

SPC606

- Blades are black oxide and body is plated to prevent rust
- Three tempered straight blade sizes, one crosspoint blade and one scratch awl in a fitted vinyl case

UPC	NO.	BLADE WIDTH
42571 3	SPC606	Straight blade sizes .100", .070", .040", No. 0 cross-point and scratch awl

SET OF SIX JEWELER'S SCREWDRIVERS

600-5
600-4
600-3
600-2
600-1
600-0

SPC600

- Black oxide blade sizes: .100", .080", .070", .055", .040", .025"
- Screw chucks have identification rings showing blade size
- Overall length 3-7/8"
- Conforms to government specifications GGG-S-1808
- Plastic case
- Individual screwdrivers available

UPC	NO.	
42568 3	SPC600	Set of 6 in Vinyl Case

INDIVIDUAL SCREWDRIVERS

UPC	NO.	BLADE WIDTH
42515 7	600-0	.100
42518 8	600-1	.080
42521 8	600-2	.070
42524 9	600-3	.055
42527 0	600-4	.040
42530 0	600-5	.025
42566 9	S607	Seven Blade Screwdriver Set Sizes:.100", .080", .070", .055", .040", .025" and #0 crosspoint. Comes in plastic tube

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

SCREWDRIVERS
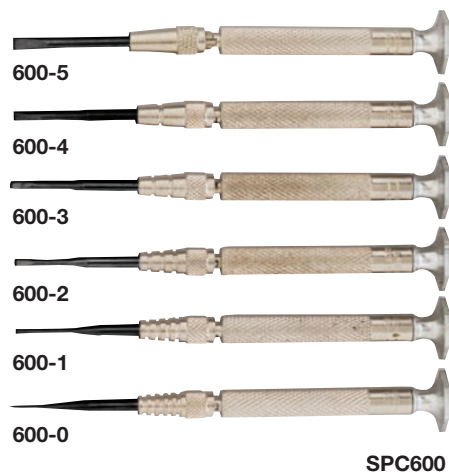
GENERAL®

General's high quality Pin Vises are ideal for hobbyists, technicians, mechanics and do-it-yourselfers. Also used by jewelers, watchmakers, instrument makers, subminiature parts assemblers and model makers. The pin vise bodies are ergonomically designed for greater control and comfort. The precision collet is made of hardened tool steel for longer life.

4-IN-ONE POCKET SCREWDRIVER
- This screwdriver is ideal for technicians, hobbyists and do-it-yourselfers
- 2 double-ended chrome vanadium blades
- 1/8" and 5/32" Slotted tip and #0 & #1 cross-point tip
- Blades are held in carrier handle
- Change blade sizes instantly
- Convenient pocket clip and capped ends
- Length is 5-1/4" (133mm)

UPC	NO.
02147 3	**745DB** Counter Display 24 pieces (Sold only as a counter display - see Page T-118 for display)
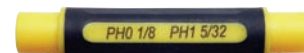
745DB

FOUR BIT TECHNICIAN SCREWDRIVER
- High quality screwdriver ideal for hobbyist, technician, mechanic and do-it-yourselfer
- Four heat treated bits: Nos. 0 and 1 cross-point, .125 and .100 straight blade
- Bits store in handle
- Knurled aluminum body with swivel head
- Steel collet for greater strength
- Overall size is 3/8" x 6-1/2"

UPC	NO.
42561 4	**608**

608

MINIATURE PIN VISE
- An exceptional pin vise for precise work on models, instruments and jewelry
- Precision collet is made of hardened tool steel for longer life
- Precision engineered 700 Series Versa-Grip™ handle for maximum performance

UPC	NO.	CAPACITY	PKG.
70965 3	**70801**	0 – 0.059" (0 – 1.5mm)	Carded

ALL PIN VISES HAVE STORAGE IN HANDLE

70801

4-IN-1 PIN VISE
- An exceptional pin vise for multiple projects
- Contains: • 2 double ended collets:
  - 0 – 0.031" and 0.093" – 0.125"
  - 0.031" – 0.062" • .062" – .093"
- Internal storage under cap for spare collet
- Precision engineered 750 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
75973 3	**75801**	Carded

75801

6-PIECE - 4-IN-1 PIN VISE SET
- An exceptional pin vise for multiple projects
- Set contains: No. 75801 pin vise, 2 double ended collets:
  - 0 – 0.031" and 0.093" – 0.125",
  - 0.031" – 0.062" • .062" – .093"
  - 5 Drills • 1/32" • 3/64" • No. 43
  - No. 50 • No. 53.
- Internal storage under cap for spare collet and drill bits
- Precision engineered 750 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
75974 0	**75806**	Carded

75806

SCREWDRIVERS

Ratchet Offset

For hard-to-reach screws, use the Ratchet Offset Screwdriver, especially where leverage is required. The ratchet drive reverses instantly for clockwise or counterclockwise rotation. The blades are made of machined ground and hardened tool steel. Recessed head screws have a hex shaped recess. A hex wrench is used to remove or tighten this type of screw.

RATCHET OFFSET SCREWDRIVER SET

• Hex wrench and screwdriver functions are combined in this unique multi-purpose set
• Ratchet drive handle reverses instantly for clockwise and counter-clockwise rotation for accessing hard-to-reach screws
• Hardened tempered steel, black oxide bits and nickel plated steel ratchet handle
• Packaged in a convenient storage case

19-PIECE 8078 INCLUDES:
One reversible ratchet handle, one 3-1/4" extension shaft, one spinner screwdriver handle. One 1/4" square drive adapter with 1 each #1, #2 cross-point bits, 1 each 1/4" and 3/8" straight bits, 11 hex bits in sizes: .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" and 1/4"

UPC	NO.
80780 9	**8078**

8078

RATCHET OFFSET SCREWDRIVER SET

• For reaching inaccessible screws where leverage is desired
• Ratchet driver is plated steel and instantly adjusts for right-or left-hand use
• Has hardened tempered steel blades
• Uses standard insert bits

• Use in guns and camera repair work
• Five-piece set includes: 1/4" and 3/8" straight blades, No. 1 and No. 2 cross-point blades and handle

UPC	NO.
80750 2	**8075**

8075

RATCHET OFFSET SCREWDRIVER SET

• For reaching inaccessible screws where leverage is desired
• Ratchet driver is plated steel and instantly adjusts for right-or left-hand use
• Has hardened tempered steel blades
• Five-piece set includes: 1/4" and 3/8" straight blades, No. 1 and No. 2 crosspoint blades and handle

• Conforms to government specifications GGG-S-1408

UPC	NO.
42673 4	**8071**

8071

RATCHET OFFSET SCREWDRIVERS

• For reaching hard-to-get-at screws, especially where leverage is required
• Blades are made of machined ground and hardened tool steel
• Ratchet adjusts for forward or reverse position

• Conforms to government specifications GGG-S-1408

807
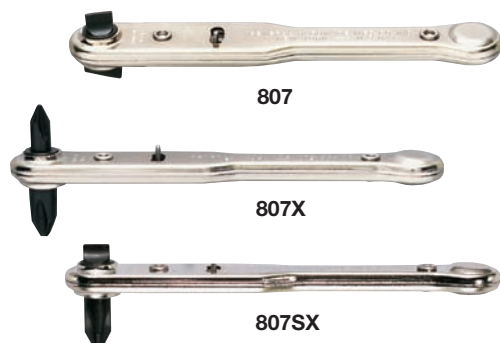
807X

807SX

UPC	NO.	TIPS	(A)	(B)
42664 2	**807**	1/4" and 3/8" straight blades	4" (102mm)	5/8" (16mm)
42670 3	**807X**	No.1 and No. 2 crosspoint blades	4" (102mm)	1-1/4" (32mm)
42667 3	**807SX**	1/4" straight and No. 2 crosspoint blades	4" (102mm)	1" (25mm)

ALWAYS WEAR
OSHA APPROVED
SAFETY GOGGLES

SCREWDRIVERS

9-PIECE RATCHET OFFSET SCREWDRIVER SET

- The Ratchet Offset Screwdriver is used for reaching concealed or obstructed screws, and is helpful in situations where leverage is required
- The Ratchet drive handle reverses instantly for clockwise and counter-clockwise rotation
- Permits short radius movements where turning space is limited
- 72 tooth ultra-fine ratchet requires only 5° turning radius
- The Chrome Vanadium Steel ratcheting handle is ergonomically designed which allows for greater control, comfort and torque
- Hardened tempered alloy steel bits included
- 1/4" magnetic bit-holder can be used in power tools
- Accepts industry standard insert bits

9 PIECE SET INCLUDES:
- 1/4" and 3/16" Slotted bits, • No. 1 and No. 2 Phillips bits,
- T15 and T20 Torx, • 1/8" and 5/32" Hex

UPC	NO.	PKG.
80075 6	**80075**	Carded

80075

18-PIECE RATCHET OFFSET SCREWDRIVER SET

- For reaching hard-to-get-at screws, the Ratchet Offset Screwdriver is used, especially where leverage is required
- The Ratchet Drive Handle reverses instantly for clockwise and counter-clockwise rotation
- Permits short radius movements where turning space is limited
- 72 tooth ultra-fine ratchet requires only 5° turning radius
- The Chrome Vanadium Steel ratcheting handle is ergonomically designed which allows for greater control, comfort and torque
- Hardened tempered alloy steel bits included
- 1/4" magnetic bit-holder can be used in power tools
- Accepts industry standard insert bits
- Packaged in a pocket-sized fitted zippered case for secure storage

18 PIECE SET INCLUDES: • One reversible ratchet handle • one 3-1/4" extension shaft. • One 1/4" square drive adapter with • 1 each No. 1, No. 2 Phillips bits • 1 each 1/4" and 3/8" slotted bits • 11 hex bits in sizes: .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" and 1/4"

UPC	NO.	PKG.
80078 7	**80078**	Zippered Case/Boxed

72 TOOTH ULTRA-FINE RATCHET REQUIRES ONLY 5° TURNING RADIUS

RATCHET LEFT 5°

RATCHET RIGHT 5°

80078
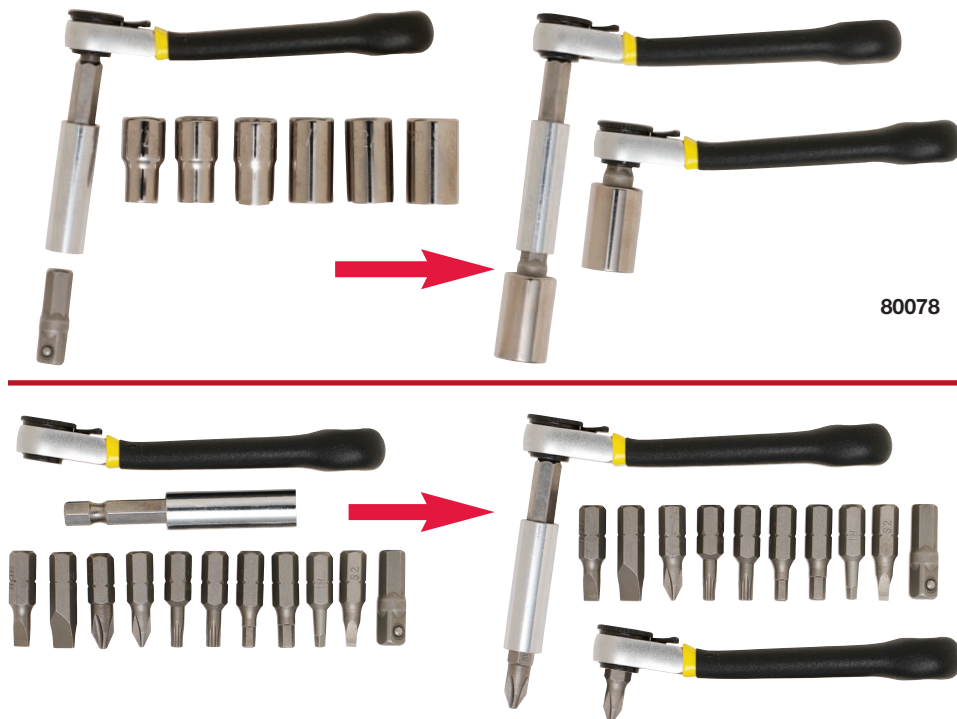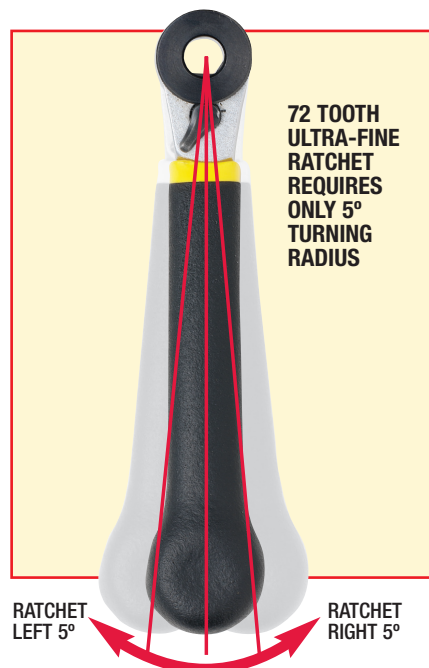
PRECISION ULTRATECH FIXED BLADE SCREWDRIVERS - WITH VERSA-GRIP™ HANDLES

DRIVER TIP SIZE SHOWN ON CAP

ROTATING CAP FACETS FIT PALM. RECESS FITS FINGER TIP

COLOR CODED RING IDENTIFIES TYPE OF TIP

BODY SIZED TO PREVENT EXCESS TORQUE TO FASTENER

EIGHT SIDED NON-SLIP CUSHION GRIP

BLADE CONSTRUCTED OF HEAT TREATED 8650 ALLOY STEEL (NICKEL-CHROMIUM-MOLYBDENUM).

CHROME PLATED BLADE OR BLACK OXIDE BLADE COATED TO RESIST CORROSION.

SCREWDRIVERS ARE SHOWN ACTUAL SIZE

SLOTTED
PHILLIPS®
TORX®
NUT DRIVER
BALL HEX DRIVER

750 SERIES
700 SERIES
600 SERIES
500 SERIES

2⁷/₈" (73mm)
3³/₈" (86mm)
3⁷/₈" (98mm)
4¹/₄" (107mm)

1" (25mm)
1¹/₂" (38mm)
2¹/₂" (64mm)
3" (76mm)

4 Handle Sizes matched with **4 Blade Sizes**. Specific tip torque requirements minimize the possibility of over-torquing of the fastener.

VERSA-GRIP™

SCREWDRIVERS
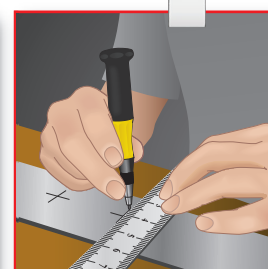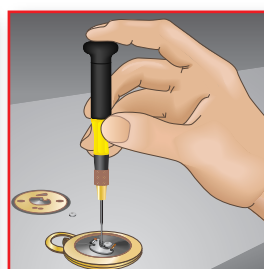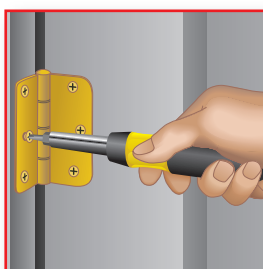
ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

Plumb Bobs
Pin Vises
Retrieving Tools
Tweezers
Holding Tools
Calipers
Micrometers
Meters
Magnifiers
Inspection
  Mirrors
Magnetic Tools
Sweepers
Magnets
Knives
Carving Tools
Grommets,
  Fasteners
Punches
Pliers
File Sets
Probe Sets
Levels

The New "Measure 'N Mark" is a pocket pen with a 3 foot removable tape measure. A handy little pen tool for those on the go. A Plumb Bob is a pointed, tapered brass or steel weight which is suspended from a cord for determining the vertical or plumb line to a point on the ground. General's Plumb Bobs are available in a wide range of sizes and conform to government specifications.

309

MEASURE 'N MARK

POCKET PEN WITH REMOVABLE TAPE MEASURE

- 3' (914mm) removable tape measure
- Pen with comfort grip
- Convenient pocket clip
- Great for high-traffic areas like checkout counters and end-cap shelving
- Available only as a 15 piece counter display

UPC	NO.
02126 8	**309CD** Countertop Display 15 pieces (Sold only as a counter display - see Page T-117 for display)

NEW!

Patent Pending

309CD

800

BRASS PLUMB BOBS

- Machined of solid brass, fully polished and lacquered
- Removable self-centering cord cap for easy cord replacement. Cap used with 5/64" (0.078) braided cord
- Replaceable hardened steel point
- Conforms to government specs GGG-P-501e
- Now with extra string and tip
- 10' (3mm) long braided cord
- Available in six sizes

UPC	NO.	WEIGHT	(A)	(B)
42624 6	**800-8**	8 oz.	4-1/2" (114mm)	1-3/16" (30mm)
42630 7	**800-12**	12 oz.	5" (127mm)	1-3/8" (35mm)
42633 8	**800-16**	16 oz.	5-3/4" (146mm)	1-1/2" (38mm)
42639 0	**800-32**	32 oz.	7-1/4" (184mm)	1-7/8" (48mm)
42641 3	**800NP** Replacement Point 10-33 Thread			

790
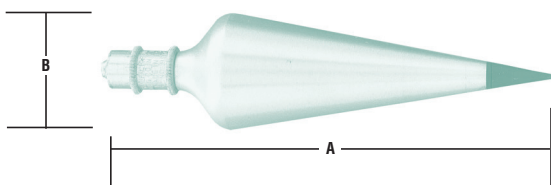
HEXAGON STEEL PLUMB BOBS

- Made of hexagonal cold drawn steel and nickel plated to prevent rust
- Removable cord cap for 3/32" (0.094)
- 10' (3mm) long braided cord

UPC	NO.	WEIGHT	(A)	(B)
42612 3	**790-5**	5 oz.	3-3/8" (86mm)	3/4" (19mm)
42615 4	**790-8**	8 oz.	4" (102mm)	7/8" (22mm)
42618 5	**790-12**	12 oz.	4-1/2" (114mm)	1" (25mm)

SPECIALTY

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES
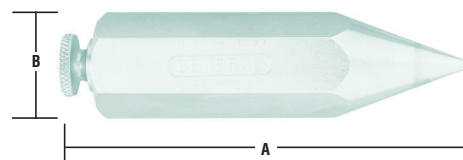
General's Pin Vises are useful for securely holding small stock, taps, drills, reamers, scribers, wire, files and other tools. The tool steel collets are hardened and grip firmly when the screw chuck is tightened. The Swivel Head Pin Vise is an exceptional tool for precise work on models, instuments and jewelry.

SINGLE END PIN VISE SET

- For holding small rods, wire, drills, taps and other small tools
- Tool steel collets are hardened and grip firmly when screw chuck is tightened
- Nickel plated body is hollow to permit holding of long rods of wire
- Available in individual sizes
- Conforms to government specfications GGG-V-412a

UPC	NO.	RANGE	(A)	(B)	(C)
41068 9	**S94**	Set of 4 sizes, A-D			
41074 0	**94A**	0 to 0.055" (0 to 1.4mm)	3-1/8" (79mm)	5/16" (8mm)	3/16" (5mm)
41077 1	**94B**	0.025 to 0.075" (.6 to 1.9mm)	3-1/2" (89mm)	3/8" (10mm)	1/4" (6mm)
41080 1	**94C**	0.045 to 0.125" (1.1 to 3.2mm)	3-13/16" (97mm)	7/16" (11mm)	1/4" (6mm)
41083 2	**94D**	0.110 to 0.187" (2.8 to 4.8mm)	4" (102mm)	9/16" (14mm)	5/16" (8mm)

94A
S94
94B
94C
94D
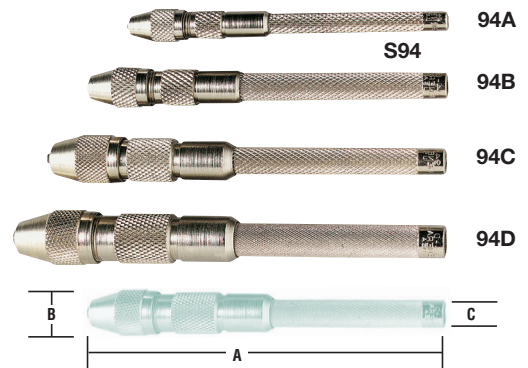
SWIVEL HEAD PIN VISE

- An exceptional pin vise for precise work on models, instruments and jewelry
- Two double end collets made of hardened tool steel
- Has large freewheeling swivel head
- Collets stored in handle

UPC	NO.	CAPACITY
41062 7	**92**	0.0 to 0.125"
		0.0 to 3.2mm

3/8" (10mm)
5/16" (8mm)
3-11/16" (94mm)

92
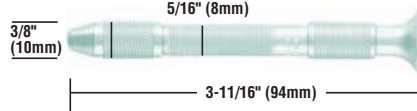
DOUBLE END PIN VISE

- Each end has a double end collet which may be reversed to desired size
- Nickel plated body is hollow to permit use of long wire or rods
- Collets stored in handle
- Holds a variety of small tools for fine detail work

UPC	NO.	CAPACITY
41058 0	**90**	0.0 to 0.0125"
		0.0 to 3.2mm

3/8" (10mm)
7/16" (11mm)
90
3-5/8" (92mm)
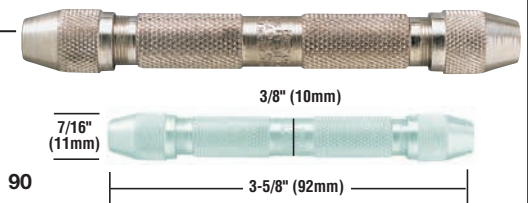
ADJUSTABLE PIN VISE

- Use for electronic assembling, tool-making, model making and hobbies
- Holds small drills, deburrers, wires, files, reamers and other small tools
- 3-jaw hardened steel keyless chuck and sturdy plastic handle

UPC	NO.	CAPACITY
41065 8	**93**	0.040 to 0.250"
		1mm to 6.4mm

1" (25mm)
5-3/4" (146mm)
93

SWIVEL VACUUM VISE

- This popular vise grips firmly to glass, metal, laminate, fiberglass, or any smooth non-porous surface with quick lever action
- Universal ball joint swivels 360° to any position and tilts 90° to any angle
- V-grooved hardened steel jaws are 3" wide and open to 2-5/8"
- Furnished with slide-on rubber jaws for fragile work
- Folds for storage

UPC	NO.	SIZE	BASE HEIGHT	OVERALL WEIGHT
43960 4	**1850**	6-1/4" triangular	6-1/4"	5 lbs.

1850

ADJUSTABLE FILE/TOOL HANDLE

- For holding files, reamers, hacksaw blades and other tang handled tools
- Exclusive steel parallel clamping jaws grip the entire length of the inserted tang to prevent slipping
- Large, quick adjusting knurled knob ensures positive locking
- Rustproof handle with steel parts
- Conforms to government specifications NN-H-0085

UPC	NO.
43666 5	**890**

1-1/16" (27mm)
4-1/8" (105mm)
890

SPECIALTY TOOLS
Mechanical Pick-Ups

GENERAL®

The new Lighted Mechanical Pick-Ups allow you to retrieve items from dark, hard to reach places. The powerful LED light sheds a beam of light on your subject. The strong 4-prong steel jaws allows you to retrieve small items. The shaft comes in 3 different lengths, 12", 24", and 36".
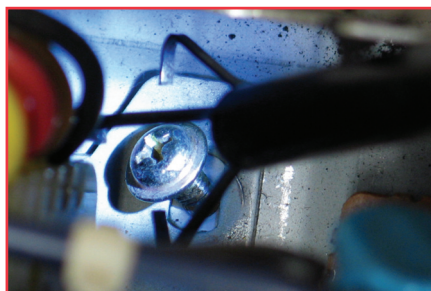
LIGHTED MECHANICAL PICK-UPS
• Retrieve items from dark/hard-to-reach places
• Push On Powerful LED light
• Continued push opens retrieval claw
• Comfortable ergonomically designed hand controls
• Flexible shaft

• Strong spring steel retrieval claw
• Power Source: 3 "LR41" batteries (included)

UPC	NO.	
70399 6	**70393**	12" OAL
26003 1	**70396**	24" OAL
70393 4	**70399**	36" OAL
		LR41 replacement battery

ULTRATECH™ LED VISION™

NEW!

70399

AWARD WINNER!
Popular Mechanics PM
EDITOR'S CHOICE AWARDS '09

Lighted Mechanical Pick-Up
Recogedor mecánico con luz
Ramasseur mécanique éclairé

POWERFUL LED LIGHT

70396

70393

MINI MECHANICAL PICKUP
• Strong four prong steel jaws retrieve small objects up to 1/2" (12mm)
• Knurled body with tapered point for hard-to-reach work areas
  • Smooth traveling plunger actuator for greater control
• Chrome finish to prevent rust
• Can be used as a screw starter

UPC	NO.
42214 9	**388**

388

9/32" (7mm)
4-1/2" (114mm)

1/2" (12mm)
9/32" (7mm)
4-1/2" (114mm)
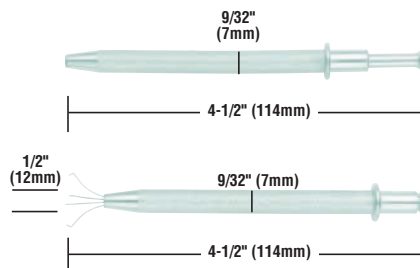
MECHANICAL PICKUP
• Strong four prong steel jaws retrieve small items from hard-to-reach places
• Smooth actuator for greater control

• Chrome finish to prevent rust
• Flexible shaft to avoid obstacles

UPC	NO.
22145 2	**396**

Mechanical Pick-Up
Ramasseur mécanique
Recogedor Mecánico

396

24" (610mm)
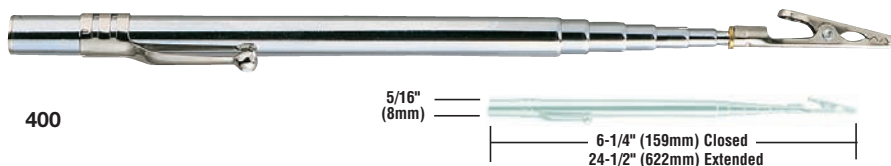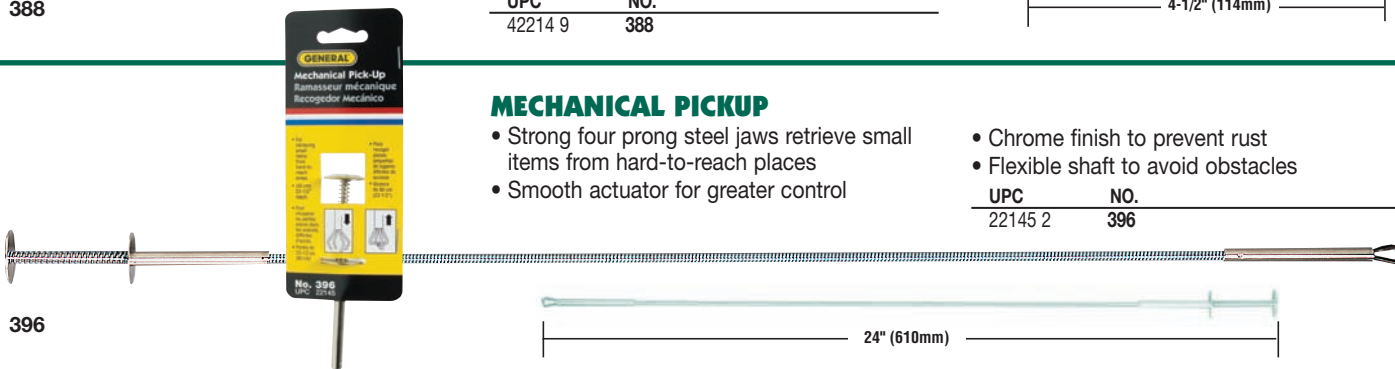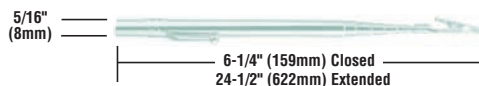
TELESCOPING ALLIGATOR CLIP
• Ideal for lighting pilot lights and barbeques
• Jaw capacity: .170" (4.30mm)
• Chrome finish to prevent rust
• Convenient pocket-clip

UPC	NO.
42217 0	**400**

400

5/16" (8mm)
6-1/4" (159mm) Closed
24-1/2" (622mm) Extended

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

Utility Tweezers are used by mechanics, crafts-people and hobbyists where value is desired. The Nut Starter and Screw Starters are used for starting and removing nuts and screws in hard-to-reach places. They can also be used when nuts and screws are too small to be held by hand while being threaded.

INDIVIDUAL STYLES OF UTILITY TWEEZERS

UTILITY TWEEZERS. Utility tweezers for mechanics, craftspeople and hobbyists

UPC	NO.	POINT STYLE	LENGTH
42291 0	**414**	Blunt serrated (self closing)	6-1/2"
42294 1	**415**	Curved	6-1/2"
42297 2	**416**	Spade	4-1/2"

414

415

416

SWISS PATTERN TWEEZERS

- Light tension and hardened points for subminiature assemblies
- Stainless steel construction
- Finest quality precision points

UPC	NO.	POINT STYLE	LENGTH
42249 1	**423-3**	Very fine	4-5/8"
42251 4	**423-3C**	Very fine	4-1/8"

423-3

423-3C

SIX-PIECE TWEEZER SET

- Consists of six tweezers for home and industrial use
- One each of Nos. 401XX, 403, 412, 414, 415, 417
- In clear vinyl pouch

UPC	NO.
42309 2	**C421**

C421

TWEEZER MAGNIFIER

- Useful for detailed projects
- 5-power lens
- Stainless steel tweezer
- Double hinged adjustable arm
- Durable plastic handle and frame
- Finely ground points
- Length 2-1/4" (57mm)

UPC	NO.
42258 3	**425**

425

NUT STARTER

- For starting or removing threaded nuts in hard-to-reach areas. Can also be used when nuts are too small to be held by hand while being threaded
- Easy-to-use spring steel chuck will hold nut sizes from 3-48 thread (3/32" or 2.5mm) to 5/16" (8mm)
- Knurled aluminum handle

UPC	NO.
42682 6	**8081**

5/16" (8mm)

5" (127mm)

8081

SLOTTED SCREW STARTER

- For starting or removing slotted screws in hard-to-reach areas. Can also be used when screws are too small to be held by hand while being threaded
- Spring loaded steel chuck holds slotted screws from No. 3 to 7/16" sizes
- Knurled aluminum handle

UPC	NO.
42684 0	**8082**

5/16" (8mm)

5-1/8" (130mm)

8082
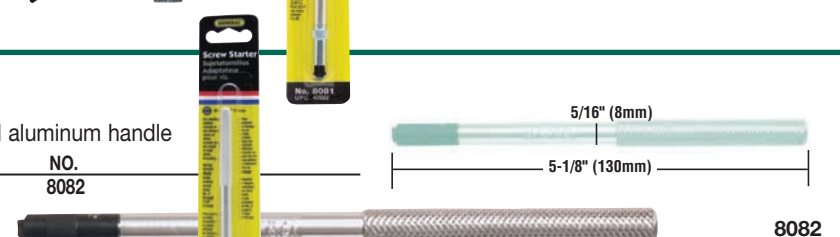
CROSS POINT SCREW STARTER

- For starting or removing cross point screws in hard-to-reach areas. Can also be used when screws are too small to be held by hand while being threaded
- Easy-to-use spring steel chuck holds screws from No. 6 to 1/4" size
- Knurled aluminum handle

UPC	NO.
42686 4	**8083**

5/16" (8mm)

5" (127mm)

8083

SPECIALTY

"It's Your Job . . . General Tools Make It Easier"

Lighted Tools

Shed Some Light On Your Subject

with Lighted Tweezers and Lighted Mechanical Pick-Up

LED

Lighted Tweezers

1 Push On / Push Off Powerful LED Light

2 Non-Slip Comfort Grips

3 Heat Treated Steel

4 Corrosion Resistant Non-Glare Black Finish

5 **Serrated Blunt Tips**
6.25" (159mm)
No. 70403

Serrated Bent Tips
6.5" (165mm)
No. 70408

Smooth Pointed Tip
6.25" (159mm)
No. 70401

Includes 3 "LR41" batteries

Blunt Tip No. 70403

POWERFUL LED LIGHT

Bent Tip No. 70408

Pointed Tip No. 70401

No. 70400
3 Piece Set
70401, 70403, 70408

No. 70402
2 Piece Set
70401, 70408

24" Lighted Mechanical Pick-up

1 Push On Powerful LED Light

2 Continued Push Opens Retrieval Claw

3 Comfortable Hand Controls

4 Corrosion Resistant Black Finish

5 FLEXI-SHAFT™ Lighted Mechanical Pick-Up
No. 70393
12" (305 mm)
No. 70396
24" (610 mm)
No. 70399
36" (914 mm)

FLEXI-SHAFT™

6 Strong Retrieval Claw Can Grasp Objects Up To 1" (52mm)

Includes 3 "LR41" batteries

AWARD WINNER!
Popular Mechanics PM
EDITOR'S CHOICE AWARDS 09

GENERAL®

ULTRATECH™
LED VISION™

T-84

GENERAL®

The new Lighted Tweezers allow you to retrieve items from dark, hard-to-reach places. The powerful LED light allows you to put the light exactly where you need it. Ideal for electronics, computer, instrument, radio and other small or sub-miniature assembly, servicing and repairs. Available in three tip configurations.

LIGHTED TWEEZERS

Now, put the light exactly where you need it!
- Push ON/Push OFF powerful LED light
- Non-slip comfort grip
- Heat treated steel
- Corrosion resistant non-glare black finish
- Tweezers are approximately 6.25" (159mm) long
- Sets come with heavy-duty Ballistic nylon carrying case
- Power Source:
  3 "LR41" batteries
  per tweezer (included)

UPC	NO.	
26004 8	**70401**	Smooth Point Tip
26005 5	**70403**	Serrated Blunt Tip
26006 2	**70408**	Serrated Bent Tip
70402 3	**70402**	(2 pc. set) 70401, 70408
70400 9	**70400**	(3 pc. set) 70401, 70403, 70408

Lighted Tweezer Kit

NEW!

70402

70401
Smooth Point Tip

70403
Serrated Blunt Tip

70408
Serrated Bent Tip

70400

LED
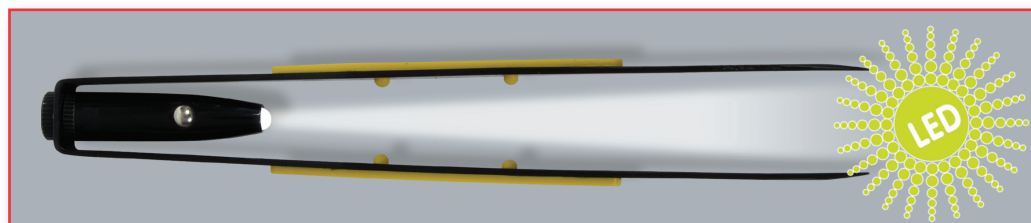
PRECISION TWEEZERS. For electronic, computer, instrument, radio and other small or subminiature assembly, servicing and repairs

BOLEY PATTERN TWEEZER

- A fine quality tweezer for jewelers, watch-makers, instrument assemblers and crafts-people
- For radio, television and other repairs

UPC	NO.	POINT STYLE	LENGTH
42240 8	**401AA**	Strong bevel	5"

STAINLESS STEEL AA

401AA

INDUSTRIAL TWEEZERS. General's quality tweezers for toolmakers, repairmen, electronic assemblers and other professionals

INDIVIDUAL STYLES OF INDUSTRIAL TWEEZERS

UPC	NO.	POINT STYLE	LENGTH
42263 7	**401XX**	Strong sharp	4-1/2"
42266 8	**403**	Blunt serrated	6"
42271 2	**408**	Sharp bent	4-1/4"
42280 4	**410**	Narrow sharp	4-1/4"

401XX

408

403

410

SPECIALTY
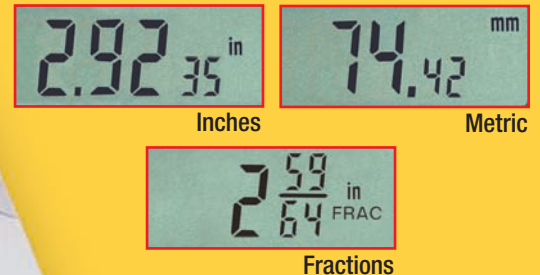
FRACTION+
The *Digital Fractional Caliper* Family

FRACTION+

6", 8" & 12"
STAINLESS STEEL
DIGITAL FRACTIONAL CALIPERS

- 6" (153mm) range
- Heavy-duty stainless steel construction
- Convenient auto-off feature
- Three mode digital display: Decimal Inches, Fractions, Metric
- Inside, outside, depth & step measurements
- Accuracy: +/- 0.001", +/- 0.02mm
- Resolution: 0.0005", 0.01mm, 1/64"
- Power Source: 1 "SR44" (1.5V) battery (included)

147

UPC	NO.	RANGE
01470 2	**147**	0 - 6" (0 - 153mm)
01478 3	**1478**	0 - 8" (0 - 203mm)
14712 7	**14712**	0 - 12" (0 - 305mm)

No. 147 Digital Display

FRACTION+

6" CARBON FIBER
DIGITAL FRACTIONAL CALIPER

- 6" (153mm) range
- Lightweight, non-marring carbon fiber composite
- Convenient auto-off feature
- Three mode digital display: Decimal Inches, Fractions, Metric
- Inside, outside, depth & step measurements
- Accuracy: +/- 0.008", +/- 0.2mm
- Resolution: 0.0005", 0.01mm, 1/64"
- Power Source: 1 "SR44" (1.5V) battery (included)

146

UPC	NO.	RANGE
01460 3	**146**	0 - 6" (0 - 153mm)
		SR44 replacement battery

No. 146 Digital Display

FRACTION+

3" CARBON FIBER
DIGITAL FRACTIONAL CALIPER

- 3" (76mm) range
- Lightweight non-marring carbon fiber composite
- Convenient auto-off feature
- Three mode digital display: Decimal Inches, Fractional and Metric
- Convenient pocket clip
- Inside, outside, depth & step measurements
- Accuracy: +/- 0.005", +/- 0.1mm
- Resolution: 0.0005", 0.01mm, 1/64"
- Power Source: 1 "SR54" (1.5V) silver oxide battery (included)

1433

UPC	NO.	RANGE
01433 7	**1433**	0 - 3" (0 - 76mm)

No. 1433 Digital Display

SPECIALTY

General's high quality, easy-to-read Dial Calipers give precise readings – Inside, Outside, Depth and Step measurements. The 6" Plastic Dial Caliper is made of fiberglass reinforced plastic and gives precision measurements at an economical price. The 6" Dial Caliper is a stainless steel construction for greater accuracy and durability.

6" PLASTIC, DIRECT READING DIAL CALIPER

- Fiberglass reinforced plastic gives precision measurements at an economical price
- Measuring capacity 0 to 6"
- Contrasting color coded dial is graduated in .01" and 64ths with inch and mm on bar scale
- No-glare easy-to-read dial with adjustable bezel

- Inside, outside, depth and step measurements
- Freewheeling friction roller for repetitive and accurate readings
- Fractional conversion table on back

UPC	NO.
44145 4	**142**

142

6" DIAL CALIPER

- Stainless steel construction for accuracy and durability
- Large, clear dial accurately reads to .001"
- Satin chrome scale with clearly etched tenths of inch graduations
- Covered rack ensures smooth operation by preventing dirt and chips from entering rack and gear mechanism

- Inside, outside, depth and step measurement
- Lock for repetitive measurement
- Free wheeling thumb roller
- Depth stop rod
- Adjustable bezel for zero setting

UPC	NO.
10700 8	**107**

107

DIAL CALIPER AND MARKING SET

- This set contains three of the most useful measuring and marking tools for mechanics and machinists
- Set includes: 6" Dial Caliper; 6" x 3/4" Stainless Steel Rule with satin finish and reversible Tip Carbide Scriber with magnetic pick-up
- Rule has etched and filled 4 graduations (1/8", 1/16", 1/32", 1/64")

- Scriber has aluminum body with knurled handle with an overall length of 4-3/4"
- Caliper has inside, outside, depth and step measurements
- Caliper has lock for repetitive measurement
- Caliper has free wheeling thumb roller
- Packaged in a sturdy, fitted, plastic case designed specifically for this set

UPC	NO.
10800 5	**108**

108

6" PLASTIC DIAL CALIPER, THOUSANDTHS READING, SINGLE REVOLUTION

- Capacity 0 to 6"
- Readings in .001"
- Single revolution of dial is .100"
- Resolution .001"
- 6" scale is graduated in tenths/mm
- Non-glare dial with adjustable bezel
- Packed in reusable plastic hang-up case

- Inside, outside, depth and step measurements
- Freewheeling friction roller for repetitive and accurate readings

UPC	NO.
44150 8	**145**

145

PLASTIC, METRIC DIAL CALIPER

- Capacity 0 to 150mm by 0.1mm
- Accurately graduated dial has direct readings in metric 0.1mm
- Complete with instructions and reusable plastic hang-up case
- Inside, outside, depth and step measurements

- Freewheeling friction roller for repetitive and accurate readings

UPC	NO.
44148 5	**144MM**

144MM

SPECIALTY

Slide Calipers come in different styles - Electronic Digital Calipers, Mechanical Dial Calipers, Vernier Calipers and Plain Slide Calipers. General's all-purpose Slide Calipers, sized to slip into your pocket, can make quick, accurate, inside and outside diameter measurements. General's Utility Micrometer is a practical and economical measuring device for beginners as well as hobbyists.

METRIC AND ENGLISH VERNIER CALIPER
- Graduated in mm and 16ths of an inch with vernier reading of .1mm and 1/128"
- Economical steel vernier calipers have 5" (125mm) capacity
- Inside and outside jaws and full length depth gage
- Caliper has inside, outside depth and step measurement
- Caliper has lock for repetitive measurement
- Friction roller adjustment
- Slide lock for gaging

UPC	NO.
42577 5	**722**

722

4-INCH SLIDE CALIPERS
- Stainless steel caliper with inside and outside readings in 16ths and 32nds
- Decimal equivalents table on back
- Scale has etched and filled graduations
- 4" (102mm) capacity

UPC	NO.	GRADS
42581 2	**729**	16ths and 32nds
42594 2	**729ME**	mm and 16ths

729

POCKET CALIPER
- Stainless steel slide caliper with inside and outside readings in metric and inches
- Decimal equivalents on back
- Scale has etched and filled graduations
- 3" (76mm) capacity

UPC	NO.	GRADS
44136 2	**132ME**	32nds and mm

132ME

POCKET CALIPER
- Precision made high strength, fiberglass reinforced plastic caliper
- Opens to 3" (76mm) outside measurement capacity
- 4" (102mm) rule graduated in 16ths on back
- Inside and outside readings graduated in 32nds and mm

UPC	NO.	GRADS
44139 3	**141ME**	32nds and mm

141ME

UTILITY MICROMETER
- A practical and economical measuring device for beginners and hobbyists
- Well-suited for use in training programs, general toolroom and machine shop use and automotive work
- Accuracy guaranteed to .001"
- Special wrench is included for simple zero adjustments
- Ground and polished carbide measuring faces
- Engraved graduations on barrel
- Lock for repetitive measurement

UPC	NO.	RANGE INCLUDES
44103 4	**102**	0" to 1"

102

SPECIALTY

"It's Your Job . . . General Tools Make It Easier"

The Precision Measuring Kit contains four of the most useful measuring and marking tools for mechanics and machinists: Micrometer, Dial Caliper, 6" Steel Rule and Carbide Scriber. The Marking Kit contains a 6" Steel Rule, Magnetic Pick-Up, Automatic Center Punch and Scriber.

S004

PRECISION MEASURING KIT
- This kit contains four of the most useful measuring and marking tools for mechanics or machinists
- Kit includes: No. 102, 0 to 1" micrometer; No. 145, 0 to 6" thousandths reading dial caliper; No. 676, 6" rigid stainless steel rule graduated in 8ths, 16ths, 32nds, and 64ths; No. 88CM, tungsten carbide scriber with magnetic pickup
- Packaged in sturdy, fitted, blow molded case designed specifically for these tools
- Instructions and conversion table (fractions to decimals to millimeters) included

UPC	NO.
34106 8	**S004**

109

PLUNGER DIAL INDICATOR
- Large 2-1/4" (57mm) diameter dial indicator
- Accuracy to .001"
- Dial is continuous and may be rotated for setting at any point
- Full 1" travel
- Revolution accumulator counter
- Direct decimal two-way reading left and right
- Adjustable limit indicators
- Lug mount standard

UPC	NO.	READINGS
10900 2	**109**	0 to .001" by .001"

POCKET PROTECTOR TOOL/MARKING KIT
- This handy pocket size tool kit is designed for the mechanic, machinist or hobbyist
- The kit contains four of General's best selling tools: No. 300/1, 6" rule; No. 383NX, telescoping magnetic pickup; No. 87, automatic center punch and No. 88, scriber
- All tools packaged in vinyl pocket protector which can be snapped closed

UPC	NO.	KIT INCLUDES ONE EACH:
34112 9	**S008**	6" rule, magnetic pickup, automatic center punch, scriber

SPECIALTY

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

GENERAL®

General's NEW **LumiLENS**™ Lighted Magnifier puts the light directly on your subject to be viewed. With its powerful extra bright LED light you will never be left in the dark again. Two lens magnifications, 3x and 6x, as well as an integrated stand for Hands-Free use make this tool a must in laboratory quality control, inspection and assembly functions.

• Hands-Free Use

• 3x Magnification, 6x Inset Lens

• Extra-Bright LED

800543

LumiLENS™
LIGHTED MAGNIFIER
• Push On / Push Off Powerful LED light
• Contoured Handle for Handheld Use
• Integrated Stand for Hands-Free Use
• Shatter-Resistant Lens
• 3-1/2" Lens Diameter (89mm)
• 3X Magnification (6X Inset lens)
• Power Source: 2 "AA" batteries (included)

UPC	NO.
26001 7	**800543**

ULTRATECH™
L E D V I S I O N™

NEW!

4 POWER POCKET ILLUMINATED MAGNIFER
• Handy 4 power magnifier has plastic body and lens
• Power Source: "AAA" batteries and No. 222 bulb (included)

UPC	NO.	POWER
42456 3	**553**	4

553

4" ILLUMINATED MAGNIFIER
• 4" diameter with 3 power lens covers large areas of print
• 5 power bifocal lens insert gives even greater magnification
• Bulb gives wide circle of illumination
• Plastic body and optical plastic lens
• Power Source: 2 "C" batteries (included)

UPC	NO.	POWER	FOCAL LENGTH
42462 4	**554**	3.0	3-1/3"
	Bifocal	5.0	2"

554

SPECIALTY

General's Magnifiers are used by toolmakers, jewelers, instrument assemblers, laboratory technicians, engineers, mechanics and inspectors who need sharp clear magnification without eyestrain. These magnifiers are designed for demanding jobs in laboratory quality control, inspections and assembly functions. The Illuminated Magnifiers are of the highest optical quality and offer fine resolution.

750545

700540

ULTRATECH™ GLASS MAGNIFIERS
- Polished optical glass lens with a metal frame
- Versa-Grip™ Handle with non-slip cushion grip
- Full range of sizes from 2" (50mm) to 4-1/2" (115mm)
- Round lens is distortion free
- A powerful magnifier for working in confined or obstructed spaces
- Designed for demanding jobs in laboratory quality control, inspection and assembly functions
- Used by engineers, mechanics, inspectors, lab technicians, toolmakers, instrument assemblers, jewelers, do-it-yourselfers, hobby and crafts people

UPC	NO.	DIAMETER	POWER	FOCAL LENGTH
00540 3	**700540**	2" (50mm)	1.6	6"
50541 5	**750541**	2-1/2" (65mm)	1.6	6"
50542 2	**750542**	3" (75mm)	1.6	6"
50543 9	**750543**	3-1/2" (90mm)	1.25	8"
50544 6	**750544**	4" (100mm)	1.25	8"
50545 3	**750545**	4-1/2" (115mm)	1.25	8"

538

2" MAGNIFIER
- Economical and versatile magnifier for laboratory and industrial uses, for do-it-yourselfers, mechanics and inspectors
- 2" diameter with 4 power lens
- Lightweight, durable 1-piece molded plastic frame

UPC	NO.	POWER	FOCAL LENGTH
42414 3	**538**	4	2"

565

RECTANGULAR ILLUMINATED MAGNIFIER
- Lens measures 2" x 4" for distortion-free magnification of large areas
- Reversible light reflector adapts for right- or left-hand use
- 2.5 power shatterproof lens, with 5 power bifocal insert
- Replaceable bulb and 2 "AA" batteries are included

UPC	NO.	POWER	FOCAL LENGTH
42509 6	**565**	2.5	4"
	Bifocal	5.0	2"

1050

ADJUSTABLE ILLUMINATED MAGNIFIER
- Epoxy coated steel rod stand has adjustable lens for factory, industrial and hobby use
- Illumination: 7 watt bulb
- 6 ft. cord plugs into 110-120V AC. UL listed
- Big lens - 4" (102mm) diameter
- Small lens - 0.8" diameter
- 3x magnifier with 6x spot lens

UPC	NO.	POWER
43750 1	**1050**	3x (Big lens)
		6x (Small Lens)

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

SPECIALTY

General's Magnifiers are used by toolmakers, jewelers, instrument assemblers, laboratory technicians, engineers, mechanics and inspectors who need sharp clear magnification without eyestrain. These magnifiers are designed for demanding jobs in laboratory quality control, inspections and assembly functions. Our magnifiers are of the highest optical quality and offer fine resolution.

2.5 POWER POCKET MAGNIFIER

- Has 2.5 power ground and polished optical glass
- Folds into case for storage

UPC	NO.	POWER	FOCAL LENGTH
42400 6	**532**	2.5 Simulated Black Leather case	4"

532

EYE LOUPE

- For toolmakers, jewelers, instrument assemblers and others who need sharp, clear magnification without eyestrain
- Clear optical glass lens is ground and polished
- 1" diameter lens

UPC	NO.	POWER	FOCAL LENGTH
42339 9	**527**	5.0	2"

527

FOLDING POCKET MAGNIFIERS

- Fine quality magnifiers for laboratory technicians, engineers, mechanics and inspectors
- Case and lens rims are made of black molded plastic
- Available in single lens and double lens models

UPC	NO.	IND. MOD.	TOT. POW.	LENS POW.	FOCAL DIA.	LENGTH
42403 7	**533**	Sing.	4.0	4.0	1"	2.5"
42409 9	**536**	Dble.	4.0	8.0	1"	1.25"
42412 9	**537**	Dble.	3.0	6.0	1-1/4"	1.6"

533   **536**

BINOCULAR MAGNIFIER

- For assemblers and inspectors of electronic and other small or subminiature parts, toolmakers, jewelers and engravers
- Leaves hands free to work
- Ground and polished optical lenses eliminate eyestrain
- Tilt-up lens frame
- Fits over prescription glasses

UPC	NO.	POWER	FOCAL LENGTH
43734 1	**950-5**	2.25	8"

950

The Mini-Light has an LED light bulb which has a life of 100,000 hours of continuous use. These lights require 4 "LR41" batteries which have a life of 48 continuous hours. The Mini's come with either a telescoping handle which extends up to 28-3/4" (720mm) or with an alligator clip which clips on anything, anytime, anywhere for instant, direct light.

MB560

MAGNETIC BASE INSPECTION MIRROR
• Adjustable 3-1/2" x 2" oblong glass inspection mirror mounted to a permanent magnet
• Attaches to any steel or iron machine, tool, appliance or other equipment
• Has wing nut ball joint adjustment

UPC	NO.
42475 4	**MB560**

580

"LITE-IT" CLIP-ON MINI-LIGHT
• Clips on to anything, anytime, anywhere for instant, direct light
• Light is fastened to a rugged high-impact ABS plastic Alligator Clip with a double ball joint that adjusts to any angle
• 4 Alkaline, "LR41", batteries with a battery life of 48 continuous hours
• LED bulb has a life of 100,000 hours of continuous use

UPC	NO.	PKG.
58001 6	**580**	Carded

759582

TELESCOPING MINI-LIGHT WITH MAGNETIC PICK-UP
• Mini Light with 2 lb. Neodymium Magnetic pick-up are both fastened to a stainless steel telscoping wand molded into a rugged high-impact ABS plastic handle
  • Telescopes from 7-3/4" – 28-3/4" (197mm – 720mm)
• 4 Alkaline, "LR41", batteries with a battery life of 48 continuous hours
• LED bulb has a life of 100,000 hours of continuous use
• Has a 2 lb. smooth surface pull capacity Neodymium donut magnet
• Precision engineered 750 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
75966 5	**759581**	Carded
75967 2	**759582**	Carded

582

TELESCOPING MINI-LITE WITH MAGNETIC PICK-UP
• A powerful permanent magnetic pick-up tool
• Ideal for retrieving steel and iron parts from hard-to-reach and see work areas
• Magnet is fitted in a 5-1/2" (140mm) long ergonomically designed handle
• 4 Alkaline, "LR41", batteries with a battery life of 48 continuous hours
• Light Bulb has a life of 100,000 hours of continuous use
• Mini-Light is fastened to a chrome plated brass wand with a double ball joint
• Ball and socket feature for simple, positive adjustments

UPC	NO.	PKG.
05820 1	**582**	Carded

2 1/2"
Diameter

759563

2-1/2" ROUND TELESCOPING 3X POWER MAGNIFYING MIRROR
• For the inspection of obstructed and hard to see objects
• High quality 2-1/2" (64mm) diameter magnifying glass mirror improves visibility
• High strength corrosion resistant stainless steel wand extends from 8-1/2" to 29" (216mm – 737mm)
• Precision engineered 750 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
75959 7	**759563**	Carded

SPECIALTY

ALWAYS WEAR
OSHA APPROVED
SAFETY GOGGLES

GENERAL®

Inspection Mirrors facilitate inspection of inaccessible workpieces and machines by toolmakers, assemblers, inspectors and mechanics. Fully polished mirrors are enclosed in plated holders which are attached to knurled handles with ball and socket joints. Telescoping arms and vinyl cushion grip handles are offered on some mirrors.

TELECSCOPING LIGHTED INSPECTION MIRROR

- 2 Extra bright LED lights facilitate the inspection of hard-to-see and hard-to-reach areas
- Ideal for toolmakers, machinists, inspectors and mechanics
- Fully polished glass mirror is shatter-resistant
- 2 "CF2032" batteries included
- 360° Swivel double ball joint

UPC	NO.	SIZE	OVERALL LENGTH
02146 5	**80560**	2" x 3"	12-1/4", extends to 33"

NEW!

80560

LONG TELECSCOPING INSPECTION MIRROR

- Handle has black cushion grip
- Non-slip grip
- Mirror size: 2" diameter
- 36" telescoping

UPC	NO.
05590 3	**559**

559

METAL INSPECTION MIRRORS

- Includes plastic protective sheath
- Heavy-duty construction

UPC	NO.	SIZE	OVERALL LENGTH
05531 3	**5561**	1-1/4" x 2"	9-3/4", extends to 26"
05562 0	**5562**	2" x 3-3/4"	10-3/4", extends to 26"
05563 7	**5563**	3-3/4" dia.	9-3/4", extends to 26"

5562

5561

5563

GLASS INSPECTION MIRRORS

- These mirrors facilitate inspection of inaccessible workpieces and machines by toolmakers, assemblers, inspectors and mechanics
- Fully polished glass mirrors are enclosed in plated holders which are attached to knurled handles with ball and socket joints
- Nos. 557, 577, 560, and 570 have telescoping arms and vinyl cushion grip handles

UPC	NO.	SIZE	OVERALL LENGTH
42465 5	**555**	1-1/4" dia.	8"
42468 6	**557**	2-1/4" dia.	10-1/2", extends to 15"
42471 6	**558**	1" x 2" oval	9"
42473 0	**560**	3-1/2" x 2" oblong	11-1/2", extends to 16"

ACRYLIC PLASTIC INSPECTION MIRRORS

UPC	NO.	SIZE	OVERALL LENGTH
42480 8	**577**	2-1/4" dia.	10-1/2" – 15"
42477 8	**570**	3-1/2" x 2"	11-1/2" – 16"

REPLACEMENT MIRRORS WITH FRAMES

UPC	NO.
42478 5	**557RMF** for No. 557
42484 6	**560RMF** for No. 560 and No. MB560

560
570

558

557
577

555

SPECIALTY
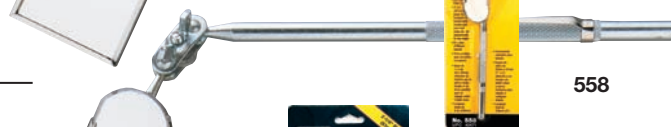
Inspection Mirrors facilitate inspection of inaccessible workpieces and machines by toolmakers, assemblers, inspectors and mechanics.

Fully polished mirrors are enclosed in plated holders which are attached to ergonomically designed handles with ball and socket joints.

DOUBLE BALL JOINT CONNECTION PERMITS INFINITE ANGLE ADJUSTMENTS

HIGH STRENGTH CORROSION RESISTANT STAINLESS STEEL TELESCOPING WAND

ERGONOMICALLY DESIGNED HANDLE WITH CONTOURED HEAD FOR GREATER CONTROL AND COMFORT

EIGHT SIDED CUSHION GRIP HAS A NON-SLIP SURFACE

RUGGED HIGH IMPACT ABS PLASTIC HANDLE

ROTATING CAP FACETS FIT PALM

UTILITY TELESCOPING INSPECTION MIRRORS

70557

70555

- These mirrors facilitate inspection of inaccessible work pieces and machines by toolmakers, assemblers, inspectors and mechanics
- Fully polished mirrors are enclosed in plated holders which are attached to handles with a double ball and socket joint
- Double ball and socket joints adjust to any angle
- Nos. 70557 have telescoping arms and vinyl cushion grip handles

| UPC	NO.	SIZE	OVERALL LENGTH
22344 9	**70555**	1-3/8" dia.	5" extends to 27-1/2"
22347 0	**70557**	2-1/4" dia.	9-3/4" extends to 14-3/4"

759575

1-1/2" ROUND PLASTIC TELESCOPING MIRROR

- For the inspection of obstructed and hard to see objects
- High performance 1-1/2" (38mm) diameter Lexan™ mirror resists scratching and shattering

- High strength corrosion resistant stainless steel wand extends from 7-5/8" to 28" (194mm – 711mm)
- Precision engineered 750 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
75957 3	**759575**	Carded

759570
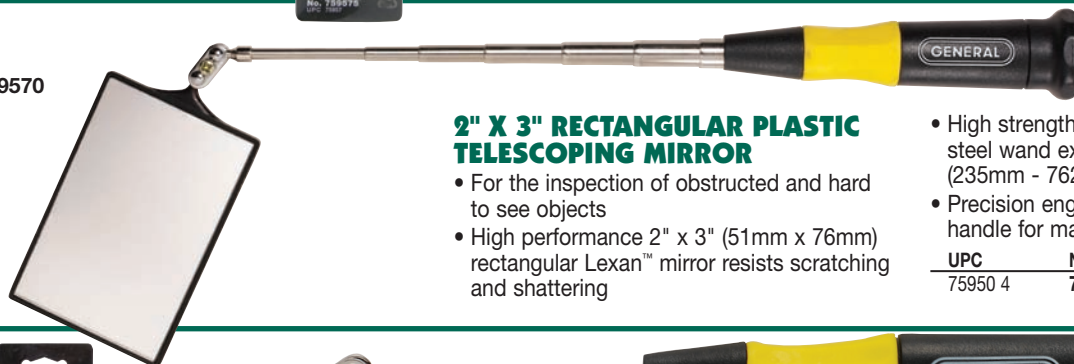
2" X 3" RECTANGULAR PLASTIC TELESCOPING MIRROR

- For the inspection of obstructed and hard to see objects
- High performance 2" x 3" (51mm x 76mm) rectangular Lexan™ mirror resists scratching and shattering

- High strength corrosion resistant stainless steel wand extends from 9-1/4" to 30" (235mm - 762mm)
- Precision engineered 750 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
75950 4	**759570**	Carded

1 1/2"

1-1/2" ROUND PLASTIC, FIXED LENGTH, INSPECTION MIRROR

- For the inspection of obstructed and hard to see objects
- High performance 1-1/2" (38mm) diameter Lexan™ mirror resists scratching and shattering

- High strength stainless steel shaft resists corrosion
- Overall length is 8" (203mm)
- Precision engineered 700 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
70972 1	**709575**	Carded

709575

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

SPECIALTY

TELESCOPING *Speed-Chuck*™ INSPECTION SETS

- Stainless Steel *Speed-Chuck*™ and telescoping wand combination provides quick and limitless inspection and retrieval solutions
- Ergonomically designed handle with contoured head for greater control and comfort
- Handle telescopes from 6-3/8" (163mm) to 26" (660mm)
- Spring-loaded *Speed-Chuck*™ allows blade changes instantly
- All attachments are fastened to a stainless steel *Speed-Chuck*™ adapter with a double ball joint, adjusts to any angle

- Precision Locking System firmly holds blades in place
- Available attachments:
  - Neodymium magnets: 2 lb., 5 lb. and 10 lb. smooth surface pull capacities • Mirrors & Magnifiers: 1-1/2" (38mm) diameter • 2" x 3" (51mm x 76mm) rectangular mirror • 2-3/8" (60mm) dia. 3x power magnifying mirror
  - 2-1/2" (64mm) dia. 3x power magnifier;
  - Alligator clip • Mini-Lite
- All sets are securely and safely protected within a fitted zippered case
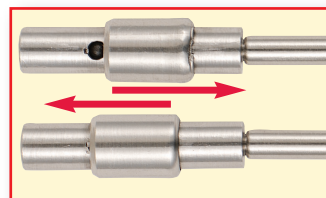
3-PIECE TELESCOPING "SPEED-CHUCK™" INSPECTION SET
- Set includes: • 26" stainless steel telescoping wand with *Speed-Chuck*™ handle • 2 lb. magnetic pick-up
  - 1-1/2" round plastic mirror • Mini-Lite
  - Batteries included
- Precision engineered 750 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
75960 3	**759903**	Zippered Case/Boxed

759903

5-PIECE TELESCOPING "SPEED-CHUCK™" INSPECTION SET
- Set includes: • 26" stainless steel telescoping wand with *Speed-Chuck*™ assembly • 5 lb. magnetic pick-up
  - 2" x 3" rectangular plastic mirror
  - 3x power magnifier, alligator clip • Mini-Lite. Batteries included
- Precision engineered 750 Series Versa-Grip™ handle for maximum performance

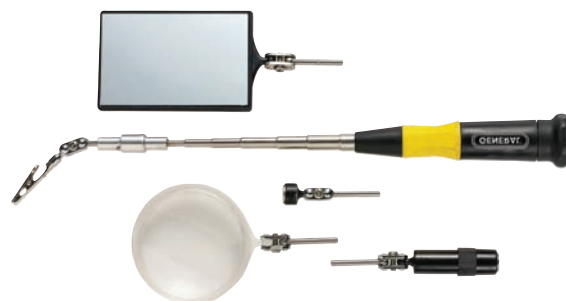| UPC	NO.	PKG.
75961 0	**759905**	Zippered Case/Boxed

759905

9-PIECE TELESCOPING "SPEED-CHUCK™" INSPECTION SET
- Set includes: • 26" stainless steel telescoping wand with *Speed-Chuck*™ assembly
  - 2 lb., 5 lb. and 10 lb. magnetic pick-ups
  - 1-1/2" round mirror • 2" x 3" rectangular mirror • 2-1/2" round glass magnifying mirror
  - 3x power magnifier, alligator clip
  - Mini-Lite • Batteries included
- Precision engineered 750 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
75962 7	**759909**	Zippered Case/Boxed

759909

TELESCOPING MAGNETIC PICK-UPS
- High powered 2 lb., 5 lb., 10 lb. Neodymium magnets are 6 times stronger than standard Cobalt magnets
- Double ball joint connection permits infinite angle adjustments
- High strength corrosion resistant stainless steel wand extends from 6-1/2" - 27" (165mm – 686mm)

- Magnet holder is constructed of high-strength reinforced nylon
- Precision engineered 750 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PULL	PKG.
75933 7	**759383**	2 lb.	Carded
75958 0	**759394**	5 lb.	Carded
75939 9	**759398**	10 lb.	Carded

**759383
759394
759398**

SPECIALTY

709392

FIXED LENGTH MAGNETIC PICK-UP, 2 LB. PULL
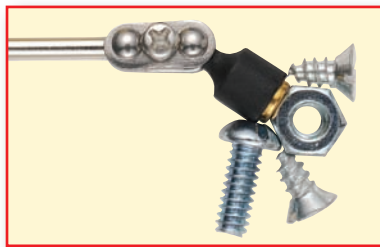
- Has a 2 lb. smooth surface magnetic pull capacity with an overall length of 6-3/4" (171mm)
- High strength stainless steel shaft resists corrosion
- Durable ball joint connection permits infinite angle adjustments
- High powered Neodymium Magnet is 6 times stronger than standard Cobalt Magnets

- Magnet holder is made of high-strength reinforced nylon
- Precision engineered 700 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
70972 1	**709392**	Carded

386

POCKET MAGNETIC PICKUP

- Powerful permanent magnet in a knurled aluminum holder with handy pocket clip
- High-powered neodymium magnet is six times more powerful than standard magnet
- Ideal for retrieving small steel and iron parts from hard-to-reach areas

- Measures 5-1/2" (140mm) overall

UPC	NO.	MAGNET	PULL
42219 4	**386**	NEO	2 lb. pull

384N

FLEX-O-STIFF MAGNETIC PICKUP

- An ideal tool for retrieving steel parts from hard-to-reach places
- High-powered neodymium magnet is six times more powerful than standard magnet
- Permanent magnetic power

- Magnet is fitted into an 18" (457mm) nickel plated holder, which can be extended to a 32" (813mm) flexible retriever

UPC	NO.	MAGNET	PULL
42210 1	**384N**	NEO	2 lb. pull

392

MAGNETIC PICKUP WITH PIVOT JOINT

- An excellent tool for retrieving small steel parts from hard-to-reach places
- High-power neodymium magnet lifts up to two pounds and will never lose its magnetism
- 8-3/4" (222mm) overall length

- Locking pivot joint allows user to pick up objects around corners
- Nickel plated steel body with cushion grip handle
- Pocket clip for convenient storage

UPC	NO.	PULL
42224 8	**392**	2 lb. pull

394

EXTRA-LONG, MAGNETIC PICKUP WITH PIVOT JOINT

- An excellent tool for retrieving steel parts from hard-to-reach places
- High-power neodymium magnet lifts up to five pounds and will never lose its magnetism
- Steel body measures 13" (330mm) and can be extended to 27" (685mm)

- Locking pivot joint allows user to pick up objects around corners
- Body is chrome plated, with a vinyl cushion grip handle

UPC	NO.	PULL
42228 6	**394**	5 lb. pull

SPECIALTY

ALWAYS WEAR
OSHA APPROVED
SAFETY GOGGLES

BENDABLE MAGNETIC PICK-UP

- An excellent tool for retrieving steel parts from hard-to-reach places
- High-power neodymium magnet
- Knurled aluminum body with bendable 15" (381mm) wire
- Overall length is 20" (508mm)
- Lifts up to 2 pounds

UPC	NO.	PULL
42229 3	**395**	2 lb. pull

395

TELESCOPING MAGNETIC PICKUP

- A powerful permanent magnetic pickup tool
- Ideal for retrieving steel and iron parts from hard-to-reach work areas
- Magnet is fitted in a 5-1/2" long nickel plated steel handle that can extend up to 23-1/2"
- Holder is fitted with a pocket-clip

UPC	NO.	PULL
42208 8	**383NX**	2 lb. pull

383NX

TELESCOPING MINI-LIGHT WITH MAGNETIC PICK-UP

- Mini Light with 2 lb. Neodymium Magnetic pick-up are both fastened to a stainless steel telscoping wand molded into a rugged high-impact ABS plastic handle
- Telescopes from 7-3/4" – 28-3/4" (197mm – 720mm)
- 4 Alkaline, "LR41", batteries with a battery life of 48 continuous hours
- LED bulb has a life of 100,000 hours of continuous use
- Has a 2 lb. smooth surface pull capacity Neodymium donut magnet
- Precision engineered 750 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
75966 5	**759581**	Carded
75967 2	**759582**	Carded

759582

TELESCOPING MINI-LITE WITH MAGNETIC PICK-UP

- A powerful permanent magnetic pick-up tool
- Ideal for retrieving steel and iron parts from hard-to-reach and see work areas
- Magnet is fitted in a 5-1/2" (140mm) long ergonomically designed handle
- 4 Alkaline, "LR41", batteries with a battery life of 48 continuous hours
- Light Bulb has a life of 100,000 hours of continuous use
- Mini-Light is fastened to a chrome plated brass wand with a double ball joint
- Ball and socket feature for simple, positive adjustments

UPC	NO.	PKG.
05820 1	**582**	Carded

582

PRECISION MAGNETIZER/DEMAGNETIZER

- Magnetize and demagnetize screwdrivers, tweezers, tool bits and other steel objects
- Magnetize by sliding the tool through the (+) opening
- Demagnetize by sliding the tool through the (-) opening
- Demagnetize tools for use in electronics
- Step design permits greater conrol of magnetism

UPC	NO.	DIMENSIONS
36010 6	**3601**	2" x 2" x 1-1/8" (58 x 58 x 29mm)

3601

MAGNETIZER/DEMAGNETIZER

- Specially designed for magnetizing and demagnetizing screwdrivers, nut drivers, wrenches, taps and small tools
- Converts any tool blade into a magnetic retriever for screws, nuts and metallic particles

UPC	NO.	DIMENSIONS
42021 3	**360**	1" x 1" x 1-3/4" (25 x 25 x 44mm)

360

SPECIALTY

"It's Your Job . . . General Tools Make It Easier" **T-99**

The Magnetic Sweeper is an ideal tool for retrieving iron, steel and all ferrous materials. Especially effective around new construction sites, both indoors and outdoors. Also effective in machine shops for cleaning up around power equipment such as drill presses, milling machines and lathes. The Magnetic Tool Rack holds and organizes tools in garages, work shops and service stations.

PICKUP STICK™ SWEEPER

• An ideal tool for retrieving iron, steel and all ferrous materials
• Powerful, permanent magnet for a no-stoop pick-up
• Vinyl-coated magnet for long-life and durability
• 37" (940mm) steel shaft for greater strength and durability
• Plastic handle grip for greater control and comfort

UPC	NO.	
31434 5	**397**	Pickup Stick

397

UTILITY SWEEPER

• An ideal tool for retrieving iron, steel and all ferrous materials
• Powerful, permanent magnets for a no-stoop pick-up
• 39" (991mm) aluminum shaft
• Plastic handle grip for greater control and comfort
• Some assembly required

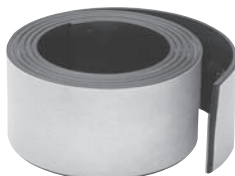| UPC	NO.		WIDTH
22189 6	**354**	Sweeper	24" (610mm)

354

MAGNETIC TOOL RACK

• Holds and organizes tools in garages, workshops and service stations
• Powerful permanent magnet
• Includes: 1 - 20" Magnetic Tool Rack, 2 mounting brackets with screws
• Modular mounting brackets can be used to create additional lengths

UPC	NO.	WIDTH
25001 8	**250**	20" (508mm)

250

MAGNETIC STRIPS

• Our flexible magnetic strip with adhesive backing adheres to most smooth clean surfaces
• Holds small-metal objects
• 1/16" thick and easily cuts to desired length with scissors or knife

UPC	NO.	SIZE
42027 5	**366**	1/2" x 30"
42033 6	**368**	1" x 30"
42036 7	**369**	1" x 10'
42038 1	**369-100**	1" x 100'

368

SHALLOW POT CERAMIC MAGNETS

• Shallow depth permits use in confined spaces
• Nos. 376A and 376B have 3/16" diameter clearance holes for fastening with rods or bolts
• No. 376C has a 9/32" diameter clearance hole

UPC	NO.	DIA.	DEPTH	PULL
42111 1	**376A**	1-3/8"	3/16"	12 lbs.
42114 2	**376B**	2"	1/4"	20 lbs.
42117 3	**376C**	2-5/8"	3/8"	35 lbs.

376

SPECIALTY

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

Aluminum, nickle and cobalt alloy make General's Alnico line of magnets strong and permanent. The strong magnetic pull of the Alnico Magnets make it perfect for lifting, holding, sorting, clamping or retrieving steel or iron parts. Alnico Magnets will retain their magnetic force indefinitely. Removable keepers insure long life and optimum performance.
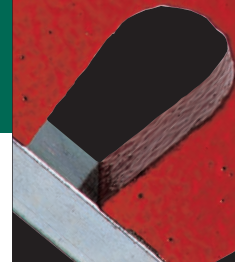
BUTTON TYPE ALNICO MAGNETS

- Button shaped magnet has almost unlimited applications
- Retrieves screws and steel parts
- Center hole on top of magnet for easy fastening

| UPC	NO.	DIA.	HT.	PULL	CORED HOLE
42073 2	**372A**	1/2"	3/8"	1-1/2 lbs.	1/8"
42076 3	**372B**	3/4"	1/2"	4 lbs.	1/8"
42079 4	**372C**	1"	5/8"	6-1/2 lbs.	3/16"
42082 4	**372D**	1-1/4"	3/4"	14 lbs.	3/16"
42085 5	**372E**	1-1/2"	7/8"	18-1/2 lbs.	1/4"
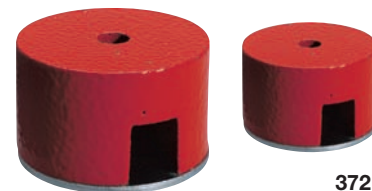
372

POT TYPE ALNICO MAGNETS

- Unique combination of strong magnet with insulating ring gives this magnet the superior holding power of larger magnets
- 1/4" diameter x 20 threads-per-inch hole for attaching to fixtures and machines

UPC	NO.	DIA.	PULL	WT.	HT.
42093 0	**374A**	11/16"	6 lbs.	6 oz.	5/8"
42096 1	**374B**	13/16"	10 lbs.	6 oz.	3/4"
42102 9	**374C**	1-1/16"	18 lbs.	12 oz.	1"
42105 0	**374D**	1-3/8"	35 lbs.	24 oz.	1-3/16"
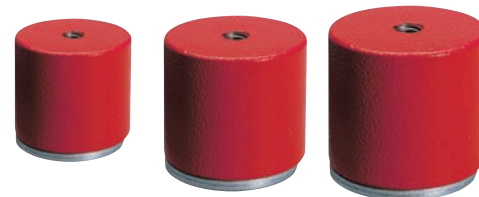
374

POWER ALNICO MAGNETS

- Strong magnetic pull for lifting, holding, sorting, clamping or retrieving steel or iron parts
- Hole in top of magnet for attaching conveyors, racks, and welding jigs

370-1

UPC	NO.	SIZE OZ.	APPROX. PULL LBS.	WIDTH IN.	HT. IN.	DEPTH IN.	POLE WIDTH IN.	OPENING BETWEEN POLES, IN.	CORED HOLE	OZ. WEIGHT EACH WITH KEEPER
42041 1	**370-1**	.8	8	1-1/8"	1"	5/16"	5/16"	1/4"	—	1
42044 2	**370-2**	2	13	1-1/8"	3/4"	3/4"	1/4"	9/16"	3/16"	3
42050 3	**370-4**	4	22	1-1/2"	1"	1"	5/16"	3/4"	3/16"	5
42053 4	**370-6**	6	30	1-3/4"	1-1/8"	1-1/8"	5/16"	7/8"	3/16"	8
42056 5	**370-8**	8	32	2-3/16"	1-13/16"	15/16"	1/2"	1-3/16"	3/16"	10
42061 9	**370-12**	12	42	2-5/8"	2-1/4"	15/16"	5/8"	1-3/8"	3/16"	15
42064 0	**370-16**	16	50	3"	2-1/2"	15/16"	3/4"	1-1/2"	3/16"	20
42067 1	**370-24**	24	70	2-1/2"	1-13/16"	1-7/8"	5/8"	1-3/8"	1/4"	28

370-2

WELDING MAGNET

- Designed to enable fast and accurate holding of ferrous metal for welding and assembly jobs
- Holds both sheet and tube at angles of 180°, 90°, 45° and 30°
- Two body holes enable the clamp to be built into jigs or hung when not used

- Small compact design makes the "quick clamp" useful for all light ferrous fabrication work
- Ideal to include in the tool kit for numerous holding applications

| UPC	NO.	THICKNESS	PULL LBS.	WT. OZ.
42122 7	**377**	.468	50.0	9.0

377

MAGNETIC ADJUSTABLE WELDING LINK

- Ideal for holding steel plates in position for welding, brazing, and soldering, eliminating the need for clamps or temporary fastening
- General's welding links are constructed of two heavy-duty Alnico magnetic blocks

linked together with a strong steel bar and wing nuts for easy angle adjustment

UPC	NO.	SIZE OF BLOCK	PULL PER BLOCK
42226 2	**375**	2.4" x 1" x 1"	25 lbs.

375

SPECIALTY
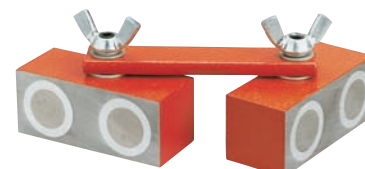
GENERAL®

THE QUAD™
SAW/DRIVER

A 4-IN-1 CUTTING & DRIVING SYSTEM

DRYWALL/SHEETROCK 6" X 6 TPI
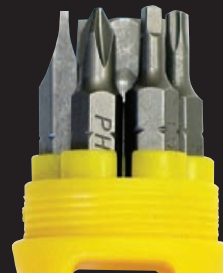
1. JAB SAW
2. KEYHOLE SAW
3. POWER DRIVER
4. SPEED DRIVER

The Keyless Quick Change Locking Chuck accepts both Quick Change Power Bits and Standard Reciprocating Saw Blades.

"THE QUAD™" Saw/Driver set offers a 4-IN-1 Cutting and Driving System; a jab saw, key hole saw, power driver, and speed driver.

The 2 position quick change locking handle offers both power and speed. A convenient holster holds all 14 pieces.

THE QUAD SAW/DRIVER

"THE QUAD™"
14 PIECE SAW/DRIVER SET

- A 4-IN-1 cutting and driving system
  ① Jab Saw with straight handle and special Sheetrock reciprocal blade
  ② Keyhole Saw in the pistol grip handle position
  ③ Power Driver in the pistol grip position
  ④ Speed Driver, screw or nut driver with straight handle
- The keyless Quick-Change locking chuck accepts both Quick-Change bits and industry standard reciprocating saw blades
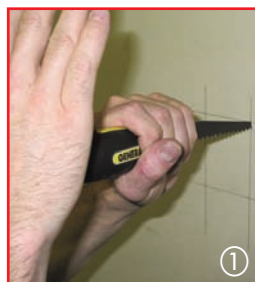
14 PIECE SET INCLUDES:

- 3 saw blades; drywall, Metal/PVC, wood,
- 7 insert bits
- 1 hex to square adaptor
- 1 quick change handle
- 1 holster with belt-clip
- 1 bit extender
- Swivel locking chuck holds all reciprocating blades and speed shank power bits
- Comfortable handle easily locks in the straight or pistol grip position

UPC	NO.
86014 9	**86014**

Bit Extender

GENERAL METAL/PVC 6" X 24 TPI

GENERAL WOOD 6" X 10 TPI

GENERAL DRYWALL/SHEETROCK 6" X 6 TPI

86014

① ② ③ ④

HOLSTER

14 Piece/Pièces/Piezas

GENERAL

THE QUAD

SAW/DRIVER

4-IN-1 CUTTING & DRIVING SYSTEM

No. 86014
UPC 86014

General Tools Professional Quality Knife Sets are designed specifically for the precision cutting of a variety of materials, from fine, intricate cutting to heavy-duty carving and scraping.

General Tools offers a complete line of precision hobby knives for industrial users, crafts people and hobbyists. A broad selection of surgically sharp replacements and accessory blades are available.
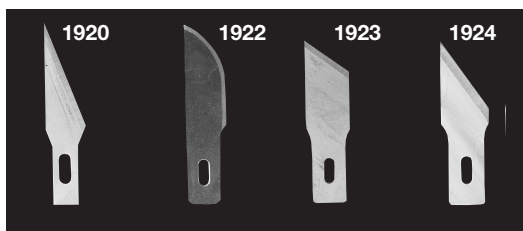
1901
1902
1903

PRECISION HOBBY KNIVES
• Precision knives for fine angle cuts

UPC	NO.	HANDLE CONSTRUCTION	KNIFE WEIGHT	PKG. QTY.
43974 1	**1901**	Aluminum	Light duty	5
43976 5	**1902**	Aluminum	Medium duty	5
43978 9	**1903**	Aluminum	Heavy-duty	5

1920   1922   1923   1924

HOBBY KNIFE BLADES
• For precision cutting from medium to heavy cuts
• Packed in a quantity of 5.

UPC	NO.	REPLACEMENT FOR
43988 8	**1920**	1901
43992 5	**1922**	1902, 1903, 1905
43994 9	**1923**	1902, 1903, 1905
43996 3	**1924**	1902, 1903, 1905

1915

PRECISION KNIFE SET
• Consists of one each of Nos. 1901, 1902 and 1903 knives and 10 assorted blades in a fitted wooden case

UPC	NO.
43984 0	**1915**

22-PIECE PRECISION KNIFE AND BLADE SET
• Designed specifically for the precision cutting of a variety of materials
• Heavy-duty locking screw chuck holds blades securely in place
• Set includes: • 2 Multi-Blade Handles No. 1 and No. 2 • 20 Knife Blades -
• 5 - No. 11 • 5 - No. 16 • 3 - No. 17B
• 3 - No. 22 • 2 - No. 26 • 2 - No. 28 blades

• Packaged in a pocket sized zippered case
• All **ULTRATECH™** knife handles accept industry standard blades
• Precision engineered 700 and 750 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
75622 0	**75622**	Zippered Case/Carded

75622

#26   #16   #28   #17   #11   #22
Blades shown actual size

SPECIALTY

ALWAYS WEAR
OSHA APPROVED
SAFETY GOGGLES

Cutting & Carving Tools

General's Utility Knives are used for cutting and scoring fiber-board, matboard, roofing, linoleum, carpeting, plasterboard and veneers.

The Five-Piece Carving Tool Set offers a fixed blade that is forged tool steel, ground and hardened for lasting sharpness. Handles are made of hardwood for greater control and comfort grip.

SLIDE LOCKING UTILITY KNIFE

- For cutting and scoring fiberboard, wallboard, matboard, cardboard, corkingboard, roofing, linoleum, carpet, plasterboard, veneers and other materials
- Opens instantly to any one of three cutting positions
- Blade retracts into handle for safety

- Comes with three replaceable heavy-duty alloy steel blades, No. 852, in storage handle

UPC	NO.	
43046 5	**855**	Heavy-duty

855

HEAVY-DUTY UTILITY KNIFE BLADES

UPC	NO.	THICKNESS	PKG. QTY
43027 4	**852-5**	0.025	5
43030 4	**852-100**	0.025	100

852

FIVE-PIECE CARVING TOOL SET

- Five different blade shapes
- Blades are made of hand forged tool steel, ground and hardened for lasting sharpness
- Half round palm style handles are made of hardwood
- Comes in vinyl case
- Overall length 5"

UPC	NO.	BLADE SHAPE
43900 0	**1293**	Bent large gouge, 5/16"
		Straight small gouge, 5/32"
		Bent V parting tool, 5/32"
		Straight skew chisel, 5/16"
		Bent square chisel, 5/16"

Bent Large Gouge, 5/16"

Bent V Parting Tool, 5/32"

Bent Square Chisel, 5/16"

Straight Small Gouge, 5/32"

Straight Skew Chisel, 5/16"

1293

GLASS CUTTER

- Cuts plate glass from 1/8" to 1/4" thick
- Steel wheel with honed angle of 120° for cutting single and double strength glass
- Ball end handle for snapping of scored glass
- Tooth design to remove rough edges

UPC	NO.	LENGTH
43061 8	**8501**	5" (125mm)

8501

JUNIOR HACKSAW

- Handy cutting tool for hobbyists, do-it-yourselfers and professionals
- Ergonomically designed with a comfortable high-impact plastic handle
- 6" (150 mm) replaceable heat treated blade for cutting metal
- Sturdy tubular frame

- Reversible blade for push or pull cutting
- Set of 6 replacement blades: 3 wood and 3 metal

UPC	NO.	
43067 0	**864**	
43070 0	**864B**	Set of 6 Blades

864

SPECIALTY

"It's Your Job . . . General Tools Make It Easier"

General Tools offers Solid Brass Grommet Kits, which are available in three sizes, Snap Fastener Kits and Screw Fastener Kits. These various kits are used to repair canvas, tarpaulins, tents, awnings, sailcloth, lawn furniture and pool covers. Each set has handy step-by-step instructions.

UTILITY GROMMET KITS

1261

- These various size kits are used to repair canvas, tarpaulins, tents, awnings, sailcloth, lawn furniture and pool covers
- Contains brass plated steel grommets with hole cutter and hardwood backer block, hardened mandrel and anvil
- Setting tool has knurled body for greater comfort and safety
- Setting tool and anvil are coded with lines for each individual size grommet
- Three sizes available

71260

INDIVIDUAL SIZE

UPC	NO.	DESCRIPTION
22341 8	**71260**	1/4" Grommet Kit with 48 grommets
22342 5	**71262**	3/8" Grommet Kit with 24 grommets
22343 2	**71264**	1/2" Grommet Kit with 12 grommets

GROMMET REFILLS

UPC	NO.	SPECIFICATIONS
41103 7	**1261-0**	1/4" Grommet Refill with 24 Grommets
41104 4	**1261-2**	3/8" Grommet Refill with 24 Grommets
41105 1	**1261-4**	1/2" Grommet Refill with 24 Grommets

SNAP FASTENER KIT

- Contains 2-piece setting tool and 6 fastener sets
- Solid brass fasteners with nickel plating will not rust
- Knurled body for greater comfort and safety

1265

UPC	NO.	SPECIFICATIONS
41106 8	**1265**	Snap Fastener Kit with 6 Fasteners
41107 5	**1266**	6 Snap Fastener Refills

SCREW SNAP FASTENER KIT

- Contains 2-piece setting tool and 6 fastener sets
- Solid brass fasteners with nickel plating will not rust
- Knurled body for greater comfort and safety
- Screw snap fastener base has 3/8" long screw for attaching to wood, plastic and fiberglass

1267

UPC	NO.	SPECIFICATIONS
41108 2	**1267**	Screw Snap Fastener Kit with 6 Fasteners
41109 9	**1268**	6 Screw Snap Fastener Refills

SPECIALTY

Arch Punches, Hollow Steel Punches and Gasket Punches are all used for punching round holes in gasket material, leather, rubber, canvas, cardboard, plastic, sheet metal and other soft materials.

These fine quality tools are forged and heat-treated for long life and the cutting edges will stay sharper longer.

ARCH PUNCHES

- For punching holes in leather, rubber, gasket material and soft metals
- Inside taper for clearance
- Heat treated forged steel
- The 1271ST consists of seven punches, one each of 1/4", 3/8", 1/2", 5/8", 3/4", 7/8" and 1", comes in plastic roll pouch

UPC	NO.	SIZE
43849 2	**1271ST**	Set of 7

- Available in individual sizes listed

UPC	NO.	SIZE
43793 8	**1271A**	1/4"
43799 0	**1271C**	3/8"
43804 1	**1271E**	1/2"
43810 2	**1271G**	5/8"
43813 3	**1271H**	11/16"
43816 4	**1271-I**	3/4"
43819 5	**1271J**	13/16"
43821 8	**1271K**	7/8"
43822 5	**1271L**	15/16"
43825 6	**1271M**	1"
43827 0	**1271N**	1-1/8"
43829 4	**1271-O**	1-1/4"
43831 7	**1271P**	1-3/8"
43833 1	**1271Q**	1-1/2"

1271ST

HOLLOW STEEL PUNCHES

- For punching holes in leather, rubber, canvas, cardboard, plastic and other materials
- Made of forged steel with side clearance hole for easy removal of punched material
- The 1280ST which consists of six punches, 3/16", 1/4", 5/16", 3/8", 7/16", and 1/2", comes in a plastic roll pouch

UPC	NO.	SIZE
43896 6	**1280ST**	Set of 6

- Available in individual sizes listed

UPC	NO.	SIZE
43856 0	**1280A**	3/32"
43859 1	**1280B**	1/8"
43862 1	**1280C**	5/32"
43865 2	**1280D**	3/16"
43868 3	**1280E**	7/32"
43870 6	**1280F**	1/4"
43872 0	**1280G**	9/32"
43874 4	**1280H**	5/16"
43876 8	**1280-I**	11/32"
43878 2	**1280J**	3/8"
43880 5	**1280K**	13/32"
43882 9	**1280L**	7/16"
43884 3	**1280M**	1/2"
43886 7	**1280N**	9/16"
43888 1	**1280-O**	5/8"
43890 4	**1280P**	3/4"

1280ST

PROFESSIONAL 10-PIECE GASKET PUNCH SET

- For punching holes in gasket material, leather, rubber, canvas, cardboard, plastic and sheet metal
- Nine interchangeable hardened and tempered alloy steel punches: 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4", 7/8" and 1"
- Heavy-duty, spring-loaded, self-centering steel mandrel
- Both mandrel and punches are knurled and have a threaded coupling to prevent slippage and hold punch securely to mandrel

- Fitted plastic storage case

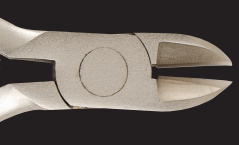| UPC	NO.	DESCRIPTION
43751 8	**S1274**	10 pc. set

S1274

GASKET PUNCH SET

- Compact and economical set for punching holes in soft materials and leather
- Set of 10 punches, one each of 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4", 7/8" and 1", with driving mandrel comes in a molded plastic storage case
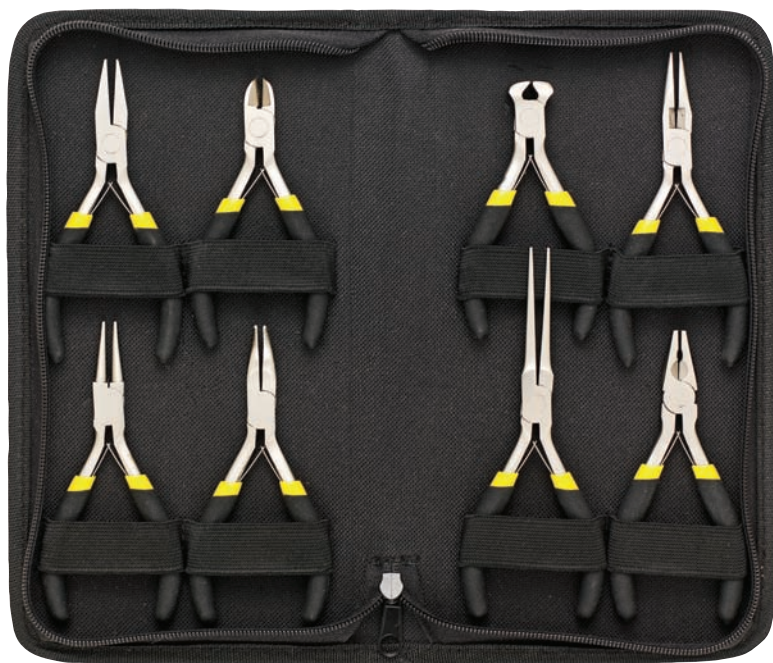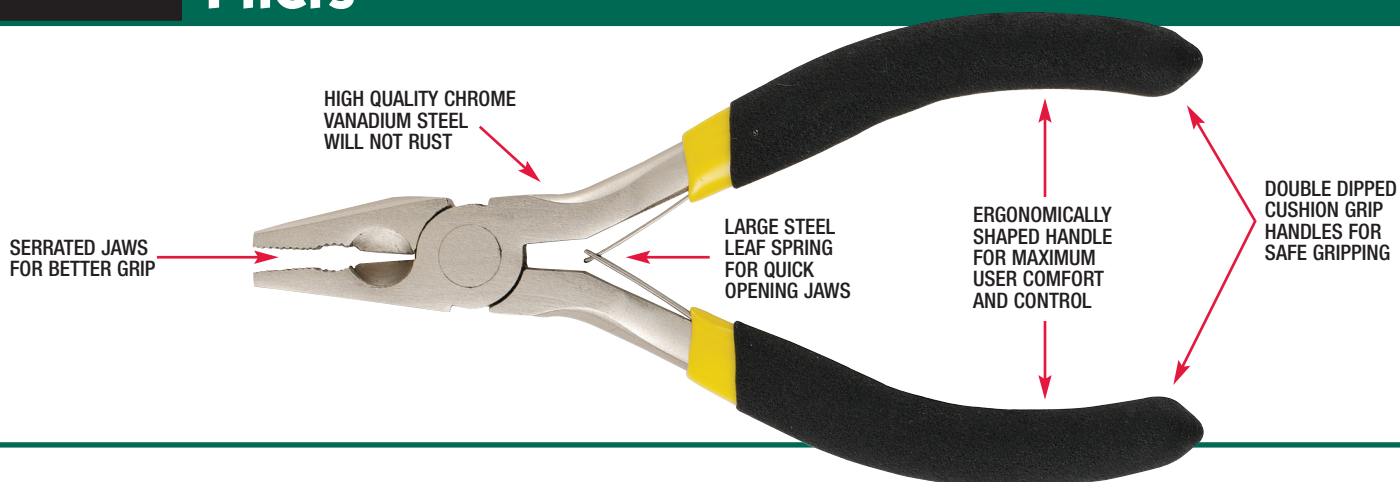
UPC	NO.
43759 4	**S1270**

S1270

SPECIALTY

HIGH QUALITY CHROME VANADIUM STEEL WILL NOT RUST

SERRATED JAWS FOR BETTER GRIP

LARGE STEEL LEAF SPRING FOR QUICK OPENING JAWS

ERGONOMICALLY SHAPED HANDLE FOR MAXIMUM USER COMFORT AND CONTROL

DOUBLE DIPPED CUSHION GRIP HANDLES FOR SAFE GRIPPING

8-PIECE TECHNICIAN'S MINI-PLIER SET
- A compact set designed for Electricians, Technicians, Hobbyists and Do-it-Yourselfers
- High quality Chrome Vanadium Steel will not rust
- Serrated jaws for better grip
- Large Steel Leaf Spring for quick opening jaws
- Fully-polished head
- Double dipped cushion grip handles for safe gripping
- Durable Vinyl Case for the easy and safe storage of these precision pliers
- Consists of eight of the most popular sizes of mini-pliers
  - No. 901 - Chain Nose Serrated Jaw Pliers. OAL - 5"
  - No. 902 - Round Nose Pliers. OAL - 4-3/4"
  - No. 903 - Smooth Jaw Pliers. OAL - 4-7/8"
  - No. 904 - Curved Chain Nose Pliers. OAL - 4-3/4"
  - No. 905 - Long Needle Nose Pliers. OAL - 6".
  - No. 906 - Diagonal Head/Oval Cutter. OAL - 4-1/4"
  - No. 907 - End Cutter. OAL - 4-1/8"
  - No. 908 - "Mini" Linemans Pliers. OAL - 4-1/2"
- No. 938 - 8 piece "Mini" Plier Set
- No. 934 - 4 piece "Mini" Plier Set; Nos. 905, 906, 907, 908

UPC	NO.	PKG.
00938 8	**938**	8 Piece - Vinyl Case/Boxed
00934 0	**934**	4 Piece - Vinyl Case/Boxed

CHAIN NOSE, SERRATED JAW PLIERS
- For cutting, shaping, bending and gripping light materials and wire
- Side cutter will handle most cutting requirements
- OAL jaw length - 1-3/16" (30mm)
- OAL length - 5" (127mm)

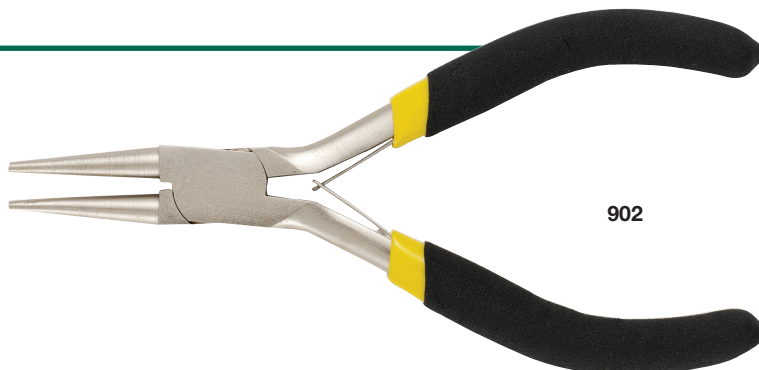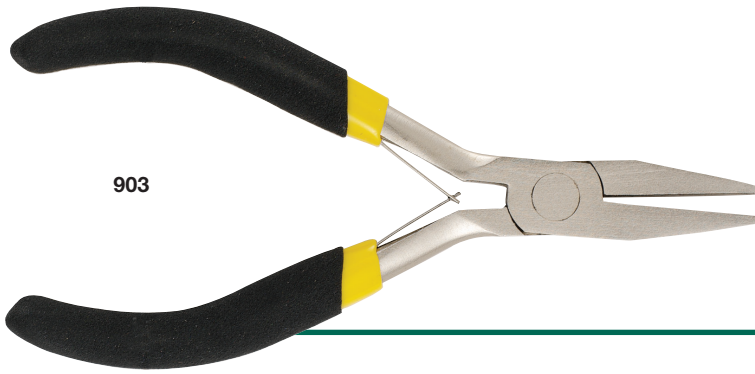| UPC	NO.	PKG.
41059 7	**901**	Bulk (Open Stock)
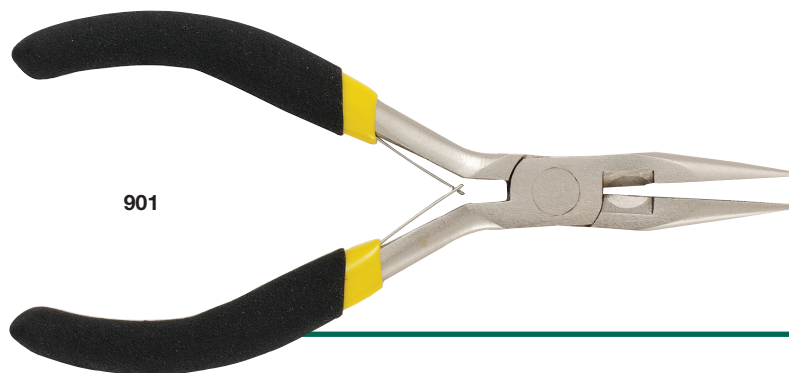
901

ROUND NOSE PLIERS
- The perfect jewelers pliers for making loops and jump rings
- OAL jaw length - 1-1/16" (27mm)
- OAL length - 4-3/4" (120mm)

UPC	NO.	PKG.
41061 0	**902**	Bulk (Open Stock)

902

SPECIALTY

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

903

FLAT NOSE, SMOOTH JAW PLIERS
- For bending wire, jewelry making and retrieving objects from tight areas
- OAL jaw length - 1-1/16" (27mm)
- OAL length - 4-7/8" (124mm)

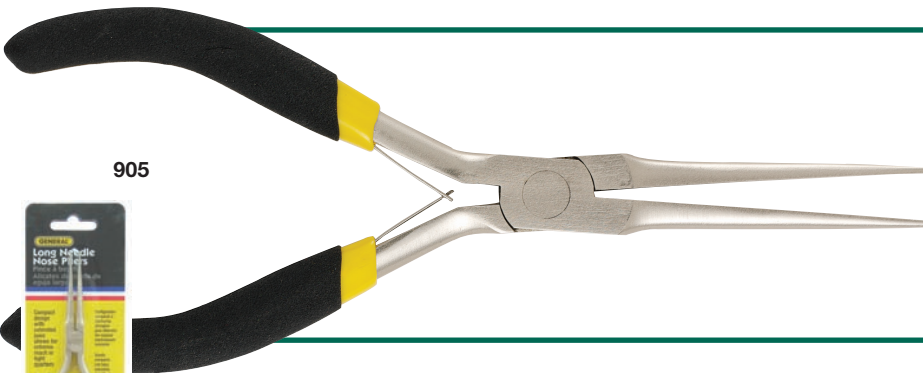| UPC	NO.	PKG.
41064 1	**903**	Bulk (Open Stock)

CURVED CHAIN NOSE PLIERS
- Used for odd angle access, retrieving and positioning with non-serrated jaws
- OAL jaw length - 1-1/8" (29mm)
- OAL length - 4-3/4" (120mm)

UPC	NO.	PKG.
41066 5	**904**	Bulk (Open Stock)
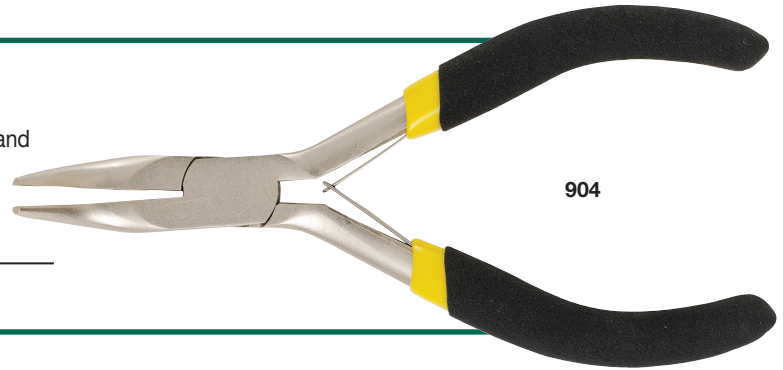
904

905

LONG NEEDLE NOSE PLIERS
- Used for extreme far reaching access, positioning and retreiving
- OAL jaw length - 2-1/8" (54mm)
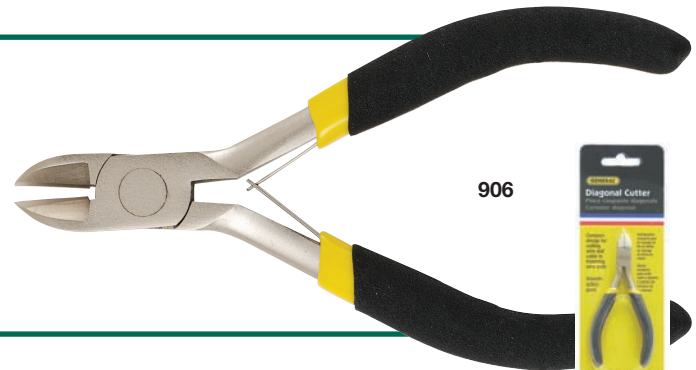- OAL length - 6" (152mm)

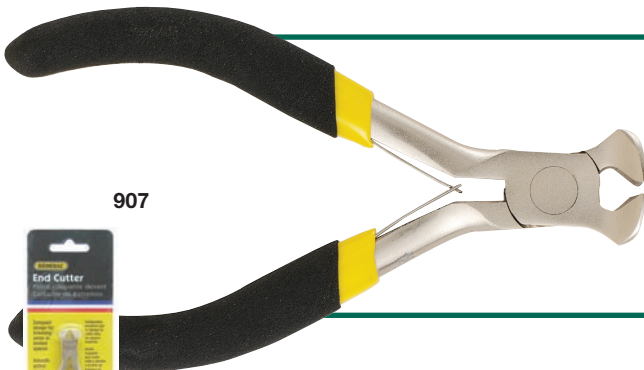| UPC	NO.	PKG.
41067 2	**905**	Bulk (Open Stock)

OVAL HEAD DIAGONAL CUTTER
- For cutting soft wire and other light materials. For an accurate cut in tight areas
- OAL jaw length - 1/2" (13mm)
- OAL length - 4-1/4" (108mm)

UPC	NO.	PKG.
41069 2	**906**	Bulk (Open Stock)

906

907

END CUTTER
- For accurate flush surface cutting of light materials and wire
- OAL jaw length - 9/32" (7mm)
- OAL length - 4-1/8" (105mm)

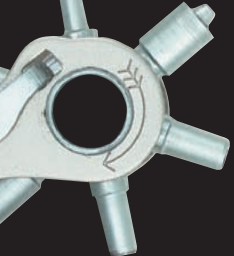| UPC	NO.	PKG.
00907 4	**907**	Bulk (Open Stock)

"MINI" LINEMAN'S PLIERS
- For securing a positive grip on flat objects to form a bend
- Serrated jaws for better grip
- Side cutter will handle most cutting requirements
- OAL jaw length - 7/8" (22mm)
- OAL length - 4-1/2" (114mm)

UPC	NO.	PKG.
00908 1	**908**	Bulk (Open Stock)

908

"It's Your Job . . . General Tools Make It Easier"
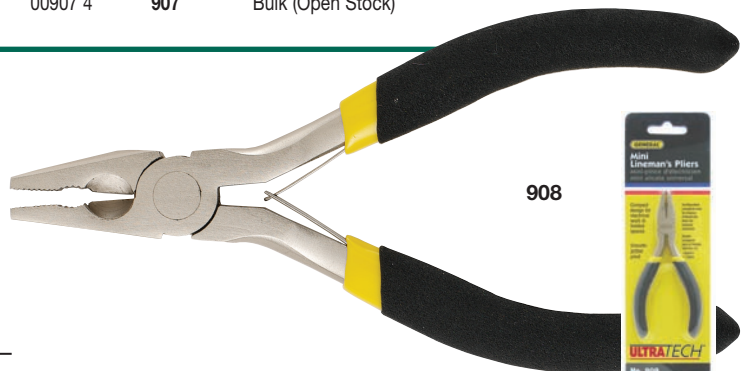
GENERAL®

General's Revolving Punch Plier is a convenient spring tension, self-opening tool for punching round holes in leather, plastic, rubber, canvas cardboard and similar materials.

The Dial Wire Stripper can be set to a desired size for individual or repetitive stripping without damaging the wire.

72

REVOLVING PUNCH PLIER
- A convenient spring tension, self-opening tool for punching round holes in leather, plastic, rubber, canvas, cardboard and similar materials
- Made of plated steel with six tapered and hollow, hardened steel punches
- Punch sizes: 5/64", 3/32", 7/64", 1/8", 5/32", 3/16" (2.0, 2.5, 3.0, 3.5, 4.0, 4.5mm)

UPC	NO.	LENGTH
41039 9	72	8-1/4" (210mm)

69

DIAL WIRE STRIPPER
- Dial the wire size desired for individual or repetitive stripping without damaging wire
- Spring opening for fast and easy cutting or stripping
- Dial lock closes stripper to protect hardened cutting edges
- Vinyl cushion handles

UPC	NO.	WIRE GAGE CAPACITY
41036 8	69	12, 14, 16, 18, 20, 22, 24, 26

64

COTTER PIN PULLER
- General's compound bend design allows user to extract cotter pins with either a pull or twist motion. Ideal for use in confined work areas
- Plated shaft and point are 4" (101mm) in length and made of long lasting heat treated high carbon steel
- A safe and easy way to remove cotter pins
- Heavy-duty plastic handle with a comfortable grip

UPC	NO.	SPECIFICATIONS
41030 6	64	Length: 7-1/2" (190mm)

The compound bend design allows extraction with either a pull or twist motion.

478

TRIANGULAR SCRAPER
- Useful tool for scraping, trimming, and deburring metals, tubing and other materials
- Hardened and tempered triple edge blade is secured in wood handle with steel ferrule
- Hollow ground cutting edges stay sharp longer and resharpen easily

UPC	NO.
42321 4	478

SPECIALTY
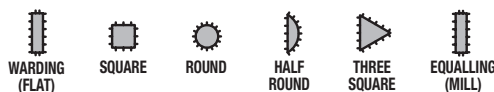
S476

SIX-PIECE SWISS PATTERN NEEDLE FILE SET
- Designed to meet the exacting requirements of tool and die makers, instrument makers, jewelers, watchmakers and other craftspeople
- Precision made of finest quality tool steel
- Packed in snap button plastic case
- #2 single style cut

UPC	NO.	LENGTH	FILES IN SET
42318 4	S476	5-1/2"	6

FILE END VIEWS

WARDING (FLAT) SQUARE ROUND HALF ROUND THREE SQUARE EQUALLING (MILL)

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

GENERAL®

General Tool's Swiss Pattern Needle File Sets are designed to meet the exacting requirements of tool and die makers, instrument makers, jewelers, watchmakers, hobbyists and other craftspeople.

Precision made of the finest quality tool steel. The 5-1/2" long knurled aluminum handle provides maximum filing control and comfort and will fit all styles of General's Swiss Pattern Files.

FOUR-PIECE SWISS PATTERN NEEDLE FILE SET WITH HANDLE

- Set includes three of the most commonly used file shapes: flat, round and triangular. All are high-quality tool steel and measure 5-1/2" (138mm) long
- A 5-1/2" (138mm) long knurled aluminum handle provides maximum filing control and comfort

- 8-1/2" (213mm) overall size
- #2 single style cut
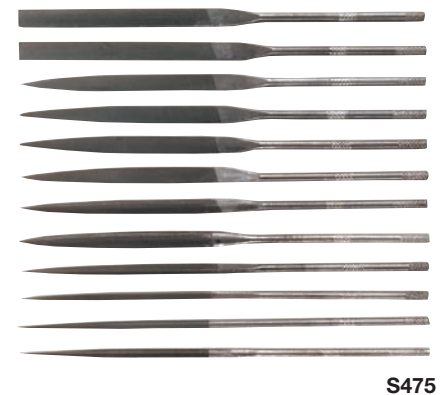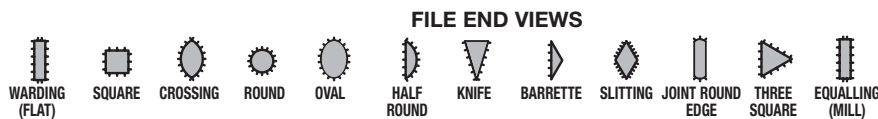- General Purpose file set for hobbyists and craftsmen

UPC	NO.	
42319 1	S477	3 files and handle
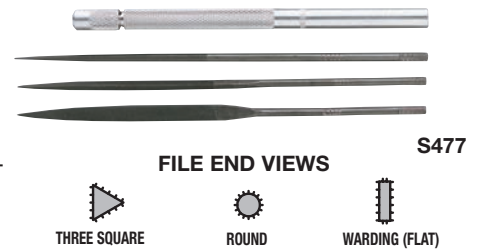
S477

FILE END VIEWS

THREE SQUARE · ROUND · WARDING (FLAT)

SWISS PATTERN NEEDLE FILE SET

- A complete set of General Purpose files to meet the needs of craftsman, hobbyists and jewelers
- Files are made of high quality tool steel
- Set includes 12 different files including the three most commonly used file shapes: flat, round and triangular. All measure 5-1/2" (138mm) long

- Packed in snap button plastic case
- #2 single style cut

UPC	NO.	LENGTH	FILES IN SET
42315 3	S475	5-1/2"	12

FILE END VIEWS

WARDING (FLAT) · SQUARE · CROSSING · ROUND · OVAL · HALF ROUND · KNIFE · BARRETTE · SLITTING · JOINT ROUND EDGE · THREE SQUARE · EQUALLING (MILL)

S475

6-PIECE SWISS PATTERN NEEDLE FILE SET

- A basic set of General Purpose Files to meet the needs of craftspeople, tool and die makers, hobbyists and jewelers
- Set includes 6 different files. All measure 5-1/2" (138mm) long with 1/8" (3mm) diameter shanks
- Files are constructed of high quality Chromium Alloy Steel
- All files are 2-1/2" (63mm) long, #2 Single Cut Swiss Pattern
- Knurled handle file can be used without handle assembly
- Precision locking screw chuck holds files securely in place
- Precision engineered 700 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
70746 8	**707476**	Holster/Carded

FILE END VIEWS

THREE SQUARE · EQUALLING (MILL) · ROUND · SQUARE · WARDING (FLAT) · HALF ROUND
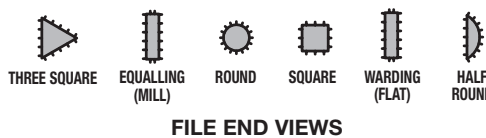
707476

ADJUSTABLE FILE/TOOL HANDLE

- For holding files, reamers, hacksaw blades and other tang handled tools
- Exclusive steel parallel clamping jaws grip the entire length of the inserted tang to prevent slipping
- Large, quick adjusting knurled knob ensures positive locking
- Rustproof handle with steel parts

- Conforms to government specifications NN-H-0085

UPC	NO.
43666 5	**890**

1-1/16" (27mm)

4-1/8" (105mm)

890

"It's Your Job . . . General Tools Make It Easier" **T-111**

File & Probe Sets

GENERAL®

General Tool's Swiss Pattern Needle File Sets are designed to meet the exacting requirements of tool and die makers, instrument makers, jewelers, watchmakers, hobbyists and other craftspeople. Precision made of the finest quality tool steel. Knurled handle file can be used without handle assembly. Precision locking screw chuck holds files securely in place. General's Probe, Positioning and Spring Hooks are useful in a wide variety of mechanical and electrical functions. Ideal for probing, cleaning, picking or marking small work surfaces.

12-PIECE SWISS PATTERN NEEDLE FILE SET

- A complete set of General Purpose Files to meet the needs of craftspeople, tool and die makers, hobbyists and jewelers
- Set includes 12 different files. All measure 5-1/2" (138mm) long with 1/8" (3mm) diameter shanks
- Files are constructed of high quality Chromium Alloy Steel
- All files are 2-1/2" (63mm) long, #2 Single Cut Swiss Pattern
- Knurled handle file can be used without handle assembly
- Precision locking screw chuck holds files securely in place
- Precision engineered 700 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
70745 1	**707475**	Zippered Case/ Carded

707475

FILE END VIEWS

WARDING (FLAT)   SQUARE   CROSSING   ROUND   OVAL   HALF ROUND   EQUALLING (MILL)   KNIFE   BARRETTE   SLITTING   JOINT ROUND EDGE   THREE SQUARE

4-PIECE INTERCHANGEABLE STAINLESS STEEL PROBE SET

707862

- For probing, cleaning, picking, or marking small work surfaces
- Set Includes: • 4 heat treated stainless steel point configurations: • Straight • 180° Hook • 35° Bend • 90° Bend
- Precision locking screw chuck holds blades securely in place
- Each blade is 5" long (127mm); OAL 8-1/2" (216mm) with handle
- Precision engineered 700 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
70786 4	**707862**	Holster/Carded

4-PIECE PRECISION BLADE PROBE SET - FIXED BLADE

- For probing, cleaning, picking or marking small work surfaces
- Set includes the most popular mini-tool configurations: • Straight • 180° Hook • 35° Bend • 90° Bend
- Each blade is 2-5/8" (67mm) with an overall length of 6" (152mm)
- Blades constructed of heat treated 8650 Alloy steel (nickel-chromium-molybdenum)
- Precision engineered 600 Series Versa-Grip™ handle for maximum performance

60004

UPC	NO.	PKG.
60004 2	**60004**	Carded

Set contains:

NO.	TYPE	SIZE	BLADE LENGTH
610001B	Probe	Straight Probe	2-5/8"(67mm)
610002B	Probe	35° Bent Probe	2-5/8"(67mm)
610003B	Probe	90° Bent Probe	2-5/8"(67mm)
610004B	Probe	180° Hook Probe	2-5/8"(67mm)

SPECIALTY

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

GENERAL®

3-PIECE PROBE AND HOOK SET
- For probing, cleaning, picking or marking small work surfaces
- Three heat treated, high carbon steel point configurations: 45 degree, double bend and hook bend
- Extra long aluminum knurled body
- Hex head prevents rolling

UPC	NO.	OVERALL LENGTH
24500 7	**862**	6-1/2" (165mm)

862

4-PIECE MICRO PROBE SET
- For probing, cleaning, picking or marking small work surfaces
- Four heat treated, high carbon steel point configurations: 45 degree, two double bends and hook bend
- Extra long aluminum knurled body
- Packaged in a reuseable plastic tube

UPC	NO.	OVERALL LENGTH
24501 4	**868**	5-1/2" (138mm)

868

12-PIECE STAINLESS STEEL PROBE, POSITIONING & SPRING HOOK SET
- Useful in a wide variety of mechanical and electrical functions
- For separating and positioning wires, inserting and adjusting wires and springs in hard-to-reach areas
- For probing, cleaning, picking or marking small work surfaces
- Heavy-duty locking screw chuck holds blades securely in place
- Each blade is 5" long (127mm); OAL 7-1/2" - 8-1/2" (184mm - 216mm) with handle
- Set Contains: • Twist Chuck Multi-Purpose Handle • 5" Extension blade • Straight • 35º Bend • 90º Bend • 180º Loop, Double Bend • 180º Hook Probes • Offset Pull Hook • 135° Pull Hook • Pull/Push Hook • Adjusting Pull/Push Hook • Placement Guide/Lifter
- Packaged in a fitted zippered case for convenient and safe storage
- Precision engineered 700 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
70962 2	**707865**	Zippered Case/Carded

707865

5-PIECE STAINLESS STEEL POSITIONING AND SPRING HOOK SET
- Useful in a wide variety of mechanical and electrical functions
- For separating and positioning wires, inserting and adjusting wires and springs in hard-to-reach areas
- Heavy-duty locking screw chuck holds blades securely in place
- Each blade is approximately 5" long (127mm); OAL 7-1/2" - 8-1/2" (184mm - 216mm) with handle
- Set Contains: • Twist Chuck Multi-Purpose Handle • Offset Pull Hook • 135° Pull Hook • Pull/Push Hook • Adjusting Pull/Push Hook • Placement Guide/Lifter
- Holster included for convenient storage
- Precision engineered 700 Series Versa-Grip™ handle for maximum performance

| UPC	NO.	PKG.
75970 2	**707863**	Holster/Boxed

707863

PRECISION OILER
- For the exact placement of oil or any other lubricant
- For technicians, contractors, hobbyists and DIY'ers
- Smooth actuator allows for greater control and placement of lubricant
- Generous reservoir
- Protective screw-on cover prevents leakage
- All aluminum construction
- Convenient pocket clip
- For use with lubricants only

UPC	NO.	OVERALL LENGTH
58900 2	**589**	5-5/8" (143mm)
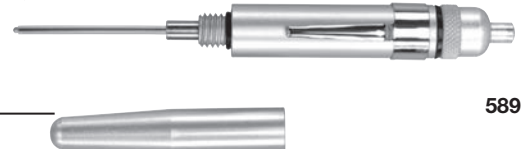
589

MAGNETIC TORPEDO LEVEL
- Quality crafted torpedo level with large reversible reading vials meets the accuracy requirements of professionals
- Heat resistant, unbreakable endplates and internal aluminum frame
- Readings possible from top, bottom or side positions
- Magnetic working edge for use with metal surfaces
- V-grooved working edge for use on pipes

UPC	NO.	LENGTH
42698 7	**839**	9"

839

"It's Your Job . . . General Tools Make It Easier" **T-113**

GENERAL®

General's 3-IN-1 LED and LCD Stud, Voltage and Metal Detectors are ideal for locating studs, pipes, wire carrying voltage and hidden metal. Micro-processor control circuits make it easy to distinguish between battens/studs, metal pipes/tube or objects carrying voltage. An ideal for the DIY home owner, handyman, hobbyist as well a the professional.

81001

ZIP-TOP TOOL AND METER BAG, 16" WIDE

- Moisture-resistant reinforced bottom
- Steel frame mouth and rivet reinforced for rugged use and durability
- Adjustable padded non-slip shoulder strap
- Dimensions: 12"H x 16"W x 8"D
  (305 x 406 x 203mm)

UPC	NO.
01319 9	**81001**

ULTRA*TUFF*™ TOOL BAGS

3-IN-1 LED STUD / VOLTAGE / METAL DETECTOR
Ideal for Locating Studs, Pipes, Wires Carrying Voltage and Hidden Metal

FEATURES:
- Stud, Voltage and Metal Detection combined in one unit
- 4-level low power consuming LED's indicate precise stud detection
- Metal/Voltage Selector Switch provides accuracy in detecting hidden metal or wiring
- Stud Detector can be operated with Metal or Voltage Detector simultaneously
- Easy to distinguish between battens/studs, metal pipes/tubes or objects carrying voltage
- No probe necessary

SPECIFICATIONS:
- ♦ Dimensions:
  6.1"(L) x 2.6" (W) x 1.3"(D)
  (155 x 65 x 32mm)
- ♦ Weight: 6.3oz (178g)
- ♦ Power Source:
  1 "9V" battery
  (not included)

Includes: • User's Manual

UPC	NO.
01276 5	**MSV250**

MSV250

DIGITAL 3-IN-1 LCD STUD / VOLTAGE / METAL DETECTOR
Ideal for Locating Studs, Pipes, Wires Carrying Voltage and Hidden Metal

FEATURES:
- Selectable Metal, Voltage and Stud detections or Auto Mode to perform 3 functions simultaneously
- Micro-Processor Control Circuits provide precise and accurate detections
- Results shown on LCD with buzzer
- Multi-Scan-Level to pinpoint exact position
- Battery status indicated on LCD
- Auto Power OFF
- Low power consumption
- Ideal for the D. I.Y. Homeowner, Handyman, Hobbyist and Professional

SPECIFICATIONS:
- ♦ Dimensions:
  6.1"(L) x 2.6" (W) x 1.3"(D)
  (155 x 65 x 32mm)
- ♦ Weight: 6.5oz (185g)
- ♦ Power Source:
  1 "9V" battery
  (not included)

Includes: • User's Manual

UPC	NO.
01275 8	**MSV350D**

MSV350D

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

SPECIALTY

RESCUE+ONE™
Auto Emergency Tool
+FLASHLIGHT

• Shatters automotive side windows for emergency escapes
• High-visibility red flashing emergency light
• Magnets hold the tool to the vehicle
• Bright white LED flashlight helps you see at night
• Safety blade cuts seat belts
• Includes 3 "AAA" batteries in a convenient battery compartment

UPC	NO.	PKG.
79020 0	**7902**	Carded

LED Flashlight

Seat Belt Cutter

GENERAL®

RESCUE+ONE 1

Glass Breaker

Flashing Hazard Light

Easy Battery Access

No. 666CD

No. 580CD

No. 744CD

T6 Cell Phone Screwdriver

Display Item No.	Qty Per Display	Individual Item No.
No. 666CD	18	No. 666

- Use on cellular phones: For repairs, battery changes or phone cover (faceplate) changes
- Rotating cap; recess fits fingertip
- Removable cap to store small screws

UltraTech Clip-On LED Light

Display Item No.	Qty Per Display	Individual Item No.
No. 580CD	18	No. 580

- Great for lighting obstructed work areas
- Clips onto almost anything
- Alligator clip with non-slip grip: rubber padding inside teeth

4-IN-1 Pocket Mini Screwdriver

Display Item No.	Qty Per Display	Individual Item No.
No. 744CD	20	No. 744

- For Mechanics, Technicians, Hobbyists, and Do-It-Yourselfers
- Great for tight, close up work
- Removable, individual blades
- Includes: Phillips #1, #00 and Slotted tip 1/16" and 1/8"

Maximize Impulse Sales & Profits

- Displays are eye-catching & compact
- Impulse items are great for high-traffic areas like checkout counters and end-cap shelving
- Order products **Individually** or in the **Display Box**
- When you order the display box, it comes:
  - **FREE!**
  - Pre-filled with product at regular price
  - Ready to assemble . . . A few simple folds and it is ready to go!

Precision Knife Set

Display Item No.	Qty Per Display	Individual Item No.
No. 1914CD	24	No. 1914

- For precision cutting, carving & trimming
- Rust-proof, aluminum handle is compatible with standard No.11 blades
- Carrying case with 6 standard blade sizes

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

GENERAL®

No. 602CD

No. 609CD

No. 601CD

Precision Micro Screwdriver Set – 2pc		
Display Item No.	Qt. Per Display	Individual Item No.
No. 602CD	18	No. 602

- Ideal for close, delicate work
- Durable and rust-resistant
- Includes: Phillips #0 and Slotted tip 3/32"

Precision Screwdriver Set - 6pc		
Display Item No.	Qty Per Display	Individual Item No.
No. 609CD	9	No. 609

- For repairing jewelry, cameras, eyeglasses and instruments
- Fingertip swivel head for greater control
- Convenient stand-up case
- Includes: Phillips #1, #0 and Slotted tip 1/8", 3/32", 6/64", 1/16"

Eyeglass Repair Kit		
Display Item No.	Qty Per Display	Individual Item No.
No. 601CD	50	No. 601

- Travel-size with plastic carry case
- Great for emergencies
- Includes: screwdriver, tweezers, screws, nose pads and rubber rings for tightening side arm/frame

MEASURE'N MARK Pen/Tape		
Display Item No.	Qty Per Display	Individual Item No.
No. 309CD	15	No. 309

- 3' (914mm) removable tape measure
- Pen with comfort grip
- Convenient pocket clip
- Available only as a 15 piece counter display

No. 1914CD

No. 309CD

Great For High-Traffic Areas Like Check Out Counters   **T-117**

No. 744DB

No. 735DB

No. 741DB

4-IN-1 Pocket Mini Screwdriver

Display Item No.	Qt. Per Display	Individual Item No.
No. 744DB	**24**	**No. 744**

- For Mechanics, Technicians, Hobbyists, and Do-It-Yourselfers
- Great for tight, close up work
- Removable, individual blades
- Includes: Phillips #1, #00 and Slotted tip 1/16" and 1/8"

Multi-Blade Precision Screwdriver

Display Item No.	Qty Per Display	Individual Item No.
No. 735DB	**12**	**No. 735**

- 5 blade storage in handle
- Cushion grip
- Set includes: 5 Interchangeable blades; Slotted - 1/16", 5/64", 3/32; Phillips - #00; Torx - T6

Precision 4-IN-1 Screwdriver

Display Item No.	Qty Per Display	Individual Item No.
No. 741DB	**12**	**No. 741**

- High-quality precision screwdriver for mechanics, technicians, hobbyists and do-it-yourselfers
- Change blade sizes instantly
- Includes 2 double ended blades: Phillips - #0, #000; Slotted - 5/64", 1/8"

NEW!

No. 745DB

4-IN-1 Pocket Screwdriver

Display Item No.	Qty Per Display	Individual Item No.
No. 745DB	**24**	**No. 745**

- This screwdriver is ideal for technicians, hobbyists and do-it-yourselfers
- 2 double-ended chrome vanadium blades
- 1/8" and 5/32" Slotted tip and #0 & #1 cross-point tip
- Blades are held in carrier handle
- Change blade sizes instantly
- Convenient pocket clip and capped ends
- Length is 5-1/4" (133mm)

THE QUAD™

No. 86014

The Quad Saw/Driver

Qt. Per Display	Individual Item No.
6	No. 86014

- 4-IN-1 cutting system
- Keyhole saw, jab saw, power driver and speed driver
- Set includes:
  3 - reciprocating saw blades; drywall, metal/pvc and wood
  7 - insert bits: Slotted - 3/16", 1/4"
  Phillips - #1, #2 Torx - T15, T20
  Recess Bit - #1

Magnetic Pick-Up Stick™

Qt. Per Display	Individual Item No.
9	No. 397

- Powerful magnet for a no-stoop pick-up
- Vinyl covered magnet for long life and durability
- Retrieves iron, steel and all ferrous materials
- 37 inch steel shaft for greater strength and durability

GENERAL® **MAGNETIC Pick-Up Stick™**
An Ideal Tool for Retrieving IRON, STEEL and all FERROUS MATERIALS

No. D397

Hawk Ratchet Action Pipe Wrench

Display Item No.	Qt. Per Display	Individual Item No.
No. HWD	8	No. 1471, 1472

- One-handed operation
- Self-adjusting, ratchet operation
- Patented 3-point jaw grip
- Includes display, header, 4 - 10" wrenches and 4 - 14" wrenches

HAWK™

No. HWD

RESCUE+ONE™

Auto Emergency Escape Tool/Flashlight

Qt. Per Display	Individual Item No.
6	No. 7902

- Essential safety tool for the car
- Features flashing hazard light, glass breaker, seat belt cutter and LED flashlight.
- Includes 3 "AAA" batteries

No. 7902

Maximize Sales with Our
FREE DEMO-BOARD DISPLAYS

Buy 10 of 1 Item and Receive a 15% Discount and a FREE Woodworking Demo-Board Display!*

E•Z™ Dowel Kit

No. 841SP Kit Includes

841	EZ Dowel Kit (Qty 10)
841-DB	EZ Dowel Kit Demo-Board (Qty 1)

Dowels add mechanical strength to butt joints and can help keep miters lined up during clamping. They also create invisible connections when appearance matters.

E•Z™ Jointer Clamp Kit

No. 846SP Kit Includes

846	EZ Jointer Clamp Kit (Qty 10)
846-DB	EZ Jointer Clamp Demo-Board (Qty 1)

Joiner clamps make it quick and safe to straight line rip crooked edge boards on a table saw.

E•Z™ Pocket Hole Jig Kit

No. 849SP Kit Includes

849	EZ Pocket Hole Jig Kit (Qty 10)
849-DB	EZ Pocket Hole Jig Demo-Board (Qty 1)

Pocket hole joints are as sturdy as they are easy to make. Perfect for cabinet construction and framing.

*Limited time offer while supplies last. Demo-board displays are also available for purchase seperately, call for details.

"It's your Job . . . General Tools Make It Easier"

GENERAL®

DCS400
DCS495

DCS200

DCS200 Display: 2.4 in. (70mm)

DCS300

FEATURES   SPECIFICATIONS

THE SEEKER™ 400 SERIES WIRELESS VIDEO INSPECTION SYSTEMS

Use for Plumbing, Construction and Restoration, Automotive inspection, and any other inspection of hard-to-reach and hard-to-see areas.

- 3.5" (88.9mm) TFT-LCD Wireless Color Monitor, can be detached from the unit for remote viewing up to 32.8 ft. (10m) away
- 3.28 ft. (1m) Flexible Waterproof (IP67) Obedient Probe retains configured shape Standard Length: 3.28 ft. (1m) Optional Length: up to 18 ft. (5.5m)
- Records up to 3 hours continuously
- NTSC or PAL compatible

♦ Warranty: 1 year
♦ Power Source: 4 "AA" batteries (included)
Includes: • 36" probe • Mirror • Magnet • Pick-up hook • Case

CAMERA
♦ Transmission Range: 32.8 ft. (10m) clear field
♦ Transmission Frequency: 2468MHz
♦ Resolution: 712 x 486 Pixels (NTSC)/704 x 576 Pixels (PAL)
♦ Field of Depth (DOF): 5.9" to 9.8" (150mm to 250mm)
♦ Field of View: 50°
♦ Camera-tipped Probe diameter: 0.67" (17mm) (DCS400); (9.5mm DCS495)
♦ Probe Length: Standard: 3.28 ft. (1m) Optional: up to 18ft (5.5m)
♦ Dimensions: 7.3" x 5.7" x 1.6" (186 x 145 x 41mm)

MONITOR
♦ Video/Image Resolution: 960 x 240 Pixels (AVI format)/ 640 x 480 Pixels (JPEG format)
♦ Dimensions: 3.9 x 2.7 x 1 in. (100 x 70 x 25mm)
♦ Weight: 4.9 oz. (140g)

UPC	NO.
01371 7	**DCS400** (with 17mm probe)
01400 4	**DCS495** (with 9.5mm probe)

THE SEEKER™ 200 & 300 VIDEO INSPECTION SYSTEMS

Ideal for use in: Automotive, Electrical, Plumbing, HVAC/R, MRO Maintenance.

- 2.4" (70mm) Color LCD Screen for crystal clear image
- 0.47" (12mm) diameter Camera-tipped Probe is flexible and strong with built-in adjustable LED lighting, and is slim enough to perform automotive engine check-up
- Flexible Probe retains configured shape to suit different inspection needs
- Mirror, Magnet and Pick-up Hook

UPC	NO.
01372 4	**DCS200**
01373 1	**DCS300**

♦ Display: 2.4" (70mm) Color LCD Screen
♦ Resolution: 320 × 234 Pixels
♦ Probe Length: Standard: 3.28 ft. (1m) Optional: up to 32.8 ft. (10m)
♦ Depth of Field (DOF): .98" to 11.8" (25mm to 300mm)
♦ Field of View: 60°
♦ Light Source: two adjustable LED's
♦ Power Source: 1 "9V" battery (included)
Includes:
- 3.28 ft. (1m) Flexible Probe (P230-1)
- Extension Tools: (Mirror, Magnet, Pick-Up Hook)
- Blow Mold Case
- Instruction Manual

DCS300 Display: 3.5 in. (88.9mm)

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

FEATURES **SPECIFICATIONS**

THE SEEKER™ THERMO-HYGROMETER PEN

Ideal for contractors and homeowners to measure temperature and humidity conditions.

- °F/°C Switch
- Check home comfort and ventilation
- Monitor green-house environment
- Rotate the cap to cover and protect sensitive sensor tip
- Fits in your shirt pocket with back clip
- CE and RoHS approved

Includes: • Pocket clip on back
          • Manual

♦ Humidity range: 20 to 100%RH
♦ Temperature range: 32° to 122°F (0° to 50°C)
♦ Temperature accuracy: ±1.8°F (±1°C)
♦ Resolution: Temperature: 0.1 °F/°C Humidity: 0.1%
♦ Humidity accuracy: ±3%
♦ Dimensions: 6.5 x 1.25 x 0.5 in. (165 x 32 x 13mm)
♦ Weight: 1.9 oz. (54g)
♦ Power Source: 1 "CR2032" battery (included)

UPC	NO.
01402 8	**PTH8707**

PTH8707

THE SEEKER™ PERSONAL LIGHTNING DETECTOR

Ideal for Early Storm Warnings and Storm Directions and protection for any outdoor activity.

- Pocket size lightning detector that can be clipped on your belt or hung from your belt loop
- Gives you early warning of pending storms and lightning at various distances from 0 – 40 miles away
- Multiple alarm signals include an audible alarm, a vibration alarm and sequentially illuminating LED's at various distance intervals: 24 – 40 miles, 12 – 24 miles, 6 – 12 miles and 0 – 6 miles
- Will inform you if the danger is approaching, stationary or departing

♦ Ranges: within 6 miles; 6 to 12 miles; 12 to 24 miles; 24 to 40 miles
♦ Dimensions: 3.31 x 2.17 x 0.96 in. (84 x 55 x 24mm)
♦ Weight: 2.6 oz. (74g)
♦ Power Source: 2 "AAA" batteries (included)

UPC	NO.
01368 7	**LD7**

LD7

THE SEEKER™ COMBUSTIBLE GAS DETECTOR PEN

Ideal for contractors and homeowners to check gas leaks in plumbing and appliances.

- Easy to operate
- High Sensitivity
- Low Power Consumption
- Microprocessor controlled
- Reliable performance
- Audible and visual alarms
- Fast response and resume
- A variety of sounds for different status
- Small zero drift and large range of operating temperature

♦ Range: 0 to 100%LEL
♦ Sampling: Natural diffusion
♦ Operating humidity: <95%RH
♦ Operating voltage: DC3V
♦ Operating current: <150mA
♦ Low alarm: (20±5) %LEL
♦ High alarm: (50±10) %LEL
♦ Response time: <5s
♦ Sound: ≥65dB
♦ Power Source: 2 "AA" batteries (included)
Includes: • Wrist strap
          • User's Manual

UPC	NO.
41501 6	**PNG2000A**

PNG2000A

IRT207

CE RoHS

MMD4E

CE

DAF3010B

FEATURES

SPECIFICATIONS

THE SEEKER™ 8:1 MID-RANGE INFRARED THERMOMETER

Ideal for most applications in HVAC/R, plumbing and heating, electrical, automotive and other industrial jobs.

- Rugged and ergonomic design for general purposes
- Ultra low power consumption in shutdown mode
- Extended long time measuring reliability
- Backlit LCD display
- Switchable On/Off Laser sighting
- °F/°C selectable
- Auto off
- CE, RoHS, WEEE approved

♦ Distance to Spot (DS) ratio: 8:1
♦ Range: -4° to 604°F (-20° to 317°C)
♦ Emissivity: Fixed at 0.95
♦ Resolution: 0.5°F / 0.5°C
♦ Accuracy: ±2%
♦ Operating temperature: 32° to 122°F, 10 to 90%RH
♦ Power Source: 1 "9V" battery (included)

UPC	NO.
01403 5	**IRT207**

THE SEEKER™ DIGITAL MOISTURE METER

Ideal for contractors and homeowners to accurately measure moisture content in wood, concrete, drywall, subflooring and other construction materials.

- Accurately and professionally measure moisture in wood and building materials including brick, concrete, drywall, plaster, wood and lumber
- Strong stainless steel pins
- Audible alarms
- Battery status indication
- Hold button to freeze/hold reading
- Ergonomically designed
- CE approved

♦ Measuring range: Wood: from 5% – 50% Building material: from 1.5% – 33%
♦ Resolution: 0.1%
♦ Accuracy: ±3%
♦ Audible alarm: 8 different tones level
♦ Auto power off: 3 minutes
♦ Power Source: 1 "9V" battery (included)
Includes: • Protective Cover • User's Manual

UPC	NO.
41447 7	**MMD4E**

THE SEEKER™ DIGITAL AIRFLOW METER

Ideal for contractors, auto technicians and homeowners to measure and monitor the airflow efficiency in AC and ventilation systems and for outdoor use.

- Measures current, average, or maximum wind speed
- Wind chill indication
- LCD display with backlight for easy reading
- Selectable air speed units of ft/min, m/s, km/hr, MPH, and Knots for maximum applications
- °F/°C switchable for temperature measurement
- Battery status indication

♦ Operating Environment: Temperature: 32° to 113°F (0 to 45°C) Relative humidity: <80%
♦ Storage Environment: Temperature: 14° to 122°F (-10 to 50°C) Relative humidity : <85%
♦ Dimensions: 5 x 3 x 1 in. (120 x 70 x 26.5mm)
♦ Weight: 2.5 oz. (70g) (including battery)
♦ Power Source: 1 "CR2032" battery or "3V" button cell (included)
♦ Power Source: 1 "9V" battery (not included)

UPC	NO.
40105 7	**DAF3010B**

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

Reference Tables

Alphabetical Index

Numerical Index

Reference Table

GENERAL®

INCH/METRIC DRILL-TAP-WIRE EQUIVALENTS TABLE

Inches	Metric (mm)	Twist Drill	B&S Wire	U.S. Plate	Tap Drill	Clearance Hole
.0003936	.0100					
.001	.0254					
.002	.0508					
.003	.0762					
.003145	.0799		40			
.003531	.0897		39			
.003965	.1007		38			
.004	.1016					
.004453	.1131		37			
.005	.1270		36			
.005614	.1426		35			
.0059	.1499	#97				
.006	.1524					
.00625	.1587			38		
.0063	.1600	#96				
.006304	.1601		34			
.0066406	.1687			37		
.0067	.1702	#95				
.007	.1720					
.0070312	.1786			36		
.00708	.1798		33			
.0071	.1803	#94				
.0075	.1905	#93				
.0078125	.1948	1/128		35		
.0078740	.2000	.20mm				
.0079	.2007	#92				
.00795	.2019		32			
.008	.2032					
.0083	.2108	#91				
.0085937	.2183			34		
.0097	.2210	#90				
.008928	.2261		31			
.009	.2286					
.0091	.2231	#89				
.009375	.2381			33		
.0095	.2413	#88				
.0098425	.2500	.25mm				
.01	.2540	#87				
.01003	.2548		30			
.0101562	.2580			32		
.0105	.2667	#86				
.0109375	.2778			31		
.0111	.2819	#85				
.01126	.2860		29			
.011481	.2916					
.0115	.2921	#84				
.011811	.3000	.30mm				
.012	.3048	#83				
.0125	.3175	#82		30		
.01264	.3210		28			
.013	.3302	#81				
.0135	.3429	#80				
.0137795	.3500	.35mm				
.0140625	.3572			29		
.01419	.3604		27			
.0145	.3683	#79				
.015	.3810					
.015625	.3969	1/64		28	0000-160	
.0157480	.4000	.40mm				
.01594	.4049		26			
.016	.4064	#78				
.0171875	.4366			27		
.0177165	.4500	.45mm				
.0179	.4547		25			
.018	.4572	#77				
.01875	.4762			26		
.019685	.5000	.50mm				
.02	.5080	#76				
.0201	.5150		24			
.020833	.5392					
.021	.5334	#75				
.0216535	.5500	.55mm				
.021875	.5556			25		
.0225	.5715	#74				
.02257	.5733		23			
.023	.5842					
.023622	.6000	.60mm				
.024	.6096	#73				0000-160
.025	.6350	#72		24		
.02535	.6439		22			
.0255906	.6500	.65mm				
.026	.6604	#71			000-120	
.0275591	.7000	.70mm				
.028	.7112	#70				
.028125	.7144			23		
.02846	.7229		21			
.029	.7366					
.02925	.7429	#69				
.0295276	.7500	.75mm				
.03	.7620					
.031	.7874	#68				
.03125	.7937	1/32		22		
.0314961	.8000	.80mm				

Inches	Metric (mm)	Twist Drill	B&S Wire	U.S. Plate	Tap Drill	Clearance Hole
.03196	.8118		20			
.032	.8128	#67				
.033	.8382	#66				
.0334646	.8500	.85mm				1.0mm
.034	.8636					
.034375	.8731			21		
.035	.8890	#65			00-90	
.0354331	.9000	.90mm				
.03589	.9116		19			
.036	.9144	#64				
.037	.9398	#63				000-120
.0374016	.9500	.95mm				
.0375	.9525	.0		20		
.038	.9625	#62				
.039	.9906	#61				
.0393701	1.0000	1.00mm				1.2mm
.04	1.0160	#60				
.0403	1.0236		18			
.041	1.0414	#59				
.0413386	1.0500	1.05mm				
.042	1.0668	#58				
.043	1.0922	#57				
.0433971	1.1000	1.10mm				1.0mm
.04375	1.1112			19		
.044	1.1176					
.0444444	1.1289					
.04526	1.1496		17			
.0452756	1.1500	1.15mm				1.4mm
.0465	1.1811	#56				
.046875	1.1906	3/64			0-80	
.0472441	1.2000	1.20mm				
.0492126	1.2500	1.25mm				1.6mm
.049261	1.2512					
.05	1.2700			18		
.05082	1.2908		16			
.0511811	1.3000	1.30mm			1.7mm	1.2mm
.052	1.3208	#55				00-90
.0531469	1.3500	1.35mm				
.055	1.3970	#54				
.0551181	1.4000	1.4mm				
.05625	1.4287			17		
.05707	1.4496		15			
.0570866	1.4500	1.45mm				1.8mm
.0590551	1.5000	1.50mm				1.4mm
.0595	1.5113	#53			1-72	
.06	1.5240					
.0610236	1.5500	1.55mm				
.0625	1.5875	1/16		16		
.0629921	1.6000	1.60mm				2.00
.063	1.6002					
.0635	1.6129	#52				
.06408	1.6276		14			
.0649606	1.6500	1.65mm				
.0669291	1.7000	1.70mm				1.6mm
.067	1.7018	#51				
.068976	1.7518	1.75mm				2.2mm
.07	1.7780	#50			2-56	
.0703125	1.7859			15		
.0708661	1.8000	1.80mm				
.07196	1.8278		13			
.072	1.8288					
.0728346	1.8500	1.85mm				1.8mm
.073	1.8542	#49				
.0748031	1.9000	1.90mm				
.075	1.9050					
.076	1.9304	#48				1-72
.0767717	1.9500	1.95mm				
.078125	1.9844	5/64		14		
.0785	1.9939	#47				
.0787402	2.0000	2.00mm				
.08	2.0320					
.0807087	2.0500	2.05mm			2.5mm	2.0mm
.08081	2.0526		12			
.081	2.0574	#46				
.082	2.0828	#45				
.0826772	2.1000	2.10mm				
.0846457	2.1500	2.15mm				
.086	2.1844	#44				
.0866142	2.2000	2.20mm				
.0885327	2.2500	2.25mm				2.2mm
.089	2.2606	#43			4-40	2-56
.09	2.2860					
.0905512	2.3000	2.30mm				
.09074	2.3048		11			
.0925197	2.3500	2.35mm				
.0935	2.3749	#42				
.09375	2.3812	3/32		13		
.0944882	2.4000	2.40mm				
.095	2.4130					
.096	2.4384	#41				
.0964567	2.4500	2.45mm				
.098	2.4892	#40				
.0984252	2.5000	2.50mm				3.0mm

Inches	Metric (mm)	Twist Drill	B&S Wire	U.S. Plate	Tap Drill	Clearance Hole
.0995	2.5273	#39				
.1	2.5400					
.1003937	2.5500	2.55mm				
.1015	2.5781	#38			5-40	
.1019	2.5883		10			
.1023622	2.6000	2.60mm				2.5mm
.104	2.6416	#37				
.1043397	2.6500	2.65mm				
.1062992	2.7000	2.70mm				
.1065	2.7051	#36				
.1082677	2.7500	2.75mm				
.109375	2.7781	7/64		12		
.11	2.7940	#35			6-32	
.1102362	2.8000	2.80mm				
.111	2.8194	#34				
.112	2.8448					
.1122047	2.8500	2.85mm				
.113	2.8702	#33				
.1141732	2.9000	2.90mm				
.1144	2.9058		9			
.116	2.9464	#32				4-40
.1161417	2.9500	2.95mm				
.1181102	3.0000	3.00mm				
.12	3.0480	#31				
.1279528	3.2500	3.25mm				
.1285	3.2639	#30	8			5-40
.1299213	3.3000	3.30mm				4.0mm
.13	3.3020					
.1318898	3.3500	3.35mm				
.1338583	3.4000	3.40mm				
.1358268	3.4500	3.45mm				
.136	3.4544	#29			8-32	
.1377726	3.4994					
.1377953	3.5000	3.50mm				
.138	3.5052					
.14	3.5560					
.1405	3.5687	#28				6-32
.140625	3.5719	9/64		10		
.1417323	3.6000	3.60mm				
.144	3.6576	#27				
.1443	3.6652		7			
.1456693	3.7000	3.70mm				
.147	3.7338	#26				
.1495	3.7973	#25				
.1496063	3.8000	3.80mm				
.15	3.8100					
.152	3.8608	#24				
.1535433	3.9000	3.90mm				
.154	3.9116	#23				
.15625	3.9687	5/32		9		
.157	3.9878	#22				
.1574803	4.0000	4.00mm				
.159	4.0386	#21				
.16	4.0640					
.161	4.0894	#20			10-32	
.1614173	4.1000	4.10mm				4.0mm
.162	4.1148		6			
.164	4.1656					
.1653543	4.2000	4.20mm				5.0mm
.166	4.2164	#19				
.1692913	4.3000	4.30mm				
.1695	4.3053	#18				8-32
.17	4.3280					
.171875	4.3656	11/64		8		
.173	4.3942	#17				
.1732283	4.4000	4.40mm				
.175	4.4450					
.177	4.4958	#16				
.1771654	4.5000	4.50mm				
.18	4.5720	#15				
.1811024	4.6000	4.60mm				
.1819	4.6203		5			
.182	4.6228	#14				
.185	4.6990	#13				
.1850394	4.7000	4.70mm				
.1875	4.7625	3/16		7		
.1883764	4.8000	4.80mm				
.189	4.8260	#12				
.19	4.8264					
.191	4.8514	#11				
.1929134	4.9000	4.90mm				
.1935	4.9149	#10				10-32
.196	4.9784	#9				
.1968504	5.0000	5.0mm				6.0mm
.199	5.0546	#8				
.200787	5.1000	5.10mm				5.0mm
.201	5.1054	#7				
.203125	5.1606	13/64		6	1/4-20	
.204	5.1816	#6				
.2043	5.1892		4			
.2047244	5.2000	5.20mm				
.2055	5.2197	#5				
.2086614	5.3000	5.30mm				

Inches	Metric (mm)	Twist Drill	B&S Wire	U.S. Plate	Tap Drill	Clearance Hole
.209	5.3086	#4				
.2125984	5.4000	5.40mm				
.213	5.4102	#3				
.2165354	5.5000	5.50mm				
.21875	5.5562	7/32		5		
.2204724	5.6000	5.60mm				
.221	5.6134	#2				
.2244095	5.7000	5.70mm				
.228	5.7912	#1				
.2283465	5.8000	5.80mm				
.2294	5.8268		3			
.2322834	5.9000	5.90mm				
.234	5.9436	A				
.234375	5.9531	15/64		4		
.2362204	6.0000	6.00mm				
.238	6.0452	B				
.2401574	6.1000	6.10mm				6.0mm
.242	6.1468	C				
.246	6.2484	D				
.25	6.3500	1/4-E		3		1/4-20
.2559055	6.5000	6.50mm				
.257	6.5278	F			5/16-18	1/4-20
.2576	6.5430		2			
.261	6.6294	G				
.265625	6.7462	17/64		2		
.266	6.7564	H				
.272	6.9088	I				
.2755906	7.0000	7.00mm				
.277	7.0358	J				
.281	7.1374	K				
.28125	7.1437	9/32		1		
.2893	7.3482		1			
.29	7.3660	L				
.295	7.4930	M				
.2952756	7.5000	7.50mm				
.296875	7.5387	19/64				
.302	7.6708	N				
.3125	7.9375	5/16		0	3/8-16	
.3149606	8.0000	8.00mm				
.316	8.0264	O				5/16-18
.323	8.2042	P				
.3249	8.2525		0			
.328125	8.3347	21/64				
.332	8.4328	Q				
.339	8.6106	R				
.34375	8.7312	11/32		2/0		
.348	8.8392	S				
.3543307	9.0000	9.00mm				
.358	9.0932	T				
.359375	9.1281	23/64				
.3648	9.2659		2/0			
.368	9.3472	U				
.375	9.5250	3/8		3/0		
.377	9.5758	V				
.386	9.8044	W				3/8-16
.390625	9.9219	25/64				
.393701	10.0000	10.0mm				
.397	10.0838	X				
.404	10.2616	Y				
.40625	10.3187	13/32		4/0		
.4096	10.4038		3/0			
.413	10.4902	Z				
.4218745	10.7156	27/64				1/2-13
.433071	11.0000	11.0mm				
.4375	11.1125	7/16		5/0		
.453125	11.5094	29/64				
.46	11.6840		4/0			
.46875	11.9062	15/32		6/0		
.472441	12.0000	12.0mm				
.484375	12.3031	31/64				
.5	12.7000	1/2				
.515625	13.0969	33/64				1/2-13
.53125	13.4937	17/32				
.533330	13.5467					
.5625	14.2875	9/16				
.591133	15.0148					
.59375	15.0812	19/32				
.625	15.8750	5/8				
.65625	16.6687	21/32				
.6875	17.4625	11/16				
.71875	18.2562	23/32				
.75	19.0500	3/4				
.78125	19.8437	25/32				
.8125	20.6375	13/16				
.84375	21.4312	27/32				
.875	22.2250	7/8				
.90625	23.0187	29/32				
.9375	23.8125	15/16				
.96875	24.6062	31/32				
1.0000	25.4000	1.0				

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

GENERAL®

CONVERSION FACTORS

Multiply	By	To Obtain
Centimeters	.03281	Feet
Centimeters	.3937	Inches
Centimeters	.01	Meters
Centimeters	393.7	Mils
Cubic Inches	16.39	Cubic centimeters
Cubic Inches	5.787×10^{4}	Cubic feet
Cubic Inches	1.639×10^{5}	Cubic meters
Cubic Inches	2.143×10^{5}	Cubic yards
Cubic Inches	.004329	Gallons
Cubic Inches	.01639	Liters
Degrees (Celsius)	(ºCx9/5)+32	Degrees (Fahrenheit)
Degrees (Celsius)	ºC+273.15	Degrees (Kelvin)
Degrees (Fahrenheit)	(ºF-32)x5/9	Degrees (Celsius)
Degrees (Fahrenheit)	ºF+459.67	Degrees (Rankine)
Degrees (Kelvin)	ºK-273.15	Degrees (Celsius)
Feet	30.48	Centimeters
Feet	12	Inches
Feet	3.048×10^{4}	Kilometers
Feet	.3048	Meters
Feet	1.894×10^{4}	Miles
Feet	1.645×10^{4}	Miles (nautical)
Feet	304.8	Millimeters
Feet	.3333	Yards
Gallons	3785	Cubic centimeters
Gallons	.1337	Cubic feet
Gallons	231.0	Cubic inches
Gallons	.003785	Cubic meters
Gallons	.004951	Cubic yards
Gallons	.83267	Gallons (Imperial)
Gallons	3.785	Liters
Gallons	8	Pints (liquid)
Gallons	8.3453	Pounds of water
Gallons	4	Quarts (liquid)
Grams	.001	Kilograms
Grams	1000	Milligrams
Grams	.03527	Ounces
Grams	.03215	Ounces (troy)
Grams	.002205	Pounds
Inches	2.54	Centimeters
Inches	.0254	Meters
Inches	25.4	Millimeters
Inches	1,000	Mils
Inches	.02778	Yards
Kilograms	1000	Grams
Kilograms	70.93	Poundals
Kilograms	2.205	Pounds
Kilograms	.001102	Tons
Kilometers	100,000	Centimeters
Kilometers	3281	Feet
Kilometers	1000	Meters
Kilometers	.6214	Miles
Kilometers	1094	Yards
Liters	1000	Cubic centimeters
Liters	.03531	Cubic feet
Liters	61.02	Cubic inches
Liters	.001	Cubic meters
Liters	.001308	Cubic yards
Liters	.2642	Gallons

Multiply	By	To Obtain
Liters	1.000	Kilograms of water
Liters	2.113	Pints (liquid)
Liters	1.057	Quarts (liquid)
Meters	100	Centimeters
Meters	3.281	Feet
Meters	39.37	Inches
Meters	.001	Kilometers
Meters	6.214×10^{4}	Miles
Meters	5.396×10^{4}	Miles (nautical)
Meters	1000	Millimeters
Meters	1.094	Yards
Milliliters	.001	Liters
Millimeters	.1	Centimeters
Millimeters	.03937	Inches
Millimeters	.003281	Feet
Millimeters	39.37	Mils
Ounces	16	Drams
Ounces	437.5	Grains
Ounces	28.349527	Grams
Ounces	.9115	Ounces (troy)
Ounces	.0625	Pounds
Ounces	2.790×10^{5}	Tons (long)
Ounces	2.835×10^{5}	Tons (metric)
Ounces (fluid)	1.805	Cubic inches
Ounces (fluid)	.02957	Liters
Pints (dry)	33.60	Cu. Inches
Pints (liquid)	473.2	Cu. centimeters
Pints (liquid)	.01671	Cu. feet
Pints (liquid)	28.87	Cu. inches
Pints (liquid)	6.189×10^{4}	Cu. yards
Pints (liquid)	.125	Gallons
Pints (liquid)	.4732	Liters
Pints (liquid)	.5	Quarts (liquid)
Pounds	453.59237	Grams
Pounds	.45359237	Kilograms
Pounds	16	Ounces
Pounds	32.17	Poundals
Pounds	.0005	Tons
Pounds/cubic foot	.01602	Grams/cu. centimeter
Pounds/cubic foot	16.02	Kilograms/cu. meter
Pounds/cubic foot	5.787×10^{4}	Pounds/cu.inch
Pounds/cubic inch	27.68	Grams/cu. centimeter
Pounds/cubic inch	27,680	Kilograms/cu. meter
Pounds/cubic inch	1728	Pounds/cu. foot
Pounds/foot	1.488	Kilograms/meter
Pounds/inch	178.6	Grams/centimeter
Quarts (dry)	67.20	Cubic inches
Quarts (dry)	1.164	Quarts (liquid)
Quarts (liquid)	946.4	Cubic centimeters
Quarts (liquid)	.03342	Cubic feet
Quarts (liquid)	57.75	Cubic inches
Quarts (liquid)	9.464×10^{4}	Cubic meters
Quarts (liquid)	.25	Gallons
Quarts (liquid)	.9463	Liters
Quarts (liquid)	.8594	Quarts (dry)
Square inches	6.452	Square centimeters
Square inches	.006944	Square feet
Square inches	645.2	Square millimeters

AISI/SAE NUMBERING SYSTEM FOR CARBON AND ALLOY STEEL

10 18   **12L14**

Type ⌐ ⌐Carbon content   ⌐ **L denotes leaded steels**
    (Hundreths of a %)   **B denotes boron steels**

Carbon Steels	10XX	Plain Carbon, Mn 1.00% max
	11XX	Resulfurized Free Machining
	12XX	Resulfurized/Rephosphorized Free Machining
	15XX	Plain Carbon, Mn 1.00-1.65%
Manganese Steels	13XX	Mn 1.75%
Nickel Steels	23XX	Ni 3.50%
	25XX	Ni 5.00%
Nickel-Chromium Steels	31XX	Ni 1.25%, Cr .65-.80%
	32XX	Ni 1.75%, Cr 1.07%
	33XX	Ni 3.50%, Cr 1.50-1.57%
	34XX	Ni 3.00%, Cr .77%
Molybdenum Steels	40XX	Mo .20-.25%
	44XX	Mo .40-.52%
Chromium-Molybdenum Steels	41XX	Cr .50-.95%, Mo .12-.30%
Nickel-Chromium-Molybdenum Steels	43XX	Ni 1.82%, Cr .50-.80%, Mo .25%
	47XX	Ni 1.05%, Cr .45%, Mo .20-.35%
Nickel-Molybdenum-Steels	46XX	Ni .85-1.82%, Mo .20-.25%
	48XX	Ni 3.50%, Mo .25%
Chromium Steels	50XX	Cr .27-.65%
	51XX	Cr .80-1.05%
	50XXX	Cr .50%, C 1.00% min
	51XXX	Cr 1.02%, C 1.00% min
	52XXX	Cr 1.45%, C 1.00% min
Chromium-Vanadium Steels	61XX	Cr .60-.95%, V .10-.15%
Tungsten-Chromium Steels	72XX	W 1.75%, Cr .75%
Nickel-Chromium-Molybdenum Steels	81XX	Ni .30%, Cr .40%, Mo .12%
	86XX	Ni .55%, Cr .50%, Mo .20%
	87XX	NI .55%, Cr .50%, Mo .25%
	88XX	Ni .55%, Cr .50%, Mo .35%
Silicon-Manganese Steels	92XX	Si 1.40-2.00%, Mn .65-.85%, Cr 0-.65%
Nickel-Chromium-Molybdenum Steels	93XX	Ni 3.25%, Cr 1.20%, Mo .12%
	94XX	Ni .45%, Cr .40%, Mo .12%
	97XX	Ni .55%, Cr .20%, Mo .20%
	98XX	Ni 1.00%, Cr .80%, Mo .25%

FOR STAINLESS STEELS

AISI	SAE	Stainless Steels	
2XX	302XX	Chromium-Manganese-Nickel Steels	Austenitic 1
3XX	303XX	Chromium-Nickel Steels	Austenitic 1
4XX	514XX	Chromium Steels	See Note 2
5XX	515XX	Chromium Steels	Heat Resisting

NOTE 1: Austenitic Steels are not capable of heat treatment but are available in varied harnesses.

NOTE 2: ANSI 4XX (SAE 514XX) Chromium Steels are either ferritic (not heat treatable) or martinsitic (heat treatable) both have magnetic properties.

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

INDEX

NUMERIC INDEX
Tools

NCL = Not In Catalog
 General Mfg UPC #038728
* General Mfg UPC #681035
† General Mfg UPC #708200

Due to continuous improvements, actual product may differ slightly from photograph.

GENERAL®

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"It's Your Job . . . General Tools Make It Easier" **T-131**

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INDEX

Professional Test Instruments Catalog

GENERAL®

Precision, Specialty & Innovation

TABLE OF CONTENTS – INSTRUMENTS

Precision, Specialty & Innovation

It started back in 1922 in New York City as General Hardware run by Abe Rosenberg and his wife Lillian. They realized that the future of specialty hand tools belonged to the company that could develop and offer new and unique products for both professionals and the general public. Thus General Tools Mfg. was born. Abe developed the products. Lillian managed the business.

Today, some 87 years later, General is still a family business. Years of research, product development and innovation—fueled by a combination of user feedback and the application of new technology—have provided a wealth of specialty tools and instruments designed to meet the most demanding needs of craftsmen, technicians, and professionals in a wide variety of industries. General's unique philosophy—and that of its founders—is to also offer this level of precision and technology to the hobbyist, the home mechanic and the D.I.Y. enthusiast. Our products carry on the heritage of precision, quality and value envisioned by our founders. Abe and Lillian would have had it no other way.

With the acquisition of both Mannix Instruments and Simp'l Products in 2006, General Tools made a quantum leap in product offerings, adding a complete line of hand held precision instruments as well as a line of innovative wood joining jigs to an already large and growing family of precision tools. With these acquisitions we became General Tools & Instruments.

Our vision remains the same: to provide you with a robust offering of high quality specialty tools and instruments for measuring, marking, inspecting, retrieving, fastening, joining, cutting, testing and monitoring. And we offer them at superb value. Whether you're a professional seeking a high-precision tool for woodworking, metalworking or plumbing, a technician seeking the right instrument at the right price for an industrial or HVAC/R application, or a weekend warrior looking for a cool tool to make that project easier and more fun to complete, General has the tool or instrument for you!

Gerry Weinstein, Chairman
Joe Ennis, President and CEO

General Tools & Instruments
Precision and Ingenuity
Since 1922

I-1

Humidity/Moisture

GENERAL®

PRECISION DIGITAL & LED MOISTURE METER – MD7003
- Detects moisture in soft construction materials such as gypsum or plaster and wood
- Easy to use • Ergonomic design
- Illuminated LCD with bar graph display
- Measured value can be read quickly from the large clear dual scale
- Protective cap with self-test function
See page I-14 for additional information

TEMPERATURE/HUMIDITY MONITOR – DATA LOGGER – LTH8809DL
- Complete environmental monitor and alarm
- Wall or Desk Mounted LED type, easy reading
- Alarm set for Hi and Low limit-Temperature and Humidity
- Air Temperature or Dew Point (DP) display and ºC/ºF Unit display are selectable
- Data Logging Capacity 16,000 records
See page I-20 for additional information
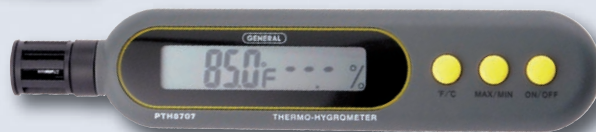
HUMIDITY SEEKER THERMO-HYGROMETER PEN – PTH8707
- °F/°C Switch
- Check home comfort and ventilation
- Monitor greenhouse environment
- Rotate the cap to cover and protect sensitive sensor tip
- Fits in your shirt pocket with back clip
- CE and RoHS approved
See page I-22 for additional information

PRECISION DIGITAL MOISTURE METER WITH RS232 OUTPUT – MM700D
- High accuracy, Auto temperature compensation
- Auto/Manual Power off
- Hold/Min/Max
- 8 wood calibration scales for different types of wood
- Built-in calibration (CAL) function; user adjustable
- Stores up to 99 readings, Max/Min average values recalled
- Water/dust-proof, Easy to operate, Long-term stability
- Auto Calibrate
See page I-17 for additional information

HIGH ACCURACY DATA LOGGING THERMO-HYGROMETER – DTH184DL
- Dual LCD Display
- Displays both Temperature and RH
- Measures both ºF/ºC
- Real-time data
- Data Hold Function
- Alarm Function
- Dew-Point and Wet-Bulb Temperature
- USB PC interface
- CE and RoHS approved
See page I-19 for additional information

DEW POINT THERMO-HYGROMETER – LAM880D
- Displays dew point, humidity and temperature
- Large digital display
- Dew point measurement
- Min/Max memory with reset key
- ºF/ºC readings
- Data hold
- Auto power off
See page I-22 for additional information

ALL-IN-ONE DELUXE MOISTURE METER KIT COMPLETE WITH PIN-TYPE AND NON-INVASIVE ROLLER-TYPE PROBES – MM70D-7022KIT

- Digital LCD display with luminescent back-light
- Protective cap for safe carrying and operation
- Hardened gloss treatment on display-window for an abrasion-proof long-term clean lens
- 5.5% to 99.9% moisture range with DC 0~1V output
- Stores up to 99 readings, Max/Min average values recalled
- Auto temperature compensation and internal calibration
- Auto power off

See page I-15 for additional information

PRECISION LED MOISTURE METER WITH SIGNAL OUTPUT – MM70

- 1% Accuracy
- High Resolution Multi-color LED Bar graph readout 5.5% to 99.9% moisture range
- Protective cap for safe carrying and operation
- Auto temperature compensation and calibration adjustment
- 99 Point memory
- Ergonomic design, comfortable and durable

See page I-14 for additional information

PRECISION DIGITAL MOISTURE METER WITH SIGNAL OUTPUT – MM70D

- 1% Accuracy
- Digital LCD display with luminescent back-light
- Protective cap for safe carrying and operation
- Hardened gloss treatment on display-window for an abrasion-proof long-term clean lens
- 5.5% to 99.9% moisture range with DC 0~1V output
- Stores up to 99 readings, Max/Min average values recalled
- Auto temperature compensation and internal calibration
- Auto power off

See page I-14 for additional information

BRIGHT RED JUMBO DISPLAY DATA LOGGING LED TEMPERATURE/HUMIDITY MONITOR – LRTH185DL1

- Complete environmental monitor and alarm
- Wall-Mounted, LED type, easy reading
- Alarm set for Hi and Low limit-Temperature and Humidity
- Data Logging Capacity 30,000 records
- LED displays real-time data
- USB interface
- Optional probe LRTH185DLP
- CE and RoHS approved

See page I-19 for additional information

Additional new products are noted throughout the catalog **I-3**

GENERAL®

8:1 MID-RANGE INFRARED THERMOMETER – IRT642
- Rugged and ergonomic design for general purposes
- Ultra low power consumption in shutdown mode
- Extended long time measuring reliability
- Backlit LCD display
- Switchable On/Off Laser sighting
- °F/°C selectable • Auto off

See page I-31 for additional information

DIGITAL UVC METER – UV512C
- Backlit LCD with 4 Digit Dual Display
- High and Low Measurements Range in a unit mW/cm2 or W/cm2
- Socket for Tripod Mounting
- Automatic Measuring
- Low Battery Indicator
- Magnetic Mount • 20 Point Memory
- Over Range Indication
- Zero Adjust • Auto Record

See page I-57 for additional information

HARDNESS TESTER ASTM RATED - PEN-STYLE – EMHT40
- Quick and reliable EMHT40
- Wide measuring range: direct display of converted hardness values in Rockwell HRB, HRC, Vickers HV, Brinell HB and Shore HS
- Impact device provides testing at any angle, even upside down
- 1250 readings memory with data output USB
- Min/Max/Avg
- High accuracy ±0.5%

See page I-63 for additional information

WATER ALARM – WA500
- Detects water leaks from plumbing and appliances
- Alarm sounds when water is detected
- Helps reduce water damage
- Finds mold causing moisture
- Low battery indicator

See page I-59 for additional information

WIRELESS RAIN GAUGE WITH TEMPERATURE DISPLAY, REMOTE RAIN BUCKET AND TEMPERATURE SENSOR – RGR150
- *Daily rainfall and past 9 day history*
- *Cable free rain collection canister is self-emptying*
- *Total rainfall is displayed with registered date*
- *Rainfall display in inches or millimeters*
- *Long range capability allows the collector to be placed up to 300 feet from the main unit*
- *Rainfall alarm • Daily alarm*
- *Indoor temperature display with ºF/ºC switch*
- *Min/Max temperatures*

See page I-83 for additional information

Complete Family of Video Borescopes

Data Logging Video Borescope Systems

GENERAL®

Portable, Wireless Data Logging Video Borescope System

Features ultra-slim 5.5mm diameter probe, 3.5 in. color monitor and powerful recording capability of sound, image and video. Optional super-slim 3.9mm diameter probe available.

CE
RoHS
FC

No. DCS1800

Applications:

- Government, Military, Security
- Infrastructure Inspection and Maintenance
- Aircraft Maintenance and Inspection
- Automotive Maintenance
- MRO / Industrial Inspection
- Inspection of Complex Machinery
- Oil, Power and Petro Industry Inspection Applications
- Inspection of Tooling Dies

Features:

- Records audio, video and still images
- Wireless image and video transfer
- 3.3 ft. (1m) long, 5.5mm diameter obedient probe that retains required shape
- Optional 3.9 mm diameter ultra-slim probe
- Adjustable super-strength white LED lights inside the tip for optimized illumination
- Water, oil, dust and scratch resistant probes (IPX7)
- 3.5 in. extra-wide, color TFT monitor with super sharp clarity
- Instant playback review
- Optional Click 'N Measure software accessory for sophisticated target analysis
- Multiple language menu
- TV monitor and USB computer interfaces
- Rechargeable internal batteries

Benefits:

- Wireless imaging allows inspection results to be sent to a larger screen up to 150 ft. away for team based analysis
- Wireless camera probe enables access to the smallest and most inaccessible places
- Ultra slim probes with powerful video camera and LED lights in the tip enable user to inspect the tiniest spaces
- Optional 3.9mm diameter camera tipped probe is the slimmest on the market and enables easy access through the spark plug hole of any engine including diesel
- View findings in real-time or record video and still images for output later
- Rechargeable batteries can record for 4 hours and will help you stay "Green"
- Interchangeable accessories provide additional function
- More value for your investment

Includes:

- Hard, Waterproof Blow Mold Case
- 5.5mm, 3.3 ft. (1m) Obedient Probe
- 2GB SD Card
- 3 Interchangeable Mirrored Viewing Tips (70º, 90º, 110º)
- LCD Cleaning Cloth
- AC Adapter/Charger
- Rechargeable battery
- Instruction Manual
- One Year Warranty

(See back page for accessories)

DCS1800 and DCS1600 Specifications:

Camera Tipped Probe:
5.5mm Diameter Standard, 3.9mm Optional

Probe Length:
3.3 ft. (1m) Standard, Up to 98 ft. (30m) Optional, 5.5mm Only

Display: 3.5 in. Color TFT

Display Monitor: 320 x 240 Pixels

Probe Feature: Water, Oil & Dust resistant (IPX7)

Field of View: Horizontal field angle – 46°
Vertical field angle – 34°
Diagonal field angle – 56°

Depth of Field (DOF): 0.4 to 2.4 in. (1 to 6cm)

Audio: (DCS1800 Only) Integrated microphone

Wireless Transceiver Frequency:
(DCS1800 Only) 2.4GHz
4 Channels (2414MHz, 2432MHz, 2450MHz, 2468MHz)

System Power:
Battery: Rechargeable Li-Polymer Battery 3.7V
Power Supply: AC 100-240V 50-60Hz
Power Consumption: DC5.5 1.8A

Recording Medium: 2GB SD Card

GENERAL®
Data Logging Video Borescope Systems

High-Performance, Data Logging Video Borescope System

Features ultra-slim 5.5mm diameter probe, 3.5 in. color monitor and powerful recording capability.

Optional super-slim 3.9mm diameter probe available.

Applications:

- Aircraft Maintenance and Inspection
- Military
- Law Enforcement
- Automotive
- Diesel
- HVAC/R including Air Conditioning, Furnaces and Heat Exchangers
- Other High Level Inspection

Features:

- 3.3 ft. (1m) long, 5.5mm diameter obedient probe that retains required shape
- Optional 3.9mm diameter ultra-slim probe
- Adjustable super-strength white LED lights inside the tip for optimized illumination
- Water, oil, dust and scratch resistant probes (IPX7)
- 3.5 in. extra-wide, color TFT monitor with super sharp clarity
- Records video and still images
- Instant playback review
- Optional Click 'N Measure software accessory for sophisticated target analysis
- 3 Interchangeable angled viewing tips provide extra wide view angle at 70º, 90º, 110º
- Multiple language menu
- TV monitor and USB computer interfaces
- Rechargeable internal batteries

Benefits:

- Ultra-slim probes with powerful video camera and LED lights in the tip enable user to inspect the tiniest spaces
- Optional 3.9mm diameter camera tipped probe is the slimmest on the market and enables easy access through the spark plug hole of any engine including diesel
- View findings in real-time or record video and still images for output later
- Rechargeable batteries can record for 4 hours and will help you stay "Green"
- Interchangeable accessories provide additional function
- More value for your investment

Includes:

- Hard, Blow Mold Case
- 5.5mm, 3.3 ft. (1m) Obedient Probe
- 2GB SD Card
- 3 Interchangeable Mirrored Viewing Tips (70º, 90º, 110º)
- LCD Cleaning Cloth
- AC Adapter/Charger
- Rechargeable Battery
- Instruction Manual
- One Year Warranty

No. DCS1600

CE RoHS
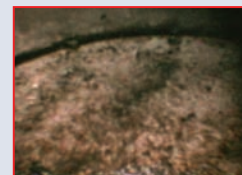
(See back page for accessories)

DCS1800 & DCS1600 Specifications (cont.):

Video Out Format: NTSC & PAL

Interface: AV Out

Compression Format: Compliant with MPEG4

Image Resolution: 640 x 480 Pixels

Video Resolution: 320 x 240 Pixels

Frame Rate: ~30 fps

Exposure: Automatic

White Balance: Fixed

S/N Ratio: 42dB or more

Languages: English, German, French, Portuguese

Operating Environment: -4° to 140°F (-20° to 60°C)

Storage Environment: -4° to 140°F (-20° to 60°C)

Recharge Environment: 32° to 104°F (0° to 40°C)

Interchangeable Options:

- **3.9mm Diameter Super-Slim Probe:**
  No. P1839 2.46 ft. (0.75mm), Obedient
- **Click 'N Measure Software**
  No. DCS1618M
- **Set of 3 Mirrored Viewing Tips**
  No. PM003 (70°, 90°, 110°)

Data Logging Video Borescope Systems

Articulating, Wireless, Data Logging Video Borescope System

No. DCS1800ART

No. P18ART-1SM
(probe only)

CE FC RoHS

Applications:
- Ideal for aircraft maintenance, machinery and production line inspection, petro-chemical and power plant inspection, general MRO and facility management

Features:
- One-handed articulation function allows user to turn the probe tip to inspect targets located at sides or at an angle while it is inside a tight space
- Turning knob and lock-button are ergonomically-engineered, and offer one-handed easy control to the probe tip to view targets from ideal angle
- Durable material and construction: all components pass 60,000 cycle test

Specifications:
- **Articulation Angle:** 2 way
- **Articulation Sweep:** 0 to ± 120°
- **Probe Types:**
  P18ART-1SM: 1m, articulating, soft metal probe for DCS1800 Systems
  P16ART-1SM: 1m, articulating, soft metal probe for DCS1600 Systems

Articulating, Data Logging Video Borescope System
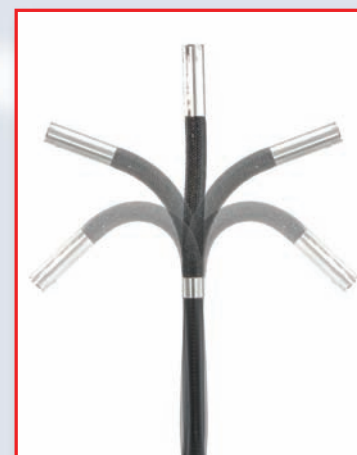
Articulation Sweep: 0 to ± 120°

No. P16ART-1SM
(probe only)

No. DCS1600ART

CE RoHS

I-8

Borescope System Options

Optional 3.9mm Probe

No. P1839

NEW!

Standard Pencil
6mm diameter

Probe
3.9mm diameter

(Shown Actual Size)
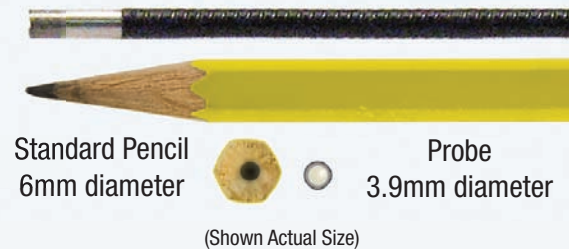
Applications:

3.9mm optional probe is now available for DCS1800 and DCS1600. This probe is the world's slimmest with a video camera and adjustable LED lights imbedded in the tiny head. It is ideal for inspection of tiny spaces in aircraft inspection, engine check up and other high-demand industrial inspection applications.

Features:

- 3.9mm diameter probe, 0.75m (2.5 ft.) in length, compatible with DCS1800 and DCS1600
- This optional probe is water, dust and oil proof (IPX7)
- The probe is also obedient, meaning it retains the shape a user needs

9.2mm

3.3mm

Click N' Measure Analysis Software and Measuring Tip

No. DCS1618M

NEW!

Measuring Tip

5.5mm Probe

GENERAL®

General Tools & Instruments

80 White St
New York, NY
10013

Call Toll-Free:
800.697.8665

Measuring Software
for Digital Camera Scopes
DCS1600 & DCS1800

www.generaltools.com

P/N: DCS1618M
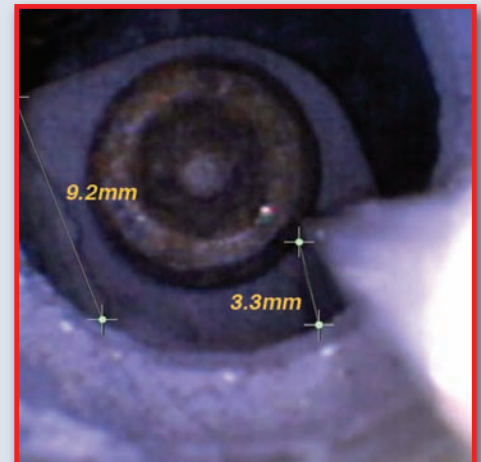
Analysis Software

Applications and Features:

Click 'N Measure analysis software and measuring tip for the 5.5mm probe is now available for DCS1800 and DCS1600. This option gives users a cost-effective way to calculate size, angles and areas of defects automatically on a computer.

- Attach the measuring tip to the end of the probe
- Point and click with the precision measuring tip touching the area of the defect
- Using the Analysis Software to analyze recorded images on a computer, it automatically calculates the size and area of the defect
- Inch or mm selectable

AREA:61.36mm squre

AREA:123.69mm squre

5.3mm

I-9
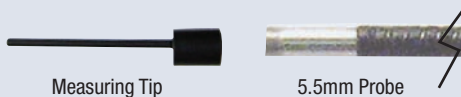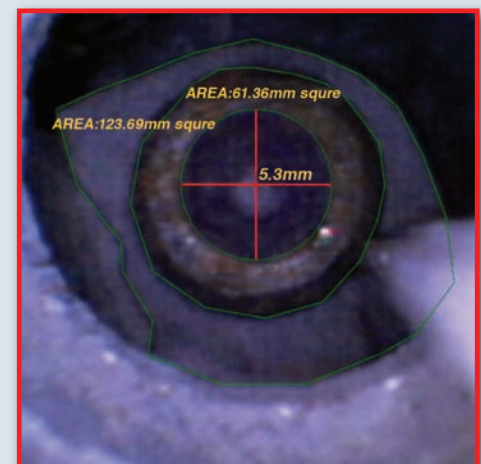
Video Inspection Systems

GENERAL®

THE SEEKER™ 400
THE SEEKER™ 495

Wireless Data Logging Video Inspection Systems

Compact Video Borescope Systems for the Visual Inspection of Inaccessible Areas

No. DCS495
No. DCS400
(shown)

Applications:

- Ideal for: Automotive, Plumbing, Construction and Restoration, HVAC/R, and any other Inspection of Hard-To-Reach and Hard-To-See Areas

Two Systems Are Available:

- The **DCS400** comes with a 17mm diameter probe suitable for HVAC/R, plumbing and general inspection
- The **DCS495** comes with a 9.5mm diameter probe suitable for automotive, electrical, and other inspections that require a thinner probe
- Both probes are 3.28 ft. (1m) long, flexible, obedient and waterproof to IP67 standards
- Optional probe extensions 2.9 ft. (.9m) long are available for the 17mm probe to extend its length up to 18 ft. (5.5m)

Features:

- 3.5 in. (88.9mm) TFT-LCD Wireless Color Monitor, can be detached from the unit for remote viewing up to 32.8 ft. (10m) away
- Adjustable LED lighting inside the tip of the probe illuminates dark spaces for clear inspection
- Datalogs and records in still photo (JPEG) and video (AVI), up to 3 hours or view it live
- NTSC or PAL compatible
- Choices of 10 menu languages: English, Chinese, German, French, Spanish, Dutch, Portuguese, Italian, Japanese and Russian

Specifications:

CAMERA:

Transmission Range: 32.8 ft. (10m) clear field
Transmission Frequency: 2468MHz
Resolution: 712 x 486 Pixels (NTSC) (**DCS400**)
704 x 576 Pixels (PAL) (**DCS400**)
640 x 480 Pixels (**DCS495**)
Depth of Field (DOF): 5.9 to 9.8 in. (150 to 250mm)
Field of View: 50° (**DCS400**), 45° (**DCS495**)
Camera Tipped Probe: 17mm Diameter, Standard
9.5mm Diameter, Optional
Probe Length: Standard: 3.3 ft. (1m)
Optional Probe: 9.5mm Diameter, Obedient
Optional 17mm Probe Extensions: Up to 18 ft. (5.5m)
Dimensions: 7.3 x 5.7 x 1.6 in. (186 x 145 x 41mm)
Weight: 18.7 oz. (530g) (**DCS400**)
15.8 oz. (450g) (**DCS495**)

MONITOR:

Display: 3.5 in. (88.9mm) Color TFT LCD Screen
Resolution: 320 x 240 Pixels
Video Output Level: 0.9 to 1.3V@75W
Video/Image Resolution:
960 x 240 Pixels (AVI format)
640 x 480 Pixels (JPEG format)
CE/FCC Approvals: Yes
Power Source: 4 "AA" batteries (included)
Dimensions: 3.9 x 2.7 x 1 in. (100 x 70 x 25mm)
Weight: 4.9 oz. (140g)
Warranty: 1 year

Includes:

- Hard, Blow Mold Case
- 17mm Diameter, 3.3 ft. (1m) Obedient Probe (**DCS400**)
- 9.5mm Diameter, 3.3 ft. (1m) Obedient Probe (**DCS495**)
- 1GB MicroSD Memory Card
- 3 Extension Tools: (Mirror, Magnet, Pick-Up Hook)
- USB and Video Interconnect Cables
- Magnetic Base Stand
- AC Adapter/Charger
- 3 Interchangeable Mirrored Viewing Tips (70°, 90°, 110°)
- 4 "AA" Batteries
- Mini-Screwdriver
- Instruction Manual
- One Year Warranty

(See back page for accessories)

GENERAL®

THE SEEKER™ 200
THE SEEKER™ 300

Video Inspection Systems

Compact Video Borescopes for the Visual Inspection of Inaccessible Areas

No. DCS200
No. DCS300
(shown)

Applications:

- Ideal for: Automotive, Electrical, Plumbing, HVAC/R and MRO Maintenance

Features:

- **DCS200:** 2.4 in. (70mm) color LCD screen for crystal clear image
- **DCS300:** 3.5 in. (88.9mm) color LCD screen for crystal clear image
- 12mm diameter camera-tipped probe is flexible and strong with built-in adjustable LED lighting, and is slim enough to perform automotive engine check-up
- Flexible probe retains configured shape to suit different inspection needs
- Probe is water, oil and dust proof to IPX7
- Probe Length: Standard: 3.3 ft. (1m)
  Optional: 1m, 2m and 3m probe extensions for up to 5m (16.4 ft.)
- View findings instantaneously
- Mirror, magnet and pick-up hook

Includes:

- Hard, Blow Mold Case
- 3.3 ft. (1m) Flexible Probe
- 3 Extension Tools: (Mirror, Magnet, Pick-Up Hook)
- 1 "9V" Battery
- Mini-Screwdriver
- Instruction Manual
- One Year Warranty

DCS300 Display: 3.5 in. (88.9mm)

DCS200 Display: 2.4 in. (70mm)

Specifications:

- **Display:** DCS200: 2.4 in. (70mm) Color LCD
  DCS300: 3.5 in. (88.9mm) Color LCD
- **Resolution:** 320 × 234 Pixels
- **Camera-Tipped Probe:** 12mm Diameter
- **Probe Length:** Standard: 3.3 ft. (1m)
  Optional: 1m, 2m and 3m probe extensions for up to 5m (16.4 ft.)
- **Depth of Field (DOF):** .98 to 11.8 in. (25 to 300mm)
- **Field of View:** 60°
- **Light Source:** 2 Adjustable High Intensity LEDs
- **Working Temperature:** 32° to 113°F (0° to 45°C)
- **Power Source:** 1 "9V" battery (included)

(See back page for accessories)

Digital Camera Scopes/Accessories

GENERAL®

Video Inspection Scopes

Model #	UPC	Screen Size	Data Logging	Wireless	Audio	Included Probe	Size	Weight
DCS1800	01297 0	3.5 in.		✔	✔	P1618-1SR	17.25 x 15.38 x 6.88 in. (438 x 390.7 x 174.8)	147 oz. (2466.4g)
DCS1800ART	01417 2	3.5 in.		✔	✔	P18ART-1SM	17.25 x 15.38 x 6.88 in. (438 x 390.7 x 174.8)	147 oz. (2466.4g)
DCS1600	01305 2	3.5 in.	✔			P1618-1SR	21.63 x 12.25 x 3.75 in. (549.4 x 310 x 95.25)	87 oz.(4167.4g)
DCS1600ART	01416 5	3.5 in.	✔			P16ART-1SM	21.63 x 12.25 x 3.75 in. (549.4 x 310 x 95.25)	87 oz.(4167.4g)
DCS495	01400 4	3.5 in.	✔	✔		P400-95	7.3 x 5.7 x 1.6 in. (186 x 145 x 41mm)	15.8 oz. (450g)
DCS400	01371 7	3.5 in.	✔	✔		P400-1	7.3 x 5.7 x 1.6 in. (186 x 145 x 41mm)	18.7 oz. (530g)
DCS300	01373 1	3.5 in.				P230-1	15.25 x 11.38 x 3.38 in. (387.3 x 289 x 85.9mm)	78 oz. (2211.2g)
DCS200	01372 4	2.5 in.				P230-1	15.25 x 11.38 x 3.38 in. (387.3 x 289 x 85.9mm)	102 oz. (2891.7g)

Probes, Extensions and Accessories

Probe Diameters (mm)

Part #	UPC	Length	Description	Diameter
P1839	01396 0	.75m (2.5 ft.)	Obedient, forward view probe for DCS1800 and DCS1600	3.9mm
P1618-1SR	01379 3	1m (3.3 ft.)	Obedient, forward view probe for DCS1800 and DCS1600	5.5mm
P1618-2SR	01380 9	2m (6.6 ft.)	Obedient, forward view probe for DCS1800 and DCS1600	5.5mm
P1618-3SR	01381 6	3m (9.8 ft.)	Obedient, forward view probe for DCS1800 and DCS1600	5.5mm
P1618-1SM	01382 3	1m (3.3 ft.)	Soft Metal, forward view probe for DCS1800 and DCS1600	5.5mm
P1618-3SM	01383 0	3m (9.8 ft.)	Soft Metal, forward view probe for DCS1800 and DCS1600	5.5mm
P1618-5SM	01357 1	5m (16.4 ft.)	Soft Metal, forward view probe for DCS1800 and DCS1600	5.5mm
P1618-10SM	01384 7	10m (32.8 ft.)	Soft Metal, forward view probe for DCS1800 and DCS1600	5.5mm
P1618-30SM	01385 4	30m (98.4 ft.)	Soft Metal, forward view probe for DCS1800 and DCS1600	5.5mm
P18ART-1SM	01419 6	1m (3.3ft.)	Articulation, Soft Metal Probe for DCS1800 Systems	5.5mm
P16ART-1SM	01418 9	1m (3.3ft.)	Articulation, Soft Metal Probe for DCS1600 Systems	5.5mm
DCS1618M	01395 3		Click 'N Measure software and measuring tip for DCS1800 and DCS1600	
PM003	01370 0		Set of 3 mirrors for DCS1800 and DCS1600: 70°, 90°, 110°	
P400-1	01393 9	1m (3.3 ft.)	Obedient replacement probe for DCS400 w/camera and LEDs	17mm
P400-1X	01394 6	.9m (2.9 ft.)	Obedient probe extension for DCS400	17mm
P400-95	01399 1	1m (3.3 ft.)	Obedient replacement probe for DCS400 w/camera and LEDs	9.5mm
P230-1	01386 1	1m (3.3 ft.)	Obedient replacement probe for DCS200/300, w/camera and LEDs	12mm
P230-1X	01387 8	1m (3.3 ft.)	Obedient probe extension for DCS200/300	12mm
P230-2X	01390 8	2m (6.6 ft.)	Obedient probe extension for DCS200/300	12mm
P230-3X	01391 5	3m (9.8 ft.)	Obedient probe extension for DCS200/300	12mm

3.9

5.5

9.5

12

17

GENERAL®

INSPECTION/SECURITY I-5 – I-12

Fiber optic scopes / Camera scopes
Camera extensions and accessories

MOISTURE/TEMPERATURE & HUMIDITY I-14 – I-28

Moisture meters
Agricultural moisture meters
Data logging thermo-hygrometers
Psychrometers / Thermo-hygrometers
Thermo-hygrometers
Heat index monitors
Psychrometers / Analog humidity
  calculator
Thermo hygrometers
Analog thermo-hygrometers
Data loggers / Printer

TEMPERATURE I-30 – I-48

Infrared thermometers
Digital thermometers
Professional hand-held thermometers
"K" type probes
Digital stem thermometers
Analog / Digital food service
  thermometers
Indoor / Outdoor thermometers
Wireless temperature / Humidity
Panel meters / Aquarium thermometer

SAFETY I-49 – I-59

Gas detectors
Refrigerant leak detectors
Indoor air quality (IAQ)
Sound meters
Light meters
UV meters
EMF
Microwave leakage / Water alarm

INDUSTRIAL I-60 – I-73

Manometers / Pressure / Digital scale
Vacuum / Torque / Vibration meters
Hardness / Thickness testers
Refractometers
Tachometers
Anemometers / Outdoor / Mini

AGRICULTURE I-74 – I-75

Fruit hardness / Soil Grain Moisture
Stem thermometers

WATER QUALITY I-76 – I-80

Meters pH / Conductivity /
  Replacement probes
Water purity / chlorine

WEATHER I-81 – I-86

Barometers
Rain gauges
Weather stations
Weather radio / Lightning detectors

TIME I-87 – I-93

Digital and analog clocks / Timers
Stopwatches

ELECTRICAL I-94 – I-102

Amp clamps
Multimeters
Voltage testers
Starter switch / Test leads

ACCESSORIES I-103 – I-104

Moisture/temperature/humidity
  replacement probes
Psychrometer replacements wicks/
  thermometers
Water quality meter replacement probes
Rerigerant leak detector sensors
Airflow meter replacement vanes
Camera probes, extensions & accessories
Software kits   AC adapters   Black light
Instrument case   Tool bag
Calibration salts   Replacement batteries

NEW!

MM70

CE
RoHS

FEATURES

PRECISION LED MOISTURE METER WITH SIGNAL OUTPUT

Precision instrument for accurate moisture reading in wood and timber.

- 1% Accuracy
- High Resolution Multi-color LED bar graph readout 5.5% to 99.9% moisture range
- Protective cap for safe carrying and operation
- Auto temperature compensation and calibration adjustment
- 99 Point memory
- Ergonomic design, comfortable and durable
- Convertible to non-invasive measuring by adding optional MP7002 probe
- Audible Alarm starts for catch reading
- Audible and visual low battery warning
- Additional set of long pins .9 in. (23mm) included
- CE and RoHS approved

SPECIFICATIONS

- ♦ Measuring Range:
  5.5 to 99.9% H2O %WME
- ♦ Accuracy (at 25°C): ±1% Wood Scale
- ♦ Indicator: LED bar graph
- ♦ Color Codes: Green (<16%)
  Yellow/Red (>21%)
- ♦ Signal Output: 0 to 1Vdc 10mV%
- ♦ Calibration: Automatic Temperature compensation
- ♦ Built-in calibration adjustment
- ♦ Power Source: 1 "9V" battery (included)
Includes:
- 1 MM70 Meter with .5 in. (12.7mm) pins
- 1 MP7021 External Pin Type Probe 39 in. (1 meter) long with .5 in. (12.7mm) pins
- Additional Set of Interchangeable Long Pins .9 in. (23mm)
- Protective Fabric Carrying Case
- User's Manual

UPC	NO.
07020 8	**MM70**
70604 6	**MP7021** External Pin Type Probe 39 in. (1 meter) long (Replacement)
07070 3	**MP7022** External Roller-Type Probe 39 in. (1 meter) long (Optional)

NEW!

MM70D

CE
RoHS

Includes: • 1 MM70D Meter with two .5 in. (12.7mm) pins
- 1 MP7021 External Pin Type Probe 39 in. (1m) long with .5 in. (12.7mm) pins
- Additional Set of Interchangeable Long Pins .9 in. (23mm)
- Protective Fabric Carrying Case
- User's Manual

PRECISION DIGITAL MOISTURE METER WITH SIGNAL OUTPUT

Precision digital instrument for accurate moisture reading in wood and timber.

- 1% Accuracy
- Digital LCD display with luminescent back-light
- Protective cap for safe carrying and operation
- Hardened gloss treatment on display-window for an abrasion-proof long-term clean lens
- 5.5% to 99.9% moisture range with DC 0~1V output
- Stores up to 99 readings, Max/Min average values recalled
- Auto temperature compensation and internal calibration
- Auto power off
- Ergonomic design, comfortable and durable
- Easy operation
- Audible and visual low battery warning
- Interchangeable extension probe
- Additional set of long pins .9 in. (23mm) included
- CE and RoHS approved

- ♦ Measuring Range: 5.5 ~ 99.9% H$_2$O %WME
- ♦ Resolution: 0.1%
- ♦ Accuracy: (at 25°C) ±1% Wood scale
- ♦ Display: Digital dual LCD display, with multi-function indicator
- ♦ Sampling Rate: 0.3 seconds
- ♦ Wood group scales: Select from 8 wood species groups
- ♦ Data memory: 99 readings
- ♦ Signal output: Analog DC 0 ~ 1V (10 mV / 1%), load > 500Ω
- ♦ Calibration: Built-in calibration adjustment
- ♦ Power: About 250 hours for continuing use (none back light)
- ♦ Operating: -20° to 55°C, <90%RH, non-condensing
- ♦ Dimensions: 6.0 x 2.2 x 1.26 in. (153 x 56 x 32mm)
- ♦ Weight: 5.5 oz. (155g) including battery
- ♦ Power Source: 1 "9V" battery (included)

UPC	NO.
07010 9	**MM70D**
70604 6	**MP7021** External Pin Type Probe 39 in. (1 meter) long (Replacement)
07070 3	**MP7022** External Roller-Type Probe 39 in. (1 meter) long (Optional)

NEW!

MMD7003

PRECISION DIGITAL & LED MOISTURE METER

Use to measure moisture content in wood, timber and concrete.

- Wood material: 6% to 40% moisture content
- Concrete material: 0% to 100% moisture content
- Measures temperature
- Red LED bar graph indicator with LCD display
- Easy Operation
- Replaceable Tips
- Hold, Record (Min/Max)

- ♦ Pin length: .5 in.
- ♦ Power Source: 1 "9V" battery (not included)
Includes: • Extra pins
  • Protective cover
  • User's Manual

UPC	NO.
07003 1	**MMD7003**
01255 0	**MP7003** External Pin Type Probe (Optional)

ALWAYS WEAR
OSHA APPROVED
SAFETY GOGGLES

Moisture Meters & Optional Probes

FEATURES   SPECIFICATIONS

ALL-IN-ONE DELUXE MOISTURE METER KIT COMPLETE WITH PIN-TYPE AND NON-INVASIVE ROLLER-TYPE PROBES

Precision digital moisture meter for highly accurate readings in wood, timber and many other materials.

- Digital LCD display with luminescent back-light
- Protective cap for safe carrying and operation
- Hardened gloss treatment on display-window for an abrasion-proof long-term clean lens
- 5.5% to 99.9% moisture range with DC 0~1V output
- Stores up to 99 readings, Max/Min average values recalled
- Auto temperature compensation and internal calibration
- Auto power off
- Ergonomic design, comfortable and durable
- Easy operation
- Audible and visual low battery warning
- Interchangeable extension probes
- CE and RoHS approved

♦ Measuring Range: 5.5 to 99.9% H_2O% WME
♦ Resolution: 0.1%
♦ Accuracy: (at 25ºC) ±1% Wood scale
♦ Display: Digital dual LCD display, with multi-function indicator
♦ Sampling Rate: 0.3 seconds
♦ Wood Group Scales: Select from 8 wood species groups
♦ Data Memory: 99 readings
♦ Signal Output: Analog DC 0 ~ 1V (10 mV/1%), load >500V
♦ Calibration: Built-in calibration adjustment
♦ Power: About 250 hours for continuing use (without back-light)
♦ Operating: -4º to 122ºF (-20º to 55ºC), <90%RH, non-condensing
♦ Dimensions: 6.0 x 2.2 x 1.26 in. (153 x 56 x 32mm)
♦ Weight: 5.5 oz. (155g) including battery
♦ Power Source: 1 "9V" battery (included)

MM70D-7022KIT

NEW!

CE RoHS

Kit includes: 1 each
- **MM70D** Precision LCD Moisture Meter with Interchangeable Pin-Type Probes
- **MP7021** External Interchangeable Pin-Type Probe
- **MP7022** External Roller-Type Probe
- Additional Set of Extension Pins
- User's Manual

UPC	NO.
01292 5	**MM70D-7022KIT**

MP7021

MP7022

MM70D

MP7003
Shown with optional MP7003 probe

MP7021

MP7022

PROBE ACCESSORIES

UPC	NO.	DESCRIPTION
01255 0	**MP7003**	External Pin Type Probe for MMD7003
70604 6	**MP7021**	External Pin Type Probe for MM70, MM70D
07070 3	**MP7022**	Roller Type Probe for MM70, MM70D

MOISTURE/TEMPERATURE & HUMIDITY

Moisture Meters

GENERAL®

MM1E

FEATURES

SPECIFICATIONS

LED MOISTURE METER

Ideal to use in woodworking, building construction and agriculture. Meter is also used in the restoration business to check if there is moisture in carpets and sub-flooring.

- LED Display
- Check wood, drywall and concrete before painting, sealing or treating
- Locate and identify water leaks in roofs, floors and walls
- Ideal for selecting dry lumber
- Great for home owners, contractors and inspectors
- CE and RoHS approved

- ♦ Display: Progressive LED's, 3 Green (5, 10, 12%); 2 yellow (14, 16%); Red (18, 20, 22%)
- ♦ Range: 8-22%
- ♦ Resolution: 0.1%
- ♦ Accuracy: ±2%
- ♦ Sampling Rate: 1s
- ♦ Operating Environment: 32° to 122°F (0° to 50°C), RH<90%
- ♦ Dimensions: 5.7 x 2.4 x 1.2 in. (145 x 60 x 30mm)
- ♦ Weight: 4.4 oz. (125g)
- ♦ Power Source: 1 "9V" battery (included)
- Includes: • Protective Cover
    • Instruction Manual

UPC	NO.
10188 9	**MM1E**

DIGITAL/LCD/LED MOISTURE METER

Ideal for contractors and homeowners to accurately measure moisture content in wood, concrete, drywall, subflooring and other construction materials.

- Accurately and professionally measure moisture in wood and building materials including brick, concrete, drywall, plaster, wood and lumber
- Strong stainless steel pins
- Audible alarms
- Battery status indication
- Hold button to freeze/hold reading
- Ergonomically designed
- CE approved

- ♦ Measuring range: Wood: from 5% – 50% Building material: from 1.5% – 33%
- ♦ Resolution: 0.1%
- ♦ Accuracy: ±3%
- ♦ Audible alarm: 8 different tones level
- ♦ Auto power off: 3 minutes
- ♦ Power Source: 1 "9V" battery (included)
- Includes: • Protective Cover
    • User's Manual

UPC	NO.
41447 7	**MMD4E**

MMD4E

PROFESSIONAL WOOD AND CONSTRUCTION MOISTURE METER

Use to measure moisture content in wood, timber, concrete and other construction materials.

- Detects moisture in soft construction materials such as gypsum or plaster and wood
- Easy to use
- Ergonomic design
- Illuminated LCD with bar graph display
- Measured value can be read quickly from the large clear dual scale
- Protective cap with self-test function
- Auto power off
- Low battery display
- CE and RoHS approved

- ♦ Range/Accuracy: Wood: 0 - 44% / ±2% Building materials: 0.2 to 2.2% / ±0.4%
- ♦ Operating Environment: 32° to 104°F (0° to 40°C), RH: <85%
- ♦ Power Source: 3 "CR2023" batteries (included)
- Includes: • Instruction Manual

UPC	NO.
01306 9	**MM80G**

MM80G

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

FEATURES   **SPECIFICATIONS**

PRECISION DIGITAL MOISTURE METER WITH RS232 OUTPUT

Precision digital instrument for accurate moisture reading in a wide variety of material and commercial/industrial applications.

- High accuracy, Auto temperature compensation
- Auto/Manual Power off
- Hold/Min/Max
- 8 wood calibration scales for different types of wood
- Built-in calibration (CAL) function; user adjustable
- Stores up to 99 readings, Max/Min average values recalled
- Water/dust-proof, Easy to operate, Long-term stability
- Auto Calibrate
- Low Battery warning
- Additional set of long pins .9 in. (23mm) included
- CE and RoHS approved

Includes:
- 1 **MM700D** Meter with .5 in. (12.7mm) pins
- 1 **MP7011** External Pin Type Probe 39 in. (1m) long with .5 in. (12.7mm) pins
- Additional Set of Interchangeable Long Pins .9 in. (23mm)
- Hard Carrying Case • User's Manual

♦ Measurement range: % WME 5.5 ~ 99.9%
♦ Accuracy: (at 25°C) ±1%
♦ Resolution: 0.1%
♦ Operation Range: 14° to 122°F (-10° to 50°C) (with temp compensation)
♦ 8 wood calibration scales (choose form "MODE" key)
♦ Data memory: 99 readings
♦ Sample rate: Approx. 1 reading/Sec.
♦ Battery Life: Approx. 250 hours (continuous usage)
♦ Dimensions:
  Meter: 6.6 x 3.0 x 1.3 in. (168 x 73 x 33mm)
  Pins: Length: 4.7 in. (120mm)
  Cable: 39 in. (1m) (Pin Type)
♦ Weight: Approx. 6.3 oz. (180g) including battery
♦ Power Source: 1 "9V" battery (included)

UPC	NO.	
70307 6	**MM700D**	
70604 6	**MP7011** External Pin Type Probe 39 in. (1 meter) long (Replacement)	
07070 3	**MP7012** External Roller-Type Probe 39 in. (1 meter) long (Optional)	

MM700D

MP7011

MP7012

PROBE ACCESSORIES

UPC	NO.	DESCRIPTION
07040 6	**MP7011**	External Pin Type Probe for MM700D
07050 5	**MP7012**	Roller Type Probe for MM700D

NON-INVASIVE DIGITAL MOISTURE METER

Ideal for use in wood/timber industry, and building material storage.

- Moisture display on LCD
- Data hold to freeze reading and display
- Auto calibration
- Low battery indication
- Sense 6 different materials including 50 types of wood/timber
- Audible sound at 'peak' detection
- Auto power off
- CE and RoHS approved

♦ Measuring moisture from 0.0% to 99.9% with 10 different groups
♦ Resolution: ±1 digit
♦ Sense depth maximum: 3/4 in. (20mm)
♦ Power Source: 1 "9V" battery (included)
Includes: • User's Manual

UPC	NO.
40142 2	**MMD5NP**

MMD5NP

MICRO-PROCESSOR NON-INVASIVE MOISTURE METER

Precision instrument for highly sensitive and non-invasive measurement of moisture content in wood, timber and other industrial applications.

- High accuracy
- Fast measuring time
- Wide measuring range and high resolution
- High resolution digital display
- Zero value and correction value can be stored
- Strong, light weight ABS-plastic housing
- Comfortable fit for either hand

♦ Display: 3 digits, 10mm LCD
♦ Range: 0 to 80%
♦ Resolution: 0.1%
♦ Accuracy: ±(1%n+1) under 30%, ±(2%n+1) over 30%
♦ Sampling time: 1 sec.
♦ Operating condition: Temperature: 0° to 50°C, Humidity: <80%
♦ Dimensions: 8.6 x 3.0 x 2.1 in. (218 x 76 x 53mm)
♦ Weight: 9.2 oz. (260g) (with batteries)
♦ Power Source: 4 "AAA" batteries (included)
Includes: • Carrying Case • User's Manual

UPC	NO.
40143 9	**MMD6NP**

MMD6NP

Agricultural Moisture Meters

GENERAL®

FEATURES

SPECIFICATIONS

PRECISION DIGITAL SOIL MOISTURE METER WITH PROBE

Agricultural professional use.

- Soil moisture content measurement
- Heavy duty probe
- Probe length: 8 in. (203mm)
- Easy operation
- Hold, Record (Min/Max)
- IP-65 Water resistance
- Heavy duty
- CE and RoHS approved

♦ Range: 0-50% moisture content
♦ Power Source: 4 "AAA" batteries (not included)

UPC	NO.
01240 6	**DSMM500**

NEW!

CE RoHS
DSMM500

MICRO-PROCESSOR GENERAL PURPOSE MOISTURE METER

Ideal for testing moisture content of a wide variety of material.

- Microprocessor design
- Large LCD display
- 4 digit display
- Compact, light weight and easy to use
- Test water ratio percentage of wood fiber, wooden articles, tobacco, cotton, paper, etc.

♦ 0 - 50% moisture
♦ Range: 0º to 122ºF (-10º to 80ºC)
♦ Resolution: 0.1
♦ 3-1/2 ft. wire cord
♦ 6 in. probe
♦ Power Source: 4 "AA" batteries (included)
Includes: • Hard case
　　　　 • Instructions

UPC	NO.
10195 7	**MM6012**

MM6012

GRAIN MOISTURE METER

Ideal for use in grain storage and other industrial settings.

- Microprocessor design
- Large LCD display
  - 4 digit display
  - Rugged construction
  - Light weight

♦ 8 - 20% moisture
♦ Range: -0º to 122ºF (-10º to 80ºC)
♦ 4 ft. wire cord
♦ 1 ft. probe
♦ Power Source: 4 "AA" batteries (included)
Includes: • Hard case
　　　　 • Instructions
　　　　 • 1 steel dual probe with 3 ft. cord

UPC	NO.
10197 1	**MMG608**

MMG608

ALWAYS WEAR
OSHA APPROVED
SAFETY GOGGLES

Data Logging Thermo-Hygrometer

FEATURES

SPECIFICATIONS

BRIGHT RED JUMBO DISPLAY DATA LOGGING LED TEMPERATURE/HUMIDITY MONITOR

Ideal for temperature, humidity monitoring, and control in lab, computer rooms, clean rooms, and other critical areas.

- Complete environmental monitor and alarm
- Wall-Mounted, LED type, easy reading
- Alarm set for Hi and Low limit-Temperature and Humidity
- Data Logging Capacity 30,000 records
- LED displays real-time data
- USB interface
- Optional probe LRTH185DLP
- CE and RoHS approved

UPC	NO.
01312 0	**LRTH185DL**
01365 6	**LRTH185DL1** with 1 meter probe
01364 9	**LRTH185DLP** 1 Meter Probe

♦ Temperature range: -4° to 140°F (-20° to 60°C)
♦ Temperature accuracy: ±1.8°F (1.0°C), (23° to 104°F / -5.0° to 40.0°C); ±3.6°F (2.0°C) (other)
♦ Temperature resolution: 0.1°F (0.1°C)
♦ Temperature update rate: times/second
♦ Temperature sensor type: Diode
♦ RH range: 5% to 95%
♦ RH accuracy: ±2.0%RH (at 25°C, 35% to 80%RH). ±2.5% (at 25°C, 10% to 35%RH, 80% to 90%RH) other ±5.0%RH (at 25°C), (<10%RH, >90%RH)
♦ Relative Humidity resolution: 0.1RH
♦ Relative Humidity response time: below 4 seconds
♦ LED display: 8.4"W x 4.73"H (214 x 120mm)
♦ Battery backup: 1 "9V" battery enables continued measuring during power disruptions
♦ Dimensions: 10.2 x 7 x 1.9 in. (260 x 178 x 47mm)
♦ Weight: 35.3 oz. (1000g)
♦ Power Source: 1 "9V" battery (included) or AC to DC Adapter (9V/1A)

LRTH185DL1
Shown complete
with LRTH185DLP
1m probe

LRTH185DL

LRTH185DLP
1m Probe

HIGH ACCURACY DATA LOGGING THERMO-HYGROMETER

1% RH accuracy and large red LED display makes it ideal for process control, labs and other critical areas.

- Dual LCD Display
- Displays both Temperature and RH
- Measures both °F/°C
- Real-time data
- Data Hold Function
- Alarm Function
- Dew-Point and Wet-Bulb Temperature
- USB PC interface
- CE and RoHS approved

Includes: • Instruction Manual
• Carrying Case
• MINI USB 4P (MALE) to USB A Type cable
• CD Software

UPC	NO.
01315 1	**DTH184DL**

♦ Temperature: -4° to 140°F (-20° to 60°C) ±1.8°F (0.5°C) (32° to 104°F / 0° to 40°C) ±3.6°F (2°C) (other)
♦ Humidity: 5 to 95%, 1%RH (15 to 80%RH) 2.5% (other)
♦ Temperature sensor: Diode
♦ Humidity Sensor: Capacitor Sensor
♦ Sampling: 1 times/second
♦ Resolution: 0.1%RH 0.1°F, 0.1°C
♦ Dimensions: 5.1 x 2.2 x 1.5 in. (130 x 56 x 38mm)
♦ Weight: 8.8 oz. (250g)
♦ Operating Temperature and Humidity: -4° to 140°F (-20° to 60°C), <95%RH (non-condensing)
♦ Storage Temperature and Humidity: 14° to 140°F (-10° to 60°C), <70%RH (non-condensing)
♦ Consumption Current: 10mA
♦ Power Source: 1 "9V" battery (included) or AC to DC Adapter (9V/300mA)

DTH184DL

Data Logging Thermo-Hygrometers

GENERAL®

FEATURES

SPECIFICATIONS

TEMPERATURE/HUMIDITY MONITOR – DATA LOGGER

Unique, large red LED display makes it ideal for monitoring temperatures and humidity conditions in labs, incubators and other controlled environments.

NEW!

- Complete environmental monitor and alarm
- Wall or Desk Mounted LED type, easy reading
- Alarm set for Hi and Low limit-Temperature and Humidity
- Air Temperature or Dew Point (DP) display and °C/°F Unit display are selectable
- Data Logging Capacity 16,000 records
- USB interface
- CE approved

- ♦ RH %: 0.0~100.0%
- ♦ RH resolution: 0.1%
- ♦ RH accuracy: ±3% at 10 to 90%, ±5% other
- ♦ Temperature: -4° to 158°F (-20° to 70°C)
- ♦ Temperature resolution: 0.1°F (0.1°C)
- ♦ Temperature accuracy: ±1.2°F (±0.6°C)
- ♦ Memory: 16,000 (Temp: 8K, RH: 8K)
- ♦ LED display: 2 x 2.6 in. (50.9 x 65.5mm)
- ♦ Dimensions:
  4.8 x 5.2 x 1.6 in. (120 x 130 x 42mm)
- ♦ Weight: 7.4 oz. (210g)
- ♦ Power Source: 4 "AAA" batteries (included)
- Includes: • Operation manual
  • USB cable • Software

UPC	NO.
01309 0	**LTH8809DL**

CE

LTH8809DL

PRECISION PSYCHROMETER TEMPERATURE/HUMIDITY DATA LOGGER

Precision instrument, perfect for professionals monitoring and controlling ambient air conditions in a HVAC/R environment.

- Humidity + Temperature + Dew point are combined into one meter
- 0.01 %RH humidity resolution
- 0.01 degree temperature resolution
- Dew point measurement
- Manual and auto data logger
- Data logger function with flexible sampling time selection
- Can save 1000 data points with recall
- DLSFT: Optional software kit with case

Humidity/Temperature
- ♦ Range: 0% to 100%RH
- ♦ Accuracy: ± 2%RH @ 20%RH to 80%RH @ 10 to 40°C
- ♦ Range: 32° to 122°F (0° to 50°C)
- ♦ Accuracy: ± 0.9°F, ± 0.5°C @ 5° to 35°C

Dew Point
- ♦ Range: -13.5° to 120.1°F, Resolution: 0.01
- ♦ Range: -25.3° to 48.9°C, Resolution: 0.01

UPC	NO.
10163 6	**DTH3009DL**
41420 0	**LSFT KIT** PC Interface Kit (Optional)

DTH3009DL

DUAL CHANNEL DATA LOGGING THERMO-HYGROMETER WITH RS-232

For professional use in monitoring, managing and recording temperature and humidity.

- Dual probe input
- Triple display
- RS-232 computer interface, Windows® software
- 16,000 records data logger
- Time function
- Auto power off
- Min/Max function
- Hold function
- CE approved

- ♦ Humidity range: 0 to 100%RH
- ♦ Range: -4° to 140°F
- ♦ "K" type temp range: -328° to 2498°F
- ♦ Humidity accuracy: ±2.5%RH
- ♦ Temp accuracy: ±1.4°F
- ♦ "K" type temp accuracy: ±0.3% rdg
- ♦ Dimensions:
  7.25 x 2.5 x 1.2 in. (184 x 63 x 30mm)
- ♦ Power Source: 1 "9V" battery (included)
- Includes: • 2 "K" type velcro strap probes
  • Humidity probe
  • RS-232 computer interface
  • Hard case
  • Software and Cable

UPC	NO.
10165 0	**DTH314DL**
16120 3	**HR33LJ** Calibration Salt MgCl 33% (Optional)
16130 2	**HR75LJ** Calibration Salt NaCl 75% (Optional)

CE

DTH314DL

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FEATURES | **SPECIFICATIONS**

DIGITAL PSYCHROMETER WITH DEW POINT AND WET BULB

Wide applications in monitoring environmental conditions.

- Displays wet bulb, dew point, humidity and temperature
- No twirling or charts necessary
- Large digital display
- Dew point measurement
- Wet and dry bulb temperature
- Min/Max memory with reset key
- °F or °C readings
- Data hold
- Auto power off
- Low battery indication
- Microprocessor based design

♦ Range: -4° to 122°F (-20° to 50°C)
♦ Humidity range: 0 to 100%RH
♦ Dew point: -22° to 122°F (-30° to 50°C)
♦ Temperature accuracy: ±1.8°F (±1°C)
♦ Humidity accuracy: ±5% of reading
♦ Response time: 60 seconds (approx.)
♦ Dimensions:
   6.7 x 1.85 x 0.5 in. (170 x 47 x 13mm)
♦ Power Source: 2 "AAA" batteries (included)
Includes: • Protective cap with pocket clip

UPC	NO.
10025 7	**SAM990DW**
10026 4	**SAM990DW/CERT**

SAM990DW
SAM990DW/CERT

CALIBRATABLE DIGITAL PSYCHROMETER

Hand-held convenience for accurate measurement of temperature and humidity for HVAC/R and food processing.

- Jumbo display, triple read-out
- Rotating head to protect sensor
- Field calibratable
- Auto power off
- Min/Max
- Displays: Temperature, Humidity, Dew point, Wet bulb
   P8706 External Temperature Probe
   HR33 'Low' Reference
   HR75 'High' Reference
- CE approved

♦ Range: -4° to 122°F (-20° to 50°C)
♦ Humidity range: 0 to 100%
♦ Dew point: -90.4° to 122°F (-68° to 50°C)
♦ Wet bulb: -6.9° to 122°F (-21.6° to 50°C)
♦ Temperature accuracy: ±12°F (±0.6°C)
♦ Resolution: 0.1°; 0.1%RH
♦ Response time: 60 seconds
♦ Power Source: 2 "AAA" batteries (included)

UPC	NO.
10041 7	**EP8706**
10043 1	**P8706** External Temperature Probe
15060 3	**HR33LJ** Calibration Salt MgCl 33% (Optional)
15070 2	**HR75LJ** Calibration Salt NaCl 75% (Optional)

NEW!

EP8706

CALIBRATABLE DIGITAL PSYCHROMETER WITH REMOTE PROBE

Ideal for HVAC/R uses: diagnostic, installation, maintenance.

- Jumbo display
- Rotating head to protect sensor
- Remote temperature probe
- Field calibratable
- Auto power off
- Min/Max
- T1/T2
- Displays: Temperature, Humidity, Dew point, Wet bulb
   P8706 External Temperature Probe
   HR33 'Low' Reference
   HR75 'High' Reference
- CE approved

♦ Range: -4° to 122°F (-20° to 50°C)
♦ Humidity range: 0 to 100%
♦ Dew point: -90.4° to 122°F (-68° to 50°C)
♦ Wet bulb: -69° to 122°F (-56° to 50°C)
♦ Temperature accuracy: ±1.2°F (±0.6°C)
♦ Resolution: 0.1°; 0.1%RH
♦ Response time: 60 sec.
♦ Power Source: 2 "AAA" batteries (included)
Includes: • 1 probe (**P8706**)

UPC	NO.
10028 8	**EM8716**
15060 3	**HR33LJ** Calibration Salt MgCl 33% (Optional)
15070 2	**HR75LJ** Calibration Salt NaCl 75% (Optional)

EM8716

DIGITAL HAND-HELD THERMO-HYGROMETER

For accurate measuring and monitoring temperature and himidity in a wide range of professional and industrial applications such as: film processing, printing, hospitals, and laboratories.

- Displays humidity and temperature
- Large digital display
- Min/Max memory with reset key
- °F or °C readings
- Data hold
- Auto power off
- Low battery indication
- Microprocessor based design
- Protective cap with pocket clip
- CE approved

♦ Range: -4° to 122°F (-20° to 50°C)
♦ Humidity range: 0 to 100%RH
♦ Temperature accuracy: ±1.8°F (±1°C)
♦ Humidity accuracy: ±5% of reading
♦ Response time: 80 seconds (approx.)
♦ Dimensions:
   6.7 x 1.85 x 0.5 in. (170 x 47 x 13mm)
♦ Power Source: 2 "AAA" batteries (included)
Includes: • Protective cap w/ pocket clip

UPC	NO.
10015 8	**CMM880**

CMM880

"It's Your Job . . . General Tools Make It Easier"

MOISTURE/TEMPERATURE & HUMIDITY

MOISTURE/TEMPERATURE & HUMIDITY
Thermo-Hygrometers

GENERAL®

FEATURES   SPECIFICATIONS

LAM880D

CE

DEW POINT THERMO-HYGROMETER

For accurately measuring and monitoring temperature and humidity in a wide range of professional and industrial applications such as: film processing, printing, hospitals and laboratories.

- Displays dew point, humidity and temperature
- Large digital display
- Dew point measurement
- Min/Max memory with reset key
- °F/°C readings
- Data hold
- Auto power off
- Low battery indication
- Microprocessor based design
- CE approved

♦ Range: -4° to 122°F (-20° to 50°C)
♦ Humidity range: 0 to 100%RH
♦ Dew point: -22° to 122°F (-30° to 50°C)
♦ Temperature accuracy: ±1.8°F (±1°C)
♦ Humidity accuracy: ±5% of reading
♦ Response time: 60 seconds (approx.)
♦ Dimensions:
   6.7 x 1.85 x 0.5 in. (170 x 47 x 13mm)
♦ Power Source: 2 "AAA" batteries (included)
Includes: • Protective cap with pocket clip

UPC	NO.
10020 2	**LAM880D**

PTH8707

CE RoHS

HUMIDITY SEEKER THERMO-HYGROMETER PEN

Ideal for contractors and homeowners to measure temperature and humidity conditions.

- °F/°C Switch
- Check home comfort and ventilation
- Monitor greenhouse environment
- Rotate the cap to cover and protect sensitive sensor tip
- Fits in your shirt pocket with back clip
- CE and RoHS approved

Includes: • Pocket clip on back
          • Manual

♦ Humidity range: 20 to 100%RH
♦ Temperature range: 32° to 122°F (0° to 50°C)
♦ Temperature accuracy: ±1.8°F (±1°C)
♦ Resolution: Temperature: 0.1 °F/°C
                         Humidity: 0.1%
♦ Humidity accuracy: ±3%
♦ Dimensions:
   6.5 x 1.25 x 0.5 in. (165 x 32 x 13mm)
♦ Weight: 1.9 oz. (54g)
♦ Power Source: 1 "CR2032" battery (included)

UPC	NO.
01402 8	**PTH8707**

PTH8708

CE

DIGITAL TEMPERATURE AND HUMIDITY PEN

Ideal for HVAC/R, laboratories, hospitals, computer rooms, greenhouses, printing, film processing, and more.

- Simultaneously displays temperature and humidity
- Data hold freezes measured values
- °F/°C switch
- Auto power off after 20 minutes
- Min/Max memory
- Fits in your shirt pocket
- CE approved

♦ Range: 14° to 122°F (-10° to 50°C)
♦ Humidity range: 5 to 95%RH
♦ Temperature accuracy: ±1.8°F (±1°C)
♦ Humidity accuracy: ±5%
♦ Resolution: ±0.1°, 1%RH
♦ Dimensions:
   6.9 x 1.7 x 0.6 in. (175 x 42 x 16mm)
♦ Power Source: 1 "CR2032" battery (included)
Includes: • Pocket clip on back

UPC	NO.
10005 9	**PTH8708**

LAM122

CE

ECONOMY TEMPERATURE AND HUMIDITY PEN

Hand-held convenience for accurate measurement of temperature and humidity.

- Simultaneous display of relative humidity and temperature
- °F/°C switch
- Pocket size for quick and reliable measurements at any location
- Min/Max memory (temp and humidity)
- "Clear" function erases stored readings to record new values

♦ Humidity range: 20 to 90%RH
♦ Range: 14° to 122°F (-10° to 50°C)
♦ Humidity accuracy: ±5%
♦ Temperature accuracy: ±1.8°F (±1°C)
♦ Resolution: ±0.1°; 1%RH
♦ Dimensions:
   5.9 x 0.8 x 0.6 in. (150 x 20 x 15mm)
♦ Power Source: 1 "LR44" battery (included)
Includes: • Protective cover with clip

UPC	NO.
10120 9	**LAM122**

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FEATURES

SPECIFICATIONS

DIGITAL POCKET HEAT INDEX MONITOR - SPORTS MODEL

Ideal for sports medicine professionals, coaches and athletes to monitor outdoor conditions to ensure safety.

- Displays heat index, temperature, humidity and dew point
- Danger icon with audible beep
- Min/Max memory with reset feature
- Data hold
- Reset feature
- °F/°C readings
- Large digital display
- Auto power off with low battery indicator
- Ergonomic design
- CE approved

♦ Range: -4° to 122°F (-20° to 50°C)
♦ Heat index range: 32° to 140°F (0° to 60°C)
♦ Humidity range: 0 to 100%RH
♦ Dew point: -22° to 122°F (-30° to 50°C)
♦ Temperature accuracy: ±1.8°F (1°C)
♦ Humidity accuracy: ±5%
♦ Dew point accuracy: ±3%
♦ Dimensions:
  6.88 x 1.57 x 0.91 in. (175 x 40 x 23mm)
♦ Power Source: 1 "CR2032" battery (included)
Includes: • Pocket clip on back

UPC	NO.
10100 1	**SAM800HI**

SAM800HI

DIGITAL POCKET HEAT INDEX MONITOR - INDUSTRIAL MODEL

Ideal for professional safety monitoring of outdoor conditions for sports and worker safety.

- Displays heat index, temperature, humidity and dew point
- Ideal for monitoring conditions for workers outdoors
- Danger icon with audible beep
- Min/Max memory with reset feature
- Data hold
- Reset feature
- °F/°C readings
- Large digital display
- Auto power off with low battery indicator
- Ergonomic design • CE approved

♦ Heat index range: 32° to 140°F (0° to 60°C)
♦ Temp. range: -4° to 122°F (-20° to 50°C)
♦ Humidity range: 0 to 100%RH
♦ Dew point: -22° to 122°F (-30° to 50°C)
♦ Temperature accuracy: ±1.8°F (1°C)
♦ Humidity accuracy: ±5%
♦ Dew point accuracy: ±3%
♦ Dimensions:
  6.88 x 1.57 x 0.91 in. (175 x 40 x 23mm)
♦ Power Source: 1 "CR2032" battery (included)
Includes: • Pocket clip on back

UPC	NO.
10105 6	**SAM800IND**

SAM800IND

HEAT INDEX MONITOR WITH WET BULB GLOBE TEMPERATURE

Ideal for industrial uses including HVAC/R, and outdoor sports medicine applications.

- An industry breakthrough for outdoor sports
- The power of sunlight is factored into the heat index
- Four measurement parameters:
  • WBGT (Wet Bulb Globe Temperature)
  • TG (Globe Temperature)
  • TA (Air Temperature)
  • % (Relative Humidity)
- CE approved

♦ Power Source: 2 "AAA" batteries (included)

♦ Black ball size: Dia. 40mm, Height 35mm
♦ Temp. (TG) range: 32° to 122°F (0° to 50°C)
♦ Temp. (TG) accuracy: ±2°F (±1°C)
♦ WBGT Temp. range: 32° to 122°F (0° to 50°C)
♦ WBGT Temp. accuracy: ± 2°C (15.0° to 35.0°F)
♦ RH% range: 0 to 100%RH
♦ RH accuracy: ±3%RH (0-90%RH), ±5%RH for other range
♦ Wet Bulb (WB) range: 70° to 115°F (21° to 45°C)
♦ Wet Bulb (WB) accuracy: ± 2°F
♦ Dew point range: 32° to 140°F (0° to 60°C)
♦ Dew point accuracy: ±3%

UPC	NO.
08758 9	**WBGT8758**

WBGT8758

DELUXE WBGT HEAT INDEX MONITOR WITH 75MM BLACK BALL

Ideal for industrial uses including HVAC/R, and outdoor sports medicine applications.

- Rapid response
- An industry breakthrough for outdoor sports
- The power of sunlight is factored into the heat index
- Designed to monitor heat conditions
- Four measurement parameters:
  • WBGT (Wet Bulb Globe Temperature)
  • TG (Globe Temperature)
  • TA (Air Temperature)
  • % (Relative Humidity)
- CE approved
♦ Black ball size: Dia. 75mm, Height 75mm
♦ Temp. (TG) range: 32° to 122°F (0° to 50°C)
♦ Temp. (TG) accuracy: ±2°F (±1°C)
♦ WBGT Temp. range: 32° to 122°F (0° to 50°C)

♦ WBGT Temp. accuracy: ±2°F (15.0° to 35.0°F)
♦ RH% range: 0 to 100%RH
♦ RH accuracy: ±3%RH (0-90%RH), ±5%RH for other range
♦ Wet Bulb (WB) range: 70° to 115°F (21° to 45°C)
♦ Wet Bulb (WB) accuracy: ±2°F
♦ Dew point range: 32° to 140°F (0° to 60°C)
♦ Dew point accuracy: ±3%
♦ Dimensions:
  11 x 3 x 3 in. (278 x 75 x 75mm)
♦ Weight: 5.3 oz. (150g)
♦ Power Source: 2 "AAA" batteries (included)

UPC	NO.
01308 3	**WBGT8778**

NEW!

WBGT8778

"It's Your Job . . . General Tools Make It Easier"

MOISTURE/TEMPERATURE & HUMIDITY

GENERAL®

FEATURES

SPECIFICATIONS

ANALOG TEMPERATURE/HUMIDITY CALCULATOR
To calculate relative himidity.

- For dry/wet bulb
- Easy-to-read
- Pocket sized
- Percent relative humidity indicator
- Recommended humidities for industrial processes

♦ Temperature: Dry Bulb 30° to 120°F
   Wet Bulb 20° to 120°F
♦ Relative humidity: 10 to 100RH

UPC	NO.
16110 4	**HC880**

HC880
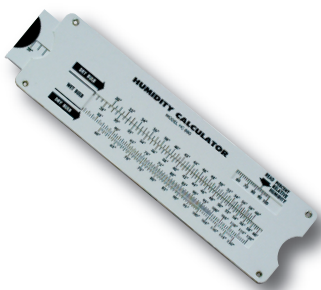
MASON'S HYGROMETER
Measures relative humidity.

- Measures relative humidity by comparing the wet and dry bulb thermometers
- Complete with two red spirit thermometers in a sturdy white plastic case and plastic reservoir bottle
- Dual scale readings

♦ Range:
   0° to 120°F (-15° to 50°C)
♦ Dimensions:
   12.25 x 2.75 x 0.85 in. (311 x 70 x 22mm)
Includes: • Conversion chart

UPC	NO.
23005 3	**MH120**

MH120
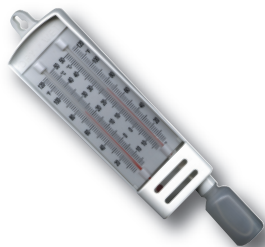
SLING PSYCHROMETERS

- High impact plastic construction
- Fast, accurate and easy to use
- No assembly required
- Classic twirling design
- Available in °F or °C

Model	Range	Type
SP100CR	-5° to 50°C	Red spirit
SP100FR	20° to 120°F	Red spirit

Replacement parts:
SP R108 Repl. Therms for **SP100CR** (2) Red spirit "F"
SPR109 Repl. Therms for **SP100FR** (2) Red spirit "C"
SPR120 Repl. Wicks (6) - All

♦ Dimensions:
   8.25 x 1.25 x 0.625 in. (210 x 32 x 16mm)
Includes: • Two thermometers
         • One wick

UPC	NO.
10215 2	**SP100CR** - Red Spirit
10205 3	**SP100FR** - Red Spirit
10260 2	**SPR108** - Replacement Therms
10265 7	**SPR109** - Replacement Therms
10270 1	**SPR120** - Replacement Wicks

SP100CR
SP100FR

TWIRLING PSYCHROMETER
To measure temperature and humidity.

- Extra large handle for simple operation
- High impact plastic construction
- Fast, accurate and easy to use
- Classic twirling design
- Red Spirit filled

Replacement therms:
RTSP - (2) replacements "C" Therms

♦ °C range: 0° to 50°C
♦ Accuracy for mercury: ±0.5°F (±0.3°C)
♦ Dimensions:
   8.5 x 1.75 x 1 in. (216 x 45 x 25mm)
♦ Weight: 7.05 oz. (200g)
Includes: • Two thermometers
         • One wick

UPC	NO.
10225 1	**TSP200RC**
10202 2	**RTSP** Replacement Therms
10270 1	**SPR120** Replacement Wicks

TSP200RC

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FEATURES

SPECIFICATIONS

JUMBO DISPLAY TEMPERATURE AND HUMIDITY METER WITH CLOCK

To measure, monitor and display temperature and humidity.

- 3 row display shows temperature, humidity and current time
- °F or °C temperature display
- Clock is 12 or 24 hour selectable
- Min/Max memory for temperature and humidity records the highest and lowest values with optional daily reset feature
- Replaces: **DTH05**

♦ Temperature range: 23° to 122°F
♦ Humidity range: 20 to 99%RH
♦ Temperature accuracy: ±1.8°F (±1°C)
♦ Humidity accuracy: ±6%RH
♦ Resolution: 0.1°, 1%
♦ Digit height: 0.67 in.
♦ Display size: 2.45 x 3.15 in.
♦ Dimensions:
  3.75 x 4.2 x 0.75 in.
  (95 x 107 x 19mm)
♦ Power Source: 1 "AAA" battery (included)

UPC	NO.
11032 4	**DTH04**

DTH04

JUMBO DISPLAY HUMIDITY AND TEMPERATURE METER

To measure and display temperature and humidity.

- Displays humidity and temperature
- Jumbo digital display
- 2-Key operation: min/max and reset
- Memory for highest and lowest temperature and humidity
- °F/°C slide switch

♦ Range: 32° to 122°F (0° to 50°C)
♦ Humidity range: 20% to 90%RH
♦ Resolution: 0.1, 1%
♦ Dimensions:
  4.3 x 3.9 x 0.8 in. (110 x 98 x 20mm)
♦ Weight: 6.3 oz. (175g)
♦ Power Source: 1 "AAA" battery (included)

UPC	NO.
11040 9	**DTH03A**

DTH03A

HORIZONTAL HUMIDITY AND TEMPERATURE METER

For monitoring indoor environmental comfort.

- Displays temperature and humidity
- °F and °C models available
- Jumbo display
- Horizontal design
- Comfort indication (cool, comfort, warm)
- Wall or desk mountable
- Low battery indicator

♦ Range: -58° to 158°F
♦ Humidity range: 10 to 95%RH
♦ Temperature accuracy: ±1.8°F (±1°C)
♦ Humidity accuracy: ±5% from 30 to 80%RH; ±7% at all other ranges
♦ Resolution: 0.1°, 1%
♦ Sampling rate: every 10 seconds
♦ Digit height: 0.75 in.
♦ Display size: 3.75 x 1.05 in.
♦ Dimensions:
  5.3 x 2.5 x 0.6 in. (135 x 64 x 15mm)
♦ Power Source: 2 "AAA" batteries (included)

UPC	NO.
11008 9	**DHI8757F**

DHI8757F

FEATURES   **SPECIFICATIONS**

DIGITAL TEMPERATURE AND HUMIDITY MONITOR

To measure, monitor and display temperature and humidity.

- Displays temperature and humidity
- °F/°C switch
- Wall or desk mountable
- Min/Max feature
- For home or office use

♦ Range: 14° to 140°F (-10° to 60°C)
♦ Humidity range: 10% to 99%RH
♦ Temperature accuracy: ±1.8°F (±1°C)
♦ Humidity accuracy: ±5%
♦ Resolution: 0.1°, 1%
♦ Dimensions:
   4 x 2.5 x 0.5 in. (102 x 64 x 13mm)
♦ Power Source: 1 "AAA" battery (included)

UPC	NO.
11015 7	**DTH700**

DTH700

DIGITAL TEMPERATURE/HUMIDITY MONITOR WITH CLOCK

To measure, monitor and display temperature and humidity.

- Simultaneously displays time, temperature and humidity
- Clock with alarm and snooze button
- Min/Max memory
- Wall or desk mount

♦ Range: 14° to 140°F (-10° to 60°C)
♦ Humidity range: 10% to 99%RH
♦ Temperature accuracy: ±1.8°F (±1°C)
♦ Humidity accuracy: ±5%RH
♦ Resolution: 0.1°, 1%
♦ Dimensions:
   4.25 x 2.5 x 0.5 in. (108 x 64 x 13mm)
♦ Power Source: 1 "AAA" battery (included)

UPC	NO.
11020 1	**DTH800**

DTH800

MINI DIGITAL HUMIDITY AND TEMPERATURE METER

Ideal for use in humidors and musical instrument cases.

- Simultaneously displays indoor temperature and humidity
- Great for pianos, humidors, wine cellars, computer rooms and more
- Large LCD display
- Memory for highest and lowest temperature and humidity
- Clear button
- Low battery warning
- Hanging or standing features

♦ Range: 14° to 140°F (°F only)
♦ Humidity range: 10% to 99%RH
♦ Temperature accuracy: ±1.8°F
♦ Humidity accuracy: ±5%
♦ Resolution: 1°, 1%
♦ Display size: 1.4 x 0.7 in.
♦ Dimensions:
   1.5 x 2.05 x 0.6 in. (38 x 52 x 15mm)
♦ Power Source: 1 "LR44" battery (included)

UPC	NO.
11075 1	**LCR318**

LCR318

ALWAYS WEAR
OSHA APPROVED
SAFETY GOGGLES

FEATURES

SPECIFICATIONS

HIGH TEMPERATURE THERMO-HYGROMETER

To measure and monitor temperature and humidity.

- Measures temperature and humidity
- Competitively priced
- Aluminum case
- Flange mounting
- Attractive design

♦ Range: 30° to 250°F
♦ Humidity range: 0 to 100%RH
♦ Dimensions: 5.125 in. dial diameter, 6 in. overall
♦ Weight: 11 oz. (312g)

UPC	NO.
61006 0	**A600FC**

A600FC

ANALOG CERTIFIED THERMO-HYGROMETER

Precision instrument for professionals monitoring temperature and humidity in industrial environments.

- Measures temperature and humidity
- Aluminum case
- Silver dial
- Certified for accuracy
- Color coded (°F & °C)
- Attractive housing
- For wall mounting
- CE approved

♦ Range: 10° to 170°F (-8° to 75°C)
♦ Humidity range: 0 to 100%RH
♦ Dimensions: 5.25 in. dial diameter
♦ Weight: 7.5 oz. (213g)
Includes: • Test certificate

UPC	NO.
61020 6	**A5063**

CE

A5063

ANALOG CERTIFIED THERMO-HYGROMETER

Precision instrument for professionals monitoring temperature and humidity in industrial environments.

- Measures temperature and humidity
- Polished brass case
- Attractive housing
- Flange mounting
- Color coded (°F & °C)
- Certified for accuracy
- For wall mounting
- CE approved

♦ Range: 10° to 170°F (-8° to 75°C)
♦ Humidity range: 0 to 100%RH
♦ Dimensions: 5.25 in. dial diameter, 5.875 in. with flange
♦ Weight: 11 oz. (312g)

UPC	NO.
61030 5	**A5064**

CE

A5064

ANALOG CERTIFIED THERMO-HYGROMETER

Precision and certified instruments used for various production, lab, agrriculture and weather applications.

- Measures temperature and humidity
- Polished brass case
- Attractive housing
- Flange mounting
- Color coded (°F & °C)
- Certified for accuracy
- For wall mounting
- CE approved

♦ Range: 10° to 170°F (-8° to 75°C)
♦ Humidity range: 0 to 100%RH
♦ Dimensions: 5.25 in. dial diameter, 5.875 in. with flange
♦ Weight: 11 oz. (312g)

UPC	NO.
61010 7	**A5033**

CE

A5033

MOISTURE/TEMPERATURE & HUMIDITY

Data Loggers

GENERAL®

NEW!

CE
RoHS
DTH184DL

FEATURES

HIGH ACCURACY DATA LOGGING THERMO-HYGROMETER

1% RH accuracy and large red LED display makes it ideal for process control, labs and other critical areas.

- Dual LCD Display
- Displays both Temperature and RH
- Measures both °F/°C
- Real-time data
- Data Hold Function
- Alarm Function
- Dew-Point and Wet-Bulb Temperature
- USB PC interface
- CE and RoHS approved

Includes: • Instruction Manual
• Carrying Case
• MINI USB 4P (MALE) to USB A Type cable
• CD Software

UPC	NO.
01315 1	**DTH184DL**

SPECIFICATIONS

- ♦ Temperature: -4° to 140ºF (-20° to 60ºC) ±1.8ºF (0.5ºC) (32° to 104ºF / 0° to 40ºC) ±3.6ºF (2ºC) (other)
- ♦ Humidity: 5 to 95%, 1%RH (15 to 80%RH) 2.5% (other)
- ♦ Temperature sensor: Diode
- ♦ Humidity sensor: Capacitor Sensor
- ♦ Sampling: 1 times/second
- ♦ Resolution: 0.1% RH 0.1ºF, 0.1°C
- ♦ Operating Temperature and Humidity: -4° to 140ºF (-20° to 60°C), <95%RH (non-condensing)
- ♦ Storage Temperature and Humidity: 14° to 140ºF (-10° to 60°C), <70%RH (non-condensing)
- ♦ Consumption Current:10mA
- ♦ Dimensions: 5.1 x 2.2x 1.5 in. (130 x 56 x 38mm)
- ♦ Weight: 8.8 oz. (250g)
- ♦ Power Source: 1 "9V" battery (included) or AC to DC Adapter (9V/300mA)

LTH8809DL

TEMPERATURE/HUMIDITY MONITOR – DATA LOGGER

Unique, large red LED display makes it ideal for monitoring temperatures and humidity conditions in labs, incubators and other controlled environments.

- Complete environmental monitor and alarm
- Wall or Desk Mounted LED type, easy reading
- Alarm set for Hi and Low limit-Temperature and Humidity
- Air Temperature or Dew Point (DP) display and C/F Unit display are selectable
- Data Logging Capacity 16,000 records
- USB interface

Includes: • Operation manual • USB cable
• Software

UPC	NO.
01309 0	**LTH8809DL**

- ♦ RH %: 0.0~100.0%
- ♦ RH resolution: 0.1%
- ♦ RH accuracy: ±3% at 10 to 90%, ±5% other
- ♦ Temperature: -4° to 158ºF (-20° to 70°C)
- ♦ Temperature resolution: 0.1ºF (0.1°C)
- ♦ Temperature accuracy: ±1.2ºF (±0.6ºC)
- ♦ Memory: 16,000 (Temperature: 8K, RH: 8K)
- ♦ LED display: 2 x 2.6 in. (50.9 x 65.5mm)
- ♦ Dimensions: 4.8 x 5.2 x 1.6 in. (120 x 130 x 42mm)
- ♦ Weight: 7.4 oz. (210g)
- ♦ Power Source: 4 "AA" batteries (included)

NEW!

DL8835
(Replaces DL8828)

TEMPERATURE HUMIDITY DATA LOGGER WITH ON/OFF SWITCH

For professional use in monitoring and recording temperature and humidity.

- Records relative humidity & temperature
- Logs data for days, weeks or months
- Multiple data loggers can be programmed and data downloaded from a single docking station
- Programmable sampling rate from 1 sec. to 2 hrs.
- View either temperature or humidity on LCD
- Program the data logger, analyze and store data using software - Models **INT8818, INT8819** (not included)
- Yellow record LED flashes when unit is sampling
- Scheduled, magnetic or immediate start capability
- Real-time clock stores date and time with data
- Programmable high and low limits with alarm

- ♦ Range: -40° to 185ºF (-40° to 85ºC)
- ♦ Humidity range: 0 to 100%RH
- ♦ Accuracy: ± 1ºF from -4° to 122ºF, (-20º to 50ºC) ± 2ºF at all other ranges; ±5%RH
- ♦ Resolution: 0.1°, 0.1%RH
- ♦ Memory: Temperature up to 8,000; RH: 8,000 points
- ♦ Dimensions: 3.14 x 2.16 x 0.86 in. (80 x 55 x 22mm)
- ♦ Weight: 2.6 oz. (76g)
- ♦ Power Source: Lithium battery (included)

UPC	NO.
46125 9	**DL8835**
46130 3	**INT8818** Serial Interface Kit (Optional)
46135 8	**INT8819** USB Interface Kit (Optional)

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

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FEATURES

SPECIFICATIONS

DIGITAL TEMPERATURE AND HUMIDITY DATA LOGGER

To measure and record temperature for energy audits and other professional applications.

- Records relative humidity and temperature
- Logs data for days, weeks or months
- Multiple data loggers can be programmed and data downloaded from a single docking station
- Programmable sampling rate from 1 sec. to 2 hrs.
- View either temperature or humidity on LCD
- Program the data logger, analyze and store data using software - Models **INT8818, INT8819** (not included)
- Yellow record LED flashes when unit is sampling
- Scheduled, magnetic or immediate start capability
- Real-time clock stores date and time with data
- Programmable high and low limits with alarm

♦ Range: -40º to 185ºF (-40º to 85ºC)
♦ Humidity Range: 0 to 100%RH
♦ Accuracy: ± 1ºF from -4 to 122ºF, (-20º to 50ºC) ± 2ºF at all other ranges; ±5%RH
♦ Resolution: 0.1º, 0.1%RH
♦ Memory: Temp: up to 8,000; RH: 8,000 points
♦ Dimensions: 3.14 x 2.16 x 0.86 in. (80 x 55 x 22mm)
♦ Weight: 2.6 oz. (76g)
♦ Power Source: Lithium battery (included)

UPC	NO.
46120 4	**DL8829**
46130 3	**INT8818** Serial Interface Kit (Optional)
46135 8	**INT8819** USB Interface Kit (Optional)

DL8829
(Replaces DL8828)

USB INTERFACE KIT

- For downloading readings to your PC
- Use with data logger models: **DL8829 and DL8835**

Includes:
- Data logger base
- USB1.1 cable
- Software
- Operation manual

UPC	NO.
46135 8	**INT8819**

INT8819

PRINTER FOR DATA LOGGER

- For use with the following data loggers (Models **DL8829**, **DL8828**, **DL8835**)
- Prints data in text or graph format
- Small size fits in the palm of your hand
- LCD display
- Set up data loggers without a personal computer. Sampling interval, recording points, hi/low temp/humidity alarm set, ºC or ºF
- Input: RS-232C Data: 8 bits; Stop: 1 bit

♦ Dimension: 4.72 x 5.9 x 1.88 in.
♦ Printing characteristics:
  a) Voltage compensating to stabilize the contrast of printing
  b) Paper jam protection
  c) Paper feed
  d) Printing contrast: 1 to 9
  e) Print type by report or graphic (Font: Roman 8)
♦ Range: -40º to 212ºF (External), - 40º to 100ºC (External)
♦ Humidity Range: 0 to 100%
♦ Accuracy: Temperature: + 0.6ºC (20º to 50ºC), +1.2ºC (-40º to 20ºC, 51º to 100ºC)
♦ Resolution: 0.1ºF, 01ºC
♦ Memory: 15999 readings
♦ Dimensions: 2.8 x 2.2 x 0.8 in. (72 x 56 x 21mm)
♦ Weight: 2.2 oz. (62g)
♦ Power Source: 1 "3.6V" Lithium battery (included)
Includes: • Printer
           • Thermo-paper

UPC	NO.
46145 7	**EP9801**

EP9801

TEMPERATURE

FEATURES

SPECIFICATIONS

8:1 MID-RANGE INFRARED THERMOMETER

Ideal for most applications in HVAC/R, plumbing and heating, electrical, automotive and other industrial jobs.

• Rugged and ergonomic design for general purposes
• Ultra-low power consumption in shutdown mode
• Extended long time measuring reliability
• Backlit LCD display
• Switchable On/Off Laser sighting
• °F/°C selectable
• Auto off
• CE, RoHS, WEEE approved

♦ Distance to Spot (DS) ratio: 8:1
♦ Range: -4° to 604°F (-20° to 317°C)
♦ Emissivity: Fixed at 0.95
♦ Resolution: 0.5°F / 0.5°C
♦ Accuracy: ±2%
♦ Operating temperature: 32° to 122°F, 10 to 90%RH
♦ Power Source: 1 "9V" battery (included)

UPC	NO.
02060 9	**IRT206**

IRT206

The new IRT206 "Heat Seeker™" infrared thermometers are precision measuring devices used for obtaining accurate temperatures instantaneously without having to contact the object being measured. It works by capturing and measuring the invisible infrared energy naturally emitted from all objects. It offers an easy and safe method to instantaneously measure surface temperatures of objects which are difficult or unsafe to contact.

The "Heat Seeker™" has a rugged, ergonomic design and features a backlit LCD display with built-in laser sighting. The IRT206 has a measurement range of -4° to 604°F (-20° to 317°C) and utilizes a switchable on/off laser pointer for target location. The practical distance-to-spot (DS) ratio of 8:1 is suitable for most consumer and commercial applications.

12:1 LOW TEMPERATURE REFRIGERATION, A/C AND FOOD SERVICE INFRARED THERMOMETER

Ideal for subcooling applications, particularly food service, refrigeration and air conditioning.

• Switchable ON/OFF Laser sighting
• °F/°C switchable
• Backlit LCD Display
• Auto Measuring
• Extended, long time measuring reliability
• Temperature data storage
• Low Battery indication
• Ultra-low power consumption in shutdown mode
• Electronic trigger lock
• Ergonomic design
• Auto off
• CE, RoHS, WEEE approved

♦ Distance to Spot (DS) ratio: 12:1
♦ Range: -58° to 600°F (-50° to 316°C)
♦ Emissivity: Fixed at 0.97
♦ Accuracy (@ ambient temperature of 77°F/25°C):
 ±5°F (±3°C) within -58° to -22°F (-50° to -30°C)
 ±3°F (±2°C) within -22° to 212°F (-30° to 100°C)
 ±2% within 212° to 600°F (100° to 316°C)
♦ Thermopile: 8 ~ 14μm
♦ Repeatability: ±2°F (±1°C)
♦ Resolution: 0.1°F (0.1°C)
♦ Response Time: 500 ms.
♦ Operating Temperature: 32° to 122°F (0° to 50°C), 10 to 90%RH
♦ Auto Power Off: Automatically after approx. 6 seconds
♦ Battery Life: 16 hours
♦ Dimensions: 6.69 x 5.23 x 1.77 in. (170 x 133 x 45mm)
♦ Weight: 5.8 oz. (163g) Approx.
♦ Power Source: 1 "9V" battery (included)
Includes: • Instruction manual
 • Soft carrying case

UPC	NO.
40656 4	**IRT656**

IRT656

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

FEATURES

SPECIFICATIONS

12:1 INFRARED THERMOMETER WITH "K" PORT AND AUTO ADJUSTABLE EMISSIVITY

Ideal to use in building and plant maintenance, hazardous environments and most industrial jobs.

- Switchable ON/OFF Laser sighting
- °F/°C switchable
- High/Low Audible Alarm
- Backlit LCD Display
- Max/Min/Avg
- Auto Measuring
- Extended, long time measuring reliability
- Low Battery indication
- Ultra-low power consumption in shutdown mode
- Electronic trigger lock
- Ergonomic design
- E-Smart: Automatic emissivity adjustment for accurate measurement
- CIS: Temperature sensitivity color LCD display alert
- Auto off
- CE, RoHS, WEEE approved

♦ Distance to Spot (DS) ratio: 12:1
♦ Range: -25° to 999°F (-32° to 535°C)
♦ Emissivity: Adjustable 0.1 to 1.0
♦ Accuracy (@ ambient temperature of 77°F/25°C): ±5°F (±3°C) within -25° to -4°F (-32° to -20°C) ±3°F (±2°C) within -4° to 212°F (-20° to 100°C) ±2% within 212° to 999°F (100° to 535°C)
♦ Thermopile: 5 ~ 14μm
♦ Repeatability: ±2°F (±1°C)
♦ Resolution: 0.1°F (0.1°C)
♦ Response Time: 500 ms.
♦ Operating Temperature: 32° to 122°F (0° to 50°C), 10 to 95%RH
♦ Auto Power Off: Automatically after approx. 6 seconds
♦ Thermocouple Range: -328° to 2516°F (-200° to 1380°C)
♦ Thermocouple Accuracy: ±1° °F/°C
♦ Dimensions: 7.09 x 5.12 x 1.57 in. (180 x 130 x 40mm)
♦ Weight: 6.9 oz. (195g) Approx.
♦ Power Source: 1 "9V" battery (included)
♦ Optional: "K" type probe
Includes: • Instruction manual
　　　　　• Soft carrying case

UPC	NO.
40642 7	**IRT642**

NEW!

CE RoHS

IRT642

12:1 WIDE-RANGE INFRARED THERMOMETER

Primarily used in HVAC/R and automotive applications.

- Switchable ON/OFF Laser sighting
- °F/°C switchable
- Backlit LCD Display
- Auto Measuring
- Extended, long time measuring reliability
- Temperature Data Storage
- Low Battery indication
- Ultra-low power consumption in shutdown mode
- Electronic Trigger Lock
- Auto off
- CE, RoHS, WEEE approved

♦ Distance to Spot (DS) ratio: 12:1
♦ Range: -25° to 999°F (-32° to 535°C)
♦ Emissivity: Fixed at 0.95
♦ Accuracy (@ ambient temperature of 77°F/25°C): ±5°F (±3°C) within -25° to -4°F (-32° to -20°C) ±3°F (±2°C) within -4° to 212°F (-20° to 100°C) ±2% within 212° to 999°F (100° to 535°C)
♦ Thermopile: 5 ~ 14μm
♦ Repeatability: ±2°F (±1°C)
♦ Resolution: 0.1°F (0.1°C)
♦ Response Time: 500 ms.
♦ Operating Temperature: 32° to 122°F (0° to 50°C), 10 to 90%RH
♦ Auto Power Off: Automatically after approx. 6 seconds
♦ Battery Life: 16 hours
♦ Dimensions: 6.69 x 5.23 x 1.77 in. (170 x 133 x 45mm)
♦ Weight: 5.8 oz. (163g) approx.
♦ Power Source: 1 "9V" battery (included)
Includes: • Instruction manual
　　　　　• Soft carrying case

UPC	NO.
40650 2	**IRT650**

NEW!

CE RoHS

IRT650

TEMPERATURE

IRT653

CE RoHS

IRT670

CE RoHS

FEATURES

12:1 WIDE-RANGE INFRARED THERMOMETER WITH ADJUSTABLE EMISSIVITY, MEMORY AND ALARM

Primarily used in HVAC/R and other general industrial applications. Adjustable emissivity makes it ideal for almost any material to be measured.

- Switchable ON/OFF Laser sighting
- °F/°C switchable
- High/Low Audible Alarm
- Backlit LCD Display
- Min/Max/Avg/ΔT
- Auto Measuring
- Extended, long time measuring reliability
- Temperature Data Storage
- Low Battery indication
- Ultra-low power consumption in shutdown mode
- Electronic Trigger Lock
- Ergonomic design
- Auto off
- CE, RoHS, WEEE approved

SPECIFICATIONS

- ♦ Distance to Spot (DS) ratio: 12:1
- ♦ Range: -25° to 999°F (-32° to 535°C)
- ♦ Emissivity: Adjustable 0.1 to 1.0
- ♦ Accuracy:
  (@ ambient temperature of 77°F/25°C)
  ±5°F (±3°C) within -25° to -4°F
  (-32° to -20°C)
  ±3°F (±2°C) within -4° to 212°F
  (-20° to 100°C)
  ±2% within 212° to 999°F (100° to 535°C)
- ♦ Thermopile: 5 ~ 14μm
- ♦ Repeatability: ±2°F (±1°C)
- ♦ Resolution: 0.1°F (0.1°C)
- ♦ Response Time: 500 ms.
- ♦ Operating Temperature:
  32° to 122°F (0° to 50°C), 10 to 90%RH
- ♦ Auto Power Off: Automatically after approx. 6 seconds
- ♦ Battery Life: 16 hours
- ♦ Dimensions:
  6.69 x 5.23 x 1.77 in. (170 x 133 x 45mm)
- ♦ Weight: 6.6 oz. (187g) Approx.
- ♦ Power Source: 1 "9V" battery (included)
- Includes: • Instruction manual
  • Soft carrying case

UPC	NO.
40653 3	**IRT653**

30:1 HIGH-PERFORMANCE ULTRA WIDE-RANGE INFRARED THERMOMETER

High precision and high performance unit, can be used in most industrial applications, including furnaces and heat exchangers.

- Switchable ON/OFF Laser sighting
- °F/°C switchable
- High/Low Audible Alarm
- Backlit LCD Display
- Min/Max/Avg
- Auto Measuring
- Extended, long time measuring reliability
- 10 point memory
- Temperature data storage
- Low Battery indication
- Ultra-low power consumption in shutdown mode
- Electronic trigger lock
- Ergonomic design
- Auto off
- CE, RoHS, WEEE approved

- ♦ Distance to Spot (DS) ratio: 30:1
- ♦ Range: -25.6° to 1400°F (-32° to 760°C)
- ♦ Emissivity: Adjustable 0.1 to 1.0
- ♦ Accuracy:
  (@ ambient temperature of 77°F/25°C)
  ±5°F (±3°C) within -25.6° to -4°F
  (-32° to -20°C)
  ±3°F (±2°C) within -4° to 212°F
  (-20° to 100°C)
  ±2% within 212° to 1400°F (100° to 760°C)
- ♦ Thermopile: 8 ~ 14μm
- ♦ Repeatability: ±2°F (±1°C)
- ♦ Resolution: 0.1°F (0.1°C)
- ♦ Response Time: 500 ms.
- ♦ Operating Temperature:
  32° to 122°F (0° to 50°C), 10 to 90%RH
- ♦ Auto Power Off: Automatically after approx. 6 seconds
- ♦ Battery Life: 16 hours
- ♦ Dimensions:
  7.8 x 6.5 x 2 in. (200 x 166 x 51mm)
- ♦ Weight: 10.6 oz. (300g) Approx.
- ♦ Power Source: 1 "9V" battery (included)
- Includes: • Instruction manual
  • Carrying case

UPC	NO.
40670 0	**IRT670**

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

Infrared Thermometers

FEATURES　　　　　　　**SPECIFICATIONS**

50:1 HIGH-PERFORMANCE ULTRA WIDE-RANGE INFRARED THERMOMETER

High precision and high performance unit, can be used in hazardous, superheated, subcooled, and other challenging industrial applications.

- Switchable ON/OFF Laser sighting
- °F/°C switchable
- High/Low Audible Alarm
- Backlit LCD Display
- Min/Max/Avg/∆T
- Auto Measuring
- Extended, long time measuring reliability
- 10 point memory
- Temperature data storage
- Low Battery indication
- Ultra-low power consumption in shutdown mode
- Electronic trigger lock
- Ergonomic design
- Auto off
- CE, RoHS, WEEE approved

♦ Distance to Spot (DS) ratio: 50:1
♦ Range: -25.6° to 2372°F (-32° to 1300°C)
♦ Emissivity: Adjustable 0.1 to 1.0
♦ Accuracy:
  (@ ambient temperature of 77°F/25°C)
  ±5°F (±3°C) within -25.6° to -4°F
  (-32° to -20°C)
  ±3°F (±2°C) within -4° to 212°F
  (-20° to 100°C)
  ±2% within 212° to 2372°F (100° to 1300°C)
♦ Thermopile: 8 ~ 14µm
♦ Repeatability: ±2°F (±1°C)
♦ Resolution: 0.1°F (0.1°C)
♦ Response Time: 500 ms.
♦ Operating Temperature:
  32° to 122°F (0° to 50°C), 10 to 90%RH
♦ Auto Power Off: Automatically after approx. 6 seconds
♦ Battery Life: 16 hours
♦ Dimensions:
  7.8 x 6.5 x 2 in. (200 x 166 x 51mm)
♦ Weight: 9.9 oz. (280g) Approx.
♦ Power Source: 1 "9V" battery (included)
Includes: • Instruction manual
　　　　　• Carrying case

UPC	NO.
40677 9	**IRT675**

NEW!

IRT675

CE
RoHS

50:1 DATA LOGGING HIGH-RANGE INFRARED THERMOMETER

Extremely high range and DS ratio, ideal for use in superheated and subcooled applications.

- Data hold
- Ergonomic hand grips
- 10 point data memory
- 4 digit backlit dual display
- Auto power off
- Adjustable laser sight
- °F/°C selectable
- Min/Max/Avg and differential
- Audible alarm
- Low battery indication
- CE and RoHS approved

♦ Distance to Spot (DS) ratio: 50:1
♦ Range: -58° to 1832°F (-50° to 1000°C)
♦ Emissivity: Adjustable 0.1 to 1.1
♦ Dimensions:
  7.9 x 5 x 1.9 in. (200 x 127 x 47mm)
♦ Weight: 11.7 oz. (330g)
♦ Power Source: 1 "9V" battery (included)
Includes: • Data logger software
　　　　　• 1 "K" probe
　　　　　• Molded hard case
　　　　　• Software
　　　　　• Cable

UPC	NO.
52046 0	**IRT500DL**
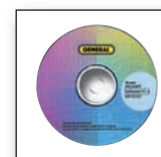
CE
RoHS
IRT500DL

6:1 POCKET HVAC/R GENERAL PURPOSE INFRARED THERMOMETER

Convenient and accurate measurement in most HVAC/R application and industrial jobs.

- Easy to use
- Auto power off
- Lock function
- Min/Max readings
- Fits in your pocket
- CE approved

♦ Distance to Spot (DS) ratio: 6:1
♦ Range: -67° to 482°F (-55° to 250°C)
♦ Emissivity: Fixed at 0.95
♦ Accuracy: ±0.6 °F/°C
♦ Response time: 1 second
♦ Dimensions:
  4.1 x 2 x 0.7 in. (104 x 51 x 18mm)
♦ Weight: 4.6 oz. (130g)
♦ Power Source: 2 "CR2032" batteries (included)
Includes: • Neck strap

UPC	NO.
20199 2	**IRT203**

CE
IRT203

"It's Your Job . . . General Tools Make It Easier"　　**I-33**

TEMPERATURE

TEMPERATURE

FEATURES

SPECIFICATIONS

IRT105

1:1 HEAT CHECK MINI INFRARED
Ideal for most HAVC/R job sites. Compact size.

- Ideal for landlord/tenant disputes
- Easy to use
- Auto power off
- Lock function
- Min/Max readings
- Fits in your pocket
- CE approved

♦ Distance to Spot (DS) ratio: 1:1
♦ Range: -27° to 428°F (-33° to 220°C)
♦ Emissivity: Default at 0.95, Adjustable 0.05
♦ Accuracy: ±-0.6 °C/°F
♦ Response time: 1 second
♦ Dimensions:
  2.7 x 1.5 x 0.7 in. (68 x 37 x 18mm)
♦ Weight: 2.7 oz. (76g)
♦ Power Source: 2 "CR2032" batteries
  (included)
Includes: • Wrist strap

UPC	NO.
20196 1	**IRT105**

IRT305K

8:1 STICK STYLE WIDE-RANGE INFRARED WITH "K" TYPE PORT
Ideal for applications in HVAC/R, automotive, electrical and other industrial jobs.

- Laser sighting
- "K" type port
- Bright backlight
- Average/high/low
- Alarm function
- °F/°C switch
- Auto power off
- Min/Max readings
- Lock function
- CE approved

♦ Distance to Spot (DS) ratio: 8:1
♦ Range: -76° to 932°F (-60° to 500°C)
♦ Emissivity: Fixed at 0.95
♦ "K" port thermocouple range:
  -832° to 1990°F (-64° to 1400°C)
♦ Accuracy: ±2° °F/°C
♦ Response time: 1 second
♦ Dimensions:
  5.4 x 1.7 x 1.2 in. (138 x 43 x 30mm)
♦ Weight: 3.1 oz. (88g)
♦ Power Source: 1 "9V" battery (included)
Includes: • Wrist strap

UPC	NO.
20205 0	**IRT305K**

IRT40-20WR

20:1 HIGH-RANGE INFRARED THERMOMETER WITH "K" TYPE PORT
High Temperature Range, 20:1 DS ratio, suitable for superheated and subcooled applications.

- Dual purpose thermometer with infrared
  and contact functions
- Auto power off
- Low battery indication
- "K" type thermocouple port
- °F/°C selectable
- High and low temperature alarm
- Min/Max modes
- Differential and average temperature
  functions
- Low battery indication
- CE approved

♦ Distance to Spot (DS) ratio: 20:1
♦ Range: -76° to 1400°F (-60° to 760°)
♦ Emissivity: Adjustable 0.1 to 1.0
♦ "K" type range:
  -83° to 1999°F (-64° to 1400°C)
♦ Response time: 1 sec
♦ Dimensions:
  6.9 x 2.8 x 1.5 in. (175 x 72 x 39mm)
♦ Weight: 10.1 oz. (285g)
♦ Power Source: 2 "AAA" batteries (included)

UPC	NO.
20350 7	**IRT40-20WR**

6:1 ECONOMY GUN STYLE INFRARED THERMOMETER WITH LASER
Ideal to use in HVAC/R and automotive applications.

- Precise non-contact measurement
- Laser target pointer
- Backlight
- °F/°C selectable
- Auto power off
- Jumbo LCD display
- Lightweight
- Ideal for measuring hot or moving objects
- CE approved

♦ Distance to Spot (DS) ratio: 6:1
♦ Range: -4° to 500°F (-20° to 260°C)
♦ Emissivity: Fixed at 0.95
♦ Accuracy: ±3%
♦ Resolution: 1°
♦ Response time: 500 m/sec
♦ Dimensions:
6.25 x 3.11 x 2.25 in. (159 x 79 x 57mm)
♦ Weight: approx. 6.3 oz. (179g)
♦ Power Source: 1 "9V" battery (included)
Includes: • Wrist strap
        • Carrying case

UPC	NO.
20880 9	**IRT2**

IRT2

FEATURES

SPECIFICATIONS

25:1 HACCP FOOD SERVICE INFRARED THERMOMETER WITH CONTACT PROBE

Primarily used for food service.

- Hazard Analysis and Critical Control Point (HACCP) check mode features 3 visible LED icons to indicate whether the temperature is within FDA guidelines for frozen or hot foods
- Non-contact infrared for surface temperature and an attached stainless steel probe for internal temperature
- Min/Max mode
- Lock mode for continuous readings of up to 30 minutes for infrared temperatures and 4 minutes for internal readings
- °F/°C selectable
- Adjustable emissivity
- Auto power off
- CE approved

♦ Distance to Spot (DS) ratio: 25:1
♦ Infrared Range:
  -67° to 572°F (-55° to 250°C)
♦ Infrared Accuracy: 1.8°F up to 150°F, ±1.5% of reading thereafter
♦ Infrared Resolution: .5°F (.2°C)
♦ Contact Probe Range: -67° to 626°F (-55° to 330°C)
♦ Contact Probe Accuracy: Below 23°F: 1.8°F, 23° to 150°F: 0.8°F, Above 150°F: ±1% of reading
♦ Dimensions:
  .87 x 1.5 x 7.48 in. (22 x 38 x 190mm)
♦ Weight with battery: 3.15 oz. (80g)
♦ Power Source: 1 "9V" battery (included)

UPC	NO.
20303 0	IRT303HACCP

IRT303HACCP

8:1 GUN-STYLE INFRARED THERMOMETER WITH LASER

Wide temperature range and high DS ratio allowing more applications in HVAC/R, automotive, electrical and other industrial jobs.

- Precise non-contact measurement
- Laser target pointer
- Automatic data hold
- Bright backlight
- °F/°C selectable
- Auto power off
- Ideal for measuring very hot or moving objects
- CE approved

♦ Distance to Spot (DS) ratio: 8:1
♦ Range: -4° to 788°F (-20° to 420°C)
♦ Emissivity: Fixed at 0.95
♦ Accuracy: ±4°F (2°C), ±2% of reading
♦ Response time: 500 m/sec
♦ Resolution: 1°
♦ Dimensions:
  6.7 x 1.7 x 1.6 in. (170 x 43 x 41mm)
♦ Weight: approx. 4.9 oz. (139g)
♦ Power Source: 1 "9V" battery (included)
Includes: • Carrying case
          • Lanyard

UPC	NO.
20900 4	IRT4

IRT4

MINI STYLE INPUT WIDE-RANGE DATA LOGGING THERMOMETER

For use in labs, industrial control and audits and measuring surface temperature.

- Small size
- Auto ranging
- Auto power off
- Min/Max memory
- Data hold
- °F/°C switch
- Easy-to-use
- Calibration screw
- CE approved

♦ Range: -328° to 2498°F (-200° to 1370°C)
♦ Accuracy: ±0.3% of reading
♦ Resolution 0.1°F (0.1°C)
♦ Sampling rate: 2.5 times/second
♦ Dimensions:
  6.5 x 2.3 x 1.25 in. (165 x 58 x 41mm)
♦ Power Source: 1 "9V" battery (included)
Includes: • Carrying case
          • 1 "K" type beaded tip probe (TPK500)

UPC	NO.
21020 8	DT307-2.5

DT307-2.5

Professional Hand-Held Thermometers

GENERAL®

TEMPERATURE

FEATURES

SPECIFICATIONS

WIDE RANGE DUAL PORT DIGITAL THERMOMETER WITH BOOT

For use in labs, industrial control and audits, measuring differential temperature T1/T2 and "K" & "J" thermocouple inputs.

- Jumbo Display with four digit LCD
- Dual Channel "K" type ports T1/T2
- Accepts "K" and "J" thermocouples
- Fast response
- Hi/Lo temperature alarm
- Temperature hold
- Min/Max/Avg
- Clock setting
- Relative temperature mode
- Low Battery and Overload indicators
- Auto Power off
- Protective rubber housing
- Instrument displays in °F/°C/Kelvin- absolute temperature

♦ Range: "K" -148° to 2372°F
  "J" range -148° to 1832°F
♦ Temperature Accuracy: ± 0.1% + 1°F
♦ Temperature resolution:
  0.1° up to 99.9° and 1° thereafter
♦ Sampling rate: 1 second
♦ Battery Life: 550 hours
♦ Operating Conditions:
  32° to 122°F, 0-80%RH
♦ Storage Conditions: -4° to 140°F, 0-80%RH
♦ Dimensions:
  6.5 x 3.0 x 13 in. (164 x 76 x 32mm)
♦ Weight: 15 oz. (415g) with batteries
♦ Power Source: 4 "AAA" batteries (included)
Includes: • 2 "K" type beaded thermocouples
  (TPK500)
  • Protective Boot

UPC	NO.
21009 3	**DT721**

DT721

DIGITAL THERMOMETER WITH ONE "K" TYPE PROBE AND CASE

For use in labs, industrial control and audits and measuring differential temperature T1/T2.

- Single probe input
- Accepts "K" type thermocouple probes
- Data hold
- Max hold
- °F/°C switch
- Auto power off
- CE and RoHS approved

♦ Range: -58° to 2000°F (-50° to 1093°C)
♦ Accuracy: ±1.8°F from -22° to 302°F
  ±4°F at all other ranges;
  ±1°C from -30° to 150°C;
  ±2°C at all other ranges
♦ Probe length: 5 in. with 3 ft. cord
♦ Power Source: 1 "9V" battery (included)
Includes: • Molded hard case
  • 1 "K" type beaded tip probe
  (TPK500)

UPC	NO.
21005 5	**DT8801**

CE
RoHS
DT8801

WATERPROOF DIGITAL THERMOMETER

For use in labs, industrial control and audits and measuring differential temperature T1/T2.

- Waterproof
- Temperature °F/°C selectable
- Single input
- IP66 waterproof rating design
- Auto ranging
- Backlight
- Auto power off
- Min/Max Memory
- Keypad
- CE and RoHS approved

♦ Range: -328° to 2372°F (-200° to 300°C)
♦ Accuracy:±1.8°F (±1°C)
♦ Sampling rate: 2.5 per sec.
♦ Power Source: 1 "9V" battery (included)
Includes: • Molded hard case
  • Waterproof "K" probe with boot
  (TPK500)

UPC	NO.
21090 1	**DT8811WP**

CE
RoHS
DT8811WP

ALWAYS WEAR
OSHA APPROVED
SAFETY GOGGLES

Professional Hand-Held Thermometers

FEATURES   **SPECIFICATIONS**

DIGITAL THERMOCOUPLE THERMOMETER

For use in labs, industrial control and audits and measuring differential temperature T1/T2.

- Dual probe input
- Accepts "K", "J" & "T" type probes
- T1/T2 temperature differential
- Data hold
- Record feature
- Relative clock
- °F/°C switch
- Backlight
- Auto power off
- Low battery indicator
- RS-232 computer interface
- Replaces DT8803
- CE and RoHS approved

♦ "K" type temperature range: -328° to 2498°F (-200° to 1370ºC)
♦ Accuracy: 0.1% (±1°F)
♦ Resolution: 0.1 to 1
♦ Response time: 1 sec.
♦ Dimensions: 7.16 x 2.83 x 1.18 in. (182 x 72 x 30mm)
♦ Power Source: 1 "9V" battery (included)
Includes: • 2 "K" type probes (TPK500) • Molded hard case

UPC	NO.
21012 3	DT8852
12710 0	ASFT KIT PC Interface Kit (Optional)

RoHS
DT8852

DIGITAL PLATINUM RTD THERMOMETER/DATA LOGGER

For use in labs, industrial control.

- Pt 3916/3926/385 RTD standard
- Stand-alone logging function 97 sets
- 4,200 data logging capacity
- Warning beeper with high/low setting
- Max/min with Time, Max-Min, Average, Hold
- C/F/K user selectable
- Backlight LCD display
- CE approved

♦ "K" type temperature range: -328° to 2498°F (-200° to 1370ºC)
♦ Accuracy: 0.1% (±1°F)
♦ Resolution: 0.1 to 1
♦ Response time: 1 sec.
♦ Dimensions: 7.16 x 2.83 x 1.18 in. (182 x 72 x 30mm)
♦ Power Source: 6 "AAA" batteries (included)
Includes: • Software • RS232 cable • Manual

UPC	NO.
21030 7	PRDT1317DL

PRDT1317DL

WATERPROOF KEY PAD THERMOMETER WITH ALARM

Ideal for reading surface temperature where water is present, such as aquarium maintenance, whirlpool therapy and pool maintenance.

- High and low alarm function
- Min/Max memory recall feature
- Temperature °F/°C selectable
- Data hold/test function
- 1 second sensing time
- Stainless steel sensor probe
- Auto power off
- Protective plastic cap for probe
- Pocket clip and stand on back
- Sensor wire compartment
- CE approved

♦ Range: -58° to 302°F (-50° to 150ºC)
♦ Accuracy:±1.8°F (±1°C)
♦ Probe length: 5 in. with 3 ft. cord
♦ Power Source: 1 "LR44" battery (included)

UPC	NO.
21070 3	DKP300MA

DKP300MA

DIGITAL JUMBO DISPLAY SERVICE THERMOMETER

For use in labs, industrial control and food service applications.

- Displays ambient temperature and remote temperature via probe
- Temperature alarm function with high and low limits
- Audible and visual alarm set points
- Probe is immersible in water
- Clock displays hours and minutes
- Sensor wire compartment
- CE approved

♦ Resolution: 0.1°
♦ Accuracy: ±1.8°F (±1°C)
♦ Response time: 1 second
♦ Probe length: 5.125 in.
♦ Power Source: 1 "AAA" battery (included)
Includes: • Wrist strap

UPC	NO.
21060 4	PT300M

PT300M

Range: -58° to 302°F (-50° to 150ºC)

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"K" Type Probes

GENERAL®

All "K" type probes fit and work with: DT8801, DT8803, DT307-2.5, DT8852, DT721, DT306DL, DT309DL, DT8811WP

GENERAL PURPOSE "K" TYPE PROBE WITH CORD
• Range: -58° to 482°F (-50° to 250°C)
• Probe length: 3.75 in.
• Cord length: 4 ft.

UPC	NO.
25001 3	TPK02

TPK02

HIGH TEMPERATURE PROBE WITH CORD
• Molten metal probe
• For high temperatures
• Range: Up to 2500°F (1347°C)
• Wire length: 2 ft.

UPC	NO.
25080 8	TPK2500
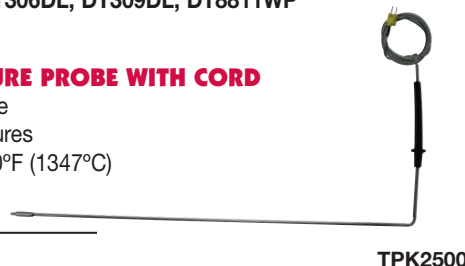
TPK2500

AIR TYPE PROBE WITH CORD
• Range: -40° to 950°F (-40° to 510°C)
• Probe length: 8 in.
• Cord length: 4 ft.

UPC	NO.
25004 4	TPK04

TPK04

SURFACE SENSOR "K" TYPE PROBE WITH CORD
• Range: -40° to 950°F (-40° to 510°C)
• Probe length: 8 in.
• Cord length: 4 ft.

UPC	NO.
25003 7	TPK03

TPK03

GENERAL PURPOSE BEADED TIP PROBES
• TPK500: -50° to 500°F (-45° to 260°C)
  TPK900: Up to 900°F (482°C)
• Wire length: 3.125 ft.

TPK500
TPK900

UPC	NO.
25015 0	TPK500
25020 4	TPK900 (Hi Temp)
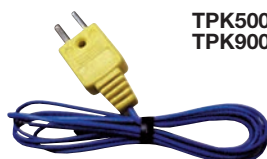
PIERCING "K" TYPE PROBE WITH CORD
• Range: -40° to 1562°F (-40° to 850°C)
• Probe length: 8 in.
• Cord length: 4 ft.

UPC	NO.
25005 1	TPK05

TPK05

EXPOSED TIP "K" TYPE PROBE WITH CLAMP
• Range: -58° to 1202°F (-50° to 650°C)
• Wire length: 6 ft.

UPC	NO.
25060 0	TPKPP

TPKPP

BEADED TIP "K" TYPE PROBE WITH OVEN CLIP
• Range: -40° to 950°F (-40° to 510°C)
• Heavy duty clip
• Wire length: 4 ft.

UPC	NO.
52504 0	OC119

OC119

PLUG-IN "K" TYPE SURFACE PROBE
• Range: -40° to 950°F (-40° to 510°C)
• Probe length: 8 in.
• Best if used with probe extender, Model TPKH

UPC	NO.
25045 7	SSP144
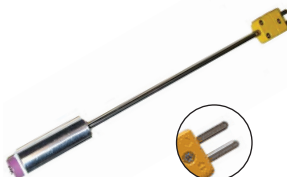
SSP144

PLUG-IN "K" TYPE PIERCING PROBE
• Range: -40° to 1562°F (-40° to 850°C)
• Probe length: 8 in.
• Best if used with probe extender, Model TPKH

UPC	NO.
25050 1	SSP145

SSP145

PLUG-IN "K" TYPE AIR PROBE
• Range: -40° to 500°F (-40° to 260°C)
• Probe length: 8 in.
• Best if used with probe extender, Model TPKH

UPC	NO.
25055 6	SSP146
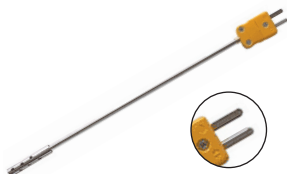
SSP146

"K" TYPE THERMOCOUPLE PROBE EXTENDER
• Extender with handle for use with interchangeable probe tips
• Cord length: 4 ft.

UPC	NO.
25070 9	TPKH

TPKH

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

Digital Stem Thermometers

FEATURES   **SPECIFICATIONS**

DIGITAL THERMOMETER

- Auto power off
- °F/°C switch
- Food safe stainless steel 5 in. stem

♦ Resolution: ± 0.1°
♦ Accuracy: ±1.8°F (±1°C)
♦ Power Source: 1 "LR44" battery (included) plus 1 Extra "LR44" battery (included)

UPC	NO.
20033 9	**DPT300E**

Range: -40° to 302°F (-40° to 150°C)

DPT300E

DIGITAL THERMOMETER

- Instant Read
- °F/°C selectable
- Food Safe
- Stainless Steel
- 4.5 in. (114mm) Stem
- Flat Edge, Non-Roll Case

♦ Temperature Range: -40° to 302°F (-40° to 150°C)
♦ Resolution: ±0.1°
♦ Accuracy: ±1.8°F (±1°C)
♦ Probe Length: 4.5 in. (114mm)
♦ Power Source: 1 "LR44" battery (included)

UPC	NO.
20035 3	**DPT301FC**

DPT301FC

WATER RESISTANT DIGITAL STEM THERMOMETER

- On/off switch
- °F/°C switch
- Min/Max memory
- Pocket clip

♦ Resolution: ±0.1°
♦ Accuracy: ±1.8°F (±1°C)
♦ Sampling Rate: 1 second
♦ Power Source: 1 "LR44" battery (included)

UPC	NO.
20050 6	**DPT392FC**
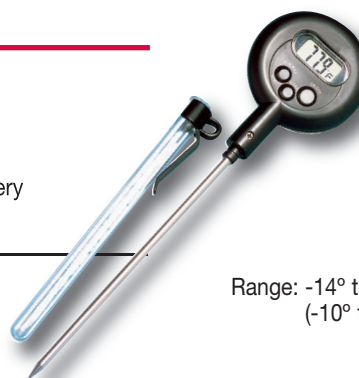
Range: -14° to 392°F (-10° to 200°C)

DPT392FC

SURFACE DIGITAL STEM THERMOMETER

- On/off Switch
- °F/°C switch
- Pocket clip
- Replaces DST300

♦ Resolution: ±0.1°
♦ Accuracy: ±1.8°F (1°C)
♦ Sampling Rate: 1 second
♦ Power Source: 1 "LR44" battery (included)

UPC	NO.
20075 9	**DST570**
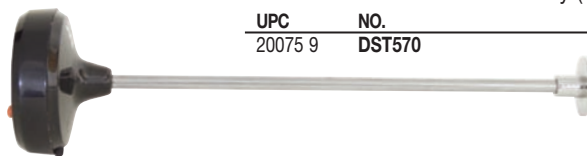
DST570

Range **DST570**:
-50° to 572°F (-50° to 300°C)

LAB DIGITAL STEM THERMOMETERS

- On/off switch
- Auto power off
- °F/°C switch
- Pocket clip

♦ Resolution: ±0.1°
♦ Accuracy: ±2.5°F (2°C)
♦ Sampling Rate: .0.5 seconds
♦ Power Source: 1 "LR44" battery (included)

UPC	NO.
20135 0	**DT310LAB**
20140 4	**DT510LAB**
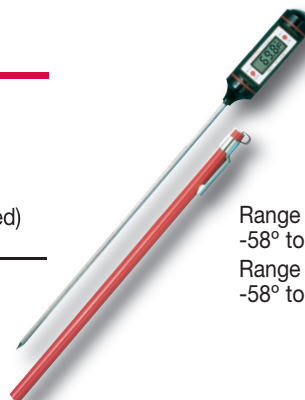
Range **DT310LAB**:
-58° to 302°F (-50° to 150°C)
Range **DT510LAB**:
-58° to 536°F (-50° to 280°C)

DT310LAB
DT510LAB

"It's Your Job . . . General Tools Make It Easier"   **I-39**

FEATURES   **SPECIFICATIONS**

T-HANDLE DIGITAL STEM THERMOMETERS

DT320TH
DT520TH

- On/Off Switch
- °F/°C switch
- Pocket clip

♦ Resolution: ±0.1-1°
♦ Accuracy: ±1.8°F (1°C)
♦ Sampling Rate: 1 second
♦ Power Source: 1 "LR44" battery (included)

UPC	NO.
20150 3	**DT320TH**
20160 2	**DT520TH**

Range **DT320TH**:
-58° to 302°F (-50° to 150°C)
Range **DT520TH**:
-58° to 536°F (-50° to 280°C)

Range **DT340RH**:
-58° to 572°F (-50° to 300°C)
Range **DT540RH**:
-58° to 536°F (-50° to 280°C)

DTH340RH
DTH540RH

ROTARY HEAD DIGITAL STEM THERMOMETERS

- On/Off switch
- Auto power off
- °F/°C switch
- Pocket clip

♦ Resolution: ±0.1°
♦ Accuracy: ±2°F (1°C)
♦ Power Source:
  1 "CR2023" battery (included)

UPC	NO.
20115 2	**DT340RH** includes 1 extra battery
20120 6	**DT540RH**

WATERPROOF HI-TEMP DIGITAL STEM THERMOMETER

- On/Off switch
- °F/°C switch
- Min/Max memory
- Data hold switch
- Pocket clip
- Cover fits on back for additional length

♦ Range: -58° to 572°F (-50° to 300°C)
♦ Accuracy: ±3°F (2°C)
♦ Sampling Rate: 1 second
♦ Power Source: 1 "CR2023" battery
  (included)

UPC	NO.
20145 9	**DT572WPB**

DT572WPB

Range:
-580° to 572°F (-50° to 300°C)

DT605MFC
DT655HFC

WATERPROOF KEY PAD DIGITAL STEM THERMOMETERS

DT605MFC
- On/Off Switch
- Auto power off
- Min/Max memory
♦ Accuracy: ±1.8°F
♦ Resolution: 0.1-1°
♦ Power Source: 1 "LR44" battery (included)

UPC	NO.
20165 7	**DT605MFC**

DT655HFC
- On/Off Switch
- Auto power off
- °F/°C switch
♦ Accuracy: ±8°F (6°C)
♦ Resolution: 0.1-1°
♦ Power Source: 1 "LR44" battery (included)

UPC	NO.
20170 1	**DT655HFC**

Range **DT605MFC**
-58° to 302°F (-50° to 150°C)
Range **DT655HFC**
-58° to 536°F (-50° to 280°C)

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SAFETY GOGGLES

Digital Stem Thermometers

FEATURES   **SPECIFICATIONS**

KEY PAD DIGITAL STEM THERMOMETERS

DT610MF
- On/Off Switch
- Auto power off
- ºF/ºC switch
- Min/Max memory
- Resolution: 0.1-1º
- Accuracy: ±1.8ºF (1ºC)
- Power Source: 1 "LR44" battery (included)

UPC	NO.
20175 6	**DT610MF**

DT618HF
- On/Off Switch
- Auto power off
- Resolution: 0.1-1
- Accuracy: ±8ºF (6ºC Avg)
- Power Source: 1 "LR44" battery (included)

UPC	NO.
20185 5	**DT618HF**

DT610MF

Range: -58º to 302ºF (-50º to 150ºC)

DT618HF

Range: -58º to 536ºF (-50º to 300ºC)

DELUXE DIGITAL STEM THERMOMETER
Ideal for Household and Commercial Uses.

- Temperature hold switch
- Auto power off
- ºF/ºC switch
- Pocket clip
- Drop Resistant

- Temperature Range: -40º to 302ºF (-40º to 150ºC)
- Resolution: ± 0.1º
- Accuracy: ± 1.8ºF (±1ºC)
- Probe Length: 2.5 in. (64mm)
- Power Source: 1 "LR44" battery (included)

UPC	NO.
20005 6	**HDT303K**

HDT303K

Range: -40º to 302ºF (-40º to 150ºC)

DELUXE DIGITAL STEM THERMOMETER
Ideal for Food Preparation, Household, Manufacturing, Photography, Hobby, Automotive, Heating, Refrigeration.

- Temperature hold switch
- Auto power off
- ºF/ºC switch
- Pocket clip
- Drop Resistant

- Temperature Range: -40º to 302ºF (-40º to 150ºC)
- Resolution: ± 0.1º
- Accuracy: ± 1.8ºF (±1ºC)
- Probe Length: 2.5 in. (64mm)
- Power Source: 1 "LR44" battery (included)

UPC	NO.
20005 6	**HDT304K**

HDT304K

Range: -40º to 302ºF (-40º to 150ºC)

HVAC/R DIGITAL STEM THERMOMETER

- On/Off switch
- ºF/ºC switch
- Data hold switch
- Pocket clip
- Velcro strip for pipes
- Magnetic back for grilles and registers

- Resolution: ±0.1º
- Accuracy: ±1.8ºF (1ºC)
- Sampling Rate: 1 second
- Power Source: 1 "LR44" battery (included)

UPC	NO.
20006 3	**YHDT303KVM**

NEW!

YHDT303KVM

Range:-40 to 302ºF (-40 to 150ºC)

Analog Food Service Thermometers

GENERAL®

FEATURES

SPECIFICATIONS

HORIZONTAL REFRIGERATOR AND FREEZER THERMOMETER

• Horizontal reading
• Hanging or free standing
• Easy to read display
• °F/°C scales

♦ Range:
  -20° to 80°F (-48° to 27°C)
♦ Dimensions:
  1.25 x 4.75 x 0.75 in. (32 x 121 x 19mm)

UPC	NO.
24015 1	**FT80H**

FT80H

REFRIGERATOR/FREEZER THERMOMETER

• Stainless steel
• Hanging or free standing
• Easy-to-read round dial
• °F/°C scales
• Temperature Indicators

♦ Range:
  -20° to 80°F (-29° to 27°C)
♦ Dial diameter: 2.5 in.

UPC	NO.
24005 2	**FT80R**

FT80R

ANALOG POCKET THERMOMETERS WITH MAGNIFYING LENS

• Range **320**: -40° to 160°F
• Range **321**: -0° to 220°F
• Rugged stainless steel probe

Includes: • Protective sheath with pocket clip

UPC	NO.
00320 1	**320**
22391 3	**321**

320
321

NEW!

ANALOG THERMOMETER

• NSF approved thermometer, ideal for cooking and other food service applications
• 3 temperature ranges available
• Magnified dial
• Durable stainless steel probe
• Rugged construction
• Small size
• Easy-to-read display
• °F only

♦ Range: 50° to 550°F
♦ Response time: 15 seconds
♦ Dial diameter: 1 in.
♦ Probe length: 5 in.
Includes: • Plastic sheath with pocket clip

UPC	NO.
23070 1	**PT500P**

PT500P

ALWAYS WEAR
OSHA APPROVED
SAFETY GOGGLES

GENERAL®

Analog Food Service Thermometers

FEATURES　　　　　　　　**SPECIFICATIONS**

LONG-STEM ANALOG THERMOMETER

For agricultural and gardening applications.

- Ideal for agriculture
- Glass lens
- Durable stainless steel probe
- Rugged construction
- 2 in. dial
- Easy to read display

♦ Range: 0° to 220°F
♦ High Temperature:
  50° to 550°F (50° to 285°C)
♦ Length: 8 in. long
♦ Dial diameter: 2 in.

UPC	NO.
23100 5	**PT2008G-550**

PT2008G-550

OVEN THERMOMETER

For use in cooking applications.

- Stainless steel
- Hanging or free standing
- Easy-to-read round dial
- °F/°C
- Temperature Indicators

♦ Range:
  100° to 600°F (38° to 315°C)
♦ Dial diameter: 2.5 in.

UPC	NO.
24020 5	**OT550**

OT550

ANALOG MEAT COOKING THERMOMETER

- Ideal for cooking
- Large Easy-to-Read Dial
- Durable Construction
- 4.5 in. (114mm) Food Safe Stainless Steel Stem
- Oven Safe
- Dishwasher Safe

♦ Range: 120° to 210°F (49° to 99°C)
♦ Resolution: ±2°
♦ Rugged stainless steel design
♦ Suggested cooking temperatures for different meats
♦ Probe Length: 4.5 in. (114mm)

UPC	NO.
20928 8	**MT200**

NEW!

MT200

Digital Food Service Thermometers

GENERAL®

NEW!

RWT800

FEATURES

SPECIFICATIONS

DIGITAL COOKING THERMOMETER/TIMER

- Ideal for cooking
- Auto Power Off
- Easy-to-Read Timer and Thermometer
- Easy-to-Read Temperature Setting
- Pre-programmed Taste Levels
- Programmable Levels: Rare, Medium Rare, Medium, Well Done
- Stainless Steel Probe with 3 ft. Cable
- Combination Belt Clip and Stand
- Alarm Sounds when Food is Done

♦ Range:
  32° to 212°F (0° to 100°C)
♦ Power Source:
  2 "AAA" batteries (not included)
Includes: • Belt clip with stand

UPC	NO.
20951 6	**RWT800**

NEW!

WBT700

WIRELESS COOKING THERMOMETER

- Cook Temp and Set Temp at a glance
- Timer Function in both Main Unit and Pager
- Stainless Steel Probe with 3 ft. Cable
- °F/°C selectable
- Set to Desired Time and Temperature
Pager Alarm Sounds
when Food is Done

♦ Range:
  14° to 392°F (-10° to 200°C)
♦ Power Source:
  Main unit: 2 "AAA" batteries (not included)
  Pager: 2 "AAA" batteries (not included)

UPC	NO.
20952 3	**WBT700**

NEW!

DWS350SSQ

DELUXE DIGITAL STEM THERMOMETER WITH QUICK TIP
10 times faster than regular probes. Dishwasher safe cooking thermometer.

- Rugged Stainless Steel Construction
- Submersible
- "Quick Tip™" Rapid Response (Pat. Pend.)
- "Self-Set™" Calibrating (Patented)
- Waterproof
- °F/°C switchable
- Min/Max memory
- Data hold button
- Calibration switch
- Fast Response

♦ Range:
  -40° to 450°F (-40° to 232°C)
♦ Accuracy: ±1.8° to 3.6°F (±1° to 2°C)
♦ Power Source: 1 "LR44" battery (included)

UPC	NO.
20010 0	**DWS350SSQ**

NEW!

DKT900

DIGITAL COOKING/GENERAL PURPOSE THERMOMETER

- Automatic shutoff
- °F/°C switch
- Ideal for cooking
- Durable stainless steel stem

♦ Range:
  -40° to 302°F (-40° to 150°C)
♦ Power Source: 1 "LR44" battery (included)

UPC	NO.
20927 1	**DKT900**

ALWAYS WEAR
OSHA APPROVED
SAFETY GOGGLES

FEATURES   **SPECIFICATIONS**

JUMBO DISPLAY IN/OUTDOOR THERMOMETER

For measuring and monitoring both indoor and outdoor temperature.

- Measures with water resistant outdoor probe
- Monitors outdoor temp. -58° to 158°F
- Monitors indoor temp. 32° to 122°F
- Large jumbo LCD display
- Recall of Min/Max
- 12 ft. cable with probe
- Wall mount or stand for desktop display
- 12/24 hour clock

♦ Range:
  -58° to 158°F (-50° to 70°C)
♦ Dimensions:
  4 x .75 x 4.5 in. (102 x 19 x 114mm)
♦ Power Source: 1 "AAA" battery
  (included)
Includes: • Mounting accessories

UPC	NO.
10012 7	**DT898P**

DT898P

DIGITAL RECORDING THERMOMETER WITH EXTERNAL PROBE

Ideal for walk-in refrigerators, reach-in boxes, as well as household and lab applications.

- Displays inside and outside temperature simultaneously with current time & date
- Records minimum and maximum temperatures with exact time and date stamp
- Waterproof exterior sensor cable is extremely thin for easy threading through windows
- Ideal for refrigeration walk-in & reach-in boxes, household, lab and much more
- °F/°C selectable
- For hanging or free standing

♦ Indoor range: 14° to 176°F (-10° to 80°C)
♦ Outdoor range: -40° to 176°F (-40° to 80°C)
♦ Resolution: 0.5°
♦ Accuracy: ±1.8°F (±1°C)
♦ Dimensions: 3.5 x 3.5 x 1 in.
♦ Probe length: 6.5 ft. (2m)
♦ Display size: 2.45 x 1.57 in.
♦ Dimensions:
  3.5 x 3.5 x 1 in. (89 x 89 x 25mm)
♦ Power Source: 1 "AAA" battery (included)

UPC	NO.
24155 4	**DTR900**

DTR900

TEMPERATURE

FEATURES

SPECIFICATIONS

WIRELESS THERMO-HYGROMETER WITH REMOTE SENSOR

Use in general monitoring of environment: building, plant, silo, warehouse and storage.

CE
RoHS
EMR963HG
Sensor THGR268

• Monitors temperature and humidity from up to 90 feet away
• °F/°C selectable
• Up to three sensors may be used with base station
• Includes one remote sensor
• Jumbo display
• Min/Max memory
• Trend information
• Comfort indicator
• **THGR268** - Additional Remote Temperature and Humidity Sensor
  • CE and RoHS approved

♦ Indoor and outdoor temperature range: -58° to 158°F (-50° to 70°C)
♦ Indoor and outdoor humidity range: 25% to 90%
♦ Temperature resolution: 0.2°F (0.1°C) Humidity resolution: 1%
♦ Transmitting range: up to 90 ft.
♦ Transmission interval: approximately every 30 seconds
♦ Transmission frequency: 433 MHz
♦ Dimensions: Base: 4.5 x 4 x 0.75 in. Sensor: 4 x 2.75 x 0.75 in.
♦ Weight: (w/o batteries): Base station: 5.5 oz. (156g); Sensor: 2.2 oz. (62g)
♦ Power Source: Base station: 2 "AA" batteries (included) Sensor: 2 "AA" batteries (included)
Includes: • 1 wireless temperature/humidity sensor Model THGR268

UPC	NO.
60070 2	**EMR963HG**
60073 3	**THGR268** sensor-temperature and humidity

DIGITAL WIRELESS THERMOMETER/CLOCK

General monitoring of temperature.

• Displays Indoor & Outdoor Temperature
• Min/Max Temperature Display
• Alarm Clock with Dual Snooze, Day and Date
• 3 Channel capable Wireless Thermometer
• Temperature Trend Indicator
• Perpetual Calendar
• Super Bright LED Backlight
• °F/°C, 12/24 Hours Selectable
• CE approved

♦ Range: Indoor: 32° to 122°F (0° to 50°C) Outdoor: -4° to 140°F (-20° to 60°C)
♦ Power Source: Base station: 2 "AA" batteries (not included) Remote unit: 2 "AAA" batteries (not included)
Includes: • RSA-T remote sensor

UPC	NO.
60016 0	**DTC500**

NEW!

DTC500

3 CHANNEL CAPABLE WIRELESS THERMOMETER WITH REMOTE

Used to monitor and measure indoor and outdoor temperature.

NEW!

• Min/Max memory
• Programmable Temperature Alert
• °F/°C Selectable
• CE approved

♦ Range: Indoor: 32° to 122°F (0° to 50°C) Outdoor: -4° to 140°F (-20° to 60°C)
♦ Power Source: 2 "AAA" batteries (not included)
Includes: • 1 RSAT remote sensor

UPC	NO.
60017 7	**EMR813**

CE
EMR813

GENERAL®

FEATURES	SPECIFICATIONS

WATERPROOF/SPLASH PROOF PANEL METER

Ideal for all weather conditions, measures outdoor temperatures.

- Low battery indication
- Display flashes
- Mounting thickness 0.3 in. (8mm)
- Accessible Functions: Power on/off
- Display digit size: .5 x .3 in. (12 x 6.5mm)
- Display window size:
  1.5 x .7 in. (38 x 7.6mm)
- CE approved

♦ Range: -58° to 158°F (-50° to 70°C)
♦ Accuracy: ±2°F (±1°C)
♦ Display resolution:
  0.1 in. between -19.9° to 158° otherwise 1°
♦ Sampling rate: 10 seconds
♦ Sensor cord length: 33 in. (838mm)
♦ Dimensions:
  Front frame: 2.8 x 1.9 in. (72 x 47mm)
  Case body: 2.1 x 1.1 x .5 in.
  (54 x 28.6 x 12.5mm)
  Mounting frame: 2.8 x 1.6 (71.1 x 40.6mm)
♦ Power Source: 1 "LR44" battery (included)

UPC	NO.
01234 5	**MN630WP**

MN630WP

CE

STANDARD DIGITAL PANEL METER WITH EXTERNAL SENSOR

Wide range of applications.

- °F/°C switch
- High/low alarm
- Jumbo digital display
- 10 ft. cord with stainless steel sensor

♦ Range: -58° to 302°F (-50° to 150°C)
♦ Probe size: 1.875 in.
♦ Resolution: 0.1°
♦ Digit height: 0.75 in.
♦ Display size: 1.85 x 0.85 in.
♦ Dimensions:
  2.4 x 1.4 x 0.5 in. (61 x 36 x 13mm)
♦ Power Source: 1 "LR44" battery (included)

UPC	NO.
22140 2	**DPM300PP**

DPM300PP

MINI PANEL METER WITH EXTERNAL SENSOR

Wide range of applications.

- °F/°C button
- On/Off button
- Digital display
- 3 foot cord with stainless steel sensor
- Suction cup on back

♦ Range: -58° to 302°F (-50° to 150°C)
♦ Probe size: 1.75 in.
♦ Cord length: 3 ft. (1m)
♦ Resolution: 0.1°
♦ Digit height: 0.5 in.
♦ Display size: 1.6 x 0.6 in.
♦ Dimensions:
  2.05 x 1.06 x 0.5 in. (52 x 27 x 13mm)
♦ Power Source: 1 "LR44" battery (included)

UPC	NO.
22100 6	**MDP300PP**

MDP300PP

TEMPERATURE

TEMPERATURE

FEATURES

SPECIFICATIONS

SOLAR PANEL TEMPERATURE METER WITH BACK MOUNTING FLANGE

Wide range of applications.

- Built-in back flange for flush mounting
- Stainless steel sensor and case
- °F/°C switch
- Digital display
- Battery back-up

- ♦ Range: -58° to 302°F (-50° to 150°C)
- ♦ Accuracy: ±2°F (±1°C)
- ♦ Cord length: 3 ft. (1m)
- ♦ Resolution: 0.1°F
- ♦ Probe size: 1.18 in.
- ♦ Display size: 0.45 x 1.3 in.
- ♦ Digit height: 0.35 in.
- ♦ Dimensions: (ø x D): 2.55 x 1 in.
- ♦ Flange diameter: 3.4 in.
- ♦ Power Source: 1 "LR44" battery (included)

UPC	NO.
22035 1	**DPM560BF**

DPM560BF

SOLAR PANEL TEMPERATURE METER WITH FRONT MOUNTING FLANGE

Wide range of applications.

- Built-in front flange for recessed mounting
- Stainless steel sensor and case
- °F/°C switch
- Digital display
- Battery back-up

- ♦ Range: -58° to 302°F (-50° to 150°C)
- ♦ Accuracy: ±2°F (±1°C)
- ♦ Cord length: 3 ft. (1m)
- ♦ Resolution: 0.1°F
- ♦ Probe size: 1.18"
- ♦ Display size: 0.45 x 1.3 in.
- ♦ Digit height: 0.35 in.
- ♦ Dimensions: (ø x D): 2.55 x 1 in.
- ♦ Flange diameter: 3.4 in.
- ♦ Power Source: 1 "CR44" battery (included)

UPC	NO.
22030 6	**DPM560FF**

DPM560FF

DIGITAL AQUARIUM THERMOMETER

Ideal for use in aquarium, and aqua-culture applications.

- Displays ambient and remote temperature
- Min/Max temperature memory
- High/low temperature alarm
- Jumbo digital display
- Room and outer sensor temperature switch
- °F/°C switch
- Backlight
- Foldaway stand
- CE approved

- ♦ Ambient range: 14° to 122°F (-10° to 50°C)
- ♦ Remote range: -58° to 158°F (-50° to 70°C)
- ♦ Resolution: 0.1°
- ♦ Accuracy: ±1.8°F (±1°C)
- ♦ Sampling rate: 10 second
- ♦ Cord length: 10 ft. (3m)
- ♦ Display size: 1.88 x 0.82 in.
- ♦ Dimensions:
  2.87 x 2 x 0.6 in. (73 x 51 x 15mm)
- ♦ Power Source: 1 "AAA" battery (included)
- Includes • Suction cup
  • Velcro mounting tape

UPC	NO.
22150 1	**AQ150**

CE

AQ150

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

Gas Detectors

GENERAL®

FEATURES

SPECIFICATIONS

DIGITAL CO DETECTOR WITH AUTO ZERO

Ideal for Home, Office, Tunnels, Mines, etc.

- Adjustable CO warning level
- LCD dual digital display
- Bright backlight
- Low battery indication
- Measures ambient temperature
- °F/°C selectable
- Auto power off
- Auto zero
- Self test
- Max hold
- CE and RoHS approved

♦ CO range: 0~999ppm
♦ Resolution: 1ppm
♦ Battery life is 250 hours when the backlight is off and 35 hours with the backlight on
♦ Power Source: 3 "AAA" batteries (included)
Includes: • Operation manual
         • Wrist strap
         • Carrying pouch

UPC	NO.
41655 6	**DCO1001**

DCO1001

CE RoHS

DIGITAL CO DETECTOR WITH PROTECTIVE BOOT AND CASE

Ideal for Home, Office, Tunnels, Mines, etc.

- Jumbo LCD display with backlight
- Pocket-sized and easy-to-use
- Fast sampling time
- Max hold and data hold
- Audible beep from 35 to 200 ppm
- Continuous beep after 200 ppm
- Auto power off - 15 min. inactive
- Protective rubber boot
- Backlight
- CE and RoHS approved

♦ Range: 0 to 1,000 ppm
♦ Resolution: 1 ppm
♦ Accuracy: 5% or 10 ppm
♦ Dimensions:
   6.3 x 2.2 x 1.6 in. (160 x 56 x 41mm)
♦ Power Source: 1 "9V" battery (included)
Includes: • Soft case
         • Rubber boot

UPC	NO.
41660 0	**DCO1002**

DCO1002

CE RoHS

MINI DIGITAL COMBUSTIBLE GAS DETECTOR WITH BELT CLIP

Industrial uses, HVAC/R, Plumbing, Tunnels.

- Intrinsically safe
- Bright LED indicates real-time data and system status
- Detects: Methane (CH_4)

♦ Range: 0% ~ 100% LEL (combustible gas)
♦ Response time: <30 secs.
♦ Notification: sound, vibration alarm
♦ Malfuction and low voltage indications

♦ Operating conditions:
   -40° to 158°F (-40° to 70°C) < 90%RH
♦ Sensor life: 2 years
♦ Dimensions:
   3.9 x 2.4 x 1.6 in. (100 x 61 x 40mm)
♦ Weight: 4.9 oz. (139g)
♦ Power Source: Rechargeable lithium battery (included)
Includes: • Molded hard case
         • AC adapter
         • Belt clip

UPC	NO.
41540 5	**PNGD170**

PNGD170

PORTABLE GAS LEAK DETECTOR

Industrial uses, HVAC/R, plumbing and plant maintenance.

- Highly sensitive wide range gas detector
- Detect methane, natural gases, coal gases, hexane, propane, ethane, Butane, pentane, isopropyl alcohol, halogenated hydrocarbons, (Methanol, Ethanol, Butanol) aether, ketone (butone, protone), Hydrogen, toluene, and other compounds, (gasoline, industrial solvent, lacquer, refrigerant, sulfur dioxide, ammonia, sulfured hydrogen, acetic acid, etc)
- Quick response
- LED and audio indication
- Gas concentration alarm
- Adjustable sensitivity
- Rechargeable
- 3-color leak indication

♦ Gas sensitivity: 50 ppm~100% LEL (Lower Explosive Limit)
♦ Startup time: <30 sec.
♦ Response time: <3 sec.
♦ Visual LED displays 10 levels for each of 3 gas ranges: Green for low levels, yellow for moderate and red for dangerous levels.
♦ Operating Conditions:
   -4° to 140°F, <98%RH
♦ Low power warning
♦ Dimensions:
   6.7 x 2.4 x 1.02 in. (170 x 62 x 26mm)
♦ Power Source: 1 "9V" battery (included)
Includes: • AC Adapter Accessories
         A268-110 - **A268-220** -
         T268 - Sensor

UPC	NO.
41537 5	**NGD268**

NGD268

SAFETY

"It's Your Job . . . General Tools Make It Easier" **I-49**

SAFETY

CE RoHS
NGD7201

NEW!

NGD8800

NEW!

PNG2000A

NGD100

FEATURES

SPECIFICATIONS

PRECISION GAS LEAK DETECTOR "GAS DOG"
Ideal for Industrial uses such as gas furnaces and plant maintenance.

- Precise detection of combustible gas leaks
- Sensitive to very low levels of methane, propane, butane and hydrogen
- Detection range:
  Methane: 120ppm - 1920ppm
  Propane: 40ppm - 640ppm
- Reliable solid state sensor
- Dual visible and audible alerts
- Auto power off
- Low battery warning
- Unique compact ergonomic design
- Variable alarm set point
- CE and RoHS approved

♦ Operating temperature range:
  23° to 113°F (-5° to 45°C)
♦ Warm-up time: < 60 seconds
♦ Response time: < 2 seconds
♦ Sensitivity: 40ppm
♦ Flexible probe length: 18 in. (465mm)
♦ Indicator: Acoustic intermittent beep and visual LED
♦ Auto power off: About 10 minutes
♦ Dimensions:
  6.9 x 2.8 x 1.5 in. (175 x 70 x 38mm)
♦ Power Source: 4 "AA" batteries (included)
Includes: • Stainless flexible probe
          • Molded hard case

UPC	NO.
40720 2	**NGD7201**

COMBUSTIBLE GAS LEAK DETECTOR
Industrial uses, HVAC/R, plumbing and plant maintenance.

- Highly sensitive wide range gas detector
- Detects methane, natural gases, coal gases, hexane, propane, ethane, Butane, pentane, isopropyl alcohol, halogenated hydrocarbon, (Methanol, Ethanol, Butanol) aether, ketone (butone, protone), Hydrogen, toluene, and other compounds, (gasoline, industrial solvent, lacquer, refrigerant, sulfur dioxide, ammonia, sulfured hydrogen, acetic acid, etc.)
- Quick response
- Audible and visual indication
- Auto fast warm-up
- Adjustable sensitivity
- Flexible probe—May be rotated
- Low battery indication
- Rechargeable battery

♦ Operation temperature:
  32° to 125°F (0° to 52°C)
♦ Gas Sensitivity: Variable, as low as 5ppm (gasoline)
♦ Response time: Instantaneous
♦ Warm up time: <110 seconds in 25, 60%RH)
♦ Continuous operation time 2hours varies with operation)
♦ Double color LED indicate charge state
♦ Dimensions:
  9.3 x 3.4 x 1.8 in. (235 x 86 x 46mm)
♦ Weight: 17.4 oz. (492g)
♦ Power Source: 1200mAh, "6V" Ni-MH rechargeable battery (included)
Includes: • Combustible gas detector
          • Standard accessory
          • Charger • Carry case

UPC	NO.
40880 3	**NGD8800**

COMBUSTIBLE GAS DETECTOR PEN
Ideal for contractors and homeowners to check gas leaks in plumbing and appliances.

- Easy to operate
- High Sensitivity
- Low Power Consumption
- Microprocessor controlled
- Reliable performance
- Audible and visual alarms
- Fast response and resume
- A variety of sounds for different status
- Small zero drift and large range of operating temperature

♦ Range: 0 to 100%LEL
♦ Sampling: Natural diffusion
♦ Operating temperature:
  -4° to 131°F (-20° to 55°C)
♦ Operating humidity: <95%RH
♦ Operating voltage: DC3V
♦ Operating current: <150mA
♦ Low alarm: (20±5) %LEL
♦ High alarm: (50±10) %LEL
♦ Response time: <5s • Sound: ≥65dB
♦ Power Source: 2 "AA" batteries (included)
Includes: • Wrist strap • User's Manual

UPC	NO.
41501 6	**PNG2000A**

NATURAL GAS DETECTOR
Ideal for checking plumbing fixtures and household use.

- Detects natural gas, compressed natural gas, methane, propane, butane, liquid natural gas (LNG), liquid petroleum gas (LPG)
- Locates leaks in pipes, valves, fittings
- Audible and visual alerts
- Lightweight and pocket sized
- Highly sensitive to combustible gas
- Red alarm lights and buzzer sounds when gas is detected

♦ Sensor: solid state
♦ Dimensions:
  6.25 x 1.385 x 0.75 in. (159 x 35 x 19mm)
♦ Weight: 3 oz. (85g)
♦ Power Source: 2 "AA" batteries (included)

UPC	NO.
41600 6	**NGD100**

ALWAYS WEAR
OSHA APPROVED
SAFETY GOGGLES

Refrigerant Leak Detectors

FEATURES **SPECIFICATIONS**

HIGH-PERFORMANCE REFRIGERANT LEAK DETECTOR

HVAC/R, Industrial, Automotive uses.

- Microprocessor Controlled with advanced digital signal processing
- Multi-color visual display
- High-Low leak sensitivity selector
- Low battery indication
- Semiconductor gas sensor
- Detection of R-134a, R-404A, R-410A, R-407C, R22 Freon gas, etc.
- Sensitivity (H/M/L): R-22.134a 6g/year 30g/year R-404A,407C,410A 8g/year 40g/year
- 15 in. (39cm) flexible stainless probe
- Reference source included
- Ambient concentration reset
- RoHS, CE, WEEE approved

♦ Alarm Method: Buzzer, Tricolor LED bar Indicator
♦ Snake Tube length: 15 in. (39cm)
♦ Battery Life: Approximately 40 hours normal use
♦ Auto power OFF: 10 minutes
♦ Warm-Up Time: Approximately 90 seconds
♦ Altitude: < 6500 ft. (2000M)
♦ Operating Temperature and Humidity: 32° to 104°F (0° to 40°C), < 80%RH
♦ Storage Temperature and Humidity: 14° to 140°F (-10° to 60°C), < 70%RH
♦ Dimensions: 6.8 x 2.6 x 2.2 in. (173 x 66 x 56mm) approximately
♦ Weight: 14.1 oz. (400g)
♦ Power Source: 4 "AA" batteries (included)
Includes: • Leak check bottle
• Molded hard case

UPC	NO.
40141 5	**RLD380L**
01378 6	**RS380** Replacement Sensor

RLD380L

HIGH-PERFORMANCE REFRIGERANT LEAK DETECTOR WITH PUMP

HVAC/R, Industrial, Automotive, small leaks.

- Microprocessor Control with advanced digital signal processing
- Multi-color visual display
- High-Medium-Low leak sensitivity selector
- Low battery indication
- Semiconductor gas sensor
- Detection of R-134a, R-404A, R-410A, R-407C, R22 Freon gas, etc.
- Sensitivity (H/M/L): R-22, 134a 3g/year 15g/year 30g/year, R-404A, 407C, 410A 4g/year 20g/year 40g/year
- 15.5 in. (39.4cm) flexible stainless probe
- Reference Leak source included
- Ambient concentration reset
- Long-life, DC brushless fan
- Automatic zero and background compensation
- RoHS, CE, WEEE approved

♦ Alarm Method: Buzzer, Tricolor LED bar Indicator
♦ Snake Tube length: 15.5 in. (39.4cm)
♦ Battery Life: Approx. 7 hours normal use
♦ Auto power OFF: 10 minutes (can be disabled)
♦ Warm-Up Time: Approximately 45 seconds
♦ Altitude: < 6500 ft. (2000M)
♦ Operating Temperature & Humidity: 32° to 104°F (0° to 40°C), < 80%RH
♦ Storage Temperature and Humidity: 14° to 140°F (-10° to 60°C), < 70%RH
♦ Dimensions: 6.8 x 2.6 x 2.2 in. (173 x 66 x 56mm) approximately
♦ Weight: 14.1 oz. (400g)
♦ Power Source: 4 "AA" batteries (included)
Includes: • Leak check bottle
• Molded hard case

UPC	NO.
00382 4	**RLD382P**
01378 6	**RS380** Replacement Sensor

RLD382P

HVAC/R REFRIGERANT LEAK DETECTORS

Industrial and Automotive uses.

- Detects ALL halogenated refrigerants
- Sensitivity adjustment dial
- High sensitivity
- Equipped with quality sensor

♦ Sensitivity: 6 gr/yr
♦ 14 in. (35.5cm) flexible stainless probe
♦ Long battery time
♦ Power Source: 2 "C" batteries (included)
Includes: • Metal case

UPC	NO.
40139 2	**RLD102**
41634 1	**RLD202**

RLD102

RLD202

"It's Your Job . . . General Tools Make It Easier" **I-51**

Indoor Air Quality (IAQ)

GENERAL®

SAFETY

FEATURES SPECIFICATIONS

HANDHELD DIGITAL ENVIRONMENTAL METER WITH CO_2/RH/TEMPERATURE

Building or Office Indoor Air Quality.

- Building or Office Indoor Air Quality
- Ideal for indoor air quality (IAQ) diagnosis offices, classrooms, factories, hospitals and hotels
- Non-dispersive infrared (NDIR) technology
- Measures: CO_2 level, air temperature, dew point, wet bulb temperature and humidity
- Triple displays of CO_2 level, temperature and humidity
- Stable NDIR sensor for CO_2 detection
- Statistics of weighted averages TWA (8 hour weighted averages) STEL (15 minute weighted average)
- Backlight
- Audible CO_2 warning alarm
- Battery or Adaptor
- Manual calibration on CO_2 and humidity
- RS-232 computer interface
- Min, Max, STEL, TWA
- CE and RoHS approved

♦ Range: 14° to 140°F (-10° to 60°C)
♦ CO_2 range: 0-5000ppm
♦ Resolution: 1ppm
♦ Accuracy: +/-30ppm+/-5%rdg
♦ Pressure Dependence +1.6% reading per kPa deviation from normal pressure, 100kPa
♦ Resolution: 0.1°F (0.1°C)
♦ Accuracy: +/-0.9°F (0.6°C)
♦ Humidity range: 0 to 99.9%
♦ Resolution: 0.1%
♦ Accuracy: +/-3% between 10 to 90% +/-5% other
♦ Warm up: 30 seconds
♦ Operating: 32° to 122°F (0° to 50°C), 0 to 95% (avoid condensation)
♦ Storage: -4° to 140°F (-20° to 60°C), 0 to 99% (avoid condensation)
♦ Battery Life: 24 Hours (Alkaline)
♦ Power Source: 4 "AA" batteries (included)
Includes: • Molded hard case
         • Adaptor 9V 100-240VAC

UPC	NO.
77535 4	**CDM77535**
12710 0	**ASFT KIT** PC Interface Kit (Optional)
15060 3	**HR33LJ** Calibration salt MgCl 33% (Optional)
15070 2	**HR75LJ** Calibration salt NaCl 75% (Optional)

CE RoHS
CDM77535

HIGH ACCURACY TEMPERATURE/HUMIDITY AND IAQ MONITOR WITH OUTPUT RELAY

IAQ monitoring and ventilation control.

- Digital wall mountable / desktop type
- Visible and audible CO_2 warning alarm
- NDIR (Non-Dispersive Infrared) Waveguide Technology with ABC (Automatic Background Calibration)
- Triple Display of CO_2 Level, Temperature and Humidity
- TWA (8 Hour Weighted Average)
- STEL (15 Minute Weighted Average)
- Alarm output for ventilation control
- PC connect via RS-232 computer interface
- CE and RoHS approved

♦ CO_2 range: 0~5000ppm
♦ CO_2 accuracy: ±30ppm or ±5% reading
♦ Temperature range: 14° to 140°F (-10° to 60°C)
♦ Temperature accuracy: ±0.9°F / ±0.6°C
♦ RH range: 0% to 85%
♦ RH accuracy: ±3% (10 to 90%) ±5% (others)
♦ Dew Point Temperature: -100° to 140°F (-73.4° to 60°C)
♦ Wet Bulb Temperature: 8° to 140°F (-13.3° to 60°C)
♦ Warm-up time: ≤30 seconds
♦ Power Source: AC Adapter (included)

UPC	NO.
01311 3	**CDM77232**

CE RoHS
CDM77232

WALL OR DESK MOUNT DIGITAL IAQ METER

- Portable CO_2 monitor
- Ensure Indoor Air Quality
- Alarm Mode
- Adjustable setting parameters
- CE and RoHS approved

♦ Range: 32° to 122°F (0° to 50°C)
♦ CO_2 Range: 0-3000 ppm CO_2
♦ Accuracy: ±50 ppm or ±5%rdg
♦ Resolution: 1 ppm below 1000
♦ Resolution: 0.1°F (0.1°C)
♦ Accuracy: ±2°F (1°C)

UPC	NO.
01277 2	**CDM1060**

CE RoHS
CDM1060

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

FEATURES

SPECIFICATIONS

ANALOG SOUND METER

Economical sound Readings.

- Built-in 0.5 in. electret microphone
- Fast or slow response settings
- Max hold select switch
- A and C weighting selectable
- Analog output for connection to chart recorders, data loggers etc.
- Easy calibration adjustment
- Threaded insert for tripod mount
- Economy priced
- CE and RoHS approved

♦ Range: 54 to 126 dB in 7 ranges (manual)
♦ Accuracy: ±3 db
♦ Resolution: Analog continuous
♦ Dimensions:
 7.1 x 2.7 x 1.4 in. (180 x 69 x 36mm)
♦ Weight: 5.1 oz. (145g)
♦ Power Source: 1 "9V" battery (included)
Optional: • C4 Soft Case

UPC	NO.
41007 3	**ASM8926**

ASM8926

DIGITAL SOUND METER WITH JUMBO DISPLAY

High-performance sound measurements.

- Digital display with analog bar graph
- Auto or manual ranging
- A and C weight selectable
- Fast or slow response selectable
- Min/Max record with maximum hold
- Auto power off
- Low battery indicator
- Large digital display
- Measures crowd noise
- CE and RoHS approved

♦ Range: 40 to 130 dB in 10 steps
♦ Accuracy: +/-2 dB
♦ Resolution: 0.1 dB
♦ Sensor: 10mm electret condenser microphone
♦ Dimensions:
 9 x 2.25 x 1.73 in. (229 x 57 x 44mm)
♦ Power Source: 4 "AAA" batteries (included)
Includes: • Windscreen

UPC	NO.
41025 7	**DSM8925**

DSM8925

DIGITAL SOUND METER

High-performance sound measurements.

- Small size
- High performance at a low cost
- Real-time display
- Min/Max recording
- Over and under range indicator
- Low battery indicator
- Large 4 digit LCD display
- Meets IEC651, ANSI S1.4 type 2 standards
- Backlight
- A and C weighing selectable
- Fast or slow time weighing
- AC/DC output
- CE and RoHS approved

♦ Range: 32 to 130 dB in 3 ranges
♦ Frequency range: 31.5 Hz to 8kHz
♦ Accuracy: ±1.5 db
♦ Resolution: 0.1 db
♦ Response time: 0.5 sec.
♦ Microphone: Electret condenser microphone
♦ Dimensions:
 9.1 x 2.1 x 1.3 in. (231 x 53 x 33mm)
♦ Weight: 12 oz. (340g)
♦ Power Source: 1 "9V" battery (included)
Includes: • Windscreen
 • Calibration screwdriver

UPC	NO.
41012 7	**DSM325**

DSM325

"It's Your Job . . . General Tools Make It Easier" **I-53**

SAFETY

FEATURES

SPECIFICATIONS

DIGITAL SOUND METER WITH BACKLIGHT AND RS-232 OUTPUT

Noise pollution studies, OSHA compliance.

- Min/Max record with max. hold
- Fast or slow response time
- A and C weighting selectable
- Manual or automatic range
- Background noise absorber
- Jumbo LCD display with bar graph
- Meets IEC651, ANSI S1.4 type 2 standards
- Backlight
- RS-232 computer interface
- CE and RoHS approved

♦ Range: 30 to 130 dB
♦ Frequency range: 31.5 Hz to 8 KHz
♦ Accuracy: ±1.5 db
♦ Resolution: 0.1 db
♦ Sensor: 0.25 in. electret condenser microphone
♦ LCD size: 2.5 x 1.65 in.
♦ Dimensions:
   11 x 3 x 1.5 in. (279 x 76 x 38mm)
♦ Weight: 10.3 oz. (292g)
♦ Power Source: 1 "9V" battery
   (w/ DC 9V output) (included)
Includes: • Molded hard case
               • Windscreen

UPC	NO.
41020 2	**DSM8922**
41021 9	**DSM8922 CERT**
12710 0	**ASFT KIT** PC Interface Kit (Optional)

CE RoHS
DSM8922
DSM8922 CERT

DIGITAL DATA LOGGING SOUND METER WITH RS-232 OUTPUT

Noise pollution studies, OSHA compliance.

- Stores up to 32,000 records
- Clock   • Data logger
- Low, med, high levels   • Auto ranging
- Bar graph   • Min/Max   • Backlight
- CE and RoHS approved

♦ Range: 30 to 130 dB
♦ Fast/slow weighing
♦ RS-232 computer interface
♦ Dimensions:
   10 x 2.5 x 1 in. (254 x 64 x 25mm)
♦ Power Source: 1 "9V" battery (included)
Includes: • Molded hard case
               • RS-232 Software and cable
               • Wind screen

UPC	NO.
41016 5	**DSM3200DL**

CE RoHS
DSM3200DL

SOUND LEVEL CALIBRATOR

Calibration source for Sound Meters.

- Conforms to ANSI S1.40-1984 and IEC0942:2003 Class 2
- Calibration Levels of 94dB and 114dB
- Fits 1", 1/2" and 1/4" diameter microphones
- Internal Battery Test
- CE and RoHS approved

♦ Output Frequency: 1000Hz +/- 2%
♦ Output Sound - Pressure Levels: 114dB and 94dB re uPa under reference conditions
♦ Reference Conditions: 1-Temperature: 68°F (20°C); 2-Relative Humidity: 65%; 3-Atmospheric Pressure: 1013mbar
♦ Temperature coefficient: +/- 0.02dB/C
♦ Total Harmonic Distortion: <2%
♦ Accuracy of Sound-Pressure Level: Under stated reference environment conditions +/- 0.5dB
♦ Power Source: 1 "9V" battery (included)
Includes: • 2 microphone adapters
               • Carrying Case

UPC	NO.
41018 9	**SCAL1356**

CE RoHS
SCAL1356

GENERAL®

FEATURES   **SPECIFICATIONS**

JUMBO DISPLAY WIDE RANGE DIGITAL LIGHT METER

Ideal for Outdoor - Indoor Lighting.

- Jumbo LCD displays LUX, FC, low battery, MAX & HOLD indication
- Accurately displays light level in foot candles (FC) or LUX over a wide range
- Max hold and data hold
- Auto power off
- Easy-to-use
- Pocket sized and lightweight
- Cubic lead protection
- CE and RoHS approved

- ♦ Measuring range: (±3% rdg ±5 dgts) 20, 200, 2000, 20,000 FC 200, 2000, 20000, 50000 LUX
- ♦ Accuracy: ±3% rdg ±5% f.s. ±4% rdg ±10% dgtas (<10000FC/LUX)
- ♦ Resolution: 10.1 LUX
- ♦ Power Source: 6 "AAA" batteries (included)
- Includes: • Sensor
  - • Molded hard case

UPC	NO.
42003 4	**DLM1337**

DLM1337

RoHS

3 RANGE DIGITAL LIGHT METER

Ideal for low level lighting such as parking lots.

- LUX/foot candle (FC) switch
- Data hold
- Range switch
- On/Off switch
- Low battery indicator
- Lightweight
- Easy-to-use
- Overload indication
- Zero adjustment
- CE and RoHS approved

- ♦ LUX range: 0.1 to 20000 LUX (3 ranges)
- ♦ Foot candle range: 0.01 to 2000 FC (3 ranges)
- ♦ Accuracy: ±3% of reading (±5% at high range)
- ♦ Cord length: extends to 2'
- ♦ Dimensions: 5.6 x 2.9 x 1.3 in. (142 x 74 x 33mm)
- ♦ Weight: 7.5 oz. (213g)
- ♦ Power Source: 1 "9V" battery (included)
- Includes: • Sensor probe
  - • Molded hard case

UPC	NO.
42005 8	**DLM2000**
42006 5	**DLM2000CERT**

DLM2000

RoHS

DIGITAL LIGHT METER WITH RS-232 OUTPUT

Ideal for Building, Hospital Surgical Lighting.

- User selectable lighting type (tungsten, fluorescent, daylight or mercury)
- RS- 232 computer interface
- Records Min/Max and Avg readings with recall
- Data hold
- Relative % light measurement
- Super large LCD display
- Auto power off
- CE and RoHS approved

- ♦ LUX range: 0 to 50000 LUX (3 ranges)
- ♦ Foot candle range: 0 to 5000 FC (3 ranges)
- ♦ Relativity: 0 to 1999%
- ♦ Sampling time: approx 0.4 sec.
- ♦ Accuracy: ±(4% + 2 digits)
- ♦ Dimensions: 7.1 x 3.1 x 1.5 in. (180 x 79 x 38mm)
- ♦ Weight: 11.8 oz. (335g)
- ♦ Power Source: 1 "9V" battery (not included)
- Includes: • Sensor probe
  - • Sensor cover

UPC	NO.
42000 3	**DLM105HA**
41420 0	**LSFTKIT** PC Interface Kit (Optional)

DLM105HA

RoHS

GENERAL®

FEATURES

SPECIFICATIONS

WIDE RANGE SINGLE PIECE DIGITAL LIGHT METER
Ideal for Outdoor - Indoor Lighting.

- Single piece
- Data hold
- Max hold
- Zero adjustment
- LUX/FC
- Jumbo LCD display
- Low battery indication
- Cosine angular corrected
- CE and RoHS approved

♦ Measuring range:
   20, 200, 2000, 20,000 FC
   200, 2000, 20,000, 200,000 LUX
♦ Sensor: Silicon diode and filter
♦ Accuracy: +/-3%
♦ Power Source: 1 "9V" battery (included)
Includes: • Case

UPC	NO.
42001 0	**DLM204**

CE
RoHS
DLM204

DATA LOGGING DIGITAL LIGHT METER
Ideal for Building - Factory Audits.

- Auto power off
- Silicon photodiode and filter
- Data hold, Min/Max/Average
- RS-232 computer interface & data logger
- Cosine angular correction
- Auto focus
- LED backlight
- Low battery indication
- Overload indication
- Single piece
- CE and RoHS approved

♦ 7000 record data logger
♦ RS-232 computer interface
♦ Sampling rate: 2.5 times per second
♦ Dimensions:
   7.3 x 2.3 x 1.5 in. (185 x 55 x 38mm)
♦ Weight: about 8.8 oz. (250g)
♦ Measuring range: 20, 200, 2,000, 20,000 FC
   200, 2,000, 20,000, 200,000 LUX
Includes: • Software
           • RS-232 cable
           • Molded hard case
           • Manual

UPC	NO.
42004 1	**DLM203DL**

CE
RoHS
DLM203DL

DIGITAL BTU SOLAR POWER METER
Ideal for checking thermal window efficiency.

NEW!

- 4 digit LCD reading
- Wide spectral range
- Cosine corrected
- Automatic transmission measurements
- Solar energy measurement
- Select either W/m2 or BTU / (ft^2 x h) units
- Data hold Min/Max/Avg modes
- Data Memory and Read function (99 sets)
- Auto power-off function
- CE and RoHS approved

Includes: • Tripod mounting screw
           • Case

UPC	NO.
20926 4	**DBTU1300**

♦ Display: LCD display, 4 digit
♦ Measuring Range: 2000 W/m2,
   634 BTU / (ft^2 x h)
♦ Resolution: 0.1 W/m2 , 0.1 BTU / (ft^2 x h)
♦ Spectral Response: 400 to 1000nm
♦ Angular Accuracy: Cosine corrected
   <5% for angles < 60°
♦ Sampling Rate: 4 times/sec.
♦ Photo Detector: One silicon photovoltaic
   detector
♦ Manual Data Memory Capacity: 99 sets
♦ Operating Temperature and Humidity:
   32° to 122°F (0° to 50°C); 0% to 80%RH
♦ Dimensions:
   4.3 x 2.5 x 1.3 in. (110 x 64 x 34mm)
♦ Weight: 5.6 oz. (158g)
♦ Power Source: 4 "AAA" batteries (included)

CE
RoHS
DBTU1300

ALWAYS WEAR
OSHA APPROVED
SAFETY GOGGLES

FEATURES   **SPECIFICATIONS**

DIGITAL UVAB METER

This instrument is designed to measure ultraviolet light in the range from 280 to 400 nanometers (UVAB). The illumination range of the meter allows users to conduct the most precise quantitative measurements of ultraviolet radiation for radiometry and laboratory requirements, UV-curing in off-set printing, lamp UV intensity and aging, industrial process monitoring, semiconductor fabrication, sunlight UV intensity to prevent skin damage, sterilization and environmental monitoring.

- Backlit LCD with 4 Digit Dual Display
- High and Low Measurements Range in a unit mW/cm^2 or µW/cm^2
- Socket for Tripod Mounting
- Automatic Measuring
- Low Battery Indicator
- Magnetic Mount
- 20 Point Memory
- Over Range Indication
- Zero Adjust
- Auto Record
- CE, RoHS, WEEE approved

Includes: • UV Sensor probe
        • User's manual
        • Hard carrying case

♦ Spectrum range: 280 to 400nm UVAB
♦ Calibration point: 365nm
♦ Illumination range:
   Low: 1 µW/cm^2 to 9999 µW/cm^2
   High: 0.01 mW/cm^2 to 40.00 mW/cm^2
♦ Accuracy at 73.5°±9°F (23°±5°C):
   ±4%±1 digit
♦ Sample time: 0.3 seconds approximately
♦ Memory: 20 points plus 1 for interval time
♦ Operation temperature: 32° to 122°F
   (0° to 50°C); 10 to 90%RH
♦ Dimensions: 5.51 x 1.93 x 1.14 in.
   (140 x 49 x 29mm)
♦ Weight: 3.2 oz. (90g) approximately
♦ Power Source: 1 "9V" battery (included)

UPC	NO.
01279 6	**UV513AB**

UV513AB

DIGITAL UVC METER

This instrument is designed to measure ultraviolet light in the range from 220 to 275 nanometers (UVC). The illumination range of the meter allows users to conduct the most precise quantitative measurements of ultraviolet radiation: radiometry and laboratory requirements, UV-curing in off-set printing, lamp UV intensity and aging, industrial process monitoring, germicidal semiconductor fabrication, sunlight UV intensity to prevent skin damage, sterilization and environmental monitoring.

- Backlit LCD with 4 Digit Dual Display
- High and Low Measurements Range in a unit mW/cm^2 or µW/cm^2
- Socket for Tripod Mounting
- Automatic Measuring
- Low Battery Indicator
- Magnetic Mount
- 20 Point Memory
- Over Range Indication
- Zero Adjust
- Auto Record
- CE, RoHS, WEEE approved

Includes: • UV Sensor probe
        • User's manual
        • Hard carrying case

♦ Spectrum range: 220 to 275nm UVC
♦ Calibration point: 254nm
♦ Illumination range:
   Low: 1 µW/cm^2 to 9999 µW/cm^2
   High: 0.01 mW/cm^2 to 40.00 mW/cm^2
♦ Accuracy at 73.5°±9°F (23°±5°C):
   ±4% ±1 digit
♦ Sample time: 0.3 seconds approximately
♦ Memory: 20 points plus 1 for interval time
♦ Operation temperature: 32° to 122°F
   (0° to 50°C); 10 to 90%RH
♦ Dimensions: 5.51 x 1.93 x 1.14 in.
   (140 x 49 x 29mm)
♦ Weight: 3.2 oz. (90g) approximately
♦ Power Source: 1 "9V" battery (included)

UPC	NO.
01290 1	**UV512C**

UV512C

ULTRAVIOLET RADIOMETER FOR UVC

Ideal for sterilization, germicide applications.

- Ideal for a variety of industrial and laboratory applications
- RS-232 computer interface
- Data hold
- Min/Max readings
- Memory recall
- Measures UVC
- CE and RoHS approved

♦ Ranges:
   199.9 uW/cm, 1.999, 19.99 mW/cm
♦ Dimensions:
   7.1 x 2.8 x 1/3 in. (180 x 72 x 32mm)
♦ Power Source: 1 "9V" battery (not included)
Includes: • UV sensor probe

UPC	NO.
42008 9	**UVC254**
41420 0	**LSFT KIT** PC Interface Kit (Optional)

NEW!

UVC254

GENERAL®

FEATURES   **SPECIFICATIONS**

DIGITAL EMF TESTER

Ideal for use around Powerlines, Appliances, and to test for Paranormal activity.

- Quickly and reliably measures electromagnetic field radiation levels around power lines, home appliances, computer monitors, video machinery and industrial devices
- Easy-to-use
- Compact and lightweight
- Large LCD display
- CE and RoHS approved

♦ Range: 0.1 to 199.9 mG
♦ Band width: 30 Hz to 300 Hz
♦ Resolution: 0.1 mG
♦ Accuracy: +/-4% + 3 digits
♦ Power Source: 1 "9V" battery (included)
Includes: • Soft case

UPC	NO.
42050 8	**EMF1390**

NEW!

CE
RoHS
EMF1390

DIGITAL EMF TESTER WITH DATA LOGGING

For Building Surveys and Powerlines.

- Quickly and reliably measures electromagnetic field radiation levels
- Retrieve, view and store readings
- Large LCD display
- CE and RoHS approved

♦ Range: 0.1 to 199.9 mG
♦ Band width: 30 Hz to 300 Hz
♦ Resolution: 0.1 mG
♦ Accuracy: +/-4% + 3 digits
♦ Power Source: 1 "9V" battery (included)
Includes: • Soft case
           • Software
           • Cable

UPC	NO.
42051 5	**EMF1392DL**

CE
RoHS
EMF1392DL

DIGITAL DATA LOGGING TRIPLE AXIS ELF/EMF TESTER

Measuring Field Levels around Powerlines and Machinery.

- Test a wide range of ELF magnetic fields, independent of measurement angle
- Measure magnetic field radiation levels around power lines, appliances and industrial devices
- Measure magnetic field radiation from 30Hz to 2000Hz
- Displays micro Tesla and milli Gauss in the same tester
- Data hold
- Min/Max hold
- Data memory and Read functions
- RS232 computer interface
- CE and RoHS approved

♦ Triple LCD display
♦ Range: 20/200/2000 milla Gauss - 2/20/200 micro Tesla
♦ Resolution: 0.01/0.1/1 milli Gauss - 0.001/0.010/0.1 milla Tesla
♦ Triple axis (x,y,z)
♦ Bandwidth: 30Hz~2000Hz
♦ Over-Input Display
♦ Sampling Time: approx 0.5 second
♦ Auto Power Off: Approximately 15 minutes
♦ Power Source: 6 "AAA" batteries (included)
Includes: • Software CD
           • Cable

UPC	NO.
42052 2	**EMF1394DL**

CE
RoHS
EMF1394DL

ALWAYS WEAR
OSHA APPROVED
SAFETY GOGGLES

Microwave Leakage/Water Alarm

GENERAL®

FEATURES   **SPECIFICATIONS**

MICROWAVE LEAKAGE DETECTOR

Ideal for checking Microwave Ovens.

- Check your microwave oven and cook with confidence
- One-handed operation
- No battery needed

♦ Pointer Needle indicates amount of microwave leakage
♦ Green Area means Safety, Red Area means Danger

UPC	NO.
50017 0	**MLD100**

MLD100

MICROWAVE LEAKAGE DETECTOR

Ideal for checking for small leaks on Microwave Ovens.

- Check your microwave oven and cook with confidence
- Detects microwave leakage
- Wand allows leak detection in small areas
- Numeric and Colored Scales
- No battery needed

♦ Range:
  0-2 mV/cm^2
  2450 MHz

UPC	NO.
40290 0	**MLD290**

MLD290

WATER ALARM

Find Leaks from Plumbing, Appliances, Water Heaters etc.

- Detects water leaks from plumbing and appliances
- Alarm sounds when water is detected
- Helps reduce water damage
- Finds mold causing moisture
- Low battery indicator

♦ Dimensions:
  4.3 x 4.3 x 1 in. (109 x 109 x 25mm)
♦ Power Source: 1 "9V" battery (included)

UPC	NO.
80140 8	**WA500**

NEW!

WA500

INDUSTRIAL

FEATURES

SPECIFICATIONS

DELUXE DIGITAL MANOMETERS
Ideal for Industrial Pressure testing.

- Digital display of gauge or differential pressure
- Select: psi, inH_2O, bar, mmHg, $ozin^2$, $kgcm^2$, kPa, ftH_2O, inHg, cmH_2O & mbar
- Bright backlight
- Data hold and record
- Min/Max button
- Simple fittings for hose connection
- RS-232 computer interfacet
- CE and RoHS approved

DM8200 - Industrial requirements such as Manifold Pressure

DM8205 - Industrial requirements such as Balancing Valves

DM8215 - HVAC, Industrial Gas Pressure

DM8230 - Low Static, Negative Pressure

♦ **DM8200**:
  0-100 psi (to 2,768 inH_2O); Res. (bar) 0.4
♦ **DM8205**:
  0-5 psi (to 138 inH_2O); Res. (bar) 0.1
♦ **DM8215**:
  0-15 psi (to 415 inH_2O); Res. (bar) 0.01
♦ **DM8230**:
  0-30 psi (to 830 inH_2O); Res. (bar) 0.002
♦ Power Source: 1 "9V" battery (included)

Includes: • Connection hose
         • Molded hard case

UPC	NO.	
41200 8	**DM8200**	
41210 7	**DM8205**	
41215 2	**DM8215**	
41217 6	**DM8230**	
12710 0	**ASFT KIT**	PC Interface Kit (Optional)

CE RoHS
DM8200
DM8205
DM8215
DM8230

HIGH RESOLUTION DIGITAL MANOMETER
Ideal for Low Static, Negative Pressure testing.

- Digital display of gauge or differential pressure
- Select psi, inH_2O, mmH_2O, bar and mbar
- Bright backlight
- Data hold & record
- Min/Max button
- Simple fittings for hose connection
- **DM8252RS** includes four (4) Rubber Stoppers for Duct Smoke Detectors
- CE and RoHS approved

♦ Range: 0 to 2 psi (to 55 inH_2O)
♦ Accuracy: ±0.3%
♦ Resolution (bar): 0.01
♦ Storage Temperature: -4º to 140ºF
♦ Power Source: 1 "9V" battery (included)

Includes: • Connection hose
         • Molded hard case

UPC	NO.	
41216 9	**DM8252**	
41220 6	**DM8252RS**	w/4 Rubber Stoppers
12710 0	**ASFT KIT**	PC Interface Kit (Optional)

CE RoHS
DM8252
DM8252RS

HEAVY DUTY DIGITAL MANOMETER WITH RS-232 OUTPUT
Heavy Duty HVAC/R, Industrial Pressure measurements.

- Measures: mbar, psi, Kg/cm2, inch/Hg, mm/Hg, inch/H_2O, meter/H_2O, atmosphere
- Dual and differential input, 2000 mbar x 1 mbar
- Data hold
- Zero/relative
- Min/Max Memory
- Auto shut-off
- Low battery indicator
- RS-232 data port
- Optional Software LSFT KIT
- CE and RoHS approved

♦ Sensor: Piezoelectric built inside the housing
♦ Sampling time: Approximately 0.8 second
♦ Operating temperature:
  32º to 122°F (0º to 50°C)
♦ Operating humidity: <80%
♦ Display: 61 x 34mm jumbo LCD display (0.6 in. digit size) with contrast adjustment
♦ Dimensions:
  7.1 x 3.1 x 1.5 in. (180 x 78 x 38mm)
♦ Power Source: 1 "9V" battery (included)

Includes: • Hard padded carrying case
         • 2 Quick connect couplers

UPC	NO.	
41219 0	**PM9100**	Black w/RS-232 computer interface
41218 3	**PM9100HA**	White body (no output)
41420 0	**LSFT KIT**	PC Interface Kit (Optional)

CE RoHS
PM9100
PM9100HA

FEATURES

SPECIFICATIONS

GAS PRESSURE TEST KIT
Rugged, Heavy Duty Field Use.

- Measures Natural gas (methane) or LP gas pressure across appliance manifolds
- Tests gas stoves, furnaces, dryers and other gas appliances. Can also be used for other non-corrosive gases
- Large 2 in. sensitive diaphragm gauge is calibrated in inches of water column, also shows ounces per square inch
- Magnified lens
- Easier to use than a manometer

♦ Range **GPK015**:
   0 to 15 inches of water column (in H_2O)
   0 to 9 ounces per square inch (oz/in2)
♦ Range: **GPK035**:
   0 to 35 inches of water column (in. H_2O)
   0 to 20 ounces per square inch (oz./in2)
Includes: • 2 in. sensitive diaphragm gauge
          • 3 ft. of rubber tubing
          • Brass fitting for quick connection to the appliance manifold 3/8 in. NPT
          • Molded hard case

UPC	NO.
41240 4	**GPK015**
41230 5	**GPK035**

GPK015
GPK035

HYDROGAUGE MANOMETER
Economical Pressure measurements.

- Replaces ordinary U-tube manometers
- Measures gas pressure easily and efficiently
- Direct reading, no plus or minus readings to add together as in old fashioned U-tubes
- Fills like a glass of water, no more troublesome air bubbles
- Strong magnet for mounting
- Heavy-duty construction
- Made of industrial grade, flexible PVC plastic
- Lightweight
- Easy to use

♦ HG15 water column height: 15 in.
♦ Plastic: 30 to 36 in. of industrial grade flexible plastic
♦ Hose fitting: All brass
Includes: • Mounting magnet

UPC	NO.
41225 1	**HG15**

HG15

DIGITAL CHARGING SCALE
Ideal for accurate charging of refrigerant containers.

- Constructed from rigid die cast aluminum
- Heavy duty load cell, built-in overload protection
- Low battery warning with auto power off
- Reading may be zeroed out at any time
- Reliable membrane key pad switches
- Measures lb., oz. and kg.
- Extra large LCD display
- Display unit is desk or wall mountable

♦ Capacity: 220 lbs (100 kg)
♦ Accuracy: ± 1%
♦ Resolution: 0.5 oz. (5g)
♦ Operating Temperature:
   32° to 115°F (0° to 45°C)
♦ Battery Life: (approximately 40 hrs)
♦ Platform Dimensions:
   8-3/4 x 8-3/4 in. (22 x 22cm)
♦ Power Source: 1 "9V" battery (included)
Includes: • Molded hard case

UPC	NO.
01245 1	**DS300RC**

NEW!

DS300RC

INDUSTRIAL

FEATURES

SPECIFICATIONS

DIGITAL VACUUM METER WITH RS-232 COMPUTER INTERFACE

Heavy Duty Use for air, gas, oil etc.

- RS-232 computer interface
- Heavy duty vacuum sensor
- Use for air, oil, gas and more
- Various applications: Automobile, Industrial, Laboratory, Heating, Ventilation, Medical, Hospital
- Hold
- Record
- Min/Max Reading
- Large display
- CE and RoHS approved

♦ Range:
  1125 torr x 1 torr
  1500 mbar x 1 mbar
♦ Units:
  torr, mmHg, micron, KPa, Pa, inch Hg, psi
♦ Dimensions:
  7.1 x 2.8 x 1.3 in. (180 x 72 x 32mm)
Includes: • Molded hard case

UPC	NO.
47025 1	**VC9200**
41420 0	**LSFT KIT** PC Interface Kit (Optional)

CE
RoHS
VC9200

TORQUE METER

Tightness of bolts, machinery adjustments.

- RS-232 computer interface
- 147.1 Newton-cm using remote sensor
- Peak mode
- Data hold
- Zero, Min/Max
- Selectable fast/slow sampling time
- 15 Kg-cm torque sensor included
- CE and RoHS approved

♦ 3 units: 15 Kg-cm/13LB-inch/147.1 N-cm
♦ Dimensions:
  7.1 x 2.8 x 1.3 in. (180 x 72 x 32mm)
♦ Power Source: 1 "9V" battery (included)
Includes: • Instructions
         • Molded hard case

UPC	NO.
43060 6	**TQ8800**
41420 0	**LSFT KIT** PC Interface Kit (Optional)

CE
RoHS
TQ8800

VIBRATION METER

Wide Frequency range for industrial usage.

- Selectable units of in/s or mm/s for Velocity and ft/s squared or m/s squared for Acceleration
- Remote vibration sensor on 39 in. (1m) cable
- Wide frequency range of 10Hz to 1kHz
- Min/Max record values for later recall
- Data hold
- Auto power off
- RMS or peak value measureent
- CE and RoHS approved

♦ Velocity range: 7.87 in/s or 200 mm/s
♦ Acceleration range: 656 ft/s squared
  or 200 m/s squared
♦ Dimensions:
  7.1 x 2.8 x 1.3 in. (180 x 72 x 32mm)
♦ Weight: 0.87 lbs. (395g)
♦ Power Source: 1 "9V" battery (not included)
Includes: • Remote sensor with 3.9 ft. cable
         • Instructions
         • Magnetic mount
         • Molded hard case

UPC	NO.
43052 1	**VB8201HA**

CE
RoHS
VB8201HA

FEATURES　　　　　　**SPECIFICATIONS**

HARDNESS TESTER ASTM RATED - PEN-STYLE
Checks hardness on most metals. True hand-held compact model.

- Quick and reliable
- Wide measuring range: direct display of converted hardness values in Rockwell HRB, HRC, Vickers HV, Brinell HB and Shore HS
- Impact device provides testing at any angle, even upside down
- 1250 readings memory with data output USB
- Min/Max/Avg
- High accuracy ±0.5%
- CE and RoHS approved

♦ Hardness parameter HL, HRC, HRB, HV, HB, HS
♦ Battery life: 16 hours continuous
♦ Auto Power Off: 2 Minutes non use

♦ Display functions: Hardness scale, hardness value, average indicator and average value, impact direction, type of impact device connected, memory reference
♦ Dimensions: 6.2 x 1.6) x 1 in. (158 x 41 x 26mm)
♦ Weight: 4.2 oz. (120g)
♦ Conforming to ASTM A 956
Includes: • Main Unit
　　　　　• Impact Device
　　　　　• Cleaning Brush
　　　　　• Software and Cable
　　　　　• Certificate
　　　　　• Manual
　　　　　• Carrying Case

UPC	NO.
01304 5	**EMHT40**

C E
RoHS
EMHT40

DIGITAL HARDNESS TESTER
Checks hardness on most metals.

- Quick and reliable
- Wide measuring range in Hi value and direct display of converted hardness values in Rockwell HRB, HRC, Vickers HV, Brinell HB and Shore HS
- Impact device provides testing at any angle, even upside down
- 1250 readings memory with data output
- Date and time display
- Low-High settings　• High accuracy ± 0.5%
- CE and RoHS approved

♦ Hardness parameter HL, HRC, HRB, HV, HB, HS
♦ Display functions: Hardness scale, hardness value, times, average indicator and average value, impact direction, type of impact device connected, memory reference, date, time, battery power consumption

♦ Accuracy: Within ± 0.5% (or HLD=800)
♦ Memory: 1250 groups
♦ Output: RS-232 computer interface
♦ Dimensions: 4.25 x 2.5 x 1 in. (108 x 62 x 25mm)
♦ LCD Display dimensions: 5 x 2.5 in. (128 x 64mm)
♦ Weight: 6.4 oz. (180g) including impact device and printer
♦ Conforming to ASTM A 956
♦ Power Source: 2 "AAA" batteries (included)
Includes: • Molded hard case

UPC	NO.
01263 5	**UTEMHT20**

NEW!

C E
RoHS
UTEMHT20

ULTRASONIC THICKNESS GAUGE
Suitable for steel, aluminum, glass etc.

- Easy to operate
- Suitable for steel, stainless steel, aluminum, glass, polystyrene, polyethylene
- 4000 readings memory
- Data output to PC or printer
- High-Low Limits setting
- Sound velocity range 1000 up to 9999m/s
- 4 digit LCD display with settings
- Fast calibration on integrated standard block of 4.00mm
- Backlight display for dark environment
- CE and RoHS approved

♦ Display: 128 x 32 LCD with backlight
♦ Measuring range: 0.026 - 9.843 in. (0.65 - 250mm)

♦ Velocity rate: 1000-9999m/s (0.0393-0.3936 inch/us)
♦ Display resolution selectable: - 0.01inch -0.001inch 0.1mm - 0.01mm
♦ Measurement accuracy: 0.65 - 9.99mm: +/- 0.04mm 10 -99.99mm: +/- (0.1%+0.04)mm 100 - 250mm: +/- 0.3%
♦ Output: RS-232 computer interface
♦ Dimensions: 2.4 x 4.3 x 1.1 in. (61 x 108 x 28mm)
♦ Weight: 8 oz. (230g) including batteries
♦ Power Source: 2 "AAA" batteries (included)
Includes: • Molded hard case

UPC	NO.
01262 8	**UTEGEMTT2**

NEW!

C E
RoHS
UTEGEMTT2
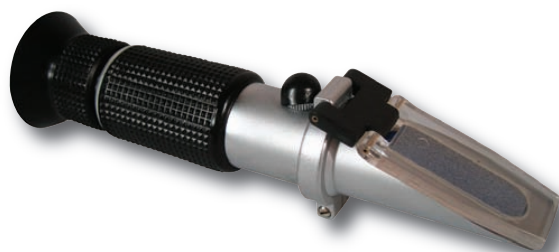
INDUSTRIAL

All refractometers have a metal body with cushioned eyepiece, a rubber hand grip, and a calibration screen. Included with each is a calibration screwdriver, a plastic pipette and a carrying case.

	ATC	INDUSTRIAL FLUIDS	LOW CONCENTRATION JUICES	FRUIT JUICE	HIGH CONCENTRATION JUICES	LOW DENSITY SOLUTIONS	SOFT DRINKS	CANNED GOODS	LOW SUGAR SOLUTIONS	HIGH SUGAR SOLUTIONS	CONDENSED MILK	6.2"L x 1.8"D – WEIGHT 7 OZ	7.5" X 1.3"D – WEIGHT 22 OZ	RESOLUTION (%)
MODEL **REF101** (UPC 44420 9) BRIX 0-10%		X	X									X		0.10%
MODEL **REF102** (UPC 44102 2) BRIX 0-20%		X				X						X		0.20%
MODEL **REF103** (UPC 44103 9) HIGH RANGE BRIX 0-32%		X		X		X						X		0.20%
MODEL **REF104** (UPC 44104 6) BRIX 28-62%		X			X			X		X		X		0.20%
MODEL **REF105** (UPC 44105 3) BRIX 45-82%		X			X					X	X	X		0.50%
MODEL **REF106** (UPC 44106 0) BRIX 58-92%		X	X	X	X	X	X	X		X	X		X	0.20%
MODEL **REF111ATC** (UPC 44101 5) LOW RANGE BRIX 0-10%	X	X	X									X		0.10%
MODEL **REF112ATC** (UPC 44112 1) BRIX 0-20% W/ ATC	X		X						X			X		0.20%
MODEL **REF113ATC** (UPC 44113 8) HIGH RANGE BRIX 0-32%	X	X		X		X						X		0.20%
MODEL **REF114ATC** (UPC 44114 5) BRIX 28-62%	X	X			X			X		X		X		0.20%
MODEL **REF107** (UPC 04410 7) BRIX 0-90%		X	X	X	X	X	X	X	X	X		X		
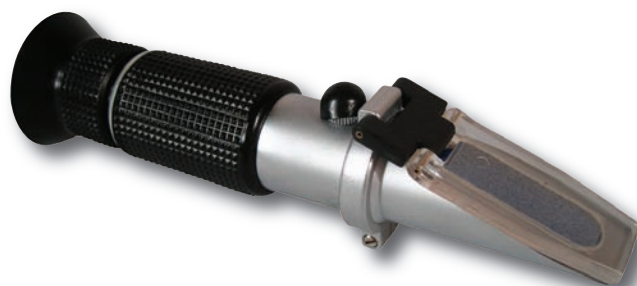
	ATC	OILS, HUGH MV POLYMERS	SEAWATER, BRINE	SALINITY	6.2"L x 1.8"D – WEIGHT 7 OZ	7.5" X 1.3"D – WEIGHT 22 OZ	RESOLUTION (%)
MODEL **REF201** (UPC 44116 9) SALINITY 0-100%		X		X	X		0.10%
MODEL **REF202** (UPC 44115 2) SALINITY 0-28%		X		X	X		0.20%
MODEL **REF211ATC** (UPC 44120 6) SALINITY 0-10%, & SPECIFIC GRAVITY 1.0 - 1.070	X		X	X	X		0.10%, 0.001SG

FEATURES   **SPECIFICATIONS**

	ATC	INDUSTRIAL FLUIDS	OILS, HUGH MV PPOLYMERS	PROTEIN, URINE	BLOOD SERUM, PLASMA, ALBUMEN	ETHYLENE & PROPYLENE GLYCOL	BRAKE FLUID	6.2"L x 1.8"D – WEIGHT 7 OZ	7.5" X 1.3"D – WEIGHT 22 OZ	RESOLUTION (%)
MODEL **REF304** (UPC 44314 9) PROTEIN & URINE 0-12g/dl				X					X	0.2g/gl, 0.005UG, 0.0005ND
MODEL **REF312ATC** (UPC 44312 5) PROTEIN & URINE, 1.000-1.050sg, 1.3330-1.3600RI Protein in Serum	X			X	X				X	0-12g/dl 0.002sg, 0.00025 RI
MODEL **REF401** (UPC 44401 6) GYCOL & BREAK FLUID -60 to 32°F, 1.15 to 1.3 S/G						X	X	X		10°F, 0.01 S/G
MODEL **REF402** (UPC 44410 8) GYCOL & BREAK FLUID -50 to 0°C, 1.15 to 1.3 S/G							X		X	5°C, 0.01 S/G
MODEL **REF109B** (UPC 44108 4) REFRIGERANT OILS 1.435 - 1.520 ND		X	X						X	0.001 ND
MODEL **REF500COT** (UPC 44413 9) Oil, Water & Fluid 1.333 - 1.3840 RI		X								0.2%

DIGITAL WIDE RANGE BRIX REFRACTOMETER

- ATC auto off- 3 min. idle
- Conversion °F/°C degree
- Low voltage alarm

♦ Range: 32° to 104°F (0° to 40°C)
♦ Precision: +1°C
♦ Measure resolution: 0.1°C
♦ Brix: 0 to 35%

♦ Resolution: 0.1
♦ Accuracy: +0.1
♦ Ref index: 1.3330 to 1.3900
♦ Resolution: .0001
♦ Accuracy: +.0003
♦ Dimensions: 6.3 x 1.4 in. (160 x 35mm)
♦ Power Source: 1 "9V" battery (included)
Includes: • Carrying case

UPC	NO.
44425 2	**DREF45-121**

DREF45-121

DIGITAL WIDE RANGE PROTEIN/URINE REFRACTOMETER

- ATC auto off- 3 min. idle
- Conversion: °F & °C degree
- Low voltage alarm

♦ Urine: 1.000 to 1.050sg
♦ Res. 0.001, Acc. +0.001
♦ Protein: 0 to 12g/dl

♦ Resolution: 0.1, Acc. +.1
♦ Ref index: 1.3330 to 1.3900
♦ Resolution: .0001
♦ Accuracy: +.0003
♦ Dimensions: 6.3 x 1.4 in. (160 x 35mm)
♦ Power Source: 1 "9V" battery (included)
Includes • Carrying case

UPC	NO.
44402 7	**DREF/UP320**

DREF/UP320

INDUSTRIAL

"It's Your Job . . . General Tools Make It Easier"   **I-65**

INDUSTRIAL

FEATURES

SPECIFICATIONS

MINI PHOTO TACHOMETER

Non-Contact, ideal for high speed motors.

- Affix a reflective tape to the rotating element to measure
- Precise non-contact measurement
- Auto ranging display
- Two operate buttons for any angle
- Hold function to freeze rotating
- Auto power off (with disable)
- Low battery indicator
- CE and RoHS approved

♦ Range: 10 to 99,999 RPM
♦ Resolution: 0.001; 0.01; 0.1; 1 RPM
♦ Accuracy: ±0.04% + 2 digits
♦ Sampling time:
  1 sec. (>60 RPM); >1 sec. (10 to 60 RPM)
♦ Dimensions:
  4.8 x 2 x 1.3 in. (122 x 51 x 33mm)
♦ Power Source: 1 "9V" battery (included)
Includes: • Reflecting tape

UPC	NO.
43020 0	**PT800**

RoHS
PT800

MINI CONTACT TACHOMETER

Primarily used for smaller motor speeds.

- Measure rotating object by changing contact wheels
- Precise contact measurement
- Auto ranging display
- Two operate buttons for any angle
- Hold function to freeze speed
- Auto power off (with disable)
- Low battery indicator
- CE and RoHS approved

♦ Contact range: 10 to 99,999 RPM
♦ Surface speed: 3 to 30,000 ft/min
♦ Resolution: 0.001; 0.01; 0.1; 1 RPM
♦ Accuracy: ±0.04% + 2 digits
♦ Sampling: 1 sec. (>60 rpm.)
♦ Dimensions:
  5.9 x 2 x 1.3 in. (149.9 x 50.8 x 33mm)
♦ Power Source: 1 "9V" battery (included)
Includes: • Multiple wheels

UPC	NO.
43025 5	**CT801**

RoHS
CT801

DIGITAL STROBOSCOPE

Ideal to use for timing such as automotive or machinery calibration.

- 110V AC
- Accuracy: ±6.05% + 1 digits
- Xenon flash tube
- Display: 10mm Red LED
- AC power
- CE and RoHS approved

♦ Xenon flash tube
♦ Display: 10mm Red LED
♦ Range: 100-10,000 RPM
♦ Accuracy: +/- (0.05% +1d)
♦ Dimensions:
  8.3 x 4.7 x 4.7 in. (210 x 120 x 120mm)
Includes: • 1 AC cable for battery charge

UPC	NO.
40239 9	**DS2239**

RoHS
DS2239

LASER TACHOMETER

Non-Contact, Ideal for high speed motors.

- Jumbo display
- 5 digit LCD display
- Auto ranging
- Wide measuring range
- Laser targeting
- Memory: Min/Max/Last

♦ Range: 2.5 - 99,999 RPM
♦ Resolution: 0.1 RPM (2.5 - 999 RPM)
  1 RPM (over 10,000 RPM)
♦ Accuracy: 0.025 + 1 digit
♦ Sampling time: 1 sec.
♦ Power Source: 3 "AAA" batteries (included)
Includes • Instructions
        • Molded hard case

UPC	NO.
42120 8	**LT2234C**

LT2234C

ALWAYS WEAR
OSHA APPROVED
SAFETY GOGGLES

FEATURES   SPECIFICATIONS

CONTACT/NON-CONTACT TACHOMETER

Can be used in a wide variety of RPM and surface speed measurements.

- Measurement types: Rotation speed (RPM); Total revolutions (REV); Surface speed (I/M, M/M, Y/M, F/M) and Length (M, YD, FT)
- Non-contact RPM measurements up to 100cm from target
- Laser Diode Detection
- Laser sighting
- LCD display
- Auto power off
- 40 point memory: 10 selectable MAX, 10 selectable MIN, 10 selectable AVG, and 10 selectable DATA measurements
- Ultra low power consumption in shutdown mode
- CE and RoHS approved

♦ Non-contact range: 6.0 – 99,999 (RPM)
♦ Contact range: 6.0 – 25,000 (RPM)
♦ Surface speed range: 0.6 – 25,000.0 (M/M), 0.7 – 2734.0 (Y/M), 23.6 – 98425 (I/M), 2.0 – 8202.1 (F/M)
♦ Length range: 1 – 99,999 (REV)
♦ Resolution: 6.0 – 9999.9 RPM : 0.1 RPM, 10,000 – 99,999RPM : 1RPM
♦ Accuracy of Resolution: 6.0 – 5999.9 RPM: +/-0.01% and +/-1 digit 5999.9 – 99,999 RPM: +/-0.05% and +/-1 digit
♦ Response time: 1 second
♦ Operating temperature: 32º – 212ºF (0º – 50°C), 10 – 90%RH
♦ Dimensions: 5.79 x 1.93 x 1.14 in. (147 x 49 x 29mm)
♦ Weight: 3.4 oz. (95g) approx. without battery; Contact adapter: 1.7 oz. (50g)
♦ Power Source: 1 "9V" battery (not included)
Includes: • Cone adapter
      • Funnel adapter
      • Contact adapter
      • Master wheel (10cm)
      • Reflective tape 0.59 x 20.67 in. (15 x 525mm)
      • Molded hard case

UPC	NO.
40900 8	**PCT900**

PCT900

LASER PHOTO/CONTACT TACHOMETER

Can be used in a wide variety of RPM and surface speed requirements.

- Precise contact measurement
- Auto power off (with disable)
- Jumbo display
- 5 digit LCD
- Memory Min/Max/Last
- 2.3 to 6,560 RPM
- Contact: 0.5 to 1.999 RPM

♦ Contact range: 10 to 99,999 RPM
♦ Surface speed: 3 to 30,000 ft./min.
♦ Resolution: 0.001; 0.01; 0.1; 1 RPM
♦ Accuracy: ±0.04% + 2 digits
♦ Sampling: 1 sec. (>60 rpm)
♦ Dimensions: 5.9 x 2 x 1.3 in. (150 x 51 x 33mm)
♦ Power Source: 1 "9V" battery (included)
Includes: • Spare wheels
      • Molded hard case

UPC	NO.
42110 9	**PCT2236B**

PCT2236B

CONTACT TACHOMETER

Primarily used for motor speeds.

- Jumbo display
- 5 digit LCD display
- Auto ranging
- Surface speed m/min
- Memory: Min/Max/Last

♦ Range: 0.5 - 19,999 RPM
♦ Resolution: 0.1 RPM (0.5 to 99,999 RPM) 1 RPM (over 1000 RPM)
♦ Sample time: 0.55 sec.
♦ Power Source: 4 "AA" batteries (not included)
Includes: • Instructions
      • Molded hard case

UPC	NO.
42115 4	**CT6235B**

CT6235B

INDUSTRIAL

FEATURES

SPECIFICATIONS

DIGITAL HOTWIRE ANEMOMETER WITH RS-232 COMPUTER INTERFACE
Ideal for fans/motors/blowers, furnace velocities, paint spray booths, environmental testing.

- For lower velocity measurements
- Slim probe
- Large 1.4 in. (36mm) dual LCD display
- Heavy duty case
- Data hold
- Records Min/Max readings
- Auto power off
- RS-232 computer interface
- Telescoping probe is ideal for measuring in HVAC ducts and other small vents; extends up to 4 ft.
- CE and RoHS approved

♦ Temperature: 32° to 122°F (0° to 50°C)
♦ Airflow: 0.2 - 20 m/s
        0.7 - 72 km/h
        40 - 3940 ft/min
        0.5 - 44.7 mile/h
        0.4 - 38.8 knots
♦ Power Source:
  1 "CR2032" battery (included)
  4 "AA" batteries (not included)
Includes: • Molded hard case and probe

UPC	NO.
40120 0	**HWA4204HA**
40121 7	**P4204** Replacement Vane (Optional)
41420 0	**LSFT KIT** PC Interface Kit (Optional)

CE RoHS
HWA4204HA

MINI VANE ANEMOMETER WITH TEMPERATURE
Air Circulation, Obstructions, Ducts.

- Single Hand Airflow Measurement
- Lightweight and small size
- 2 piece instrument
- Metal probe
- Digital display
- Mini Vane
- RS-232 computer interface
- CE and RoHS approved

♦ Range: 0.8 to 12 m/s
♦ 9999 count LCD
♦ m/s, ft/min, km/h, knots, mile/h, Temp
♦ Basic accuracy:
  +/-2% rdg; +/-1.5°F (+/-0.8°C)
♦ Power Source: 1 "9V" battery (not included)
Includes: • Molded hard case and probe

UPC	NO.
40125 5	**DAF80MIN**
40137 8	**P80MIN** Replacement probe (Optional)
41420 0	**LSFT KIT** PC Interface Kit (Optional)

CE RoHS
DAF80MIN

HEAVY DUTY ANEMOMETER WITH TEMPERATURE
Spray Booths, Blowers, Fans.

- 2 piece instrument
- Digital display
- Plastic Vane
- Metal probe
- Heavy duty
- RS-232 computer interface
- Data hold
- Records Min/Max readings
- CE and RoHS approved

♦ Range: 0.4 to 25 m/s
♦ 9999 count LCD
♦ m/s, ft/min, km/h, knots, mile/h
♦ Temperature: 32° to 122°F; (0° to 50°C)
♦ Basic accuracy:
  +/-2% rdg; +/-1.5°F (+/-0.8°C)
♦ Vane: 2.83 in. (72mm)
♦ Power Source: 1 "9V" battery (not included)
Includes: • Molded hard case and probe

UPC	NO.
40130 9	**DAF80PW**
01253 6	**P80W** Replacement probe (Optional)
41420 0	**LSFT KIT** PC Interface Kit (Optional)

CE RoHS
DAF80PW

HIGH TEMPERATURE METAL VANE ANEMOMETER
HVAC/R Environment, Exhausts, Blowers.

- 2 Piece Digital Metal Vane Anemometer
- Metal probe
- Heavy duty
- RS232 computer interface
- Data hold
- Records Min/Max readings
- Airflow displayed in 3 modes:
  - -Instant value
  - -up to 20 point average
  - -2/3 flow value
- CE and RoHS approved

♦ Range: 0.5 to 35 m/s; 100 to 7880 ft/min;
  1.8 to 144.0 km/h; 1.0 to 78.1 knots;
  1.1 to 89.4 mph
♦ 9999 count LCD
♦ Temperature: 32° to 175°F (0° to 80°C)
♦ Measures: m/s, ft/min, km/h, knots, mile/h, temperature
♦ Power Source: 1 "9V" battery (not included)
Includes: • Molded hard case and probe

UPC	NO.
40135 4	**DAF80PWM**
40136 1	**P80M** Replacement vane (Optional)
41420 0	**LSFT KIT** PC Interface Kit (Optional)

CE RoHS
DAF80PWM

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

FEATURES

SPECIFICATIONS

DIGITAL ONE PIECE AIRFLOW METER WITH CFM DISPLAY

HVAC/R Environment, Exhausts, Blowers.

- Displays: CFM, FPM, MPH, KPH, MPS, temp and knots
- Single hand airflow measurement
- Handy recessed service grip
- Single and multi-point average
- RS-232 output
- Min/Max
- Data hold
- °F/°C switch
- CE and RoHS approved

♦ Range:
  14º to 122ºF (-10º to 50ºC)
♦ Airflow velocity range: 0 to 99,999 CFM
  Air velocity range: 80 to 5900 FPM
  (0.4 to 30 m/s)
♦ Accuracy: ±3% full scale, ±2ºF (±1ºC)
♦ Resolution: 1 ft/min (0.01 m/sec), 0.1º
♦ Dimensions: 7 x 2.5 x 1.75 in.
  (183 x 76 x 45mm); Fan: 2.8 in. (70mm)
♦ Display size: 1.25 x 1.625 in.
♦ Power Source: 1 "9V" battery (included)
Includes: • Molded hard case

UPC	NO.
40015 9	**DCFM8906**
80906 4	**DCFM8906CERT**
12710 0	**ASFT KIT** PC Interface Kit (Optional)

DCFM8906
DCFM8906CERT

DIGITAL TWO PIECE AIRFLOW METER WITH RS-232 COMPUTER INTERFACE

Measures air velocity, calculated air volume flow, air temperature.

- Instant display of CFM, FPM, CMS, MPS and temperature
- Min/Max
- Data hold
- Single point average
- Multi-point average
- RS-232 computer interface
- °F/°C switch
- CE and RoHS approved

♦ Range:
  14º to 122ºF (-10º to 50ºC)
♦ Airflow volume range: 0 to 9,999 CFM
  Air velocity range: 80 to 6900 FPM
  (0.4 to 35 m/s)
♦ Accuracy: ±2% full scale, ±1ºF (±0.6ºC)
♦ Resolution: 1 ft/min (0.01 m/sec), 0.1º
♦ Cord length: 20.5 in. extends to 4.5 ft.
♦ Dimensions: 7.1 x 2.8 x 1.5 in.
  (181 x 71 x 38mm); Fan: 2.9" (73mm)
♦ Weight: 10.4 oz. (295g)
♦ Power Source: 1 "9V" battery (included)
Includes: • 1 Remote probe
         • Molded hard case

UPC	NO.
40005 0	**DCFM8901**
01252 9	**DCFM8901CERT**
40006 7	**P8901** Replacement Vane
12710 0	**ASFT KIT** PC Interface Kit (Optional)

DCFM8901
DCFM8901CERT

DIGITAL ANEMOMETER WITH CFM

HVAC/R Environment, Exhausts, Blowers.

- Instant Display for Air Velocity and Temperature
- Min/Max/Avg
- Easy Airflow Volume Calculation (CFM/cmm)
- 10 Memory Data Storage/ Recalling/ Clearing
- Data Hold/Test Function
- Low Battery Indication
- Auto Power Off
- CE and RoHS approved

♦ Range: –58º to 158°F (-50º to 70°C)
♦ Resolution: ± 0.1º
♦ Accuracy: ±0.9°F for 32º to 122°F
  (±0.5°C for 0º to +50°C),
  otherwise 1.8°F (±1°C)
♦ CFM range: 0 to 99,999
  FPM range: 0 to 8800
♦ Operating Environment:
  –14º to 158°F (-10º to 70°C)
♦ Storage Environment:
  –14º to 158°F (-10º to 70°C)
♦ Sampling Time: 1 second
♦ Dimensions:
  Meter: 6.9 x 3.3 x 1.4 in. (175 x 85 x 35mm)
  Vane: 6.1 x 3 x 1.4 in. (170 x 75 x 35mm)
♦ Weight: 10 oz. (280g)
♦ Power Source: 3 "AAA" batteries (included)

RoHS
DCFM700

Includes: • Molded hard case

UPC	NO.
40700 4	**DCFM700**

NEW!

FEATURES

SPECIFICATIONS

DIGITAL AIRFLOW METER WITH CFM, BTU, TEMP, HUMIDITY, DP, FPM, MPH, KPH, MPS, KNOTS & WET BULB

HVAC Environment, Exhausts, Blowers.

- Single hand airflow measurement
- Handy recessed service grip
- Single and multi-point average
- RS-232 computer interface
- Min/Max
- Data hold
- °F/°C switch
- CE and RoHS approved

♦ Range: -4° to 140°F (-20° to 60ºC):
  +/-1F(.6C)
  Resolution: 0.1°F (0.1°C)
♦ Relative Humidity: 0 to 100%:
  +/-3% 0-90%, +/-5% other ranges
  Resolution: 0.1%
♦ Dew Point: -90° to 158°F (-68° to 70ºC)
  Resolution: 0.1°F (0.1°C)

♦ Wet Bulb Temperature:
  -7.6° to 158°F (-22° to 70ºC)
  Resolution: 0.1°F (0.1°C)
♦ Air Velocity: 1 to 114 ft./S (0.3 to 35m/S)
  Accuracy: +/- 5%   Resolution: 0.1
♦ Air Volume:
  0 to 99999cfm (0 to 99999m3/S)
  Accuracy: +/-5% Resolution: 0.1
♦ BTU Capacity: 0-99999BTU (KW)
  Resolution: 0.1 (0-9999), 1 (10000-99999)
♦ Dimensions:
  Vane: 6.6 x 3.0 x 2.7 in. (170 x 77 x 40mm)
  Meter: 6.8 x 2.7 x 1.2 in. (175 x 70 x 33mm)
♦ Weight: 10.4 oz. (295g)
♦ Power Source: 4 "AA" batteries (included)
Includes: • Hard case

UPC	NO.
01249 9	**WDCFM8912**
01300 7	**WDCFM8912CERT**
12710 0	**ASFT KIT** PC Interface Kit (Optional)
01291 8	**P8912** Replacement Vane (Optional)

WDCFM8912
WDCFM8912CERT

CE
RoHS

HOT WIRE ANEMOMETER WITH REAL-TIME DATA LOGGER

Food Processing, Grain Storage and Drying.

- High capacity 16,000 data logger nos.
- Real-time data logger - records Year, Month, Date, Hour, Minute and Second
- Reads Air Velocity, Airflow, Temperature and "K" and "J" Type temperature
- Hot Wire Anemometer, High Precision for low air velocity measurement
- Telescopic Probe
- RS-232 computer interface
- Jumbo LCD display
- Min/Max
- Data Hold
- Zero Adjustment
- CE and RoHS approved

♦ Range: 0.2 to 20.0m/S CMM and CFM
♦ Dimensions:
  8 x 3 x 1.5 in. (203 x 76 x 38mm)
♦ Power Source:
  1 "CR2023" battery (included)
  4 "AA" batteries (not included)
Includes: • Molded hard case

UPC	NO.
40119 4	**HWA2005DL**
01259 8	**PHWA2005** Replacement probe (Optional)
41420 0	**LSFT KIT** PC Interface Kit (Optional)

HWA2005DL

CE
RoHS

HIGH TEMPERATURE DATA LOGGING AIRFLOW METER

HVAC/R Environment, Exhausts, Blowers.

- High Capacity 16,000 Data Points
- Real-time data logger - records Year, Month, Date, Hour, Minute and Second
- Measures Air Velocity, Airflow, Temperature and Type "K" and "J" Temperature
- Heavy Duty Metal Vane
- Jumbo LCD Display
- Min/Max
- Data Hold
- RS-232 computer interface
- CE and RoHS approved

♦ Temperature: 32° to 122°F (0° to 50ºC)
♦ Range: .5 to 30.0m/S CMM, CFM
♦ 9999 count LCD
♦ Dimensions:
  7.9 x 2.9 x 1.4 in. (203 x 76 x 38mm)
♦ Power Source: 4 "AA" batteries (included)
Includes: • Molded hard case and probe

UPC	NO.
40133 0	**DAF2005MDL**
01260 4	**P2005DAF** Replacement probe (Optional)
41420 0	**LSFT KIT** PC Interface Kit (Optional)

DAF2005MDL

CE
RoHS

INDUSTRIAL

FEATURES **SPECIFICATIONS**

MINI AIRFLOW/TEMPERATURE, METER WITH WINDCHILL, COMPASS, PRESSURE & ALTITUDE

Comfort Levels, Food Processing, Outdoors.

- Measures Windspeed, Maximum windspeed, Temperature, Windchill factor
- Digital compass
- Altitude
- Barometric air pressure
- 48-hr history of pressure and altitude
- Backlight display
- One button operation
- Weatherproof (can be submerged 6 ft.)
- Completely sealed; internal sensors
- Stainless steel back
- Auto-off after one minute (can be disabled to remain on)
- Designed in Switzerland
- CE and RoHS approved

♦ Temperature Range:
  -58° to 212°F (-50° to 100°C)
  Resolution: 0.2°F (-0.1°C)
  Accuracy: +/- 0.5°F (+/- 0.3°C)
  Measuring Cycle: Twice per second
♦ Windspeed:
  Units: km/h, mph, m/s, fps, knots
  Range: 0.7 to over 94 mph
  1.1 to over 150km/h
  Resolution: 0.1 unit
  Accuracy: +/- 3% from 2.0 to 94 mph
  (3.1 to 150km/h)
  Measuring Cycle: Twice per second
♦ Compass: Range: 0° to 359° off North
  Resolution: 1°
  Accuracy: +/- 4° when calibrated
  Measuring Cycle: Twice per second
  Altitude: -2,300 to 29,500 ft. (-700 to 9,000m)
  Resolution: 3 ft. (1m)
  Measuring Cycle: Once per second
♦ Pressure: 8.86 to 32.50 inHg (300 to 1100 hPa)
  Resolution: 0.01 inHg, 1 hPa
  Accuracy: +/- 0.03 inHg (+/- 1 hPa)
  Measuring Cycle: Once per second
♦ Dimensions:
  3.5 x 1.5 x 0.75 in. (41 x 93 x 17mm)
♦ Weight: 2 oz. (50g)
♦ Power Source: Replaceable Lithium battery
  (included and installed)
Includes: • Lanyard

UPC	NO.
00400 5	**DAF4000**

CE
RoHS
DAF4000

MINI AIRFLOW/TEMPERATURE METER WITH WIND CHILL AND COMPASS

Comfort Levels, Outdoors.

- Measures Windspeed, Maximum windspeed, Temperature, Windchill factor
- Digital compass
- Backlight display
- One button operation
- Weatherproof (can be submerged 6 ft.)
- Completely sealed; internal sensors
- Stainless steel back
- Auto-off after one minute (can be disabled to remain on)
- Designed in Switzerland
- CE and RoHS approved

♦ Temperature Range: -58° to 212°F
  (-50° to 100°C)
  Resolution: 0.2°F, (-0.1°C)
  Accuracy: +/- 0.5°F (+/- 0.3°C)
  Measuring Cycle: Twice per second
♦ Windspeed:
  Units: km/h, mph, m/s, fps, knots
  Range: 0.7 to over 94 mph
  1.1 to over 150km/h
  Resolution: 0.1 unit
  Accuracy: +/- 3% from 2.0 to 94 mph
  (3.1 to 150km/h)
  Measuring Cycle: Twice per second
♦ Compass: Range: 0° to 359° off North
  Resolution: 1°
  Accuracy: +/- 4° when calibrated
  Measuring Cycle: Twice per second
♦ Dimensions:
  3.5 x 1.5 x 0.75 in. (41 x 93 x 17mm)
♦ Weight: 2 oz. (50g)
♦ Power Source: Replaceable Lithium battery
  (included and installed)
Includes: • Lanyard

UPC	NO.
50330 0	**DAF3300**

CE
RoHS
DAF3300

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FEATURES

SPECIFICATIONS

MINI AIRFLOW/TEMPERATURE METER WITH WIND CHILL

Measures wind speed and temperature.

- Measures Windspeed, Maximum windspeed, Temperature, Windchill factor
- EL Backlight
- One button operation
- Weatherproof (can be submerged 6 feet)
- Completely sealed; internal sensors
- Stainless steel back
- Auto-off after one minute (can be disabled to remain on)
- Designed in Switzerland

♦ Range: -58° to 212°F (-50° to 100°C)
   Resolution: 0.2°F (-0.1°C)
   Accuracy: +/- 0.5°F (+/- 0.3°C)
   Measuring Cycle: Twice per second
♦ Windspeed:
   Units: km/h, mph, m/s, fps, knots
   Range: 0.7 to over 94 mph
   1.1 to over 150km/h
   Resolution: 0.1 unit
   Accuracy: +/- 3% from 2.0 to 94 mph
   (3.1 to 150km/h)
   Measuring Cycle: Twice per second
♦ Dimensions:
   3.5 x 1.5 x 0.75 in. (41 x 93 x 17mm)
♦ Weight: 2 oz. (50g)
♦ Power Source: 1 "Lithium" battery (included)
Includes: • Lanyard

UPC	NO.
40115 6	**DAF3010**

RoHS

DAF3010

MINI WATER PROOF DIGITAL AIRFLOW METER WITH TEMPERATURE AND WIND CHILL

Ideal for HVAC/R contractors to measure airflow in ducts, at grill returns, etc. Also great for automotive technicians to diagnose any AC and ventilation related issues.

- Measures wind speed, temperature and wind chill
- Displays wind speed in M/H, FT/M, KNT, M/S, KMH and Beaufort
- °C/°F switchable
- Protective cap ensures sensitive impeller is protected from the elements and occasional drops
- Data hold
- Max wind speed reading
- Low battery indicator
- Auto-off
- CE certified

♦ Air Speed Range (Resolution):
   60-3937FT/M (2)   0.5-44.7 M/H (0.1)
   0.4 – 38.8 KNT (0.1)   1.1 – 20.0 M/S (0.1)
   0.9-72.0 KMH (0.1)   1-8 Beaufort (1)
♦ Air Speed Accuracy: +/- 5%
♦ Temperature range (resolution): 32° – 122°F (0.1) or 0° - 50°C (0.1)
♦ Temperature accuracy: +/- 2°F (1°C)
♦ Battery life: 48 hours (continuous use)
♦ Dimensions:
   5.1 x 1.7 x 0.6 in. (130 x 43.5 x 16mm)
♦ Weight: 5oz. (142g) approximately

UPC	NO.
01405 9	**DAF3010A**

RoHS

DAF3010A

AIRFLOW SEEKER™ DIGITAL AIRFLOW METER

Ideal for contractors, auto technicians and homeowners to measure and monitor the airflow efficiency in AC and ventilation systems and for outdoor use.

- Measures current, average, or maximum wind speed
- Wind chill indication
- LCD display with backlight for easy reading
- Selectable air speed units of ft/min, m/s, km/hr, MPH, and Knots for maximum applications
- °F/°C switchable for temperature measurement
- Battery status indication

♦ Operating Environment:
   Temperature: 32° to 113°F (0 to 45°C)
   Relative humidity: <80%
♦ Storage Environment:
   Temperature: 14° to 122°F (-10 to 50°C)
   Relative humidity : <85%
♦ Dimensions: 5 x 3 x 1 in. (120 x 70 x 26.5mm)
♦ Weight: 2.5 oz. (70g) (including battery)
♦ Power Source: 1 "CR2032" battery or "3V" button cell (included)
♦ Power Source: 1 "9V" battery (not included)

UPC	NO.
40105 7	**DAF3010B**

DAF3010B

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FEATURES   **SPECIFICATIONS**

4-IN-1 ENVIRONMENTAL AIRFLOW METER

Measures airflow, humidity, temperature and light.

- 4-in-1 professional measuring instrument: Anemometer/Hygrometer/Thermometer/Light meter
- Bone shape with lightweight and small size case
- Wristlet design provides extra protection to the instrument especially for user one hand operation
- Low-friction ball bearing mounted wheel design provides high accuracy at high and low air velocity
- Exclusive photo diode and color correction filter
- High precision thin-film capacitance humidity sensor with fast response to the humidity changes.
- Standard type "K" (NiCr-NiAl) thermocouple input
- Built-in microprocessor circuit assures accuracy
- CE and RoHS approved

♦ Ambient range: 32° to 122ºF (0° to 50ºC)
♦ "K" type range: 32° to 932ºF (0° to 500ºC)
♦ Airflow: 0.4 - 30m/S
♦ Humidity: 10 - 95 r/t
♦ Light: 0 - 2,000 fc, 0 - 20,000 LUX
♦ Spectrum meets C.I.E. photopic
♦ Display: 8mm LCD display
♦ Power Source: 1 "9V" battery (not included)
Includes: • Safety strap
  • Optional C4 case
  • Optional: "K" type thermocouple probes (not included)

UPC	NO.
40110 1	**DLAF8000**
40111 8	**DLAF8000C** with case
25015 0	**TPK500** "K" type thermometer (Optional)

DLAF8000
DLAF8000C

MINI DIGITAL AIRFLOW METER

Measures airflow in ducts, at grill returns, and helps balance systems.

- Airflow displayed in 5 measuring units (ft/min, m/s, km/h, MPH, knots)
- Min/max button with recall feature
- Data hold freezes current value
- Lightweight, easy-to-hold shape
- Low friction ball vane wheel provides high accuracy at all air velocities
- Auto power off after 10 minutes of inactivity
- CE and RoHS approved

♦ Ambient range: 32° to 132ºF (0° to 50ºC)
♦ Airflow range: 80 to 5910 FPM (0.4 to 30m/S)
♦ Accuracy: ±3% full scale
♦ Resolution: 1 ft/min (0.1 m/sec)
♦ Dimensions: 6.15 x 2.36 x 1.29 in. (156 x 60 x 33mm)
♦ Weight: 5.6 oz. (159g)
♦ Power Source: 1 "9V" battery (not included)
Includes: • Lanyard

UPC	NO.
40105 7	**DAF800**

DAF800

FLOW WATCH

For water and air speed measurements.

- Displays instant speed
- Average (3 sec.-24 hr.) min and max speed Temperature
- Speed units: km, h, m/s, knots, mph, fps and cm/s
- Backlight
- Aluminum bottom plate for tripod attachment
- Waterproof
- Engineered in Switzerland
- CE and RoHS approved

♦ Operating temp: -4° to 158ºF (-20° to 70ºC)
♦ Dimensions: 6.1 x 2.6 in. (155 x 65mm)
♦ Power Source: 2 "AA" batteries (included)
Includes:
• Display unit
• Air Impeller 0.47 and 0.79 in. (12 and 20mm)
• Water impeller 2.36 in. (60mm)
• Aluminum telescopic rod: 3.9 ft. (1.2m) w 6.6 ft. (2m) cable 3.9 in. (10cm) probe
• 59 ft. (15m) sounding cable with water speed impeller
• Aluminum carrying case with all accessories

UPC	NO.
01374 8	**FW450**

FW450

INDUSTRIAL

FEATURES

SPECIFICATIONS

FRUIT HARDNESS TESTER – SMALL, SOFT FRUITS
Know when to pick and ship your fruits.

FHT801

- Target Fruits: Strawberry, cherry, grape, peach, banana, apricot, plum, melon, citrus and persimmon
- Fruit penetrometer tests ripeness of small, soft fruits
- Reads in kilograms, pounds, newtons or pascals
- Automatic shutoff and hard carrying case

- ♦ Testing Range: 2.84 - 71.12 lbf/sq. in.
- ♦ Resolution: <10 = 0.01
  10 - 99.9 = 0.1   >100 = 1.0
- ♦ Accuracy: ±(1%H + 1.4) lbf/sq. in.
- ♦ Dimensions: 8 x 2-3/8 x 13/16 in.
- ♦ Tip Size: 3.5mm
- ♦ Weight: 8.1 oz. (229g)
- ♦ Power Source: 4 "AAA" batteries (not included)

Includes: Hard carrying case

UPC	NO.
01366 3	**FHT801**

FRUIT HARDNESS TESTER – LARGE, HARD FRUITS
Know when to pick and ship your fruits.

FHT803

- Target Fruits: Pear, nectarine, kiwi, avocado, apple (use 11.1 tip for apples)
- Fruit penetrometer tests ripeness of small, soft fruits
- Reads in kilograms, pounds, newtons or pascals
- Automatic shutoff and hard carrying case

- ♦ Testing Range:
  7.9mm = 2.84 - 156.50 lbf/sq. in.
  11.1mm = 5.69 - 312.91 lbf/sq. in.
- ♦ Resolution: <10 = 0.01   10 - 99.9 = 0.1
  >100 = 1.0
- ♦ Accuracy: ±(1%H + 1.4) lbf/sq. in.
- ♦ Dimensions: 8 x 2-3/8 x 13/16 in.
- ♦ Tip Size: 7.9 and 11.1mm
- ♦ Weight: 8.1 oz. (229g)
- ♦ Power Source: 4 "AAA" batteries (not included)

Includes: Hard carrying case

UPC	NO.
01367 0	**FHT803**

PRECISION DIGITAL SOIL MOISTURE METER WITH PROBE
Agricultural professional use.

DSMM500

- Soil moisture content measurement
- Heavy duty probe
- Easy operation
- Hold, Record (Min/Max)
- IP-65 Water resistance
- Heavy duty
- CE and RoHS approved

- ♦ Range: 0 - 50% moisture content
- ♦ Probe length: 0.8 in. (20mm)
- ♦ Power Source: 4 "AAA" batteries (not included)

UPC	NO.
01240 6	**DSMM500**

GRAIN MOISTURE METER
Ideal for use in grain storage and other industrial settings.

MMG608

- Microprocessor design
- Large LCD display
- 4 digit display
- Rugged construction
- Light weight

- ♦ Range: 8 - 20% moisture content
- ♦ Range: -0º to 122ºF (-10º to 80ºC)
- ♦ 4 ft. wire cord
- ♦ 1 ft. probe
- ♦ Power Source: 4 "AA" batteries (included)

Includes: • Hard case
  • Instructions
  • 1 steel dual probe with 3 ft. cord

UPC	NO.
10197 1	**MMG608**

AGRICULTURE

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FEATURES   SPECIFICATIONS

LONG-STEM ANALOG THERMOMETERS
For agricultural and gardening application.

- Ideal for agriculture
- Glass lens
- Durable stainless steel probe
- Rugged construction
- Large, easy to read display

♦ Range: 0° to 220°F
♦ 2 in. dial
♦ **PT2008G-220**: 8 in. long
♦ **PT2020G-220**: 20 in. long

UPC	NO.	
23101 2	**PT2008G-220**	8 in. stem
23105 0	**PT2020G-220**	20 in. stem

PT2008G-220
PT2020G-220

LONG-STEM AGRICULTURAL THERMOMETER
Ideal for agricultural applications and gardening.

- Extra-long analog thermometer
- For agricultural use
- Glass lens
- Rugged design
- Ideal for compost

♦ Range: 0° to 220°F (-10° to 100°C)
♦ 3 in. dial
♦ 36 in. long stem
♦ 1/2 in. NPT fitting

UPC	NO.
23103 4	**T300-36**

T300-36

SOIL MOISTURE & LIGHT METER
Checks for adequate lighting and moisture.

- Easy to use
- Heavy duty probe
- Instantly indicates watering needs and light conditions
- No batteries needed

♦ Dimensions:
  3.9 x 2.6 x 1.1 in. (100 x 65 x 28mm)
♦ Weight: 3.2 oz. (90g)
Includes: • Plant watering and light chart

UPC	NO.
10017 2	**GLMM100**

NEW!

GLMM100

SOIL MOISTURE METER
Checks for adequate moisture.

- Heavy duty probe
- Instantly indicates watering needs
- Plant watering chart included
- No batteries needed

♦ Dimensions:
  10 x 2.2 x 1.1 in. (255 x 55 x 28mm)
♦ Weight: 1.8 oz. (50g)

UPC	NO.
10018 9	**GLMM200**

NEW!

GLMM200

SOIL PH TESTER
Checks for proper pH.

- Easy to use
- Heavy duty probe
- Instantly reads soil or compost acidity
- Plant pH chart included
- No batteries needed

♦ Dimensions:
  10 x 2.2 x 1.1 in. (255 x 55 x 28mm)
♦ Weight: 1.6 oz. (45g)

UPC	NO.
10019 6	**GLMM300**

NEW!

GLMM300

AGRICULTURE

FEATURES

DIGITAL pH METER

Food preparation and solution balance.

- Digital display
- Automatic temperature compensation
- IP-57 Waterproof. Unit Floats
- Pocket-sized
- Lightweight
- Min/Max; Data Hold
- CE and RoHS approved

SPECIFICATIONS

- ♦ pH: -2 to 16
- ♦ ORP: -1000 to 1000
- ♦ Temperature: 32° to 194°F (0° to 90°C)
- ♦ Dimensions:
  7.7 x 1.6 x 1.4 in. (195 x 40 x 36mm)
- ♦ Weight: 4.8 oz. (135g)
- ♦ Power Source: 4 "AAA" batteries (included)
- Includes: • Soaking Solution
  • Buffer Solutions pH 4 & 7
  • Hard case

UPC	NO.
01235 2	**DPH7011**

DPH7011

DIGITAL CONDUCTIVITY METER

Ideal for field checks of water-based solutions.

- Digital display
- Automatic temperature compensation
- IP-57 Waterproof
- One key calibration
- Unit Floats
- Pocket-sized
- Lightweight
- Min/Max, Data Hold
- CE and RoHS approved

- ♦ Conductivity: 0 to 2000 µS
- ♦ TDS: 0 to 1300 ppm
- ♦ Salinity: 0 to 1000 ppm
- ♦ Temperature: 32° to 194°F (0° to 90°C)
- ♦ Dimensions:
  7.7 x 1.6 x 1.4 in. (195 x 40 x 36mm)
- ♦ Weight: 4.8 oz. (135g)
- ♦ Power Source: 4 "AAA" batteries (included)
- Includes: • Hard case
  • Standard Solution 1413 µS/cm

UPC	NO.
01254 3	**DCM7021**

DCM7021

COMPLETE WATERPROOF SELF CALIBRATING MICRO PROCESSOR KIT: PH, MV, TEMP, COND, TDS, SALT

For water treatment plants, industrial pollution control, lab and field use.

- Digital display
- Automatic temperature compensation
- IP-57 Waterproof
- Single key calibration
- Meter Floats
- Pocket sized
- Lightweight
- Min/Max, Data Hold
- CE and RoHS approved

- ♦ pH: -2 to 16
- ♦ ORP: -1000 to 1000
- ♦ Conductivity: 0 to 2000 µS
- ♦ TDS: 0 to 1300 ppm

- ♦ Salinity: 0 to 1000 ppm
- ♦ Temperature: 32° to 194°F (0° to 90°C)
- ♦ Dimensions:
  7.7 x 1.6 x 1.4 in. (195 x 40 x 36mm)
- ♦ Weight: 4.8 oz. (135g) Kit: 27.5 oz. (780g)
- ♦ Power Source: 6 "AAA" batteries (included)
- Includes: • Standard Solution 1413 µS/cm
  • Soaking Solution
  • Buffer Solutions pH 4 & 7
  • Hard case
  • pH and conductivity probes
- Optional: ORP probe

UPC	NO.
01248 2	**WK7200**
01377 9	**ORP7200**

WK7200

POCKET pH METER

Ideal for cooling towers.

- Digital display
- Pocket sized
- Automatic temperature compensation
- Lightweight
- CE and RoHS approved

- ♦ Electrode extends to 3.15"
- ♦ pH range: 0.0 to 14.0 pH
- ♦ Dimensions:
  6.2 x 1.5 x 1.3 in. (157 x 38 x 33mm)
- ♦ Weight: 4 oz. (113g)
- ♦ Power Source: 1 "9V" battery (included)
- Includes: • Hard carrying case
  • Calibration solution
  • Calibration screwdriver

UPC	NO.
41350 0	**PH501**

PH501

WATER QUALITY

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

Meters pH, EC, TDS, Conductivity

FEATURES **SPECIFICATIONS**

CONDUCTIVITY METER

Ideal for field checks of water-based solutions.

- Digital display
- Automatic temperature compensation
- Pocket-sized
- Lightweight
- CE and RoHS approved

♦ Electrode extends to 3.15 in.
♦ Conductivity range: 10 to 9,990 µS/cm
♦ Dimensions:
   6.2 x 1.5 x 1.3 in. (157 x 38 x 33mm)
♦ Weight: 4 oz. (113g)
♦ Power Source: 1 "9V" battery (included)
Includes: • Hard carrying case
             • Calibration solution
             • Calibration screwdriver

UPC	NO.
41400 2	**CO502**

RoHS
CO502

POCKET EC METER

Substrate analysis and nutrient concentration.

- Digital display
- Pocket-sized
- Automatic temperature compensation
- Lightweight
- CE and RoHS approved

♦ Electrode extends to 3.15 in.
♦ Range: 0.0 to 20.0 EC
♦ Dimensions:
   6.2 x 1.5 x 1.3 in. (157 x 38 x 33mm)
♦ Weight: 4 oz. (113g)
♦ Power Source: 1 "9V" battery (included)
Includes: • Hard carrying case
             • Calibration solution
             • Calibration screwdriver

UPC	NO.
41415 6	**EC506**

RoHS
EC506

POCKET TDS METER

Water treatment plants and industrial pollution control.

- Digital display
- Pocket-sized
- Automatic temperature compensation
- Lightweight
- CE and RoHS approved

♦ Electrode extends to 3.15 in.
♦ Range: 10 to 9990 ppm
♦ Dimensions:
   6.2 x 1.5 x 1.3 in. (157 x 38 x 33mm)
♦ Weight: 4 oz. (113g)
♦ Power Source: 1 "9V" battery (included)
Includes: • Hard carrying case
             • Calibration solution
             • Calibration screwdriver

UPC	NO.
41410 1	**TDS503**

RoHS
TDS503

DIGITAL INTELLIGENT pH CONDUCTIVITY METER WITH RS-232 OUTPUT

Substrate analysis and nutrient concentration.

- pH meter with mV and "plug and play" function
- Manual temperature compensation adjustable
- RS-232 computer interface
- Hold
- Memory record
- °F/°C readings
- CE and RoHS approved

♦ Conductivity: 0-2mS, 0 - 20mS (2 Ranges)
♦ Temperature: 0.1 C/0.1°F (0 to 60ºC)
♦ ATC and variable temp compensation factor
   adjustable (0-5.0% per degree Celsius)
♦ Power Source: 1 "9V" battery (not included)

UPC	NO.
02001 2	**DPHC2001**
41439 2	**DOP2201**
	Dissolved Oxygen Replacement Probe
41410 0	**LSFT KIT** PC Interface Kit (Optional)

RoHS
DPHC2001

"It's Your Job . . . General Tools Make It Easier" **I-77**

RoHS
DCT2001

RoHS
DCM4300

RoHS
DCM22CT

RoHS
DPH208R

FEATURES

SPECIFICATIONS

PROFESSIONAL CONDUCTIVITY/TDS METER
Laboratory, beverage and water conditioning.

- Manual Temperature Compensation Adjustment
- Microprocessor Circuit
- RS-232 computer interface
- Hold
- Memory Record
- °F/°C
- Auto Shut-Off
- CE and RoHS approved

♦ Circuit: Custom One-chip Microprocessor LSI Circuit
♦ Conductivity: 0-2mS, 0-20mS (2 Ranges)
♦ TDS: 0 - 2000, 0 - 20,000 PPM (2 Ranges)
♦ Temperature: 32° to 140°F (0° to 60°C) 0.1 Degree Resolution
♦ ATC & Variable Temperature Compensation Factor Adjustment
♦ Power Source: 1 "9V" battery (not included)

UPC	NO.
41440 8	**DCT2001**
41442 2	**CTOP2001**
	Conductivity/TDS Replacement Probe
41410 0	**LSFT KIT** PC Interface Kit (Optional)

DIGITAL CONDUCTIVITY METER
Ideal for field checks of water-based solutions.

- Data hold
- Large LCD display
- 2 ranges
- Professional housing case
- Automatic temp compensation
- CE and RoHS approved

♦ Conductivity: 0-2mS, 0-20mS (2 Ranges)
♦ Digit height: 21.5mm
♦ Power Source: 1 "9V" battery (not included)

UPC	NO.
41445 3	**DCM4300**
41442 2	**CTOP2001**
	Conductivity/TDS Replacement Probe
41446 0	**CP4300**
	Conductivity Replacement Probe
41410 0	**LSFT KIT** PC Interface Kit (Optional)

DIGITAL CONDUCTIVITY/TDS METER
Ideal for lab and field use.

- RS-232 computer interface
- Data hold
- Large display
- ATC
- Record
- Min/Max readings
- CE and RoHS approved

♦ Conductivity: 0-2mS, 0-20mS (2 Ranges)
♦ TDS: 0 - 2,000, 0 - 20,000 PPM (2 Ranges)
♦ Temp: 32° to 140°F (0° to 60.0°C), °F/°C
♦ Power Source: 1 "9V" battery (not included)

UPC	NO.
41450 7	**DCM22CT**
41442 2	**CTOP2001**
	Conductivity Replacement Probe
41951 4	**CP22CT**
	Conductivity Replacement Probe
41410 0	**LSFT KIT** PC Interface Kit (Optional)

pH METER
Monitor changes in solutions.

- Wide range of applications including: pools, aquariums, labs, aqua culture, water testing and much more
- Data hold
- Min/Max with record
- Auto power off
- Low battery indicator
- RS-232 computer interface
- CE and RoHS approved

♦ pH range: 0 to 14.00 pH, +/-1999 mV
♦ pH calibration
♦ Dimensions: 7.7 x 2.7 x 1.2 in. (195 x 68 x 30mm)
♦ Power Source: 1 "9V" battery (not included)

UPC	NO.
41430 9	**DPH208R**
41410 0	**LSFT KIT** PC Interface Kit (Optional)

WATER QUALITY

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GENERAL®

FEATURES

SPECIFICATIONS

FIELD CALIBRATABLE 45 DEGREE READ pH INSTRUMENT

Food preparation and solution balance.

- Easy-to-read 45° angle
- Automatic calibration at the touch of a button
- Total push button operation
- Simultaneously displays pH and temp
- °F/°C temperature display
- Replaceable pH electrode
- Data hold
- Durable waterproof housing
- Auto power off; low battery indicator
- Replaceable probe
- CE and RoHS approved

♦ pH range: 0.00 to 14.00 pH
♦ Accuracy: ±0.05 pH @25°C
♦ Resolution: 0.01 pH
♦ Dimensions:
5.85 x 1.65 x 1.45 in. (149 x 42 x 37mm)
♦ Weight: 2.4 oz. (68g)
♦ Power Source: 2 "CR2023" batteries (included)

Includes: • Soft carrying case

UPC	NO.
41330 2	**DPH8690**
41335 7	**8690P** Replacement Probe

CE
RoHS

DPH8690

REPLACEMENT PROBE FOR DCM4300, DCM22CT METERS

- Automatic Temperature Compensation
- Measuring Range: 0 - 1.999mS, 0 - 19.99mS (2 Ranges)
- CE and RoHS approved

♦ Operating temperature:
32° to 122°F (0° to 50°C)
♦ Accuracy: +/-(3% full scale + 1d)
♦ Resolution: 0.001mS for 1.999mS range
♦ Resolution: 0.01mS for 19.99mS range
♦ Dimensions:
.87 x 4.72 in. (22mm) Diameter x
4.72 in. (120mm) Length

UPC	NO.
41446 0	**CP4300**

CE
RoHS

CP4300

CONDUCTIVITY/TDS REPLACEMENT PROBE
FOR DCT2001, DCM22CT, DCM4300

- ATC and Variable temperature compensation
- Conductivity / TDS
- CE and RoHS approved

♦ Operating temperature: 32° to 140°F
♦ Conductivity: 0-2mS, 0-20mS (2 Ranges)
♦ Total Dissolved Solids (TDS):
2000/20000 PPM

UPC	NO.
41442 2	**CTOP2001**

CE
RoHS

CTOP2001

ACCESSORIES

SOFTWARE & CABLE KITS

LSFT KIT   DOWNLOAD SOFTWARE & CABLE FOR: DCM22CT, DPHC2001, DCT2001, DCM4300; DPH208R; DLM105HA; UVC254; DAF80MIN, DAF80PW, DAF80PWM; HWA4204HA; PM9100; FG100KG, VC9200; TQ8800; VB8201HA

ASFT KIT   DOWNLOAD SOFTWARE & CABLE FOR: PIRT9811; DT8852; DSM8922; CDM77535; DCFM8906, DCFM8901; WDCFM8912; DM8205, DM8215, DM8230, DM8200, DM8252, DM8252RS

GENERAL®

FEATURES

SPECIFICATIONS

WATER PURITY TESTER

Tests water quality for drinking, industrial use and water filter effectiveness.

- Checks the purity of water (water conductivity)
- Measures the conductivity value (ranging from 0 - 2000 µS)
- Pocket size, separate probe
- Easy to carry and operate
- CE and RoHS approved

- ♦ Display: 0.7 in. (13mm) LCD, 3-1/2 in. D
- ♦ Measurement: 0 to 1999 µS (micro Simens)
- ♦ Resolution: 1µS
- ♦ Accuracy: ± (4% + 3d), (23± 5°C)
- ♦ Temperature Compensation: 32° to 122°F (0° to 50°C)

- ♦ Operating Humidity: Max. 80%RH
- ♦ Power Consumption: Approx. DC 5mA
- ♦ Weight: Approx. 7.8 oz. (220g) (including battery and probe)
- ♦ Dimensions: Main instrument: 5.2 x 2.8 x 1.0 in. (131 x 70 x 25mm) Sensor probe: Round, 22mm Diameter, 120mm length
- ♦ Power Source: 1 "9V" battery (not included)
Includes: • Sensor probe

UPC	NO.
41470 5	**WA300**

CE RoHS
WA300

NEW!

WATER PURITY METER

Tests water quality for drinking, industrial use and water filter effectiveness.

- Water conditioning, aquarium, food processing, photography, school, laboratory, industrial and quality control
- Checks the condition of water filter
- Measurement: 0-1999µS
- Easy Operation
- Hold, Record (Min/Max)
- IP-65 Water resistance
- Heavy-duty
- CE and RoHS approved

- ♦ Power Source: 4 "AAA" batteries (not included)

UPC	NO.
01243 7	**PWM301**

CE RoHS
PWM301

ANALOG SPA AND POOL pH/CHLORINE TESTER

Checks chlorine and pH levels for pool and spa.

- Chlorine – pH Tester
- Tests your pool or spa water
- No adjustment is required for pH

- ♦ Dimensions: 7.1 x 4.5 x 1.3 in. (180 x 115 x 32mm)
- ♦ Weight: 6 oz. (170g)
- ♦ Power Source: 1 "AA" battery (not included)

UPC	NO.
12101 4	**CPH12101**

CPH12101

NEW!

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WATER QUALITY

FEATURES

SPECIFICATIONS

ANALOG BAROMETER
Checks barometric pressure and forecast.

- Measures barometric pressure
- Brass housing
- Classic design
- Weather forecast

♦ Range: 27.5 to 31.5 HG (940 to 1060 mbar)
♦ Dimensions: 3 in. dial diameter
♦ Weight: 10 oz. (283g)

UPC	NO.
61205 7	**ABAR300**

ABAR300

ANALOG BAROMETER THERMO-HYGROMETER
Checks temperature, humidity and barometric pressure.

- 3-in-1 analog weather monitor
- Brass construction
- Attractive design
- 6 in. dial
- Displays: Temperature, Humidity, Dew point, Wet bulb

♦ Range: -20º to 120ºF
♦ Humidity range: 0% to 100%RH
♦ Barometric range: 27.5 to 31.5 HG

UPC	NO.
61210 1	**ABARTH**

ABARTH

DIGITAL POCKET WEATHERMAN
Checks temperature, humidity and barometric pressure.

- Displays barometric pressure, dew point, temperature and humidity
- Easy field set-up
- New ergonomic design
- Min/Max memory with reset feature
- Fast 2 second response time
- Large digital display
- ºF/ºC readings
- Data hold
- Auto power off
- Low battery indicator
- CE and RoHS approved

♦ Range: -4º to 122ºF (-20º to 50ºC)
♦ Pressure range: 8.86 to 32.48 in/Hg (300 to 1100 hPa)
♦ Dew point range: 32º to 140ºF (0º to 60ºC)
♦ Humidity range: 0 to 100%RH
♦ Pressure and Dew point accuracy: ±3% Humidity accuracy: ±5%
♦ Temperature accuracy: ±1.8ºF
♦ Dimensions: 6.88 x 1.57 x 0.91 in. (175 x 40 x 23mm)
♦ Power Source: 1 "CR2032" battery (included)
Includes: • Pocket clip on back

UPC	NO.
10115 5	**SAM700BAR**

CE
RoHS
SAM700BAR

GENERAL®

NEW!

DBAR880

DBAR110

RGR122

FEATURES

SPECIFICATIONS

DIGITAL WEATHER FORECASTER
Checks indoor and outdoor temperature, humidity and barometric pressure.

- Displays Indoor and Outdoor Temperature
- Barometer Display and 12 Hour History
- Min/Max Temperature & Humidity Display
- Temperature Trend Indicator
- Moon Cycle with Tide Indicator
- Alarm Clock with Snooze, Day and Date
- Full Calendar
- Hi Precision Barometric Weather Forecast
- Forecast: Sunny, Partial Sunny, Cloudy, Rainy, Stormy
- 3-Channel Wireless Thermometer
- Indoor Humidity
- Backlight Display
- °F/°C, 12/24 Selectable
- CE approved

♦ Range:
  Indoor: 32° to 122°F (0° to 50°C)
  Outdoor: -4° to 140°F (-20° to 60°C)
♦ Power Source:
  Base Unit: 2 "AA" batteries (included)
  Remote Unit: 2 "AA" batteries (included)

UPC	NO.
60018 4	**DBAR880**

DIGITAL BAROMETER WITH BAROMETRIC TREND
Ideal for most weather applications.

- Digital barometer with Real-time Pressure Readout
- Past 12 hours Pressure History
- Hi Precision Barometric Weather Forecast
- Resolution: Sunny, Partial Sunny, Cloudy, Rainy, Stormy
- 3-Channel Wireless Thermometer
- Temperature Trend Indicator: Up, Steady, Down
- Indoor Humidity
- 12/24 hour selectable clock
- Radio-Controlled Clock
- Min/Max Memory for Temp, Humidity
- °F/°C switch
- Snooze alarm
- Full Calendar Display
- Bright Green Backlight
- CE approved

♦ RF Frequency : 434MHz
♦ Dimensions:
  6.1 x 2.8 x 1.2 in. (155 x 70 x 30 mm)
♦ Power Source: 2 "AA" batteries (included)

UPC	NO.
60019 1	**DBAR110**

WIRELESS RAIN GAUGE WITH TEMPERATURE DISPLAY
Records and displays rain amount.

- Self-emptying cable free rain collector
- Indoor thermometer
- Long range capability allows the canister to be placed up to 300 feet from the main unit
- Calendar alarm clock
- Provides cumulative and daily precipitation totals for up to nine days
- Total rainfall display with registered date
- Rainfall alarm
- Rainfall display in inches or millimeters
- °F/°C switch
- Min/Max temperature
- 12 or 24 hour clock format
- 4-line LCD display
- Wall or table mount features
- CE approved

♦ Daily Rainfall Range:
  0 to 99.99 in. (0 to 2540mm)
♦ Total Rainfall Range:
  0 to 999.99 in. (0 to 25400mm)
♦ Temperature Range:
  -58° to 158°F (-50° to 50ºC)
♦ Dimensions:
  Main Unit: 5.25 x 3.5 x 1.5 in.
  Sensor: 6 x 4.05 in.
♦ Power Source: 4 "AA" batteries (not included)
Includes: • Main display unit
         • Wireless rain collection bucket

UPC	NO.
60350 5	**RGR122**

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FEATURES SPECIFICATIONS

WIRELESS RAIN GAUGE WITH TEMPERATURE DISPLAY, REMOTE RAIN BUCKET AND TEMPERATURE SENSOR

Provides rain history and temperature.

- Daily rainfall and past 9 day history
- Cable free rain collection canister is self-emptying
- Total rainfall is displayed with registered date
- Rainfall display in inches or millimeters
- Long range capability allows the collector to be placed up to 300 feet from the main unit
- Rainfall alarm
- Daily alarm
- Indoor temperature display with °F/°C switch
- Min/Max temperatures
- 12 or 24 hour clock with calendar
- Displays data on an attractive, easy-view LCD console
- Table or wall mountable
- CE and RoHS approved

♦ Total rainfall range:
0 to 999.99 in. (0 to 25,400mm)
♦ Daily rainfall range:
0 to 99.99 in. (0 to 2,540mm)

♦ Rainfall resolution: 0.04 in. (1mm)
♦ Range: 23° to 122°F (-5° to 50°C)
♦ Temperature resolution: 0.1°F (0.1°C)
♦ Transmission frequency: 433 MHz
♦ Transmission range: 300 ft. (100m)
♦ Temperature sensing cycle:
around 30 seconds
♦ Dimensions:
Display: 5.25 x 3.5 x 1.5 in.
Remote sensor: (H x Ø): 6 x 4 in.
♦ Power Source:
Main unit: 2 "AA" batteries (not included)
Remote sensor: 2 "AA" batteries
(not included)
Includes: • Main display unit
• Wireless rain collection bucket with mounting materials
• Remote sensor with mounting materials

UPC	NO.
60340 6	**RGR126**

RoHS
RGR126

WIRELESS RAIN GAUGE WITH THERMOMETER AND CLOCK

Ideal for weather monitoring rainfall, indoor/outdoor temperatures, ice warning and more.

- Wireless transmission of the temperature from the remote temperature sensor to the main unit up to 100 feet (30 meters) away
- Rainfall may be displayed in inches or mm
- Programmable Rain Alarm
- 7 days of rain collection history
- Built-in rain gauge installation level
- Indoor and remote temperature display
- MIN/MAX memory for indoor/outdoor temperature
- Hourly, daily and weekly rainfall history
- Monitors temperature in up to 3 remote locations
- Quartz clock with calendar
- Programmable Time Zones
- Day of the week in English, German, French, Spanish or Italian
- Dual crescendo alarm with snooze
- Programmable Ice Warning Alarm
- Wall mount or desktop option
- Low battery indicator • LED backlight
- CE and RoHS approved

Includes: • Main display unit
• Wireless rain collection bucket with mounting materials
• Remote temperature sensor

♦ **MAIN UNIT**
♦ TIME:
12/24 hour display in hh:mm format
Date format: month-day or
day-month format
Day of the week is selectable in five languages: English, Spanish, French, German, Italian
Time zone manual adjustment
Dual two-minute crescendo alarms with 8 minutes snooze
Programmable ice warning alarm (Channel 1)
♦ **WEATHER**
Rainfall:
Operating range:
0 to 78.74 in. (0 to 1999.9mm)
Rainfall resolution: 0.04 in. (1mm)
Indoor Temperature:
Operating range:
23.0° to 122.0°F (-5.0° to 50.0°C)
Temperature resolution: 0.2°F (0.1°C)
Selectable °F or °C temperature display
LED backlight
Low battery indicator
Wall Mount or Desktop option
♦ **REMOTE RAIN GAUGE**
Remote Rainfall Data
Operating range:
23.0° to 122.0°F (-5.0° to 50.0°C)
RF transmission frequency: 433 MHz
RF transmission range:
maximum 100 ft. (30m)
Rainfall transmission cycle:
approximately 183 seconds

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RoHS
RGR150

♦ **REMOTE TEMPERATURE SENSOR**
Remote Temperature
Operating range with alkaline batteries:
-4.0° to 158°F (-20.0° to 70.0°C)
Operating range with lithium batteries:
-38.0° to 158°F (-38.8° to 70.0°C)
Temperature resolution: 0.2°F (0.1°C)
Low battery indicator
RF transmission frequency: 433 MHz
Maximum number of remote sensors:
3 (1 included)
RF transmission range:
maximum 100 ft. (3m)
Temperature transmission cycle:
approximately 45 seconds
♦ Power Source:
Main unit: 2 "AA" batteries (not included)
Remote sensor: 2 "AA" batteries
(not included)
Remote rain gauge: 2 "AA" batteries
(not included)
♦ Dimensions:
Main unit: 2.75 x 5.43 x 1.02 in.
Remote sensor: 2.37 x 4 x 1 in.
Remote rain gauge: 6.49 x 6.89 x 4.72 in.

UPC	NO.
01273 4	**RGR150**

FEATURES   SPECIFICATIONS

WIRELESS DATA LOGGING WEATHER STATION

Wireless transmission of outdoor temperature, humidity, quantity of rainfall, wind velocity and direction from the exterior sensors to the display station (433 MHz). Long–distance range up to (100m) free field.

NEW!

WS831DL

- Wireless transmission of outdoor temperature, humidity, quantity of rainfall, wind velocity and direction from the exterior sensors to the display station (433 MHz), long-distance range up to 325 ft. (100m) free field
- Expandable up to 5 outdoor temperature/ humidity transmitters, also for the climate control of remote rooms, e.g. children's room, wine-cellar, greenhouse
- Indoor temperature and humidity with comfort level indicator of indoor climate
- Weather forecast with symbols and tendency of atmospheric pressure
- Absolute and relative atmospheric pressure with 24 hours history
- Bar graph indication of atmospheric pressure, temperature or humidity for the last 24 hours
- Radio controlled clock with different alarms and snooze functions
- Display of date and weekday (6 languages)
- Time of rising and setting of sun and moon
- Indication of moon phase
- Wind chill factor and dew point
- Programmable alarm functions for weather conditions, like temperature alarm, storm warning
- Maximum and minimum values
- LED Back-light with light sensor (in continuous operation with power adapter)
- For wall mounting or table standing
- Data logging software (Weather View PC) and cable included
- CE and RoHS approved

♦ Radio Frequency: 433 MHz
♦ RF Reception range: 100-328 ft. (30 -100m)
♦ Barometric Pressure:
   Measuring Range: 14.75 inHg to 32.44 inHg (500 Hpa to 1100Hpa); (374.5 mmHg to 823.8 mmHg)
   Resolution: 0.003 inHg (0.1 Hpa, 0.08 mmHg)
   Accuracy: 0.015 inHg (5 Hpa; 0.38 mmHg)
   Sampling interval: 20 minutes
   Sea level Altitude Compensation Range: -657 ft. to 16404 ft. (-200m to +5000m)
♦ Temperature: (Main unit)
   Range: 14.2° to 140°F (-9.9° to 60°C)
   Resolution: 0.2°F (0.1°C)
   Accuracy: 2°F (1°C)
   Sampling Interval: 10 seconds
♦ Temperature: (Remote unit)
   Range: -40° to 176°F (-40° to 80°C)
   Resolution: 0.2°F (0.1°C)
   Accuracy: 2°F (1°C)
   Transmitting Interval: around 47 seconds
♦ Humidity: (Main unit)
   Range: 30% to 80%
   Resolution: 1%   Accuracy: 5%
   Sampling Interval: 10 seconds
♦ Humidity: (Remote unit)
   Range: 30% to 80%
   Resolution: 1%   Accuracy: 5%
   Sampling Interval: 10 seconds
   Transmitting Interval: around 47 seconds
♦ Wind Direction:
   Range: 0° to 360°
   Resolution: 22.5°
   Accuracy: 11.25°
   Starting Threshold: 3mph (4.8 Km/h)
   Transmitting Interval: 33 seconds
♦ Wind Speed:
   Range: 0 to 199.9mph (199.9 Km/h, 173.7 Knots, 89.3 m/s)
   Resolution: 0.1mph (0.16 Km/h)
   Accuracy: (2mph + 5%)
   Starting Threshold: 3mph (4.8 Km/h)
   Wind/Gust Speed Display Update Interval: 33 seconds
   Wind/Gust Sampling Interval: 11 seconds

♦ Rainfall:
   1h/24h/yesterday range: 0 to 78.73 in. (0 to 1999.9mm)
   Last week/last month range: 0 to 787.3 in. (0 to 19999mm)
   Resolution: 0.03 in. (0.6578mm)
   Accuracy: ±5% ±0.03 in. (±5% ±0.6875mm)
   Transmitting Interval: 183 seconds
♦ Hardware Requirement for WeatherView:
   PC Software Operating System:
   Windows 98/NT/2000/ME or XP
   Memory size: Ram 128 MB or more
   Hard disk size: 100 MB free space or more
   Media Device: 1 x CD-Rom drive
   Available serial USB port
♦ Power Source: Total of 10 "AA" batteries (not included)
   MAIN UNIT:
   4 "AA" batteries;
   7.5V AC/DC power adaptor (200mA; center pin positive)
   REMOTE THERMO-HYGROMETER:
   2 "AA" batteries each
   REMOTE ANEMOMETER:
   2 "AA" batteries
   REMOTE RAIN GAUGE:
   2 "AA" batteries
♦ Weight: (without batteries)
   Main unit: 8.15 oz. (231g)
   Remote Thermo-Hygrometer: 2.29 oz. (65g)
   Remote Anemometer: 11.12 oz. (315g)
   Remote Rain Gauge: 10.24 oz. (290g)
♦ Dimensions:
   Main unit:
   7.31 x 5.39 x 1.26 in. (185.8 x 136.9 x 32mm)
   Remote Thermo-Hygrometer:
   2.37 x 4 x 1 in. (60 x 101 x 25mm)
   Remote Anemometer:
   19.16 x 19.16 x 15.35 in. (486.6 x 486.6 x 390mm)
   Remote Rain Gauge:
   6.49) x 6.89 x 4.72 in. (165 x 175 x 119mm)

Includes: • Main display unit
         • Remote Thermo-Hygrometer
         • Remote Anemometer
         • Remote Rain Gauge
         • Data Logging Software (Weather View PC)
         • Cable

UPC	NO.
01298 7	**WS831DL**

CE
RoHS

FEATURES   **SPECIFICATIONS**

PROFESSIONAL WIRELESS WEATHER STATION

Wireless monitoring of weather condition: indoor/outdoor temperature, humidity, rainfall, wind speed, barometric pressure and many more.

- Wireless transmission of outdoor temperature, humidity, quantity of rainfall, wind velocity and direction from the exterior sensors to the display station (433 MHz), long-distance range up to 325 ft. (100m) free field
- Expandable up to 5 outdoor temperature/humidity transmitters, also for the climate control of remote rooms, e.g. children's room, wine-cellar, greenhouse
- Indoor temperature and humidity with comfort level indicator of indoor climate
- Weather forecast with symbols and tendency of atmospheric pressure
- Absolute and relative atmospheric pressure with 24 hours history
- Bar graph indication of atmospheric pressure, temperature or humidity for the last 24 hours
- Radio controlled clock with different alarms and snooze functions
- Display of date and weekday (6 languages)
- Time of rising and setting of sun and moon
- Indication of moon phase
- Wind chill factor and dew point
- Programmable alarm functions for weather conditions, like temperature alarm, storm warning
- Maximum and minimum values
- LED Backlight with light sensor (in continuous operation with power adapter)
- For wall mounting or table standing
- CE and RoHS approved

♦ Radio Frequency: 433 MHz
RF Reception range:
100 - 328 ft. (30 -100m)
♦ Barometric Pressure:
Measuring Range: 14.75 inHg to 32.44 inHg (500 Hpa to 1100Hpa); (374.5 mmHg to 823.8 mmHg)
Resolution: 0.003 inHg (0.1 Hpa, 0.08 mmHg)
Accuracy: 0.015 inHg (5 Hpa; 0.38 mmHg)
Sampling interval: 20 minutes
Altitude Compensation Range: -657 to 16404 ft. (-200m to 5000m)
♦ Temperature: (Main unit)
Operating Range: 14.2° to 140°F (-9.9° to 60°C)
Resolution: 0.2°F (0.1°C)
Accuracy: 2°F (1°C)
Sampling Interval: 10 seconds
♦ Temperature: (Remote unit)
Range: -40° to 176°F (-40° to 80°C)
Resolution: 0.2°F (0.1°C)
Accuracy: 2°F (1°C)
Transmitting Interval: around 47 seconds
♦ Humidity: (Main unit)
Operating Range: 0% to 99%
Resolution: 1%
Accuracy: 5%
Sampling Interval: 10 seconds
♦ Humidity: (Remote unit)
Operating Range: 0% to 99%
Resolution: 1%
Accuracy: 5%
Sampling Interval: 10 seconds
Transmitting Interval: around 47 seconds
♦ Wind Direction:
Range: 0° to 360°
Resolution: 22.5°
Accuracy: 11.25°
Starting Threshold: 3mph (4.8 Km/h)
Transmitting interval: 33 seconds

WS821

♦ Wind Speed:
Range: 0 to 199.9mph (199.9 Km/h, 173.7 Knots, 89.3 m/s)
Resolution: 0.1mph (0.16 Km/h)
Accuracy: (2mph + 5%)
Starting Threshold: 3mph (4.8 Km/h)
Wind/Gust Speed Display Update Interval: 33 seconds
Wind/Gust Sampling Interval: 11 seconds
♦ Rainfall:
1h/24h/yesterday range:
0 to 78.73" (0 to 1999.9mm)
Last week/ last month range:
0 to 787.3" (0 to 19999mm)
Resolution: 0.03" (0.6578mm)
Accuracy: ±5% ±0.03" (±5% ±0.6875mm)
Transmitting Interval: 183 seconds
♦ Power Source: Total of 10 "AA" batteries (not included)
MAIN UNIT: 4 "AA" batteries; 7.5V AC/DC power adaptor (200mA; center pin positive)
REMOTE THERMO-HYGROMETER: 2 "AA" batteries
REMOTE ANEMOMETER: 2 "AA" batteries
REMOTE RAIN GAUGE: 2 "AA" batteries
♦ Weight (without batteries)
Main unit: 8.15 oz. (231g)
Remote Thermo-Hygrometer: 2.29 oz. (65g)
Remote Anemometer: 11.12 oz. (315g)
Remote Rain gauge: 10.24 oz. (290g)
♦ Dimensions:
Main unit:
7.31 x 5.39 x 1.26 in. (185.8 x 136.9 x 32mm)
Remote Thermo - Hygrometer:
2.37 x 4 x 1 in. (60 x 101 x 25mm)
Remote Anemometer: 19.16 x 19.16 x 15.35 in. (486.6 x 486.6 x 390mm)
Remote Rain gauge:
6.49 x 6.89 x 4.72 in. (165 x 175 x 119mm)

Includes: • Display Station
• Power Adapter 7.5V AC/DC
• Thermo-Hygrometer Sensor
• Wind Sensor with mounting materials
• Rain Sensor with mounting materials

UPC	NO.
08210 2	**WS821**

CE RoHS

FEATURES   **SPECIFICATIONS**

DIGITAL NOAA WEATHER RADIO
Check latest weather forecast.

- Monitors U.S. emergency all hazards and EAS weather bulletins, warnings and forecasts
- Broadcasts tornado and storm alerts, forecasts and warnings
- Can also be programmed to broadcast information pertinent to your local area only or other areas you're interested in (up to six specific areas of your choice)
- Water resistant construction
- 12 hr. or 24 hr. clock with calendar display
- Daily alarm: 2 one minute duration alarms
- 8 minute snooze function

- ♦ Volume: 7 adjustable levels SAME code setting
- ♦ 6 independent settings or all counties options N.O.A.A. channels
- ♦ Digital PLL tuning seeks all 7 N.O.A.A. weather channels receiving signals at 162.400 to 162.550 MHz
- ♦ Accuracy: (±0.5) seconds/day
- ♦ Dimensions: 2.75 x 1.25 x 5.25 in. (70 x 32 x 133mm)
- ♦ Power Source: 3 "AA" batteries (included)

UPC	NO.
60500 4	**WR103**

WR103

DELUXE LIGHTNING DETECTOR
Early storm warning and storm direction.

- Detects storms within 40 miles
- Senses if the storm is moving towards, away, or parallel to your location
- Identifies severe thunderstorms as well as storms that can produce dangerous winds, heavy rains or tornadoes
- Starts detecting thunderstorms up to 70 miles away, registers activity at 40 miles
- Used by Little League teams, golf courses, and recreational districts
- Hand-held or table mountable
- Optional wall mount accessory

- ♦ Ranges: 0-3 mi; 3-8 mi; 8-20 mi; 20-40 mi
- ♦ Dimensions: 6.5 x 3.1 x 1.5 in. (165 x 79 x 38mm)
- ♦ Weight: 10.8 oz. (306g) (w/o batteries)
- ♦ Power Source: 2 "9V" batteries (included)
- Includes: • Rugged, weather-resistant plastic case

UPC	NO.
60600 1	**LD50**
60615 5	**LD50MB** Wall mount accessory (Optional)

LD50

LIGHTNING SEEKER™ PERSONAL LIGHTNING DETECTOR
Ideal for Early Storm Warnings and Storm Directions and protection for any outdoor activity.

- Pocket size lightning detector that can be clipped on your belt or hung from your belt loop
- Gives you early warning of pending storms and lightning at various distances from 0 – 40 miles away
- Multiple alarm signals include an audible alarm, a vibration alarm and sequentially illuminating LED's at various distance intervals: 24 – 40 miles, 12 – 24 miles, 6 – 12 miles and 0 – 6 miles
- Will inform you if the danger is approaching, stationary or departing
- FCC, CE, RoHS, WEEE approved

- ♦ Ranges: within 6 miles; 6 to 12 miles; 12 to 24 miles; 24 to 40 miles
- ♦ Dimensions: 3.31 x 2.17 x 0.96 in. (84 x 55 x 24mm)
- ♦ Weight: 2.6 oz. (74g)
- ♦ Power Source: 2 "AAA" batteries (included)

UPC	NO.
01368 7	**LD7**

NEW!

LD7

COMPACT LIGHTNING DETECTOR
Early storm warning.

- Senses lightning up to 40 miles away
- Loud audible alarm and LED light
- Determines if a storm is approaching or departing
- Number of alarm beeps depends on the proximity of lightning
- Displays lightning strike distance, storm direction and battery life
- Small, impact-resistant pager-like design with belt clip

- ♦ Ranges: within 6 miles; 6 to 12 miles; 12 to 24 miles; 24 to 40 miles
- ♦ Dimensions: 3.31 x 2.17 x 0.96 in. (84 x 55 x 24mm)
- ♦ Weight: 2.6 oz. (74g)
- ♦ Battery life: up to 100 hours
- ♦ Power Source: 2 "AAA" batteries (included)

UPC	NO.
60690 2	**LD9**

LD9

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

GENERAL®

Digital & Analog Clocks

FEATURES   **SPECIFICATIONS**

BAROMETRIC ANALOG CLOCK

- Black face
- Displays:
    - Barometric pressure
    - Temperature
    - Humidity
- 12 or 24 hour clock format
- Snooze button
- Wall or desk mount
- Outstanding decorative design
- Jumbo 13-1/8 in. diameter face

♦ Power Source: 1 "AA" battery (included)

UPC	NO.
32055 6	**ABC856B**

NEW!

ABC856B

DIGITAL DESK CLOCK WITH ALARM AND BACKLIGHT

- Jumbo display
- Bright blue backlight
- Snooze alarm repeats every 8 min.
- 12 or 24 hour time format
- Extra loud alarm
- Cordless
- Easy one touch operation

♦ Color: black
♦ Digit height: 1.25 in.
♦ Display size: 2.9 x 1.45 in.
♦ Dimensions:
  3.65 x 3.5 x 2.25 in. (93 x 89 x 57mm)
♦ Weight: 6 oz. (170g)
♦ Power Source: 2 "AAA" batteries (included)

UPC	NO.
32000 6	**C322**

C322

ANALOG WALL CLOCK WITH TEMPERATURE AND HUMIDITY DISPLAY

- Displays time, humidity and temperature
- For home or office use
- Quartz movement
- Dial feature
- Easy to read
- Green fluorescent markings

♦ Range: -20° to 140°F
♦ Humidity range: 0 to 100%
♦ Dimensions: 8.5 in.
♦ Weight: 1 lb. (454g)
♦ Power Source: 1 "AA" battery (included)

UPC	NO.
32050 1	**CMOR11**

CMOR11

DIGITAL JUMBO DISPLAY CLOCK WITH TEMPERATURE

- Displays time, temperature, day and date
- Calendar to December 31, 2030
- 12 or 24 hour selectable
- Clear convex lens for easy viewing at any angle
- °F/°C selectable
- Extra large display

♦ Range:
  -58° to 158°F (-50° to 70°C)
♦ Color: metallic black
♦ Digit height: 2.15 in.
♦ Display size: 6 x 3.65 in.
♦ Dimensions:
  9 x 8.25 x 0.75 in. (229 x 210 x 93g)
♦ Weight: 1.5 lbs. (680g)
♦ Power Source: 4 "AAA" batteries (included)

UPC	NO.
32010 5	**DJC381**

DJC381

"It's Your Job . . . General Tools Make It Easier"   **I-87**

Digital & Analog Clocks

GENERAL®

FEATURES

SPECIFICATIONS

RMR383HGA

WIRELESS ATOMIC CLOCK WITH REMOTE SENSOR

- Calendar and alarm with dual settings
- Automatically sets itself to the U.S. atomic clock
- Auto adjust daylight savings time
- Crescendo alarm with snooze
- In/outdoor temperature sensor
- Indoor humidity sensor
- Wall mount or desktop display
- Remote sensor-up to 100 ft. range
- Bright backlight

♦ Indoor and outdoor temperature range: -58º to 158ºF (-50º to 70ºC)
♦ Indoor humidity range: 25% to 90%
♦ Temp resolution: 0.2ºF (0.1ºC)
♦ Humidity resolution: 1%
♦ Transmitting range: up to 100 ft. every 30 seconds
♦ Transmission frequency: 433 MHz
♦ Power Source: 2 "AAA" batteries (included)
Includes: • 1 wireless temp/humidity sensor

UPC	NO.
60074 0	**RMR383HGA**

CTI278

DIGITAL TIMER AND ALARM CLOCK WITH BACKLIGHT

- Clock with timer and stopwatch
- Bright blue EL backlight
- Count-down from 23:59:59
- Count-up to 23:59:59
- Timer and clock display hours, min and sec
- 5-minute repeating snooze alarm
- 12 or 24 hour selectable clock
- Timer counts-up after count-down to 0
- Extra loud alarm

♦ Color: black
♦ Digit height: 0.65 in.
♦ Display size: 1.85 x 0.8 in.
♦ Dimensions: 3 x 2.75 x 0.75 in. (76 x 70 x 19mm)
♦ Weight: 3.5 oz. (99g)
♦ Power Source: 2 "AAA" batteries (included)
Includes: • Magnet, stand and clip on back

UPC	NO.
30035 0	**CTI278**

TI872

BIG DIGIT DESKTOP DIGITAL TIMER/CLOCK

- Clock with 2 count-down timers and stopwatch
- Count-down from 23:59:59
- Count-up to 23:59:59
- Timer and clock display hours, minutes and seconds
- Counts-up after reaching zero
- Memory function recalls previous timing cycle
- 12 or 24 hour selectable clock
- Extra large display

♦ Digit height: 0.75 in.
♦ Display size: 2.25 x 0.8 in.
♦ Dimensions: 2.65 x 2.4 x 0.65 in. (67 x 61 x 17mm)
♦ Weight: 2.5 oz. (71g)
♦ Power Source: 1 "AAA" battery (included)
Includes: • Magnet on back

UPC	NO.
30065 7	**TI872**

NEW!

AT60LR

LONG RING 60 MINUTE TIMER

- Sturdy construction
- No batteries required
- Wide variety of applications from Sports Medicine to Cooking

♦ Analog Wind Up Timer
♦ 0 – 60 Minutes

UPC	NO.
30081 7	**AT60LR**

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FEATURES **SPECIFICATIONS**

LCD OVAL COUNTDOWN TIMER

- Count-down from 99:59
- Displays minutes and seconds
- Sleek, lightweight design
- Pocket sized
- Easy to read display

♦ Digit height: 0.3 in.
♦ Display size: 0.82 x 0.4 in.
♦ Dimensions:
  3.38 x 1.75 x 0.43 in. (86 x 44 x 11mm)
♦ Weight: 1 oz. (28g)
♦ Power Source: 1 "LR44" battery (included)
Includes: • Magnet on back

UPC	NO.
30115 9	**TI071**

TI071

JUMBO DISPLAY WATERPROOF TIMER

- Switchable 19:59 Hour / 99:59 Min. Resolution
- Removable Stand and Magnet
- Super Large LCD display
- Rubber Keypad
- Waterproof

♦ Digit height: 1.25 in. (32mm)
♦ Display: 2-3/4 x 1-1/2 in.
♦ Dimensions: 3-1/2 x 3 in.
♦ Power Source:
1 "AAA" battery (included)

UPC	NO.
30112 8	**TI110**

NEW! **TI110**

3-IN-1 TIMER FOR THE VISUALLY AND HEARING IMPAIRED
Ideal for physical therapy.

- Choice of vibrating, audible & flashing alerts
- Ideal for noisy environments
- Mount with spring clip, stand or magnet
- Automatic memory
- Switchable 20 hour/20 minute resolution
- Ideal for physical therapists and nurses

♦ Digit height: 0.63 in. (16mm)
♦ Display size: 1.4 x 0.6 in.
♦ Dimensions:
  2.67 x 2.67 x 0.4 in. (68 x 68 x 10mm)
♦ Weight: 2 oz. (57g)
♦ Power Source: 2 "AAA" batteries (included)

UPC	NO.
30110 4	**TI150**

NEW! **TI150**

DUAL TIMER COUNT UP/DOWN CLOCK

- Displays: 2 Timers, Timer + Clock, Timer + Stopwatch
- 24 Hour Timer Count Up/Down
- Audible Alarm

♦ Digit height: 0.35 in. (9mm)
♦ 23 H : 59 M : 59 S Countdown/Up
♦ Display: 1.75 x 0.9 in.
♦ Dimensions: 3-1/2 x 3-1/4 in.
♦ Power Source:
  1 "AA" battery (included)

UPC	NO.
20929 5	**TI896**

NEW! **TI896**

100 MINUTE COUNT-UP AND COUNT-DOWN TIMER

- Timer and stopwatch
- Count-down from 99:59
- Count-up to 99:59
- Displays minutes and seconds
- Automatic memory
- Loud alarm
- Large display

♦ Color: white
♦ Digit height: 0.5 in.
♦ Display size: 1.9 x 0.83 in.
♦ Unit size: 2.63 x 2 x 1.13 in.
♦ Weight: 2.25 oz. (64g)
♦ Power Source: 1 "AA" battery
  (included)
Includes: • Magnet, stand and clip on back

UPC	NO.
30105 0	**TI170**

TI170

TIME

FEATURES

SPECIFICATIONS

TI239

COUNT UP/COUNT DOWN DIGITAL TIMER

- Timer and stopwatch
- Count-down from 99:59
- Count-up to 99:59
- Displays minutes and seconds
- Counts-up after reaching zero
- Easy to operate

♦ Color: navy
♦ Digit height: 0.35 in.
♦ Display size: 1.4 x 0.4 in.
♦ Dimensions:
  2.45 x 2.25 x 0.4 in. (62 x 57 x 10mm)
♦ Weight: 1.5 oz. (43g)
♦ Power Source: 1 "LR44" battery (included)
Includes: • Magnet, stand & clip on back

UPC	NO.
30020 6	**TI239**

TI267

JUMBO DISPLAY DIGITAL TIMER

- Count-down from 19:59
- Displays hours and minutes
- Extra large digits
- Easy operation
- Loud alarm

♦ Color: white
♦ Digit height: 0.75 in.
♦ Display size: 1.8 x 0.75 in.
♦ Dimensions:
  3.5 x 2.3 x 0.75 in. (89 x 58 x 19mm)
♦ Weight: 1.5 oz. (43g)
♦ Power Source: 1 "AAA" battery (included)
Includes: • Magnet & clip on back

UPC	NO.
30025 1	**TI267**

TI268

ECONOMY DIGITAL TIMER

- Count-down from 19:59
- Displays hours and minutes
- Extra loud alarm
- Economy model
- Easy operation

♦ Color: white
♦ Digit height: 0.25 in.
♦ Display size: 0.71 x 0.32 in.
♦ Dimensions:
  2.44 x 1.97 x 0.47 in. (62 x 50 x 12mm)
♦ Weight: 1 oz. (43g)
♦ Power Source: 1 "LR44" battery (included)
Includes: • Magnet, stand & clip on back

UPC	NO.
30030 5	**TI268**

TI388

DIGITAL FOUR CHANNEL TIMER/CLOCK

- 4 independent count-down timers
- Count-down from 99:59:59
- Count-up to 99:59:59
- 1 minute alarm
- Memory recalls previous time setting
- Automatically counts-up after reaching zero
- 12 or 24 hour clock display
- LCD displays hours, minutes & seconds

♦ Color: white
♦ Digit height: 0.63 in.
♦ Display size: 1.88 x 0.88 in.
♦ Dimensions:
  2.88 x 2.5 x 0.63 in. (73 x 64 x 16mm)
♦ Weight: 2.25 oz. (64g)
♦ Power Source: 1 "LR44" battery (included)
Includes: • Magnet, stand & clip on back

UPC	NO.
30050 3	**TI388**

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SAFETY GOGGLES

FEATURES　　　　　　　　**SPECIFICATIONS**

TRIPLE TIMER WITH CLOCK
Displays 3 count-down timers at once.

- Timer, stopwatch and clock
- Count-down from 19:59:59
- Count-up to 19:59:59
- Timer displays hours, minutes and seconds
- 12 or 24 hour clock display
- 1/100 sec. stopwatch precision
- Automatic memory
- Counts-up after reaching zero

- ♦ Color: black
- ♦ Digit height: 0.35 in.
- ♦ Display size: 1.55 x 1.55 in.
- ♦ Dimensions:
  3.35 x 2.5 x 0.8 in. (85 x 64 x 20mm)
- ♦ Weight: 3 oz. (85g)
- ♦ Power Source: 1 "AAA" battery (included)
- Includes: • Magnet on back

UPC	NO.
30055 8	**TI891B**

TI891B

DUAL TIMER / CLOCK WITH JUMBO DISPLAY
Two count-down timers work simultaneously.

- Count-down from 23:59:59
- Count-up to 19:59:59
- Large digital display
- 12 or 24 hour clock
- Lock mode
- Bracket for wall mounting

- ♦ Color: black only
- ♦ Digit height: 1 in.
- ♦ Display size: 3 x 2.5 in.
- ♦ Dimensions:
  5.5 x 3.75 x 1 in. (140 x 95 x 25mm)
- ♦ Weight: 6.5 oz. (184g)
- ♦ Power Source:
  1 "AAA" battery (included)
- Includes: • Magnet, stand and clip on back

UPC	NO.
30075 6	**TI895B**

TI895B

SPEEDY SET DIGITAL TIMER

- Timer, stopwatch and clock
- Count-down from 9:59:59
- Count-up to 9:59:59
- Clock displays hours, minutes and seconds
- 12 or 24 hour clock display

- ♦ Color: black
- ♦ Digit height: 0.5 in.
- ♦ Display size: 1.25 x 0.5 in.
- ♦ Dimensions:
  2.63 x 2 x 1.13 in. (67 x 51 x 29mm)
- ♦ Weight: 1.6 oz. (45g)
- ♦ Power Source: 1 "LR44" battery (included)
- Includes: • Magnet, stand and clip on back

UPC	NO.
30080 0	**TI897B**

TI897B

SPEEDY SET DIGITAL TIMER WITH LANYARD

- Timer, stopwatch and clock
- Count-down from 9:59:59
- Count-up to 23:59:59
- Clock displays hours, minutes and seconds
- 12 or 24 hour clock display

- ♦ Color: black
- ♦ Digit height: 0.5 in.
- ♦ Display size: 1.25 x 0.5 in.
- ♦ Dimensions:
  4.75 x 1.25 x 0.75 in. (121 x 32 x 19mm)
- ♦ Weight: 1.6 oz. (45g)
- ♦ Power Source: 1 "LR44" battery (included)
- Includes: • Lanyard
  • Magnet, stand and clip on back

UPC	NO.
30090 9	**TI898B**

TI898B

JUMBO DISPLAY SPEEDY SET DIGITAL TIMER

- Timer, stopwatch and clock
- Count-down from 9:59:59
- Count-up to 9:59:59
- Large digital display
- Clock displays hours, minutes and seconds

- ♦ Color: black
- ♦ Digit height: 0.75 in.
- ♦ Display size: 2.25 x 0.88 in.
- ♦ Dimensions:
  3 x 2.5 x 0.75 in. (76 x 64 x 19mm)
- ♦ Weight: 3.2 oz. (91g)
- ♦ Power Source: 1 "AAA" battery (included)
- Includes: • Magnet, stand and clip on back

UPC	NO.
30095 4	**TI899B**

TI899B

TIME

"It's Your Job . . . General Tools Make It Easier"　　**I-91**

Stopwatches

TIME

SW100A

FEATURES

SPECIFICATIONS

MULTI-FUNCTION BLACK STOPWATCH

- Count-up to 23:59:59
- Displays lap time, minutes, seconds, month, day and date
- Daily alarm and hourly chime
- 1/100 seconds precision (for first 30 minutes)
- 12 or 24 hour selectable clock with snooze feature
- Water resistant
- Easy to hold design

- ♦ Color: black
- ♦ Digit height: 0.28 in.
- ♦ Display size: 0.82 x 0.43 in.
- ♦ Dimensions: 2.4 x 2 x 0.5 in. (61 x 51 x 13mm)
- ♦ Power Source: 1 "CR2016" battery (included)

UPC	NO.
30999 5	**SW100A**

SW100AY

MULTI-FUNCTION YELLOW STOPWATCH

- Count-up to 23:59:59
- Displays lap time, minutes, seconds, month, day and date
- Daily alarm and hourly chime
- 1/100 seconds precision (for first 30 minutes)
- 12 or 24 hour selectable clock with snooze feature
- Water resistant
- Easy to hold design

- ♦ Color: yellow
- ♦ Digit height: 0.28 in.
- ♦ Display size: 0.82 x 0.43 in.
- ♦ Dimensions: 2.4 x 2 x 0.5 in. (61 x 51 x 13mm)
- ♦ Power Source: 1 "CR2016" battery (included)

UPC	NO.
31002 1	**SW100AY**

SW269

STOPWATCH WITH CLOCK

- Count-up to 39:59:59
- Displays lap time, hours, minutes, seconds, month, day and date
- 1/100 seconds precision (for first 40 minutes)
- Daily alarm and hourly chime
- 12 or 24 hour selectable clock with alarm feature
- Water resistant

- ♦ Color: black
- ♦ Digit height: 0.27 in.
- ♦ Display size: 1.2 x 0.8 in.
- ♦ Dimensions: 2.6 x 2.1 x 0.55 in. (66 x 53 x 14mm)
- ♦ Power Source: 1 "CR2016" battery (included)

UPC	NO.
31005 2	**SW269**

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FEATURES | **SPECIFICATIONS**

DIGITAL STOPWATCH WITH BACKLIGHT

- 1/100 second precision with lap counter
- Displays lap time, date, month, day, hour, minute, second
- Calendar and Time (12/24 hour format)
- Daily Alarm, snooze and hourly chime
- Big digit display
- Water resistant
- Shock resistant
- Replaces SW709BL

♦ Color: gray
♦ Digit height: 0.48 in.
♦ Display size: 1.3 x 0.63 in.
♦ Dimensions:
  3 x 2.35 x 0.78 in. (76 x 60 x 20mm)
♦ Power Source: 1 "CR2016" battery (included)

UPC	NO.
31035 9	**SW888M**

SW888M

THREE LINE STOPWATCH

- Triple line display
- 16 Lap and split memory with 1/100 second precision
- Fastest and slowest lap calculation
- Countdown timer
- Pacer with programmable memory
- Calendar and Time (12/24 hour format)
- Daily Alarm
- Memory full indicator
- Water resistant
- Shock resistant
- Replaces SW270

♦ Color: black
♦ Digit height: 0.23 in.
♦ Display size: 1.35 x 0.9 in.
♦ Dimensions:
  2.8 x 2.2 x 0.6 in. (71 x 96 x 15mm)
♦ Power Source: 1 "CR2016" battery (included)

UPC	NO.
31025 0	**SW888L**

SW888L

DIGITAL COMPASS WITH BACKLIGHT

Check directions, day, date and time.

- Solid compass arrow
- Displays cardinal points
- Numeric heading
- °F/°C switch
- Reset and on/off buttons
- Field calibratable
- Lock function
- Day and date display
- Clock with snooze alarm
- Water resistant
- Rugged rubber clip

♦ Numeric heading: displays every 5°
♦ Compass arrow: moves in 22.5° increments
♦ Cardinal points: N, E, NE, SE, S, SW, W, NW
♦ Temperature accuracy: ±2°F (±1°C)
♦ Directional accuracy: ±20°
♦ Dimensions:
  5.25 x 2.63 x 1 in.
  (134 x 67 x 25mm)
♦ Power Source:
  3 "AAA" batteries (included)
Includes: • Lanyard

UPC	NO.
62065 6	**DC360BL**

DC360BL

GENERAL®

DAMP206

FEATURES

DELUXE DIGITAL AMP CLAMP METER
Plant Maintenance, HVAC/R.
- 10 Functions - 34 Ranges
- Backlight and jaw light
- 1,000 amps AC
- Measures frequency, temperature and capacitance
- Data hold and rel. mode
- Diode test and continuity beeper
- Manual or auto ranging
- Jumbo 4 digit display
- Low battery indicator

SPECIFICATIONS

♦ AC/DC voltage: to 600V
♦ AC current: to 1,000A
♦ Resistance: to 40MΩ
♦ Range: -40º to 1000ºC
♦ Sampling rate: 3 times/second
♦ Jaw opening: 1.57 in.
♦ Dimensions:
  10.2 x 4.1 x 2 in. (260 x 104 x 51mm)
♦ Power Source:
  1 "9V" and 1 "AAA" battery (included)
Includes: • Soft case
  • All weather test leads
  • Temperature probe

UPC	NO.
50026 2	**DAMP206**

CE

RoHS
DAMP222

MINI AC/DC AMP CLAMP METER
AC/DC Current readings.
- 6 Functions - 6 Ranges
- Data and peak hold
- Auto power off
- Easy-to-use
- Continuity beeper
- Low battery indicator
- Auto power off
- Jumbo 4 digit LCD display
- CE and RoHS approved

♦ AC/DC voltage: to 600V
♦ AC/DC current: to 600A
♦ Resistance: to 1000Ω
♦ Sampling rate: 2 times/second
♦ Jaw opening: 1 in.
♦ Dimensions:
  7.4 x 2 x 1.3 in. (188 x 51 x 33mm)
♦ Weight: 7.8 oz. (221g)
♦ Power Source: 2 "AAA" batteries (included)
Includes: • All weather test leads
  • Soft carrying case

UPC	NO.
50030 9	**DAMP222**

NEW!

DAMP60
Replaces DAMP221

RUGGED AC AMP CLAMP
- 7 Functions - 20 Ranges
- Auto Ranging
- Easy to use
- Data Hold, Max Hold
- 3-1/2 in. Digit Jumbo LCD Display
- Continuity Buzzer, Diode Test
- Auto Power Off

♦ AC Current: 600AAC
♦ AC Voltage: 2/20/200/600VAC
♦ DC Voltage: 200mV/2/20/200/600VDC
♦ Resistance: 200/2k/20k/200k/2M/20MΩ
♦ Frequency: 10 - 2000Hz
♦ Power Source: 2 "AAA" batteries (included)
Includes: • Test leads
  • Carrying case

UPC	NO.
01356 4	**DAMP60**

ALWAYS WEAR
OSHA APPROVED
SAFETY GOGGLES

GENERAL®

AMP Clamps/Multimeters

FEATURES

SPECIFICATIONS

RUGGED HVAC TRUE RMS AMP CLAMP

- 11 Functions - 34 Ranges
- True RMS
- AC/DC Amps
- Easy to use
- Temperature
- Capacitance
- Max Hold, Zero Button
- Auto Ranging
- 3-1/2 in. Digit Jumbo LCD Display
- Continuity Buzzer, Diode Test
- Auto Power Off
- Replaces DAMP222

♦ AC Current: 600AAC
♦ AC Voltage: 400mV/4/40/400/600VAC
♦ DC Current: 600ADC
♦ DC Voltage: 400mV/4/40/400/600VDC
♦ Resistance: 400/4k/40k/400k/4M/40MΩ
♦ Capacitance:
  40n/400nF/4µ/40µ/400µ/4000µF
♦ Frequency:
  10/100/1000/10k/100k/1000k/10MHz
♦ Temperature: -40° to 752°F (-40° to 400°C)
♦ Power Source: 3 "AAA" batteries (included)
Includes: • Test leads
          • Carrying case

UPC	NO.
01369 4	**DAMP68**

NEW!

DAMP68

AUTOMOTIVE AC/DC ADAPTER

Many Automotive uses.

- Rugged Construction
- Measures both AC and DC Current
- High Accuracy
- DC Zero Adjust
- Fits all standard Digital Multimeters

♦ Current: 0-600A AC/DC
♦ Power Source: 1 "9V" battery (included)

UPC	NO.
10014 1	**DAMP3500**

DAMP3500

AUTOMOTIVE METER/AUTOMOTIVE KIT

AC/DC Current readings.

- 12 Functions - 39 Ranges
- Great for Automotive use
- Bar graph display
- 10 MΩ input Impedance
- Auto Power Off

♦ Temperature: -4° to 1832°F (-20° to 1000°C)
♦ DC Voltage: 0-400mV/4V/40V/400V/600VDC
♦ AC Voltage: 0-400mV/4V/40V/400V/600VAC
♦ DC Current:
  0-400µA/4000µA/40mA/400mA/10ADC
♦ AC Current:
  0-400µA/4000µA/40mA/400mA/10AAC
♦ Resistance: 0-400/4k/40k/400k/4M/40MΩ
♦ Frequency: 10-4k/40k/400kHz
♦ Tach:
  600-4000 (RPM), 4000-12000 (X) 10 RPM
♦ Dwell: 0-90.0° (4CYL), 0-72.0° (5CYL),
  0-60.0° (6CYL), 0 -45.0° (8CYL)
♦ Duty Cycle: 1.0 to 90.0%
♦ Continuity test:
  5.8 x 2.8 x 1.5 in. (147 x 70 x 39mm)
  12.9 oz. (370g)

♦ Power Source: 1 "9V" battery (included)
Includes: • Test Leads
          • Temperature Probe
          • Inductive Pickup
          • Rubber Holster

UPC	NO.
50031 6	**DAMP3505**
10016 5	**DAMP3505KIT = DAMP3500 + DAMP3505**

DAMP3505
DAMP3505KIT

"It's Your Job . . . General Tools Make It Easier"

GENERAL®

CE
RoHS
DMM122DL

DMM333

DMM51FSG

DMM830HS

FEATURES

SPECIFICATIONS

DATA LOGGING TRUE RMS MULTIMETER WITH PC INTERFACE

TRMS for variable speed drives etc.

- 00 Functions - 00 Ranges
- Data logger
- Auto ranging
- Diode test
- Continuity beeper
- RS-232 computer interface
- LED backlight
- Data and peak hold
- Shock absorbent holster
- Min/Max Recording
- Frequency/RPM
- Δ rel mode
- 32,000 record data logger
- CE and RoHS approved

♦ AC voltage: 400mV to 750V
♦ DC voltage: 400mV to 1,000V
♦ AC/DC amps: 400µA to 10A
♦ Frequency: 4KHz to 40MHz
♦ Ohms: 400 to 40MΩ
♦ Temperature range:
   -58° to 1832°F (-50° to 1000°C)
♦ RPM: 40K RPM to 400M RPM
♦ Power Source: 1 "9V" battery (included)
Includes: • RS-232 computer interface
               w/ Cable, Software
         • Holster
         • Test leads & 1 "K" type beaded
           probe (TPK500)

UPC	NO.
50110 8	**DMM122DL**

DIGITAL CREDIT CARD STYLE MULTIMETER

Fits in shirt pocket.

- 7 Functions - 25 Ranges
- Easy to use
- Card size
- Auto ranging
- Continuity beeper
- Diode Check
- Auto power off
- Low battery indicator
- Fast sampling rate
- Data hold
- Max hold

♦ DC Voltage: 200mV/2/20/200/7500VDC
♦ AC Voltage: 2/20/200/500VAC
♦ DC Current: 200u/a/2/20/200mADC
♦ AC Current: 200u/a/2/20/200mAAC
♦ Resistance: 200/2k/20k/2M/20MΩ
♦ Dimensions:
   4.25 x 2.1 x 0.25 in. (108 x 53 x 6.4mm)
♦ Power Source: 2 "LR44" batteries (included)
Includes: • Test leads

UPC	NO.
50105 4	**DMM333**

DIGITAL SERVICE MULTIMETER

HVAC/R, Industrial uses.

- 8 Functions - 34 Ranges
- Measures AC/DC voltage, AC/DC
  current, resistance, diode, continuity
  and transistors
- Jumbo LCD display
- Micro amps for FSG measurement
- Low battery display
- Continuity beeper
- Protective boot with tilt stand

♦ AC voltage: 200mV to 750V
♦ DC voltage: 200mV to 1000V
♦ AC current: 200µA to 10A (6 Ranges)
♦ DC current: 20µA to 10A (7 Ranges)
♦ Resistance: 200Ω to 200MΩ (7 Ranges)
♦ Power Source: 1 "9V" battery (included)
Includes: • All weather test leads
         • Rubber Holster

UPC	NO.
50190 0	**DMM51FSG**

ECONOMY DIGITAL MULTIMETER WITH LED AND CONTINUITY BEEPER

Provides electrical readings economically.

- 7 Functions - 20 Ranges
- Single lead hotside identification with
  bright red LED
- Continuity beeper with red LED
- AC/DC Volts
- DC current
- Distinguished hot and ground
- Ground disconnect check

♦ AC voltage: 200V, 750V (2 Ranges)
♦ DC voltage: 2V to 1000V (4 Ranges)
♦ DC current: 200µA to 10A (5 Ranges)
♦ Resistance: 200Ω to 2MΩ (5 Ranges)
♦ Power Source: 1 "9V" battery (included)
Includes: • Test leads

UPC	NO.
50100 9	**DMM830HS**

FEATURES

SPECIFICATIONS

ANALOG MULTIMETER

Makes economical electrical readings.

- 5 Functions - 13 Ranges
- Fuse and diode protected
- Single knob function and range selector switch
- Self-storing leads
- AC/DC Volts
- DC current
- UL Listed

- ♦ AC voltage: 0/50/250/500 Volts
- ♦ DC voltage: 0/10/50/250/500 Volts
- ♦ DC current: 0/25mA/250mA
- ♦ Resistance: 0 - 1MΩ
- ♦ Dimensions: 4 x 2-1/2 x 3/4 in.
- ♦ Power Source: 1 "AA" battery (included)
- Includes: • Test leads

UPC	NO.
50005 7	**AM35UL**

AM35UL

DIGITAL UL LISTED MULTIMETER

Economical Electrical Readings.

- 7 Functions - 20 Ranges
- High Impact Thermoplastic Case
- Simple Operation
- Small Pocket Size
- Safety Recessed Test Lead Connections
- Continuity Buzzer
- UL Listed

- ♦ Ranges and Accuracy
- ♦ AC Voltage: 0-200/600 Vac,±2.5%
- ♦ DC Voltage: 0-200mV/2/20/200/600 Vdc, ±2%
- ♦ DCCurrent: 0-2000uA/20m/200mA/10Adc,±1%
- ♦ Resistance: 0-200/2k/20k/200k/2M/20MΩ,±1.5%
- ♦ Power Source: 1 "9V" battery (included)
- Includes: • Battery Test
          • Diode Test

UPC	NO.
50121 4	**DMM20UL**

DMM20UL

AUTOMATIC DIGITAL CAPACITOR TESTER

Checks Capacitors on controller boards.

- 0.5% accuracy
- Overload fuse protection
- Alligator test clips
- Insert jacks or test leads
- Easy measurement

- ♦ Range: 200 pF/2nF/20nF/200nF
- ♦ Measurement voltage: 4.5 V max.
- ♦ Test frequency: 8/80/800 Hz
- ♦ Principle: Dual slope integration
- ♦ Power Source: 1 "9V" battery (included)
- Includes: • Alligator test leads
          • Soft case

UPC	NO.
50192 4	**CAP1500**

CAP1500

PRECISION DIGITAL INSULATION TESTER

Ideal for preventive maintenance on motor windings.

- 4 digit LCD display
- Auto ranging
- Test hold function
- Over range indication
- Low battery warning
- Continuity beeper
- 40 segment analog display
- Automatic zero to null resistance
- Frictional back cover design

- ♦ AC/DC voltage: to 600V
- ♦ Ohms: 400, 4,000 (auto-ranging)
- ♦ MΩ: 4, 40, 400, 4000 at 250/500/1000V
- ♦ Dimensions: 7-1/2 x 4-1/4 x 2-1/2 in.
- ♦ Power Source: 8 "AA" batteries (included)
- Includes: • Test leads
          • Large jaw alligator clips
          • Soft case

UPC	NO.
42015 7	**DIT360**

DIT360

"It's Your Job . . . General Tools Make It Easier"

Electrical Kit/Stud/Voltage/Metal Detectors

GENERAL®

FEATURES

SPECIFICATIONS

UTILITY ELECTRICAL KIT

Ideal for the Home Handyman.

- 7 Functions - 20 Ranges
- Continuity Buzzer
- UL Listed

Contains:
- No. **906** - Diagonal Cutter
- No. **69** - Dial Wire Stripper
- No. **84101** - Flip Driver 6-IN-1 Screwdriver with 3 double ended bits: 3/16", 1/4" Slotted; #1, #2 Phillips; 1/4", 5/16" Nut Driver
- **DMM20UL** - Digital Multimeter - Manual Range

♦ Wire Gage Capacity: 26, 24, 22, 20, 18, 16, 14, 12
♦ AC Voltage: 200/600V
♦ DC Voltage: 200mV/2/20/200/600V
♦ Resistance: 200/2k/20k/200k/2/20MΩ
♦ DC Current: 2mA/20m/200mA/10A
♦ Battery Test 1.5V/9V
♦ Diode Test
♦ Power Source: 1 "9V" battery (included)
Includes: • Zippered Case

UPC	NO.
50197 9	**ETK-100**

ETK100

3-IN-1 LED STUD/VOLTAGE/METAL DETECTOR

Ideal for Locating Studs, Objects/Wires Carrying Voltage, Hidden Metal.

- Stud, Voltage and Metal Detection combined in one unit
- 4-level low power consuming LED's indicate precise stud detection
- Metal/Voltage Selector Switch provides accuracy in detecting hidden metal or wiring
- Stud Detector can be operated with Metal or Voltage Detector simultaneously
- Easy to distinguish between battens/studs, metal pipes/tubes or objects carrying voltage
- No probe necessary

♦ Dimensions: 6.1 x 2.6 x 1.3 in. (155 x 65 x 32mm)
♦ Weight: 6.3 oz. (178g)
♦ Power Source: 1 "9V" battery (not included)
Includes: • User's Manual

UPC	NO.
01276 5	**MSV250**

MSV250
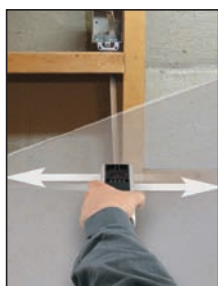
DIGITAL 3-IN-1 LCD STUD / VOLTAGE / METAL DETECTOR

Ideal for Locating Studs, Pipes, Wires Carrying Voltage and Hidden Metal.

- Selectable Metal, Voltage and Stud detections or Auto Mode to perform 3 functions simultaneously
- Micro-Processor Control Circuits provide precise and accurate detections
- Results shown on LCD with buzzer
- Multi-Scan-Level to pinpoint exact position
- Battery status indicated on LCD
- Auto Power OFF
- Low power consumption
- Ideal for the D. I.Y. Homeowner, Handyman, Hobbyist and Professional

♦ Dimensions: 6.1 x 2.6 x 1.3 in. (155 x 65 x 32mm)
♦ Weight: 6.5 oz. (185g)
♦ Power Source: 1 "9V" battery (not included)
Includes: • User's Manual

UPC	NO.
01275 8	**MSV350D**

MSV350D

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

GENERAL®

FEATURES

SPECIFICATIONS

CIRCUIT ANALYZER

Ideal for checking wall outlets.

- Warns against faulty wiring in 3-wire receptacles
- Works on 110 to 125V AC circuits
- Gives instant display of wiring condition
- Detects faulty wiring in three wire receptacles
- Combinations of three lights indicate if wiring is correct
- Combinations of three lights indicate six possible faulty conditions

UPC	NO.
01359 5	**CT300**

CT300

3 WIRE TESTER WITH GFCI

Ideal for Home Inspection.

- Works on 110 to 125V AC circuits
- Tests GFCI receptacle for proper operation
- Gives instant display of wiring condition
- Detects faulty wiring in three wire receptacles
- Combinations of three lights indicate if wiring is correct
- Combinations of three lights indicate six possible faulty conditions

UPC	NO.
51067 4	**GF1302**

GF1302

LINE VOLTAGE SCREWDRIVER TESTER

Tests for continuity, polarity, breaks in lines.

- LED light and buzzer indication
- AC contact and non-contact
- DC volts
- Checks fuses
- Continuity and polarity checks
- Microwave leakage test

♦ AC voltage: 70 to 250 VAC/DC
♦ DC voltage / polarity check: 1.3 to 3.6 VDC
♦ Continuity test: 0 to 100MΩ
♦ Power Source: 1 "LR44" battery (included)

UPC	NO.
51075 9	**CT500AV**

CT500AV

ECONOMY SCREWDRIVER TESTER

Checks for "Hot" side of outlet.

- High voltage tester
- Pocket screwdriver
- Clips to shirt pocket

♦ AC/DC voltage: 90 to 250V
♦ Weight: 0.06 lbs. (27g)
♦ Power Source: 1 "LR44" battery (included)

UPC	NO.
51005 6	**ST400**

ST400

BRIGHT RED LED SCREWDRIVER TESTER

Checks for Continuity, Voltage.

- Self-test
- Continuity and polarity checks
- Microwave leakage test
- Checks fuses
- Drop-resistant to 10 ft.

♦ AC voltage: 70 to 250V
♦ Non-contact AC: 70 to 600V
♦ Continuity test: 0 to 50MΩ
♦ Power Source: 1 "LR44" battery (included)

UPC	NO.
51115 2	**ST600LED**

ST600LED

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ELECTRICAL
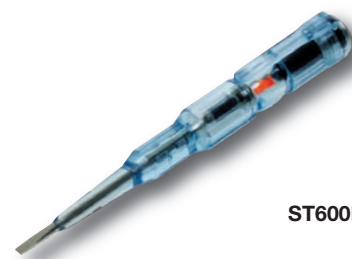
FEATURES

SPECIFICATIONS

CT101

LINE VOLTAGE TESTER
Ideal for Outlet wiring.

- Easy-to-use
- Protective leads
- Handy pocket clip
- UL Listed

♦ AC/DC voltage: 80 to 500V
♦ Amps: 0.3
♦ Wire gauge: 18 gauge
♦ Weight: 0.10 lb. (45g)

UPC	NO.
51025 4	**CT101**

CT102

LOW VOLTAGE TESTER
Ideal for Doorbell transformers and low voltage relays.

- Easy-to-use
- Insulated boots
- Alligator clips
- Handy pocket clip

♦ AC/DC voltage: 5 to 50V
♦ Amps: 5
♦ Wire gauge: 18 gauge
♦ Weight: 0.10 lb. (45g)

UPC	NO.
51035 3	**CT102**

CT103

MULTI-VOLTAGE TESTER
Checks for voltage levels and hot wires.

- 4 Way voltage tester
- Automatically indicates voltage of circuit indoor test
- Handy pocket clip
- UL Listed

♦ AC/DC voltage: 110, 220, 277, 460V
♦ Amps: 1.3
♦ Wire gauge: 20 gauge
♦ Weight: 0.16 lb. (73g)

UPC	NO.
51045 2	**CT103**

NEW!

VS3000A

AUDIBLE/VISUAL NON-CONTACT VOLTAGE TESTER, UL LISTED
Ideal for voltage breaks in lines.

- Non-Contact Voltage Detection
- Indicates presence of voltage from 50-600VAC
- Reads Hot Wire With Respect to Ground
- Audible and Visual Indication
- Easy-to-use
- UL Listed

♦ Voltage Range: 0–600VAC CAT IV
  0–1000VAC CATIII
♦ Frequency Range: 50-500Hz
♦ Operating Environment: 32° to 122°F (0° to 51°C) at <95%RH
♦ Storage Temperature: -4 to 140°F (-20 to 60°C) at <95%RH
♦ Dimensions: 6.0 x .9 x .8 in. (152 x 23 x 20 mm)
♦ Weight: 1.6 oz. (50g)
♦ Power Source: 2 "AAA" batteries (included)

UPC	NO.
012621 1	**VS3000A**

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SAFETY GOGGLES

FEATURES   **SPECIFICATIONS**

START SWITCH 16/2, 20 AMP, PUSH BUTTON (UL SWITCH)
Quickly hooks up motors/machinery for testing.

- Red and black heavy duty boots
- Large clips
- Push button start switch
- Replaces any C-6 start switch

♦ Amps: 15
♦ Wire gauge: 16/2 gauge
♦ Length: 2 ft.
♦ Weight: 0.52 lb. (240g)

UPC	NO.
51145 9	**SSC6**

SSC6

TEST CORD (MALE)

- Red and black heavy duty boots
- Large clips
- 2 wire

♦ Volts: 125V
♦ Amps: 13A
♦ Wire gauge: 16 gauge
♦ Length: 72 in.
♦ Weight: 0.50 lb. (227g)

UPC	NO.
50601 1	**CT600M**

CT600M

TEST CORD (FEMALE)

- Red and black heavy duty boots
- Large clips
- 3 wire
- Get power in remote areas without 110V outlet

♦ Volts: 125V
♦ Amps: 13A
♦ Wire gauge: 16 gauge
♦ Length: 24 in.
♦ Weight: 0.36 lb. (163g)

UPC	NO.
51095 7	**CT700F**

CT700F

MULTI-COLORED TEST LEADS
Handy Jumper set of Leads.

- Easy-to-use multi-colored test leads
- 5 colors (2 each) for easy testing on the job white, red, black, yellow and green

♦ Volts: 300V
♦ Wire gauge: 22 gauge
♦ Length: 18 in.
♦ Weight: 0.18 lb. (82g)

UPC	NO.
51105 3	**CT800**

CT800

STANDARD TEST LEADS
Handy Jumper Leads.

- 2 lengths available
- Handy jumper test leads
- Medium alligator clips
- Insulated boots

♦ Volts: 300V
♦ Amps: 10A
♦ Wire gauge: 16 gauge
♦ TL100 length: 36 in.
♦ Weight: 0.12 lb. (54g)

UPC	NO.
51125 1	**TL100**

TL100

ELECTRICAL

"It's Your Job . . . General Tools Make It Easier"

GENERAL®

ELECTRICAL

FEATURES

SPECIFICATIONS

TL360W

ALL WEATHER TEST LEADS
Ideal for cold weather.

- Flexible soft leads
- Ideal for cold months
- Medium alligator clips with insulated boots

♦ Volts: 300V
♦ Amps: 10A
♦ Wire gauge: 18 gauge
♦ Length: 36 in.
♦ Weight: 0.26 lb.

UPC	NO.
51135 0	**TL360W**

TL13

TEST LEADS WITH HARD POINT

- Comfort-grip probe with PVC-insulated leads. Safety-shrouded, right-angled inputs
- CAT IV 600 V, CAT III 1000 V, 10A rating

UPC	NO.
01344 1	**TL13**

TL108

TEST LEADS

- Includes right angle end and straight end silicone test leads. PVC-insulated leads
- CATIII 1000V/CATIV 600V, 10A rating

UPC	NO.
01351 9	**TL108**

TL20K

TEST LEADS

- Includes 2 each: alligator clips, industrial test grip, right angle silicon test leads
- CATIII 1000V/CATIV 600V, 10A rating

UPC	NO.
01350 2	**TL20K**

TL23K

TEST LEADS

- Includes 2 each: insulated silicon test lead, straight and right-Angle Shrouded Banana Plugs, Probes with Flat Blade Tips, Alligator clips
- CATIII 1000V/CATIV 600V, 10A rating

UPC	NO.
01349 6	**TL23K**

ETL111

ALLIGATOR CLIP SET 1000V

- Alligator Clips with Boots CATIII, 1000V, 10A rating

UPC	NO.
01348 9	**ETL111**

AMY6

NORTH POLE/SOUTH POLE MAGNETIC DETECTOR

- Finds north and south poles of magnetic fields
- Two color LED indication (red for "N", green for "S")
- Loud buzzer indication
- Pocket clip

♦ Operating voltage: 6V
♦ Power Source: 4 "LR44" batteries (included)

UPC	NO.
55300 8	**AMY6**

ALWAYS WEAR
OSHA APPROVED
SAFETY GOGGLES

81001

ZIP-TOP TOOL AND METER BAG, 16 IN. WIDE

- Moisture-resistant reinforced bottom
- Steel frame mouth and rivet reinforced for rugged use and durability
- Adjustable padded non-slip shoulder strap
- Dimensions:
  12 x 16 x 8 in. (305 x 406 x 203mm)

UPC	NO.
01319 9	**81001**

ULTRA*TUFF*™
TOOL BAGS

ACCESSORIES

UPC	MODEL	DESCRIPTION
MOISTURE/TEMPERATURE & HUMIDITY REPLACEMENT PROBES		
01255 0	MP7003	EXTERNAL PIN TYPE PROBE FOR MMD7003
70604 6	MP7021	EXTERNAL PIN TYPE PROBE FOR MM70, MM70D
07070 3	MP7022	ROLLER TYPE PROBE FOR MM70, MM70D
07040 6	MP7011	EXTERNAL PIN TYPE PROBE FOR MM700D
07050 5	MP7012	ROLLER TYPE PROBE FOR MM700D
PSYCHROMETERS REPLACEMENT WICKS/THERMOMETERS		
10043 1	P8706	REPLACEMENT PROBE FOR EP8706
10260 2	SPR108	(2) RED SPIRIT THERMOMETERS FOR SP100FR
10265 7	SPR109	(2) RED SPIRIT THERMOMETERS FOR SP100CR
10270 1	SPR120	(6) REPLACEMENT WICKS FOR ALL PSYCHROMETERS
10202 2	RTSP	(2) REPLACEMENT THERMOMETERS FOR TSP200R (RED SPIRIT)
WATER QUALITY METERS/REPLACEMENT PROBES		
41335 7	8690P	REPLACEMENT HEAD FOR MODEL DPH8690
41451 4	CP22CT	REPLACEMENT CONDUCTIVITY PROBE FOR: DCM22CT
41446 0	CP4300	REPLACEMENT CONDUCTIVITY PROBE FOR: DCM4300
41442 2	CTOP2001	REPLACEMENT CONDUCTIVITY/TDS PROBE FOR: DCT2001, DCM22CT, DCM4300
41439 2	DOP2201	REPLACEMENT DISSOLVED OXYGEN PROBE FOR: DPHC2001
REFRIGERANT LEAK DETECTOR SENSOR		
01378 6	RS380	REPLACEMENT SENSOR FOR RLD380L & RLD382P
AIRFLOW METER REPLACEMENT VANES		
40006 7	P8901	REPLACEMENT VANE FOR MODEL DCFM8901
01291 8	P8912	REPLACEMENT VANE FOR WDCFM8912
40121 7	P4204	REPLACEMENT VANE FOR MODEL HWA4204HA
40136 1	P80M	REPLACEMENT VANE FOR DAF80PWM
40137 8	P80MIN	REPLACEMENT VANE FOR DAF80MIN
01253 6	P80W	REPLACEMENT VANE FOR DAF80PW
01259 8	PHWA2005	REPLACEMENT VANE FOR HWA2005DL
01260 4	P2005DAF	REPLACEMENT VANE FOR DAF2005MDL

MP7003

CTOP2001

MP7021

MP7012

P80M

P80MIN

P2005DAF

P4204

P8901

P8912

INDUSTRIAL

P1600ART-1SM

PM003

81001

HR33LJ

HR33LJ

UPC	MODEL	DESCRIPTION
CAMERA PROBES, EXTENSIONS AND ACCESSORIES		
01396 0	P1839	OBEDIENT, FORWARD VIEW PROBE FOR DCS 1800 & DCS1600 - 2.46 FT (0.75m) - Diam. 3.9mm
01379 3	P1618-1SR	OBEDIENT, FORWARD VIEW PROBE FOR DCS 1800 & DCS1600 - 3.2 FT (1m) - Diam. 5.5mm
01380 9	P1618-2SR	OBEDIENT, FORWARD VIEW PROBE FOR DCS 1800 & DCS1600 - 6.6 FT (2m) - Diam. 5.5mm
01381 6	P1618-3SR	OBEDIENT, FORWARD VIEW PROBE FOR DCS 1800 & DCS1600 - 9.8 FT (3m) - Diam. 5.5mm
01382 3	P1618-1SM	SOFT METAL FORWARD VIEW PROBE FOR DCS1600 & DCS1800 - 3.2 FT (1m) - Diam. 5.5mm
01383 0	P1618-3SM	SOFT METAL FORWARD VIEW PROBE FOR DCS1600 & DCS1800 - 9.8 FT (3m) - Diam. 5.5mm
01357 1	P1618-5SM	SOFT METAL FORWARD VIEW PROBE FOR DCS1600 & DCS1800 - 16.4 FT (5m) - Diam. 5.5mm
01384 7	P1618-10SM	SOFT METAL FORWARD VIEW PROBE FOR DCS1600 & DCS1800 - 32.8 FT (10m) - Diam. 5.5mm
01385 4	P1618-30SM	SOFT METAL FORWARD VIEW PROBE FOR DCS1600 & DCS1800 - 98.4 FT (30m) - DIAM. 5.5mm
01395 3	DCS1618M	MEASURING ATTACHMENT AND SOFTWARE FOR DCS1800 AND DCS1600
01418 9	P16ART-1SM	1M, ARTICULATING, SOFT METAL PROBE FOR DCS1600 SYSTEMS
01419 6	P18ART-1SM	1M, ARTICULATING, SOFT METAL PROBE FOR DCS1800 SYSTEMS
01370 0	PM003	REPLACEMENT MIRROR SET FOR DCS1600 & DCS1800 (set of 3) 70º, 90º 110º
01393 9	P400-1	OBEDIENT REPLACEMENT PROBE FOR DCS400 W/CAMERA & LED - 3.2 FT (1m) - Diam. 17mm
01394 6	P400-1X	OBEDIENT REPLACEMENT PROBE FOR DCS400 - 3.2 FT (1m) - Diam. 17mm
01399 1	P400-95	OBEDIENT REPLACEMENT PROBE FOR DCS400 W/CAMERA & LED - 3.2 FT (1m) - Diam. 9.5mm
01386 1	P230-1	OBEDIENT REPLACEMENT PROBE FOR DCS200/300 W/CAMERA & LED - 3.2 FT (1m) - Diam. 12mm
01387 8	P230-1X	OBEDIENT REPLACEMENT PROBE FOR DCS200/300 - 3.2 FT (1m) - Diam. 12mm
01390 8	P230-2X	OBEDIENT REPLACEMENT PROBE FOR DCS200/300 - 6.6 FT (2m) - Diam. 12mm
01391 5	P230-3X	OBEDIENT REPLACEMENT PROBE FOR DCS200/300 - 9.8 FT (3m) - Diam. 12mm
SOFTWARE KITS		
41420 0	LSFT KIT	DOWNLOAD SOFTWARE & CABLE FOR: DCM22CT, DPHC2001, DCT2001, DCM4300; DPH208R; UVC254; DAF80MIN, DAF80PW, DAF80PWM; HWA4204HA; PM9100; VC9200; TQ8800; VB8201HA; DTH3009DL, DAF2005MDL, HWA2005DL
12710 0	ASFT KIT	DOWNLOAD SOFTWARE & CABLE FOR: PIRT9811; DT8852; DSM8922; CDM77535; DCFM8906, DCFM8901; WDCFM8912; DM8205, DM8215, DM8230, DM8200, DM8252, DM8252RS
AC ADAPTERS		
10166 7	AC314	ADAPTER FOR: DTH314DL
21014 7	Z110 ADAPTER	ADAPTER FOR: DT8852; DM8205, DM8215, DM8230, DM8200, DM8252, DM8252RS.
BLACK LIGHT		
01293 2	BL6	BATTERY OPERATED BLACK LIGHT
INSTRUMENT CASE		
01264 2	C16	CASE FOR: DLAF8000, DLAF8000C
TOOL BAG		
01319 9	81001	ZIP-TOP TOOL AND METER BAG, 16 IN. WIDE
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16120 3	HR33LJ	CALIBRATION SALT FOR DTH314DL
16130 2	HR75LJ	CALIBRATION SALT FOR DTH314DL
REPLACEMENT BATTERIES		
72005 9	B1300	"D" ALKALINE BATTERIES - MINIMUM ORDER 12
72015 8	B1400	"C" ALKALINE BATTERIES - MINIMUM ORDER 12
72025 7	B1500	"AA" CELL ALKALINE BATTERIES - MINIMUM ORDER 12
72045 5	B1604	"9V" ALKALINE BATTERIES - MINIMUM ORDER 12
72035 6	B2400	"AAA" CELL ALKALINE BATTERIES - MINIMUM ORDER 12
72155 1	CR2032	REPLACEMENT BATTERY FOR: PTH8708; SAMJR995 - MIN ORDER 12
72125 4	LR44	REPLACEMENT BATTERY FOR: HDT303K; CT500AV & MOST STEM THERMOMETERS - MIN ORDER 12

OPTIONAL PROBES FOR DCS200 & DCS300

UPC	NO.	LENGTH	TYPE	DIAMETER
01386 1	P230-1	3.3 ft. (1m)	Obedient w/camera/LED	Diam. 12mm
01387 8	P230-1X	3.3 ft. (1m)	Obedient extension	Diam. 12mm
01390 9	P230-2X	6.6 ft. (2m)	Obedient extension	Diam. 12mm
01391 5	P230-3X	9.8 ft. (3m)	Obedient extension	Diam. 12mm

OPTIONAL PROBES FOR DCS400

UPC	NO.	LENGTH	TYPE	DIAMETER
01393 9	P400-1	3.3 ft. (1m)	Obedient w/camera/LED	Diam. 17mm
01399 1	P400-95	3.3 ft. (1m)	Obedient w/camera/LED	Diam. 9.5mm
01394 6	P400-1X	2.9 ft. (.9m)	Obedient extension	Diam. 17mm

ARTICULATION PROBES FOR DCS1800 & DCS1600

UPC	NO.	LENGTH	TYPE	DIAMETER
01419 6	P18ART-1SM	1m (3.3ft.)	Soft Metal Probe	5.5mm
01418 9	P16ART-1SM	1m (3.3ft.)	Soft Metal Probe	5.5mm

OPTIONAL PROBES FOR DCS1600 & DCS1800

UPC	NO.	LENGTH	TYPE	DIAMETER
01379 3	P1618-1SR	3.3 ft. (1m)	Obedient	Diam. 5.5mm
01380 9	P1618-2SR	6.6 ft. (2m)	Obedient	Diam. 5.5mm
01381 6	P1618-3SR	9.8 ft. (3m)	Obedient	Diam. 5.5mm
01382 3	P1618-1SM	3.3 ft. (1m)	Soft Metal	Diam. 5.5mm
01383 0	P1618-3SM	9.8 ft. (3m)	Soft Metal	Diam. 5.5mm
01357 1	P1618-5SM	16.4 ft. (5m)	Soft Metal	Diam. 5.5mm
01384 7	P1618-10SM	32.8 ft. (10m)	Soft Metal	Diam. 5.5mm
01385 4	P1618-30SM	98.4 ft. (30m)	Soft Metal	Diam. 5.5mm
01396 0	P1839	2.5 ft. (.075m)	Obendient	Diam. 3.9mm

OPTIONAL ACCESSORIES FOR DCS1600 & DCS1800

UPC	NO.			
01395 3	DCS1618M	Click N' Measure software and measuring tip		
01370 0	PM003	Set of 3 mirrors: 70°, 90°, 110°		

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

Instruments Reference

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TEMPERATURE & HUMIDITY MEASUREMENTS

Distance-to-Spot ratio (D:S)
The distance-to-spot ratio (D:S) is the ratio of the distance to the object and the diameter of the temperature measurement area. For instance if the D:S ratio is 8:1, measurement of an object 8 inches away will average the temperature over a 1 inch diameter area. For better accuracy the spot needs to be kept on the object being measured.

Emissivity
Emissivity is measured by the amount of energy radiated when the surface is directly observed. The emissivity of a black body is unity at all wavelengths whereas painted surfaces are typically 0.95.

Sling Psychrometer
A sling psychrometer consists of two thermometers mounted together within a handle. One thermometer is ordinary. The other has a cloth wick over its bulb and is called a wet-bulb thermometer. It is used in determining the relative humidity.

Fahrenheit or F
Celsius or C

$°F = (1.8 \times °C) + 32$ $°C = (°F-32) \times 0.555$
Kelvin $= °C + 273.15$ **Rankin** $= °F + 459.67$

Dry-bulb
Dry-bulb temperature is the temperature registered by the dry-bulb thermometer of a psychrometer. It is identical to the temperature of the air.

Wet-bulb
Wet-bulb temperature is the temperature that the air would have if cooled to saturation by the evaporation of water.

Humidity
The degree of water vapor or wetness in the air.

Relative Humidity (RH)
The amount of water vapor in a sample of air compared to the maximum amount of water vapor the air can hold at any specific temperature. It ranges from 1 to 100% RH.

Thermistor
A semiconductor material whose resistivity changes with temperature.

Thermocouples
A widely used type of temperature sensor that can also be used as a means to convert thermal potential difference into electric potential difference. They are sets of two dissimilar metals used to measure temperature. Some of the most commonly used types of thermocouples are:
J (Fe/constantan) **K** (chromel/alumel)
T (Cu/constantan) **E** (chromel/constantan)
R (Pt/Pt - 30% RH) **S** (Pt/Pt -10% RH)
N (NiCrSi-NiSi).

Heat index
The temperature the body feels when heat and humidity are combined. The body dissipates heat by varying the rate and depth of blood circulation, by losing water through the skin and sweat glands, and, as a last resort, by panting, when blood is heated above 98.6°F (37° C). Sweating cools the body through evaporation. However, high relative humidity retards evaporation, robbing the body of its ability to cool itself. When heat gain exceeds the level the body can remove, body temperature begins to rise, and heat related illnesses and disorders may develop.

Wind chill
The term used to describe the rate of heat loss on the body resulting from the combined effect of low temperature and wind. As winds increase, heat is carried away from the body at a faster rate, driving down both the skin temperature and eventually the internal body temperature.

Data Logger
An instrument that records or logs data, much of which may be real-time and later downloaded to a computer for studies.

Moisture content
The amount of moisture in material being tested. Some moisture meters directly read % material moisture and others provide a relative scale.

WATER QUALITY

pH
A measure of acidity and alkalinity of a solution on a scale in which a value of 7 represents neutrality and lower numbers indicate increasing acidity and higher numbers increasing alkalinity. Each unit of change represents a tenfold change in acidity or alkalinity and is the negative logarithm of the effective hydrogen-ion concentration or hydrogen-ion activity in gram equivalents per liter of the solution. It ranges from 0 to 14.

Oxygen Reduction Potential (ORP)
This is basically a measurement to oxidize contaminants. It is the only practical method we have to electronically monitor sanitizer effectiveness.

Reduction/Oxidation Reaction (Redox)
This describes all chemical reactions in which atoms have their oxidation number (oxidation state) changed.

Oxidation
This describes the loss of electrons by a molecule, atom or ion.

Reduction
This describes the gain of electrons by a molecule, atom or ion.

Total Dissolved Solids (TDS)
This is a measurement for the combined content of all inorganic and organic substances present within a liquid. Total Dissolved Solids (TDS) of the water tells you the quality of water. It may be used to check if your reverse osmosis water system is working properly. It may also be used to decide if the membrane or cartridges should be changed or not.

Dissolved Oxygen (DO)
This is the relative amount of oxygen that is dissolved in a given sample.

Electrical Conductivity (EC)
This is the measurement of the electrical conductivity of water. Clean water has a low EC. When you add nutrients and pH adjusters, the EC will increase.

Conductivity (μS)
This is a measurement of the number of ions in a liquid. It is commonly used to measure the quality of a solution.

Automatic temperature compensation (ATC)
Automatic correction for the influence of temperature on a given measurement.

SOUND MEASUREMENTS
A-frequency-weighting is mandated for the protection of workers against noise-induced deafness affecting their health and welfare. The levels, are not single event, or "peak" levels, but represent averages of acoustic energy over periods of time such as 8 hours or 24 hours, and over long periods of time such as years. This allows old data to be compared with new measurements.
C-frequency-weighting is primarily used in the measurement of the peak value of a noise.

GAS MEASUREMENTS

Carbon Monoxide (CO)
An odorless and very toxic gas. CO is formed as a product of the incomplete combustion of carbon or a carbon compound.

Carbon Dioxide (CO_2)
This gas is naturally present in the atmosphere at levels of approximately 0.035%. Short-term exposure to CO_2 at levels below 2% (20,000 parts per million or ppm) has not been reported to cause harmful effects. Higher concentrations can affect respiratory function and cause excitation followed by depression of the central nervous system. High concentrations of CO_2 can displace oxygen in the air, resulting in lower oxygen concentrations for breathing. Therefore, effects of oxygen deficiency may be combined with effects of CO_2 toxicity. It is often monitored with IAQ equipment.

Indoor Air Quality (IAQ)
This is used to determine the health of the workplace or building by measuring gasses such as carbon dioxide.

Lower explosive limit (LEL)
This is the lowest amount of gas that will cause an explosion. Detectors that sense lower levels of gas will warn you more quickly of the presence of a combustible gas than detectors that sense higher levels.

Parts per million (ppm)
This is the ratio of how much of the tested solid, liquid or gas is present within a million of the sampled solid, liquid (solution) or gas (air) molecules.

LIGHT MEASUREMENTS

Lux
A photometric unit of illuminance or illumination equal to one lumen per square meter.

Foot-candle (fc)
A unit of illuminance or illumination equal to one lumen per square foot.
fc $= 10.76 \times$ lux   **lux** $=$ fc $/ 10.76$

Ultraviolet light (UV)
This is the part of the electromagnetic spectrum

which is adjacent to and greater in energy than visible light. The ultraviolet spectrum extends from 180 to 400 nanometers (nm) and is divided into three categories: shortwave (UV-C), medium-wave (UV-B), and longwave (UV-A).

UV-A Ultraviolet radiation in the wavelength band of 320 - 390nm with a peak in energy at about 365 nm; a component of the spectrum of solar radiation that can tan human skin or cause redness in sensitive skin.

UV-B Ultraviolet radiation in the wavelength band of 290 – 320nm with a peak in energy at about 312 nm; a component of the spectrum of solar radiation that can cause sunburn and skin cancer. This band is only partially blocked by the atmospheric ozone layer.

UV-C Ultraviolet radiation in the wavelength band of 200 – 290nm with a peak in energy at about 254 nm; a very harmful component of the spectrum of solar radiation that can cause chromosome mutations, death of single-cell organisms, and damage to the cornea of the eye.

This band is almost completely blocked by the atmospheric ozone layer.

EMF/BTU MEASUREMENTS

Electro-Magnetic Interference (EMI)
Radiation which may affect the performance of electronic equipment.

Electromagnetic field (EMF)
This is the field comprised of the electric field and the magnetic field (magnetic induction). The field can be viewed as the combination of an electric field and a magnetic field. All electric and magnetic fields are electromagnetic fields and can't be divided.

British thermal unit (BTU or Btu)
This is a unit of energy commonly used in the power, steam generation, and heating and air conditioning industries.

Manometer
These are instruments (such as a pressure gauge) for measuring the pressure of gases and vapors.

Barometric pressure
The pressure in the atmosphere at any given location typically measured in inHg.

AIRFLOW MEASUREMENTS

Anemometer
This is an instrument for measuring and indicating the force or speed of the air movement.

Area of a rectangular duct L x W

Area of a circular duct Pi R^2 Pi = 3.14

CFM (ft^3/min) =
   Air Velocity (ft/min) x Area (ft^2)

CMM (m^3/min) =
   Air Velocity (m/min) x Area (m^2)

Square feet /144 = square inches

ELECTRICAL MEASUREMENTS

Measurement categories (Over-voltage categories).

To ensure safe operation of measuring instruments, IEC61010 establishes safety standards for various electrical environments, categorized as CAT I to CAT IV, and called measurement categories. Higher-numbered categories correspond to electrical environments with greater momentary energy, so a measuring instrument designed for CAT III environments can endure greater momentary energy that one assigned for CAT II.

CAT I: Secondary electrical circuits connected to an AC electrical outlet through a transformer or similar device.

CAT II: Primary electrical circuits of equipment connected to an AC electrical outlet by a power cord.

CAT III: Primary electrical circuits of the equipment connected directly to the distribution panel, and feeders from the distribution panel to outlets.

CAT IV: The circuit from the service drop to the service entrance, and to the power meter and primary over-current protection device (distribution panel).
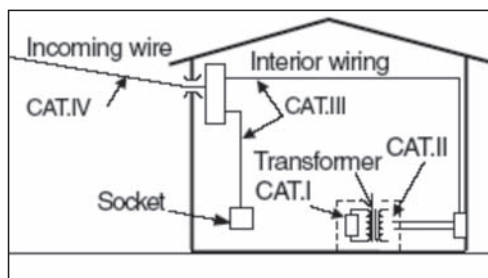
Power (W) = voltage (V) X current (A)

(RMS reading) x (1.414) =
   Peak to Peak reading

True Root Mean Square (TRMS)
A TRMS meter is used to measure non sinusoidal waveforms (harmonics).

Volt (E) is the unit of electric pressure or electromotive force. It is the potential that will produce a current of 1 ampere through a resistance of 1 ohm. The volt (symbol: V) is the SI derived unit of electric potential difference or electromotive force.

Ampere (I) is the unit of electrical current (coulombs per second). The ampere, in practice often shortened to amp, (symbol: A) is a unit of electric current, or amount of electric charge per second.

Ohm (R) is the unit of electrical resistance (volts/ampere). The ohm (symbol: Ω) is the SI unit of electrical impedance or, in the direct current case, electrical resistance,

Watts (W) and **Kilowatts** (KW) are units of electric power.

Kilovolt-ampere (KVA) is a measurement of apparent electric power.

Kilowatt hour (Kwhr) is a unit of electrical energy or work performed.

Joule (J) is a metric unit of energy: watt per second. 1 Kwhr = 2,655,224 ft-lb = 1.341 hp-hr = 3412 Btu = 3,600,000 joules.

Ohm law relationships (direct current)
$E = IR + W/I = \sqrt{WR}$
$W = I^2R = E^2/R = EI$
$I = E/R = W/E = \sqrt{W/R}$
$R = E/I = W/I^2 = E^2/W$

Capacitance
The ability an electronic component has to store energy as an electrical charge.

Insulation Resistance
The property of a material to resist the flow of electrical current and expressed in Megohms as the ratio of an applied electrical potential divided by the flow of electrical current.

INDUSTRIAL

NIST Certification - Traceability
Calibration in accordance with and against standards traceable to NIST (National Institute of Standards and Technology, USA). Traceability to NIST is a means of ensuring that reference standards remain valid and their calibration remains current.

Peak Hold
Output of the maximum measurement indicated by an instrument during the time duration for which this display mode has been active.

Refractometer
An instrument for measuring refractive indices in a fluid or solution.

Stroboscope
An instrument for determining the speed of cyclic motion that causes the motion to appear slowed or stopped.

Tachometer
A device for indicating speed of rotation.

Fiber optic inspection scope
This type of scope has the ability to see around a bend and see or capture images of hard-to-reach places.

IP RATINGS EXPLAINED
The IP system indicates the particular degree of protection offered by the enclosure with the letters "IP" followed by two numbers.

• **First Number** - This number indicates the degree of protection of persons against the ingress of dust.

• **Second Number** - This number indicated the degree of protection of the equipment of the equipment from the ingress of water.

Many of General's Tools & Instruments maintain ratings of **IP55** through **IP68**.

First Number

5. Protected against the deposit of dust

6. Protected against the access of dust

Second Number

5. Protected against water jets

6. Protected against heavy seas

7. Protected against the effects of immersion

8. Protected against submerged state

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REF103	44103 9	64	11
REF104	44104 6	64	11
REF105	44105 3	64	11
REF106	44106 0	64	11
REF107	04410 7	64	11
REF109B	44108 4	65	11
REF111ATC	44101 5	64	11
REF112ATC	44112 1	64	11
REF113ATC	44113 8	64	11
REF114ATC	44114 5	64	11
REF201	44116 9	64	11
REF202	44115 2	64	11
REF211ATC	44120 6	64	11
REF304	44314 9	65	11
REF312ATC	44312 5	65	11
REF401	44401 6	65	11
REF402	44410 8	65	11
REF500COT	44413 9	65	11
RGR122	60350 5	82	12
RGR126	60340 6	83	12
RGR150	01273 4	83	12
RLD102	40139 2	51	9
RLD202	41634 1	51	9
RLD203	41636 5	NCL	9
RLD380L	40141 5	51	9
RLD382P	00382 4	51	9
RMR383HGA	60074 0	88	13
RS380	01378 6	51	9,15
RTSP	10202 2	24	6,14
RWT800	20951 6	44	9
SAM700BAR	10115 5	81	12
SAM800HI	10100 1	23	6
SAM800IND	10105 6	23	6
SAM990DW	10025 7	21	6
SAM990DW/CERT	10026 4	21	6
SAMJR995	10110 0	NCL	6
SCAL1356	41018 9	54	10
SP100CR	10215 2	24	6
SP100FR	10205 3	24	6
SPR108	10260 2	24	6,14
SPR109	10265 7	24	6,14
SPR120	10270 1	24	6,14
SSC6	51145 9	101	14
SSP144	25045 7	38	8
SSP145	25050 1	38	8
SSP146	25055 6	38	8
ST400	51005 6	99	14
ST600LED	51115 2	99	14
SW100A	30999 5	92	13
SW100AY	31002 1	92	13
SW269	31005 2	92	13
SW888L	31025 0	93	13
SW888M	31035 9	93	13
T300-36	23103 6	75	12
TDS503	41410 1	77	12
THC138P	60115 0	NCL	9
THGR268	60073 3	46	9
THR138	60110 5	NCL	9
TI071	30115 9	89	13
TI110	30112 8	89	13
TI150	30110 4	89	13
TI170	30105 0	89	13
TI239	30020 6	90	13
TI267	30025 1	90	13
TI268	30030 5	90	13
TI388	30050 3	90	13
TI872	30065 7	88	13
TI891B	30055 8	91	13
TI895B	30075 6	91	13
TI896	20929 5	89	13
TI897B	30080 0	91	13
TI898B	30090 9	91	13
TI899B	30095 4	91	13
TL100	51125 1	101	14
TL108	01351 9	102	14
TL12	51130 5	NCL	14
TL13	01344 1	102	14
TL20K	01350 2	102	14
TL23K	01349 6	102	14
TL360W	51135 0	102	14
TPK02	25001 3	38	8
TPK03	25003 7	38	8
TPK04	25004 4	38	8
TPK05	25005 1	38	8
TPK2500	25080 8	38	8
TPK36SST	52503 5	NCL	8
TPK500	25015 0	38,73	8,11
TPK900	25020 4	38	8
TPKH	25070 9	38	8
TPKPP	25060 0	38	8
TPKV36	52506 5	NCL	8
TQ8800	43060 6	62	10
TSP200RC	10225 1	24	6
UTEGEMTT2	01262 8	63	10
UTEMHT20	01263 5	63	10
UV512C	01290 1	57	10
UV513AB	01279 6	57	10
UVC254	42008 9	57	10
VB8201HA	43052 1	62	10
VC9200	47025 1	62	10
VS3000A	01261 1	100	14
WA300	41470 5	80	12
WA500	40140 8	59	10
WBGT8758	08758 9	23	6
WBGT8778	01308 3	23	6
WBT700	20952 3	44	9
WDCFM8912	01249 9	70	11
WDCFM8912CERT	01300 7	70	11
WK7200	01248 2	76	12
WMR968	60175 4	NCL	12
WR103	60500 4	86	13
WS821	08210 2	85	12
WS831DL	01298 7	84	12
YHDT303KVM	20006 3	41	8
Z110 ADAPTER	21014 7	37,60	15

NCL = Not Catalog Listed

Company UPS Code for the listed Items start with 681035.
†=038728
Due to continuous improvements, actual product may differ slightly from photograph.

GENERAL®

"Man is a tool using animal. Weak in himself and of small stature, he stands on a basis of some half-square-foot, and has to straddle out his legs lest the very winds supplant him. Nevertheless, he can use tools, can devise tools; with these the granite mountains melt into light dust before him; seas are his smooth highways, winds and fire his unwearying steeds, Nowhere do you find him without tools. Without tools he is nothing, but with tools he is all."

Thomas Carlyle (1795–1881)

"It's Your Job . . . General Tools Make It Easier"