



# HVAC/R Test Instruments and Specialty Hand Tools



HVACR14

**Precision, Specialty and Innovation . . . Since 1922**

# HVAC/R Test Instruments and Specialty Hand Tools

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**GTi10: Thermal Imaging**  
**GTi20: Thermal/Visual Imaging with Picture-in-picture**  
**GTi30: Thermal/Visual Imaging with & Picture-in-picture, Streaming**  
**GTi50: Video and Voice Annotation**

Ideal for revealing invisible heat-driven processes and problems.

**Applications include: equipment maintenance and repair (MRO); building energy audits; process/manufacturing plant maintenance; water damage restoration; automotive repair; firefighting; navigation; surveillance.**

By converting objects' infrared (IR) radiation to visible color images, thermal imaging cameras can detect very small temperature differences from a distance. Heat signatures can help diagnose the cause of equipment failures and poor performance due to wear and tear, misalignments and fault conditions.

**KEY FEATURES:**

- 160 x 120 pixel IR detector (GTi10/20/30)  
384 x 288 pixel IR detector (GTi50)
- Temperature sensitivity of  $\pm 0.14^{\circ}\text{F}$  ( $0.08^{\circ}\text{C}$ )  
Temperature sensitivity of  $\pm 0.072^{\circ}\text{F}$  ( $0.04^{\circ}\text{C}$ ) (GTi50)
- Manual focus w/4 in. (100mm) minimum focal length
- Included 2GB MiniSD card stores images for uploading to PC
- USB 2.0 and Video Out jacks and cables
- Bright 3.5 in. (89mm) diagonal flip-up color LCD
- Manually or automatically adjustable image level and span (brightness and contrast)
- Adjustable emissivity
- Tripod mount (via optional adaptor)
- Water, dust and oil-resistant to IP54 standard
- Shock and vibration-resistant
- Powered by rechargeable Li-ion battery
- Squeezing trigger stores images
- CE and FCC compliant
- 3-year limited warranty (5 year term available)
- Up to 5 hours of operation using 2 batteries

**INCLUDES:**

Camera; 2 Rechargeable Li-ion Batteries; Compact Battery Charger; 2GB MiniSD Memory Card; SD Card Reader; Video Cable with BNC Plug; USB 2.0 Cable; Lens Cap; Standard Analysis & Reporting Software on CD; Calibration Certificate; Sun Shield; Hand & Neck Straps; Custom Hard Case; User's Manual; Bluetooth Headset with Charger (GTi30 & GTi50); 3-Year Limited Warranty

UPC	NO.	TEMPERATURE RANGE
01550 6	<b>GTi10</b>	-4° to 572°F (-20° to 300°C)
01624 4	<b>GTi10-600</b>	-4° to 1112°F (-20° to 600°C)
01649 7	<b>GTi10-1000</b>	-4° to 1832°F (-20° to 1000°C)
01627 5	<b>GTi10-1500</b>	-4° to 2732°F (-20° to 1500°C)
01586 5	<b>GTi20</b>	-4° to 572°F (-20° to 300°C)
01650 3	<b>GTi20-600</b>	-4° to 1112°F (-20° to 600°C)
01651 0	<b>GTi20-1000</b>	-4° to 1832°F (-20° to 1000°C)
01652 7	<b>GTi20-1500</b>	-4° to 2732°F (-20° to 1500°C)
01551 3	<b>GTi30</b>	-4° to 572°F (-20° to 300°C)
01592 6	<b>GTi50</b>	-4° to 572°F (-20° to 300°C)
01641 1	<b>GTi50-600</b>	-4° to 1112°F (-20° to 600°C)
01653 4	<b>GTi50-1000</b>	-4° to 1832°F (-20° to 1000°C)
01619 0	<b>GTi50-1500</b>	-4° to 2732°F (-20° to 1500°C)

**N** Indicates optional NIST calibration is available



An IR image of a water pump's motor



**GTi10**

**GTi20**  
**GTi30**  
**GTi50**





**OPTIONAL ACCESSORIES:**

UPC	NO.	DESCRIPTION
01607 7	<b>L38</b>	38° Wide-angle Lens for GTi10/20/30
01609 1	<b>L12</b>	12° Telephoto Lens for GTi10/20/30
01610 7	<b>L09</b>	9° Telephoto Lens for GTi10/20/30
01611 4	<b>L6P4</b>	6.4° Telephoto Lens for GTi10/20/30
01613 8	<b>L548</b>	48° Wide-angle Lens for GTi50
01615 2	<b>L512</b>	12° Telephoto Lens for GTi50
01623 7	<b>SWG3NS</b>	Professional Analysis & Reporting Software for GTi30/50 (includes streaming video software driver)
01616 9	<b>ADPTRGTI</b>	AC Adaptor for GTi10/20/30/50
01617 6	<b>BTTGTI</b>	Extra battery for GTi10/20/30/50
01637 4	<b>CRCHGTI</b>	Car Charger for GTi10/20/30/50
01618 3	<b>TRPDGTI</b>	Tripod Adaptor for GTi10/20/30/50



All four GTi thermal imaging cameras feature a large, bright color LCD and point-and-shoot simplicity



<b>"PREDATOR" SERIES</b> FEATURES & SPECIFICATIONS				
	<b>GTi10</b>	<b>GTi20</b>	<b>GTi30</b>	<b>GTi50</b>
Picture-in-Picture Mode (Visual + Thermal Image Fusion)	No	Yes		
Analysis Tools	2 Movable Spots, Isothermal Analysis	4 Movable Spots, Isothermal Analysis	9 Movable Spots, Isothermal Analysis, Profile Analysis, 5 Area Analysis	
LED Flashlight	No	Yes		
Temperature Alarms	No	Yes		
Visual File Format	Prop SAT/JPG	Prop SAT/CCD/JPG		
Visual Image Resolution	N/A	320 x 240 pixels		640 x 480 pixels
Thermal Video Streaming	No	Yes (Via USB)		
Voice Annotation	No	Yes (Via Bluetooth)		
IR Resolution		160 x 120 pixels		384 x 288 pixels
Spatial Resolution		2.2 mrad		1.3 mrad
Thermal Sensitivity at 86°F (30°C)		±0.14°F (0.08°C)		±0.072°F (0.04°C)
Field of View		20° x 15°		24° x 18°
Refresh Rate		30 frames per second (fps)		
IR Detector Spectral Range		8 to 14um		
Laser Pointer		Yes		
Temperature Measurement Range	-4° to 572°F (-20° to 300°C), upgradeable to 1112°F (600°C), 1832°F (1000°C) or 2732°F (1500°C)			
Detector Type	Uncooled focal plane array, manual focusing			
Accuracy	±3°F (2°C) or 2% of reading, whichever is greater			
Focusing	Manual			
Measurement Compensation Factors	Emissivity, Ambient Temperature, Humidity, Distance			
Minimum Focal Distance	4 in. (100mm)			
Optional Telephoto and Wide-Angle Lenses	6.4°, 9°, 12° and 38° field of view for GTi10/20/30; 12° and 48° FOV for GTi50			
Display	Flip-up 3.5 in. diagonal color LCD			
Auto Hot/Cold Spot Indicator	Yes			
Video Output Formats	NTSC, PAL			
Color Palettes	Ironbow, Iron-Inverted, Rainbow, Feather, Grey, Grey-Inverted			
Image Storage Medium, Capacity	2GB MiniSD memory card (included)			
Thermal File Format	Proprietary SAT, Radiometric, JPG			
Battery	Rechargeable Lithium-Ion			
Total Charge Capacity	Up to 5 hours continuous with 2 batteries			
Power Saver Mode	Yes			
Operating Temperature	-4° to 122°F (-20° to 50°C) @ 10 to 90% RH			
Water/Dust/Oil Resistance	IP54			
Shock Resistance	Operational 25G			
Vibration Resistance	Operational 2G			
Tripod Mount	Non-standard.	Optional Adaptor needed (No. TRPDGTi)		
Weight	1.3 lb. (580g)			
Dimensions	6.8 x 3.1 x 6.4 in. (172 x 80 x 162mm)			
External Power Source	Compact Battery Charger provided. Optional Accessories: AC Adaptor (No. ADPTRGTi), Car Charger (No. CRCHGTi)			
Limited Warranty Duration	3-Years (5 year term available)			

### iBORESCOPE2 – DCiS2

Ideal for making high-quality video inspections of hard-to-reach or hard-to-see areas or equipment. By running a free app from the iTunes® App Store or Google Play Store, any iPhone®, iPad®, iPad Air®, iPad Mini®, iPod touch® or Android™ device can display, capture, store and play back video clips and still images observed with the iBorescope2. The transfers are wireless, via a local WiFi hotspot without internet access generated by the iBorescope2.

#### FEATURES:

- Generates a local WiFi hotspot (without Internet access) for transmitting probe video to app-enabled iPhone, iPad, iPad Air, iPad Mini, and iPod touch or Android device
- Long 36 in. (914mm), thin 9mm (0.35 in.) diameter flexible-obedient waterproof probe captures VGA (640 x 480 pixel) resolution video
- Ideal camera depth of field of 0.5 in. to 5 ft. (13mm to 1.52m)
- Soft buttons on app capture .avi video clips and .jpg (Apple) or .png (Android) still images of live video stream. Clips and stills are saved in separate, dated folders within iBorescope2 app. Files can be viewed immediately.
- ▲ and ▼ buttons on wand-type grip control camera lighting
- Includes three useful probe tip accessories (45° mirror, pickup hook, magnetic pickup)

#### SPECIFICATIONS:

- ◆ Compatible with: iPad, iPad2, iPad Air, iPad Mini, iPad3, iPhone3GS, iPhone4, iPhone 4S, iPhone5S, iPhone5C, iPod touch (3rd, 4th, 5th generation) running iOS4.1 or later; and any device running Android 2.2 or higher
- ◆ Video Resolution: 640 x 480 pixels (VGA)
- ◆ Frame Rate: 30 frames per second (fps)
- ◆ WiFi Attributes: IEEE802.11b/g @ 54Mbps or higher throughput

- ◆ WiFi Range: 60 ft. (18m), max (unobstructed)
- ◆ Camera Lighting: 4 white LEDs
- ◆ Camera Head Diameter: 9mm (0.35 in.)
- ◆ Camera Resolution: 640 x 480 pixels
- ◆ Camera Depth of Field: 0.5 in. to 5 ft. (13mm to 1.52m)
- ◆ Camera Field of View: 38° vertical, 50° horizontal
- ◆ Probe Length/Type: 36 in. (914mm), flexible-obedient
- ◆ Dust & Water Resistance Rating (Probe & Camera Head only): IP67
- ◆ Operating Temperature: 32° to 104°F (0° to 40°C)
- ◆ Dimensions of Grip: 8.94 x 1.63 x 1.5 in. (227 x 41.4 x 38.1mm)
- ◆ Weight of Grip: 14.05 oz. (398g)
- ◆ Power Source: 4 “AA” Alkaline batteries (not included)

#### INCLUDES:

WiFi grip, 3-Ft. Long Probe, Three Probe tip Accessories (45° Mirror, Pickup Hook, Magnetic Pickup), Custom Hard Case, User's Manual, 1-Year Limited Warranty

UPC	NO.
01665 7	DCiS2

Works with any iPhone, iPad or Android Device!



DCiS2



### THE PALMSCOPE™ – DCS950

A rugged, full-featured video inspection system no bigger than a smartphone. Ideal for busy craftsmen, professionals and DIYers.

#### FEATURES:

- Fits in your pocket or clips on your belt
- Affordable
- 1 meter drop-proof
- Long, thin camera-tipped probe penetrates tight, hard-to-reach spaces
- Probe is waterproof, holds its shape and coils inside clamshell case for storage
- Four camera-lighting LEDs produce bright, crisp video on large color LCD
- Four screen controls
- CE and RoHS approved

#### SPECIFICATIONS:

- ◆ Probe Length: 24 in. (0.6m)
- ◆ Camera Head Diameter: 0.35 in. (9mm)
- ◆ Probe/Camera Head Water/Dust/Oil Resistance: to IP67 standard
- ◆ LCD Size: 2.7 in. (686mm) diagonal
- ◆ LCD/Camera Resolution: 320 x 240 pixels (QVGA)
- ◆ Camera Depth of Field: 1 in. to 10 ft. (25mm to 3m)
- ◆ Camera Field of View: 60°

- ◆ Screen Controls: Brightness up and down, 1 to 4X zoom in 6 steps, 180° flip
- ◆ Case Impact Resistance: From height of 39 in. (1m) onto 2 in. (50mm) thick hardwood
- ◆ Dimensions: 5.4 x 2.9 x 1.5 in. (136 x 73 x 39mm)
- ◆ Weight: 9 oz. (250g)
- ◆ Power Source: (4) “AAA” batteries (not included)

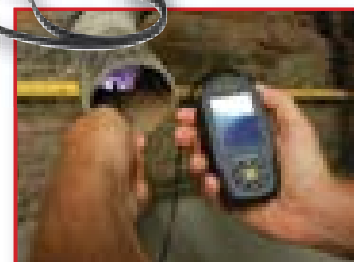
#### INCLUDES:

Nylon Pouch with Belt Clip, Four Probe Tip Accessories (Pickup Hook, Magnetic Pickup, 45° Mirror, Thread Protector), User's Manual, 1-Year Limited Warranty

UPC	NO.
01660 2	DCS950



DCS950







# We Call These Video Borescopes “High-Performance Systems” for Several Good Reasons:

- They use our thinnest probes, with diameters as small as 3.9mm (0.15 in.). Even our thickest general-purpose high-performance probe, at 6mm across, is no thicker than a No. 2 pencil lead.
- The probes have superior optical specs, including close-focus and far-focus depths of field.
- Probe choices abound. Just pick the probe type (flexible-obedient or soft metal), probe diameter (3.9mm, 4.9mm, 5.5mm or 6m), probe length (0.75 to 30m) and viewing angle (front view, articulating or switchable front/side view) you need; one of our probes is sure to fill the bill.
- The borescopes themselves also come in several flavors—for example, wired or wireless, and recording or non-recording. Whichever model you choose, your high-performance borescope will have passed a 60,000-cycle performance test, sport a color monitor, and come in a custom protective hard case.



**DCS1800**  
High-Performance Wireless Recording Video Borescope System (See page 10)

Probe Diameters (actual size)	3.9mm (0.15 in.)	4.9mm (0.19 in.)	5.5mm (0.22 in.)	6mm (0.24 in.)
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**DCS1700**  
The VIPER 1700 Super High-Performance VGA Recording Video Borescope System (See page 8)

	PRIMARY SYSTEM FEATURE(S)	Wireless recording	VGA recording, with VGA probe
	<b>SYSTEM</b>	Model No.	DCS1800
	System/Component Name	High-Performance Wireless Recording Video Borescope System	The VIPER 1700 Super High-Performance VGA Recording Video Borescope System
	Display Size (diagonal)	3.5 in. (89mm)	3.5 in. (89mm)
	Wireless Range	Up to 33 ft. (10m)	—
	Records	Audio, video, still images	Video, still images
	Resolution (pixels)	Video: 320 x 240 Still images: 640 x 480	Display: 320 x 240 Probe & Recording: 640 x 480
	Zoom Level	1.5X	2.0X
	Operating Temperature	Console: -4° to 140°F (-20° to 60°C); Probe: 32° to 131°F (0° to 55°C)	Console: 32° to 122°F (0° to 50°C) Probe: -4° to 140°F (-20° to 60°C)
	Memory (capacity of included SD card)	2GB	4GB
	Power Source	Rechargeable Li-ion battery	(4) "AA" batteries
	Certifications	CE, FCC, RoHS	CE, RoHS
	Limited Warranty Term	1 year	1 year
<b>SUPPLIED PROBE</b>	Diameter	5.5mm (0.22 in.)	5.5mm (0.22 in.)
	Style	Flexible-Obedient	Soft metal
	Length	1m (3.3 ft.)	1m (3.3 ft.)
	Field of View	46° (Hor), 34° (Vert), 56° (Diag)	60°
	Depth of Field	0.25 to 12 in. (6.4 to 300mm)	0.25 to 12 in. (6.4 to 300mm)
	Resistance to Water/Dust/Oil/Gas	IP67	IP67
	Light Source	4 adjustable white LEDs	6 adjustable white LEDs: 4 front-facing, 2 side-facing

\*Enables existing DCS1800ART owners to add a Non Articulating Probe or the P16HPART VGA resolution Articulating Probe; DCS1800-TR does not include DCS1800 Receiving Console



**DCS1600**  
High-Performance  
Recording Video Borescope  
System (See page 11)



**DCS800**  
Rugged  
High-Performance  
VGA Recording  
Video Borescope  
System (See page 8)



**DPS16**  
Pipe & Duct  
Video  
Recording  
Borescope  
Inspection  
System  
(See page 9)

	Utility recording		Rugged VGA recording
	DCS1600	DPS16	DCS800
	High-Performance Recording Video Borescope System	Pipe & Duct Recording Video Borescope Inspection System	Rugged High-Performance VGA Recording Video Borescope System
	3.5 in. (89mm)	3.5 in. (89mm)	3.5 in. (89mm)
	—	—	—
	Video, still images	Video, still images	Video, still images
	Video: 320 x 240 Still images: 640 x 480	Video: 320 x 240 Still images: 640 x 480	Probe & Display: 320 x 240 Recording: 640 x 480
	1.5X	1.5X	5.0X
	Console: -4° to 140°F (-20° to 60°C); Probe: 32° to 131°F (0° to 55°C)	Console: -4° to 140°F (-20° to 60°C); Probe: 14° to 158°F (0° to 70°C)	Console: 32° to 140°F (0° to 60°C) Probe: -4° to 140°F (-20° to 60°C)
	2GB	2GB	4GB
	Rechargeable Li-ion battery	Rechargeable Li-ion battery	4 "AA" batteries
	CE, RoHS	CE, RoHS	CE, RoHS
	1 year	1 year	1 year
	5.5mm (0.22 in.)	28mm (1.1 in.)	5.5mm (0.22 in.)
	Flexible-Obedient	Flexible	Flexible-Obedient
	1m (3.3 ft.)	22m (72 ft.)	1m (3.3 ft.)
	46° (Hor), 34° (Vert), 56° (Diag)	151°	46° (Hor), 34° (Vert), 56° (Diag)
	0.25 to 12 in. (6.4 to 300mm)	0.4 in. (10mm) to infinity	0.25 to 12 in. (6.4 to 300mm)
	IP67	IP68	IP67
	4 adjustable white LEDs	8 adjustable white LEDs	4 adjustable white LEDs



**DCS1700**

**INCLUDES:**

Console, VGA Resolution Probe, 4GB SD Memory Card, Object Measuring Tip, 110° Mirrored Viewing Tip, Video Cable, USB Cable, 4 "AA" Alkaline Batteries, LCD Cleaning Fluid and Cloth, Custom Hard Case, User's Manual, 1-Year Limited Warranty

**THE VIPER 1700 SUPER HIGH-PERFORMANCE VIDEO BORESCOPE SYSTEM – DCS1700**

Ideal for inspecting inaccessible or hard-to-see areas.

**FEATURES & BENEFITS:**

- Records VGA resolution (640 x 480 pixel) video clips and still images
- Probe features light boost, anti-reflection and screen rotation
- Camera lighting provided by 4 front-facing LEDs
- To minimize glare from shiny targets, lighting can be shifted to 2 angled LEDs
- Console features brightness controls, horizontal mirroring, 2X zoom, and slow-motion and fast-forward video playback
- Object measurement mode
- Console accepts dozens of different length and diameter probes
- Probe and stainless steel camera head are IP67 water, oil and dust-proof
- Dual output jacks enable before/after image comparisons
- Auto Power Off is time adjustable
- Includes 4GB SD memory card, video and USB cables and hard case

- ◆ Video Zoom Options: 1.5X, 2X
- ◆ Video Playback Speeds: 12%, 25%, 50%, 1X, 1.5X, 2X, 4X
- ◆ Video Out Formats: NTSC and PAL
- ◆ Video Frame Rate: 30 frames per second (fps)
- ◆ Probe Length/Type/Diameter: 39 in. (1m), soft metal, 0.22 in. (5.5mm)
- ◆ Probe Depth of Field: 0.25 to 12 in. (6.4 to 300mm)
- ◆ Probe Field of View: 60°
- ◆ Menu Languages: English, French, German, Italian, Spanish, and Portuguese, as well as 21 other European and Asian languages
- ◆ Operating/Storage Temperatures: Probe: -4° to 140°F (-20° to 60°C) Console: 32° to 122°F (0° to 50°C)
- ◆ Dimensions of Grip: 10.8 x 4.8 x 2.2 in. (275 x 123 x 55mm)
- ◆ Weight of Grip (without Batteries): 13 oz. (370g)
- ◆ Power Source: 4 "AA" Alkaline batteries (included)
- ◆ Optional Power Source: Rechargeable Ni-MH or Li-ion "AA" batteries
- ◆ Battery Life (typical): 4 hours operation

**SPECIFICATIONS:**

- ◆ Display Size/Type: 3.5 in. (diagonal), color TFT LCD
- ◆ Display Resolution: 320 x 240 pixels (QVGA)
- ◆ Video/Photo File Format: .avi/.jpg

UPC	NO.
01601 5	DCS1700



**DCS800**

**INCLUDES:**

Console, 5.5mm Diameter x 1m Long QVGA Resolution Flexible-obedient Probe, 90° Mirrored Viewing Tip and Thread Protector Ring, 4GB SD Memory Card, AV and USB Cables, (4) "AA" Alkaline Batteries, Adjustable Hand Strap, Custom Hard Plastic Carrying Case, User's Manual, 1-Year Limited Warranty

**RUGGED HIGH-PERFORMANCE VGA RECORDING VIDEO BORESCOPE SYSTEM – DCS800**

Ideal for inspecting hard-to-reach and hard-to-see areas.

**FEATURES & BENEFITS:**

- 3.5 in. (89mm) diagonal color LCD
- 39 in. (1m) long, 0.22 in. (5.5mm) diameter flexible-obedient probe with 320 x 240 pixel (QVGA) resolution camera lit by four LEDs
- Probe and stainless steel camera head are IP67 water, oil and dust-proof. Console is rated IP55 but is 1m (39 in.) drop-proof
- Grip accepts dozens of other QVGA and VGA (640 x 480 pixel) resolution probes of various lengths and diameters
- Records VGA or QVGA resolution video clips and still images using familiar menu-driven user interface. Saved video and photo files incorporate real-time brightness, zoom and mirroring adjustments made prior to recording or "on the fly"
- Three options for mirroring live video: horizontal, vertical, or both
- 4GB SD memory card
- Analog video out jack and cable with RCA plug
- USB cable for uploading/viewing media on SD card to PC without ejecting card
- 90° mirrored probe viewing tip
- Adjustable Auto Power Off interval
- Choice of 27 menu languages
- Custom hard plastic carrying case
- Powered by four "AA" Alkaline or rechargeable batteries

**SPECIFICATIONS:**

- ◆ Display Resolution: 320 x 240 pixels (QVGA)
- ◆ Diameter of Camera Head with Thread Protector: 0.23 in. (6mm)
- ◆ Probe Depth of Field: 0.25 to 12 in. (6.4 to 300mm)
- ◆ Probe Field of View: 46° (horizontal), 34° (vertical), 56° (diagonal)
- ◆ Video File Format: .avi
- ◆ Photo File Format: .jpg
- ◆ Video Zoom Options: 3.0X, 5.0X
- ◆ Video Out Formats: NTSC and PAL
- ◆ Video Frame Rate: 30 frames per second (fps)
- ◆ Compression Format: Compatible with MPEG4
- ◆ Probe Operating/Storage Temperature: -4° to 140°F (-20° to 60°C)
- ◆ Console Operating Temperature: 32° to 140°F (0° to 60°C)
- ◆ Dimensions of Console: 5.5 x 4.6 x 1.7 in. (140 x 116 x 42mm)
- ◆ Weight of Console (without Batteries): 10.6 oz. (300g)
- ◆ Power Source: (4) "AA" Alkaline or rechargeable Ni-MH batteries
- ◆ Battery Life (typical): 4 hours operation

UPC	NO.
01628 2	DCS800



## Pipe & Duct Recording Borescope

### PIPE & DUCT VIDEO BORESCOPE INSPECTION SYSTEM – DPS16

Ideal for examining the interior of 2, 4 and 6 inch I.D. water and sewer pipes with the included probe centering accessories

#### FEATURES & BENEFITS:

- 72 ft. (22m) long probe with 1.1 in. (28mm) diameter camera head
- Eight super-bright white LEDs give probe 640 x 480 pixel (VGA) resolution; superior optics yield excellent depth of field of 0.4 in. (10mm) to infinity
- Includes H16 Handheld Recording Video Borescope Console
- Probe is water-tight to IP68 standard (depth of 50 ft./10m) and is flexible enough to make two 90° bends
- Stainless steel camera head is immune to bathroom toilet cleaner, unleaded gasoline, brake/transmission fluid and machine oil
- Steel probe reel is sturdy and dust-tight to IP65 standard. Reel works vertically or horizontally and includes IP55-rated probe length counter and bracket for H16 (DCS1600) console

#### INCLUDES:

- P16PIP Pipe & Duct Inspection Probe & Reel Set (includes probe length counter and brushes for centering probe in 2 in., 4 in. and 6 in. inner diameter pipes)
- Handheld Recording Video Borescope Console (General Part No. H16)
- 4GB SD memory card
- RCA cable for viewing video and images on an NTSC monitor
- AC adaptor/battery charger and cleaning cloth and liquid for the console
- Custom hard carrying case
- User's manual
- 1-Year Limited Warranty

#### SPECIFICATIONS:

##### ◆ Camera-Tipped Probe:

- Diameter: 0.23 in. (6mm)
- Length: 72 ft. (22m)
- Material: Fiberglass
- Camera Head Diameter: 1.1 in. (28mm)
- Light Source: 8 white LEDs
- Depth of Field: 0.4 in. (10mm) to infinity
- Field of View: 150.8° (diagonal)
- Minimum Bending Radius: 6 in. (150mm)
- Waterproof Depth (IP68): 50 ft. (10m)
- Operating Temperature: 14° to 158°F (-10° to 70°C)

##### Reel:

- Frame Diameter: 11.8 in. (300mm)
- Dust and Water Resistance: To IP65 standard
- Weight: 6.6 lb. (3kg)

##### Included Accessories:

- Probe Centering Ring:  
Inner Diameter: 1.1 in. (28mm)  
Outer Diameter: 2 in. (50mm)
- Small Probe Centering Brush:  
Inner Diameter: 1.1 in. (28mm)  
Outer Diameter: 4 in. (100mm)
- Large Probe Centering Brush:  
Inner Diameter: 1.1 in. (28mm)  
Outer Diameter: 6 in. (150mm)

UPC	NO.
01597 7	DPS16
01578 0	P16PIP



A probe's-eye view of a filthy air-conditioning duct



A packaged DPS16 system



DPS16



Eight super-bright white LEDs give the DPS16/ P16PIP probe 640 x 480 pixel (VGA) resolution



The DPS16/P16PIP probe is flexible enough to make two 90° bends in a 1.6 in. (40mm) diameter pipe

**P16PIP**  
Probe, reel, ring and brushes are available separately as P16PIP. P16PIP is compatible with all systems and system components shown in the chart on pp. 6 – 7



## High-Performance Wireless Recording Video Borescope System

Features slim 5.5mm diameter probe, 3.5 in. color monitor and powerful ability to record video, still images and sound. Thinner, longer, multi-view and articulating probes available.



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:**

- 3.5 in. (89mm) extra-wide, color TFT monitor with super sharp clarity
- Records audio, video and still images with instant playback review
- Wireless image and video transfer
- Comes with a 1m (3.28 ft.) long x 5.5mm (0.22 in.) diameter QVGA resolution probe that retains its configured shape. Depth of field is 0.25 to 12 in. (6.4 to 300mm)
- Optional probes include: 3.9mm diameter, 4.9mm switchable front/side view, and 6mm VGA articulating and non-articulating probes of 1m, 2m and 3m length
- All probes feature at least 4 adjustable-brightness white LEDs for superior camera lighting
- All probes are water, oil, dust and scratch resistant to IP67 standard
- 3 interchangeable mirrored viewing tips provide extra-wide viewing angles of 70°, 90°, 110°
- Multiple language menu
- AV out allows for TV monitor and computer interfaces
- Rechargeable Lithium-ion batteries

**BENEFITS:**

- Wireless imaging allows inspection results to be sent to a larger screen up to 33 ft. (10m) away for team-based analysis
- Wireless camera probe enables access to otherwise 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 (0.15 in.) diameter camera tipped probe is the slimmest on the market and can fit into the spark plug hole of any engine, as well as into diesel injector ports
- View findings in real time or record video and still images for viewing and sharing later
- Rechargeable batteries can record for 4 hours and will help you stay "Green"



**INCLUDES:**

Custom Hard Case, 5.5mm Diameter x 1m Long Flexible-Obedient Probe, 2GB SD Card, RCA Cable, 3 Interchangeable Mirrored Viewing Tips (70°, 90°, 110°), LCD Cleaning Cloth, AC Adaptor/Charger, 2 Rechargeable Batteries, User's Manual, 1-Year Limited Warranty

UPC 01297 0 NO. DCS1800

**DCS1800, DCS1600, Specifications:**

**DCS1800 and DCS1600 come with:** 5.5mm (0.22 in.) Diameter x 1m (3.28 ft.) long camera probe  
**Depth of Field (DOF):** 0.25 to 12 in. (6.4 to 300mm)  
**Probe Feature:** Water, Oil & Dust resistant to IP67 standards  
**Field of View:** Horizontal field angle 46°  
 Vertical field angle 34° Diagonal field angle 56°

**Optional 5.5mm Probe Lengths:** 2m, 3m, 5m, 10m, 30m  
**Additional Optional Probes:**  
 • 3.9mm diameter x 0.75m (2.5 ft.) long ultra-slim probe  
 • 4.9mm diameter x 1m long switchable front/side view probe  
 • 6.0mm diameter x 1m long articulating probe  
**Display:** 3.5 in. (88.9mm) Color TFT

**Recording Resolution:** 320 x 240 pixels (video); 640 x 480 pixels (still images)  
**Audio:** (DCS1800 Only) Integrated microphone  
**Wireless Transceiver Frequencies:** (DCS1800 Only) 2414MHz, 2432MHz, 2450MHz, 2468MHz  
**System Power:** Battery: Rechargeable Li-Polymer Battery (3.7V) Adapter/Charger Supply: 120VAC @ 60 Hz or 240VAC @50 Hz  
**Power Consumption:** 1.8A @5.5VDC  
**Recording Medium:** 2GB SD Card

# High-Performance Recording Video Borescope System

Features slim 5.5mm diameter probe, 3.5 in. color monitor and powerful recording capability. Thinner, longer, multi-view and articulating probes available.

### APPLICATIONS:

- Aircraft Maintenance and Inspection
- Military, Security, Law Enforcement
- Automotive / Diesel Maintenance
- Other High Level Inspection

### FEATURES:

- 3.5 in. (89mm) extra-wide, color TFT monitor with super sharp clarity
- Records video and still images with instant playback review
- Comes with a 1m (3.28 ft.) long, 5.5mm (0.22 in.) diameter, QVGA resolution probe that retains its configured shape. Depth of field is 0.25 to 12 in. (6.4 to 300mm)
- Optional probes include: 3.9mm diameter, 4.9mm switchable front/side view, and 6mm diameter VGA and QVGA articulating and non-articulating probes of 1m, 2m and 3m length
- All probes feature at least 4 adjustable-brightness white LEDs for superior camera lighting
- All probes are water, oil, dust and scratch resistant to IP67 standard
- 3 interchangeable mirrored viewing tips provide extra wide viewing angles of 70°, 90°, 110°
- Multiple language menu
- TV monitor and USB computer interfaces
- Rechargeable Lithium-ion battery

### BENEFITS:

- Ultra-slim probes with powerful video camera and LED lights in the tip enable access to otherwise inaccessible places
- Optional 3.9mm (0.15 in.) diameter camera-tipped probe is the slimmest on the market and can fit into the spark plug hole of any engine, as well as into diesel injector ports
- View findings in real time or record video and still images for viewing and sharing later
- Rechargeable batteries can record for 4 hours and will help you stay "Green"



DCS1600



### INCLUDES:

Custom Hard Case, 5.5mm Diameter x 1m Long Flexible-Obedient Probe, 2GB SD Card, RCA Cable, USB Cable, 3 Interchangeable Mirrored Viewing Tips (70°, 90°, 110°), LCD Cleaning Cloth, AC Adaptor/Charger, Rechargeable Battery, User's Manual, 1-Year Limited Warranty

UPC	NO.
01305 2	DCS1600

## DCS1800, DCS1600, Specifications: (cont.):

**Video Out Format:** NTSC and PAL

**Interface:** AV Out on 1800 and 1600 systems. USB also on 1600.

**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, Spanish, Japanese, Italian, Traditional Chinese, Simplified Chinese

**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:

**Set of 3 Mirrored Viewing Tips For All 5.5mm Probes except P16181/2/3HP**  
No. PM003 (70°, 90°, 110°)

# The SEEKER™ & SeaScope™ Series



From our affordable DCS950 and Seeker™ 200 Series to our feature-packed Seeker™ 400 Series, this line of camera scopes is designed to appeal to everyone from experienced automotive mechanics and HVAC/R technicians to DIY weekend warriors.



**DCS660**  
SeaScope™ 660 Waterproof Recording Video Inspection System (See Page 16)



**DCS350**  
The SEEKER™ 350 Rugged Recording Video Inspection System (See Page 14)



**DCS280**  
The SEEKER™ 280 Rugged Video Inspection System (see Page 15)



**DCS950**  
The SEEKER™ 950 Compact Rugged Video Inspection System (See page 5)



**DCS600**  
SeaScope™ 600 Waterproof Video Inspection System (See Page 16)



**DCS400 Series**  
The SEEKER™ 400 Series Wireless Recording Video Inspection Systems (See page 17)

	PRIMARY SYSTEM FEATURES	Compact Rugged Non-recording	Waterproof Recording	Waterproof Non-recording	Rugged Recording	Rugged Non-recording		
<b>SYSTEM</b>	Model No.	DCS950	DCS660	DCS600	DCS350	DCS280		
	System Name	The PalmScope™	SeaScope™ 660 Waterproof Recording Video Inspection System	SeaScope™ 600 Waterproof Video Inspection System	The SEEKER™ 350 Rugged Recording Video Inspection System	The SEEKER™ 280 Rugged Video Inspection System		
	Display	2.7 in. color LCD	3.4 in. color LCD	3.4 in. color LCD	3.5 in. color LCD	2.4 in. color LCD		
	Records	—	Video and still images	—	Video and Still Images	—		
	Resolution (pixels)	Camera probe and monitor: 320 x 240	Live video: 320 x 240 Still images: 720 x 480	Live video: 320 x 240	Live video: 320 x 240 Still images: 720 x 480	Live video: 320 x 240 Still images: 720 x 480	Live video: 320 x 240	
	Video Controls	4X zoom	4X Zoom, 180° rotation, Pan	4X Zoom, 180° rotation, Pan	4X Zoom, 180° rotation, Pan	4X Zoom, 180° rotation	2X Zoom, 180° rotation	
	Memory (capacity of included SD card)	—	2GB	—	2GB + 64MB Internal Flash Memory	—	—	
	Power Source	4 "AA" Batteries	4 "AA" Batteries	4 "AA" Batteries	4 "AA" Batteries	4 "AA" Batteries	4 "AA" Batteries	
Limited Warranty Term	1 year	1 year	1 year	1 year	3 years	3 years		
<b>SUPPLIED PROBE</b>	Diameter	9mm	9.8mm	9.8mm	12mm	9mm		
	Type	Flexible-Obedient	Flexible-Obedient	Flexible-Obedient	Flexible-Obedient	Flexible-Obedient		
	Length	24 in. (0.6m)	3.28 ft. (1m)	3.28 ft. (1m)	3.28 ft. (1m)	3.28 ft. (1m)		
	Field of View	60°	54°	54°	60°	60°		
	Depth of Field	1 in. to 10 ft. (25mm to 2.4m)	0.6 to 6 in.	0.6 to 6 in.	0.6 to 6 in.	1 to 12 in.	1 to 12 in.	
	Resistance to Water and Dust	IP67	IP67 (entire unit)	IP67 (entire unit)	IP67 (entire unit)	IP67 (Probe only) Unit is 1m drop-proof	IP67 (Probe only) Unit is 1m drop-proof	
	Light Source, Lens Material, Camera Head Material	4 LEDs, Glass, Anodized Aluminum	4 LEDs, Glass, Anodized Aluminum	4 LEDs, Glass, Anodized Aluminum	4 LEDs, Glass, Anodized Aluminum	2 LEDs, Plastic	4 LEDs, Glass, Anodized Aluminum	





**DCS200 Series**  
The SEEKER™ 200 Series  
Video Inspection Systems  
(See page 17)

### Probe Options for The SEEKER™ Video Inspection Systems

Model No.	UPC	Diameter	Length	Description
P230-1	01386 1	12mm (0.47 in.)	1m (3.28 ft.)	Flexible-Obedient Probe - Close Focus*1
P230-1F	01474 5	12mm (0.47 in.)	1m (3.28 ft.)	Flexible-Obedient Probe - Far Focus*2
P230-1X	01387 8	12mm (0.47 in.)	1m (3.28 ft.)	Flexible-Obedient Probe Extension
P230-2X	01390 8	12mm (0.47 in.)	2m (6.6 ft.)	Flexible-Obedient Probe Extension
P230-3X	01391 5	12mm (0.47 in.)	3m (9.8 ft.)	Flexible-Obedient Probe Extension
P495-1N	01423 3	9mm (0.35 in.)	1m (3.28 ft.)	Flexible-Obedient Probe
P495-2N	01467 7	9mm (0.35 in.)	2m (6.6 ft.)	Flexible-Obedient Probe
P495-3N	01468 4	9mm (0.35 in.)	3m (9.8 ft.)	Flexible-Obedient Probe
P455-1N	01466 0	5.5mm (0.22 in.)	1m (3.28 ft.)	Flexible-Obedient Probe
P455-2N	01469 1	5.5mm (0.22 in.)	2m (6.6 ft.)	Flexible-Obedient Probe
P455-3N	01470 7	5.5mm (0.22 in.)	3m (9.8 ft.)	Flexible-Obedient Probe

\*1-General's 12mm close-focus probe has a defined depth of field of 0.25 to 4 in. (6.4 to 101.6mm)

\*2-General's 12mm far-focus probe has a minimum focal distance of 4 in. (101.6mm) and is in focus from there to 8 ft. (2.4m)



**DCS300 Series**  
The SEEKER™ 300  
Video Inspection Systems  
(See page 17)

### Accessories for The SEEKER™ Video Inspection Systems

Model No.	UPC	Diameter	Description
RCV100	01446 2	—	Wireless USB Video Receiver for The SEEKER™ 400 System
ADP05V	01497 4	—	Car charger for DCS400 series
PT12	01559 9	12mm (0.47 in.)	Mirror, magnet and hook accessories for DCS200, DCS300 and DCS400
PT9	01560 5	9mm (0.35 in.)	Mirror, magnet, hook and thread protector accessories for DCS200-09 and DCS400-09
PT5	01561 2	5.5mm (0.22 in.)	Mirror, guide ball and thread protector accessories for DCS200-05, DCS355 and DCS400-05

	Wireless Recording Video Over Internet	Utility Non-Recording	Utility Non-Recording	WiFi Wireless Recording
	DCS400 DCS400-09 DCS400-05	DCS300 DCS355	DCS200 DCS200-09 DCS200-05	DCiS2
	The SEEKER™ 400 Series Wireless Recording Video Inspection Systems	The SEEKER™ 300 Series Video Inspection Systems	The SEEKER™ 200 Series Video Inspection Systems	iBorescope2
	3.5 in. color LCD	3.5 in. color LCD	2.4 in. color LCD	Screen of iOS or Android smartphone or tablet
	Video and still images	—	—	Video and still images
	Live video: 320 x 240 (DCS400, DCS400-09), 160 x 120 (DCS400-05) Still images: 720 x 480	Live video: 320 x 240 (DCS300), 160 x 120 (DCS355)	Live video: 320 x 240 (DCS200), 160 x 120 (DCS200-05)	Video and still images: 640 x 480
	4X Zoom, 180° rotation	2X Zoom, 180° rotation	2X Zoom, 180° rotation	—
	2 GB	—	—	—
	Rechargeable Li-ion Battery A/C Adapter/Charger	1 "9V" Battery	1 "9V" Battery	4 "AA" Batteries
	3 years	3 years	3 years	1 year
	DCS400 - 12mm DCS400-09 - 9mm DCS400-05 - 5.5mm	DCS300 - 12mm DCS355 - 5.5mm	DCS200 - 12mm DCS200-09 - 9mm DCS200-05 - 5.5mm	9mm
	Flexible-Obedient	Flexible-Obedient	Flexible-Obedient	Flexible-Obedient
	3.28 ft. (1m)	3.28 ft. (1m)	3.28 ft. (1m)	3 ft. (914mm)
	60°	60°	60°	38° Vertical, 50° Horizontal
	DCS400 - 1 to 12 in. DCS400-09 - 1 to 12 in. DCS400-05 - 0.25 to 4 in.	DCS300 - 4 in. to 8 ft. DCS355 - 0.25 to 4 in.	DCS200 - 4 in. to 8 ft. DCS200-09 - 1 to 12 in. DCS300-05 - 0.25 to 4 in.	0.5 in. to 5 ft.
	IP67 (Probe only)	IP67 (Probe only)	IP67 (Probe only)	IP67 (Probe only)
	2 LEDs, Plastic (DCS400); 4 LEDs, Glass, Anodized Aluminum (DCS400-09, DCS400-05)	2 LEDs, Plastic (DCS300); 4 LEDs, Glass, Anodized Aluminum (DCS355)	2 LEDs, Plastic (DCS200); 4 LEDs, Glass, Anodized Aluminum (DCS200-09, DCS200-05)	4 LEDs, Glass, Anodized Aluminum



**DCiS2**  
iBorescope2  
(See page 5)

●  
5.5mm  
(0.22 in.)

●  
9.0mm  
(0.35 in.)

●  
12mm  
(0.47 in.)

**SEEKER™**  
Probe Diameters  
(actual size)





## RUGGED RECORDING VIDEO INSPECTION SYSTEM – DCS350

Ideal for applications in harsh environments requiring a durable and ruggedized system. Features voice annotation, internal memory and removable SD card.

### FEATURES & BENEFITS:

- Includes long (1m/39 in.), thin (12mm/0.47 in.) diameter, flexible-obedient camera-tipped probe for looking deep into tight spaces. Also available are longer and thinner (9mm and 5.5mm) probes, and probe extensions that extend inspection range to 16 ft. (5m).
- All probes and extensions are oil, water and dust-proof to IP67 standard.
- Grip and monitor are double-molded, making them drop-resistant to 1m (39 in.) height and IP54 splash-proof.
- 64MB internal memory for added versatility and convenience
- Built-in microphone to enable voice annotation of video recordings
- 2GB MicroSD card (upgradeable to 16GB), and USB jack to facilitate photo and video transfer
- 3.5 in. (89mm) diagonal color LCD shows crystal-clear videos and images
- One-button video start/stop and photo capture
- Image flip and 1 – 4X zoom buttons
- Two adjustable-brightness LEDs illuminate dark areas
- TV Out jack and included cable send video and images to larger monitor
- Includes three probe tip accessories (magnetic pickup, pickup hook and 45° mirror)
- Adjustable Auto Power Off interval
- Custom molded hard carrying case
- Powered by Alkaline or rechargeable “AA” batteries
- Choice of five menu languages

### SPECIFICATIONS:

- ◆ Display Size/Type: 3.5 in. (89mm) diagonal TFT color LCD
- ◆ Display Resolution: 320 x 240 pixels
- ◆ Monitor Controls: 180° flip, 1 to 4X zoom in 0.5 steps, brightness + and –, start/stop video recording, take picture
- ◆ Probe Diameter/Type: 12mm (0.47 in.) flexible-obedient
- ◆ Probe Length: 1m (39 in.)

- ◆ Probe Field of View: 60°
- ◆ Probe Depth of Field: 1 to 12 in. (25 to 300mm)
- ◆ Camera Light Source: 2 adjustable-brightness white LEDs
- ◆ Impact Resistance: To height of 1m (39 in.)
- ◆ Water, Dust, Splash Resistance Levels: Camera-tipped probe designed to meet IP67; Grip and monitor designed to meet IP54
- ◆ Operating Temperature/Humidity: 32° to 113°F (0° to 45°C) @ 5 to 95% RH
- ◆ Internal Flash Memory Capacity: 64MB
- ◆ Maximum SD Card Capacity: 16GB
- ◆ Video Compatibilities: NTSC and PAL
- ◆ Video Resolution/File Type: 320 x 240 pixels/.avi
- ◆ Still Image Resolution/File Type: 640 x 480 pixels/.jpg
- ◆ PC Interface: USB2.0
- ◆ Menu Languages: English, French, Spanish, Portuguese, Mandarin Chinese
- ◆ Dimensions of Grip: 10.6 x 3.0 x 4.0 in. (270 x 75 x 100mm)
- ◆ Weight of Grip: 1 lb. (454g)
- ◆ Power Source: 4 “AA” batteries (included)

### INCLUDES:

- 1m (39 in.) Long x 12mm (0.47 in.) Diameter Camera-tipped Probe, Wand-type Grip and 3.5 in. (89mm) Color LCD
- 2GB MicroSD Card
- Three Probe Tip Accessories (Magnetic Pickup, Pickup Hook, 45° Mirror)
- ScopeView Video/Image Display Software + Driver on Mini-CD
- USB and video cables
- 4 “AA” Batteries
- Custom Hard Case
- User’s Manual
- 3-Year Limited Warranty

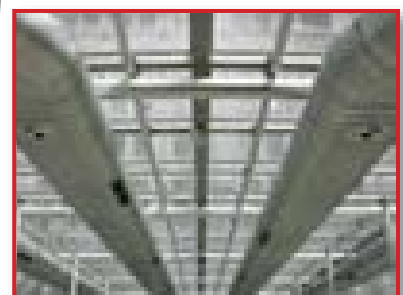
UPC NO.  
01582 7 DCS350



DCS350



Inspecting a crawl space the quick and easy way



Find blockages or broken registers in A/C ductwork

### RUGGED NON-RECORDING VIDEO INSPECTION SYSTEM – DCS280

Ideal for real-time applications.

#### FEATURES & BENEFITS:

- Big, bright color LCD for crystal-clear real-time video imaging
- 9mm (0.35 in.) diameter x 1m (39 in.) long camera-tipped probe is thin enough to fit into very narrow spaces
- 2m and 3m long x 9mm diameter probes are available
- Super thin 5.5mm dia. probes in 1m, 2m and 3m lengths are also available
- All probes are oil, water and dust-proof to IP67 standard. The DCS280's wand-type grip and monitor are IP54 splash-proof.
- Four adjustable LEDs in camera head illuminate dark areas
- Unit is drop-resistant to 1m height and comes in a protective hard case
- Invert what you see 180° to read labels right-side up and ZOOM video up to 200% to show details
- Pays for itself quickly: Avoid the cost and trouble of tearing down engines
- One-handed operation frees your other hand to use tools
- AV Out jack enables video connection to any NTSC television
- Includes four useful probe tip accessories

#### APPLICATIONS:

- Inspecting cylinders, valves, diesel injectors and glow plugs
- Viewing behind body panels and under the dashboard for electrical wiring and connections problems
- Examining for corrosion and wear in hard-to-see areas
- Inspecting fluid lines and leaks

#### INCLUDES:

- Video Inspection System with Wand-type Grip and 2.4 in. (61mm) Color LCD
- 1m (39 in.) Long x 9mm (0.35 in.) Diameter Flexible-obedient Probe
- Four Probe Tip Accessories (Thread Protector, Magnetic Pickup, Pickup Hook, 45° Mirror)
- Video cable
- 4 "AA" Batteries
- Custom Hard Case
- User's Manual
- 3-Year Limited Warranty

#### SPECIFICATIONS:

- ◆ Display Size/Type: 2.4 in. (61mm) diagonal TFT color LCD
- ◆ Display Resolution: 320 x 240 pixels
- ◆ Monitor Controls: 180° flip, 1 to 2X zoom in 0.2 steps, brightness + and –
- ◆ Probe Diameter/Type: 9mm (0.35 in.) flexible-obedient
- ◆ Probe Length: 1m (39 in.)
- ◆ Probe Field of View: 60°
- ◆ Probe Depth of Field: 1 in. to 10 ft. (25mm to 3m)
- ◆ Camera Light Source: 4 adjustable-brightness white LEDs
- ◆ Impact Resistance: To height of 1m (39 in.)
- ◆ Water, Dust, Splash Resistance Levels: Camera-tipped probe designed to meet IP67; Grip and LCD designed to meet IP54
- ◆ Operating Temperature/Humidity: 32° to 113°F (0° to 45°C) @ 5 to 95% RH
- ◆ Dimensions of Console: 10 x 3.6 x 2.3 in. (254 x 91 x 58mm)
- ◆ Weight of Console: 1 lb. (454g)
- ◆ Dimensions of Case: 15 x 11 x 3.5 in. (381 x 279 x 89mm)
- ◆ Weight of Case and Contents: 4 lb. (1.8 kg)
- ◆ Power Source: 4 "AA" batteries (included)

UPC	NO.
01572 8	DCS280



DCS280



The rugged DCS280 shrugs off the accidental bumps typical of industrial work



Perfect for driveway mechanics

CE



DCS600



DCS660

**SEASCOPE™600 NON-RECORDING  
 SEASCOPE™660 RECORDING  
 WATERPROOF VIDEO INSPECTION SYSTEMS – DCS600, DCS660**

**Ideal for plumbing-related applications and inspections of submerged structures and parts of boats, ships, bridges or offshore oil platforms.**

**FEATURES:**

- Makes it possible to inspect sewer and water lines carrying running water
- Enables a diver or snorkeler to view probe video under water in real time. Other “waterproof” inspection systems lack watertight grips and monitors. **Entire unit can be submerged.**
- Ideal for marine search & rescue operations
- Eliminates concerns about accidentally dropping or dunking grip or monitor into water
- Grip, probe and monitor are guaranteed leak-proof to depth of 1m; all three components will also resist leaks at depths up to 2m for short periods (1 hour, max)
- 3.4 in. (86mm) color LCD makes videos large and crystal-clear
- Video can be inverted (rotated 180°) to make it easier to read labels and serial numbers
- Analog Video Out jack
- **Additional Features for SeaScope™660**
- Record time/date-stamped still images and videos on included 2GB MicroSD memory card
- Videos can be panned by joystick and zoomed up to 4X
- USB jack and cable for PC connection

**SPECIFICATIONS:**

- ◆ Camera-Tipped Flexible Obedient Probe Diameter, Length: 9.8mm (0.39 in.), 1m (3.3 ft.)
- ◆ Field of View: 54°
- ◆ Depth of Field: 0.6 to 6 in. (15 to 150mm)
- ◆ Camera Illumination: 2 adjustable LEDs
- ◆ LCD Type, Size: TFT, 3.4 in. (86mm) diagonal
- ◆ Display Resolution: 320 x 240 pixels
- ◆ Operating Temperature: 32° to 113°F (0° to 45°C)
- ◆ Grip Dimensions: 13.0 x 10.5 x 4.5 in. (330 x 267 x 114mm)
- ◆ Grip Weight: 56 oz. (1587.57g)
- ◆ Power Source: 4 “AA” batteries (not included)

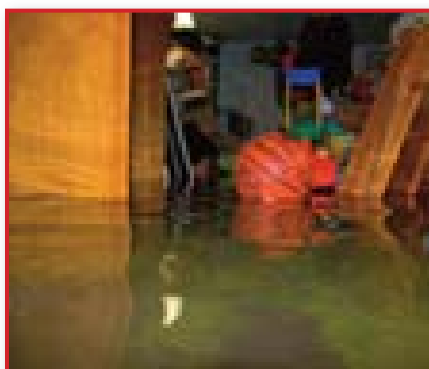
**INCLUDES:**

Watertight Grip, Monitor and 1m Camera-tipped Probe; Video Cable; Set of Three Probe Tip Accessories (45° Mirror, Pickup Hook and Magnetic Pickup); Hard Plastic Protective Case; User’s Manual, 1-Year Limited Warranty. DCS660 also includes 2GB MicroSD Memory Card, USB Cable

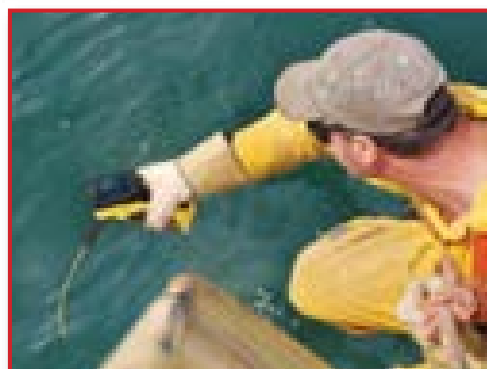
UPC	NO.
01514 8	DCS600
01515 5	DCS660
01596 4	P600-2 70 in. (1.8m) long x 9.8mm diameter optional probe
01597 1	P600-3 105 in. (2.7m) long x 9.8mm diameter optional probe



**Ideal for all plumbing-related inspections**



**There’s no need to worry about dropping either SeaScope in a flooded basement**



**The entire SeaScope™ system - including the grip, monitor and probe - is guaranteed watertight to a depth of 1 meter**

### THE SEEKER™200 SERIES VIDEO INSPECTION SYSTEMS

Compact video camerascopes for the visual inspection of inaccessible areas.

#### FEATURES:

- View inspection video instantly on the 2.4 in. (60.9mm) color LCD
- Separate monitor buttons for 2x zoom and 180° image flip
- System includes a 1m (3.28 ft.) long, flexible-obedient, camera-tipped probe
- Probes are flexible, strong and slim enough to perform automotive engine check-up
- Flexible-obedient probes retain configured shape to suit different inspection needs
- Probes are water, oil and dust proof to IP67 standards
- Optional 12mm probe extensions of 1m, 2m, and 3m (3.28 ft., 6.6 ft., 9.9 ft.) are available for maximum extension of up to 5m (16 ft.)

#### INCLUDES:

Custom Hard Case, Pistol Grip Camera Handle with 1m Long, Flexible-Obedient Probe, 3 Accessory Tools, 1 “9V” Battery, Mini-Screwdriver, User’s Manual, 3-Year Limited Warranty

UPC	NO.	PROBE DIAMETER
01372 4	<b>DCS200</b>	12mm (0.47 in.)
01494 3	<b>DCS200-05</b>	5.5mm (0.22 in.)
01482 0	<b>DCS200-09</b>	9mm (0.35 in.)



### THE SEEKER™300 WIRELESS VIDEO INSPECTION SYSTEMS

Compact video camerascopes for the visual inspection of inaccessible areas.

#### FEATURES:

- View inspection video instantly on the 3.5 in. (88.9mm) color LCD screen
- Separate monitor buttons for 2x zoom and 180° image flip
- System includes a 1m (3.28 ft.) long, flexible-obedient, camera-tipped probe
- Camera-tipped probes have built-in adjustable LED lighting
- Probes are flexible, strong and slim enough to perform automotive engine check-up
- Interchangeable probes are water, oil and dust proof to IP67 standards

#### INCLUDES:

Custom Hard Case, Pistol Grip Camera Handle with 1m Long, Flexible-Obedient Probe, 3 Accessory Tools, 1 “9V” Battery, Mini Screwdriver, User’s Manual, 3-Year Limited Warranty

UPC	NO.	PROBE DIAMETER
01373 1	<b>DCS300</b>	12mm (0.47 in.)
01472 1	<b>DCS355</b>	5.5mm (0.22 in.)



### THE SEEKER™400 WIRELESS RECORDING VIDEO INSPECTION SYSTEMS

Wireless interface with optional RCV100 module enables streaming of live inspection video over the Internet.

#### FEATURES:

- 3.5 in. (88.9mm) diagonal TFT-LCD Wireless Color Monitor can be detached from the unit for remote viewing up to 10m (33 ft.) away
- Monitor features 4x zoom and 180° image flip features
- System includes a 1m (3.28 ft.) long, flexible-obedient, camera-tipped probe
- Both monitor and handle use rechargeable Lithium-Ion batteries which can be charged at the same time using the included one-into-two charging cable
- View inspection video in real time, record video and capture/save still photos as JPEGs with instant playback review. Up to 3 hours of video (AVI)
- NTSC or PAL compatible
- Built-in magnets and stand facilitate hands-free operation
- Choice of 5 menu languages: English, French, Spanish, Chinese and Portuguese
- Interchangeable probes in multiple sizes

#### INCLUDES:

Custom Hard Case, Pistol Grip Camera Handle with 1m Long, Flexible-Obedient Probe, Detachable Wireless Monitor, 2GB Micro SD Memory Card, 3 Accessory Tools, USB and Video Interconnect Cables, Built-in Magnets, 2 Lithium-Ion Rechargeable Batteries with AC Adapter/Charger, User’s Manual, 3-Year Limited Warranty

UPC	NO.	PROBE DIAMETER
013717	<b>DCS400</b>	12mm (0.47 in.)
01447 9	<b>DCS400-05</b>	5.5mm (0.22 in.)
01426 4	<b>DCS400-09</b>	9mm (0.35 in.)
01446 2	<b>RCV100</b>	Wireless USB Video Receiver





# Infrared Thermometers



Cold or hot . . . it matters not . . . to General's extended family of point-and-shoot infrared thermometers. From our affordable VR40 and IRT105 to our Ultra-High Temperature IRT5000, there's an IRT with your name – and application – on it. Just pick a Distance-to-Spot (D:S) ratio and a temperature range and begin firing away.



**VR40**  
3-In-1 Pocket IRT  
with NCV & Flashlight  
(See page 19)



**IRT105**  
Pocket Sized IRT  
(See page 19)



**IRT206 & IRT207**  
Mid-Range IRT  
(See page 19)



**IRT657**  
Wide Range IRT with Star Burst  
Laser Targeting (See page 20)



**IRT659K**  
Dual Sensor IRT with  
Star Burst Laser Targeting  
(See page 20)



**IRTC50**  
Energy Audit IRT/Scanner  
with Star Burst Laser  
Targeting (See page 20)

## SPECIFICATIONS

D:S Ratio Model No.	4:1 VR40	6:1 IRT105	8:1 IRT206 & IRT207	12:1 IRT657	12:1 IRT659K	8:1 IRTC50
Name	4:1 IR Thermometer with NCV and Flashlight	6:1 Pocket Infrared Thermometer	8:1 Mid-Range Infrared Thermometer	12:1 Wide-Range Infrared Thermometer with Star Burst Laser Targeting	12:1 Infrared Thermometer with "K" Type Thermocouple and Adjustable Emissivity	8:1 Scanning IR Thermometer with Star Burst Laser Targeting
Temperature Measurement Range	-4° to 626°F (-20° to 330°C)	-22° to 482°F (-30° to 250°C)	-4° to 608°F (-20° to 320°C)	-40° to 1076°F (-40° to 580°C)	IRT: -58° to 1202°F (-50° to 650°C); "K" Port: -146° to 2498°F (-99° to 1370°C)	-40° to 428°F (-40° to 220°C)
Resolution	0.1°	0.1°	0.1°	0.1° below 1000°	12:1	0.1°
Accuracy	±3.8°F (2°C) or ±1% of reading (whichever is greater) above 32°F; ±4.5°F (2.5°C) below 32°F	±2% of reading or ±5°F/±3°C (max), whichever is greater	±2% of reading or ±3.6°F/±2°C (whichever is greater)	±3°F (2°C) or ±2% of reading	0.1°F (0.1°C) IRT: ±3°F (2°C) or ±2% of reading above 32°F (0°C); ±4°F (3°C) or ±3% of reading below 32°F; "K" type thermocouple: ±1° (F or C)	±2% of reading or ±3°F (2°C) above 32°F; ±3% of reading or ±5°F (3°C) below 32°F
Emissivity	Fixed at 0.95	Adjustable from 0.1 to 1.0 in 0.01 steps	Fixed at 0.95	Fixed at 0.95	Adjustable from 0.1 to 1.0 in 0.01 steps	Fixed at 0.95
Display	Backlit LCD	Backlit LCD	Backlit LCD	Backlit LCD	Backlit LCD	Backlit LCD
Laser Power	<1mW (Class 2)*	<1mW (Class 2)*	<1mW (Class 2)*	Class 3R (<3mW)**	Yes	<3mW (Class 3R)**
Auto Power Off	Yes	Yes	Yes	Yes	Yes	Yes
Other Key Features	Non-contact voltage detector with 4 sensitivity levels, LED flashlight	Min/Max Measurement Mode Measurement Lock Mode	Data Hold	Low battery indication Over-range indication	Automatically stores last 10 readings, Displays Min/Max/Avg/Dif session values, Settable high and low temperature alarms, Star Burst Laser Targeting	Green/red/blue indication of normal/hot/cold 1°, 5° or 10°F setpoint bandwidth Data Hold
Accessories Included	(2) "AAA" batteries, User's manual, 3-year limited warranty	Wrist strap "9V" battery, User's manual, 1-year limited warranty	"9V" battery, User's manual, 1-year limited warranty	"9V" battery, User's manual, Soft carrying pouch, 1-year limited warranty	"K" type thermocouple with 0° to 500°F (-18° to 260°C) range, "9V" battery, Nylon pouch, User's manual, 1-year limited warranty	"9V" battery, User's manual, 1-year limited warranty

\* Laser radiation! Do not stare into beam!  
\*\* Laser radiation! Avoid direct eye exposure!





# Infrared Thermometers

## 3-IN-1 POCKET INFRARED THERMOMETER WITH NCV AND FLASHLIGHT – VR40

Also can check in a safe (non-contact) way whether a line, cable or AC outlet is “hot” (energized).

**FEATURES:**

- Wide temperature measurement range
- Non-contact voltage detection (NCV) circuit sounds beeper and flashes LED when activated
- Safe for CAT III 600V, CAT II 1000V use
- Also checks 110VAC outlets for wiring faults
- Patent-pending design places the IR and NCV sensors and flashlight on same end

**SPECIFICATIONS:**

- ◆ IRT D:S Ratio, Range: 4:1, -4° to 626°F (-20° to 330°C)
- ◆ IRT Measurement Accuracy: ±3.8°F (2°C) or ±1% of reading (whichever is greater) above 32°F; ±4.5°F (2.5°C) below 32°F
- ◆ Laser Power: <1mW (Class 2)
- ◆ IRT Emissivity: Fixed at 0.95

- ◆ Display Digits/Counts/Resolution: 4/2000/0.1°
- ◆ Detection Ranges/Sensitivities: 12 to 25VAC, 70 to 125VAC, 150 to 240VAC, 250 to 1000VAC
- ◆ Operating Temperature: 32° to 113°F (0° to 45°C) @ <95% RH
- ◆ Dimensions: 6.0 x 1.2 x 1.2 in. (152 x 31 x 31mm)
- ◆ Weight (with batteries): 7.8 oz. (220g)
- ◆ Power Source: (2) “AAA” (LR03) batteries (included)

**INCLUDES:**

- Batteries • User’s Manual
- 3-Year Limited Warranty

UPC	NO.
01634 3	VR40



Patent Pending

VR40

**Laser radiation!**  
Do not stare into beam!

## 6:1 POCKET INFRARED THERMOMETER – IRT105

Ideal for spot-checking the temperature of substances and surfaces from a distance. Perfect for electrical troubleshooting and HVAC equipment maintenance.

**FEATURES:**

- Optimized measurement range
- Accuracy of ±3°F or 2% above 32°F
- Adjustable emissivity
- Fast response time
- Max/Min measurement and measurement lock modes
- Selectable °F or °C unit
- Large LCD
- Separate batteries for thermometer and laser
- Small and light and easy to use
- CE approved

**SPECIFICATIONS:**

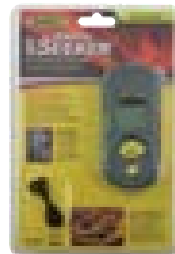
- ◆ Distance-To-Spot (D:S) Ratio: 6:1
- ◆ Temperature Measurement Range: -22° to 482°F (-30° to 250°C)
- ◆ Measurement Accuracy: ±3°F (2°C) or 2% of reading (whichever is greater) above 32°F (0°C); ±5°F (3°C) or 2% of reading (whichever is greater) below 32°F

- ◆ Emissivity: Adjustable from 0.1 to 1
- ◆ Response Time: 500 msec for 95% response
- ◆ Laser Power: <1mW (Class 2)
- ◆ Thermometer Battery Life: 50 hours, typical
- ◆ Operating Temperature: 32° to 104°F (0° to 40°C) @ <75% relative humidity
- ◆ Dimensions: 4.25 x 2.05 x 0.98 in. (108 x 52 x 25mm)
- ◆ Weight: 1.41 oz. (40g)
- ◆ Power Source: 2 “CR2032” Li-ion batteries

**INCLUDES:**

- Wrist strap
- Batteries
- User’s Manual
- 1-Year Limited Warranty

UPC	NO.
20196 1	IRT105



CE

IRT105



**Laser radiation!**  
Do not stare into beam!

## THE HEAT SEEKER™ 8:1 MID-RANGE INFRARED THERMOMETER – IRT206 THE HEAT SEEKER™ 8:1 MID-RANGE INFRARED THERMOMETER – IRT207

Ideal for most applications in HVAC/R, plumbing and heating, electrical, automotive and other industrial jobs.

**FEATURES:**

- Rugged and ergonomic design
- Backlit LCD display
- Sighting laser can be turned off
- °F/°C switch
- CE, RoHS, WEEE approved

**SPECIFICATIONS:**

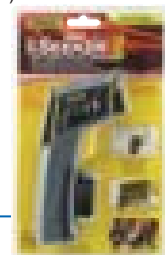
- ◆ Distance to Spot (D:S) Ratio: 8:1
- ◆ Measurement Range: -4° to 608°F (-20° to 320°C)
- ◆ Measurement Accuracy: 3.6°F (2°C) or 2% of reading, whichever is greater
- ◆ Emissivity: Fixed at 0.95
- ◆ Resolution: 0.1°F (F or C)

- ◆ Operating Temperature: 32° to 104°F (0° to 40°C) @ 10 to 90% RH
- ◆ Laser Power: <1mW (Class 2)
- ◆ Dimensions: 5.98 x 4.65 x 1.26 in. (152 x 118 x 32mm)
- ◆ Weight: 4.41 oz. (170g) without battery
- ◆ Power Source: 1 “9V” battery (included)

**INCLUDES:**

- Battery • User’s Manual
- 1-Year Limited Warranty

UPC	NO.
02060 9	IRT206
01403 5	IRT207



CE  
RoHS



IRT206  
IRT207



**Laser radiation!**  
Do not stare into beam!

Indicates optional NIST calibration is available

Patent Pending



## 12:1 WIDE-RANGE INFRARED THERMOMETER WITH STAR BURST LASER TARGETING – IRT657

Ideal for isolating overheated electrical components and hot spots, troubleshooting HVAC/R and automotive systems, or performance-testing motors and boilers.

### FEATURES:

- Wide measurement range of -40° to 1076°F (-40° to 580°C)
- Accuracy of ±3°F (2°C) or ±5°F (3°C), depending on temperature
- Large (1.6 in. diagonal) backlit LCD

### SPECIFICATIONS:

- ◆ Distance-To-Spot (D:S) Ratio: 12:1
- ◆ Temperature Measurement Range: -40° to 1076°F (-40° to 580°C)
- ◆ Emissivity: Fixed at 0.95
- ◆ Measurement Accuracy: ±3°F (2°C) or ±2% of reading above 32°F (0°C); ±5°F (3°C) or ±2% of reading

- ◆ Display Size and Type: 1.6 in. (40.6mm) dia. LCD
- ◆ Operating Temperature: 32° to 104°F (0° to 40°C) @ <75% relative humidity (RH)
- ◆ Laser Power: <3mW (Class 3R)
- ◆ Dimensions: 6.9 x 3.6 x 1.5 in. (175 x 91.5 x 38mm)
- ◆ Weight: 5.93 oz. (168g)
- ◆ Power Source: 1 "9V" battery (included)

### INCLUDES:

- Carrying Case • Battery • User's Manual
- 1-Year Limited Warranty

UPC	NO.
01480 6	IRT657

IRT657  
N

Class 3R Laser Product  
Laser radiation!  
Avoid direct eye exposure!



## 12:1 DUAL SENSOR INFRARED THERMOMETER WITH "K" TYPE THERMO-COUPLE & ADJUSTABLE EMISSIVITY – IRT659K

Ideal for isolating overheated electrical components and hot spots, troubleshooting HVAC/R and automotive systems, and performance-testing motors and boilers.

### FEATURES:

- Automatically holds measurements
- Automatically stores last 10 readings for recall
- Displays Min/Max/Avg/Dif temperatures
- Settable high and low temperature alarms
- °C/°F and laser pointer on/off switches

### SPECIFICATIONS:

- ◆ Distance-to-Spot (D:S) Ratio: 12:1
- ◆ IR Temperature Measurement Range: -58° to 1202°F (-50° to 650°C)
- ◆ IR Temperature Measurement Accuracy: ±3°F (2°C) or ±2% of reading
- ◆ "K" Port Measurement Range: -146° to 2498°F (-99° to 1370°C)
- ◆ Included "K" Type Thermocouple Range/Accuracy: 0° to 500°F (-18° to 260°C)/ ±1° (F or C)
- ◆ Display Resolution: 1° (F or C)

- ◆ Emissivity: Adjustable from 0.1 to 1.0
- ◆ Display: 1.5 in. (38mm) diagonal backlit LCD
- ◆ Response Time: 500 ms
- ◆ Laser Power: Class II (<3mW)
- ◆ Operating Temperature: 32° to 104°F (0° to 40°C) @ 10 to 75% RH, non-condensing
- ◆ Auto Power Off Trigger: 30 seconds of inactivity
- ◆ Dimensions: 5.31 x 1.65 x 6.81 in. (135 x 42 x 173mm)
- ◆ Weight: 6.93 oz. (168g) (without battery)
- ◆ Power Source: (1) "9V" battery (included)

### INCLUDES:

- "K" type thermocouple probe
- Soft carrying case • Battery • User's manual
- 1-Year Limited Warranty

UPC	NO.
01598 8	IRT659K

IRT659K  
N

CE  
RoHS



## 8:1 ENERGY AUDIT INFRARED THERMOMETER/SCANNER WITH STAR BURST LASER TARGETING – IRTC50

Ideal for energy auditors, building inspectors, HVAC technicians, electricians, manufacturing technicians, food processing inspectors and homeowners.

### FEATURES:

- Set-point band options of 1°, 5° and 10° (0.5°, 3°, 5.5°C)
- Red or blue light and fast or slow buzzer signal when the target temperature is above or below the reference temperature ± the set-point
- Fast response time of 0.5 seconds
- Unique Star Burst laser targeting system helps approximate the target spot size
- Large backlit LCD
- Automatic temperature "hold" when the trigger is released
- Display and backlight turn off after 15 seconds of inactivity
- Auto-power off after 60 seconds of inactivity
- CE and ROHS approved

### SPECIFICATIONS:

- ◆ Distance to Spot Ratio: 8:1
- ◆ Measurement Range: -40° to 428°F (-40° to 220°C)

- ◆ Measurement Accuracy: ±4°F/C or ±2% of reading
- ◆ Resolution: 1°F (0.5°C)
- ◆ Emissivity: Fixed at 0.95
- ◆ Response Time: 0.5 seconds
- ◆ Operating Temperature: 32° to 104°F (0° to 40°C)
- ◆ Storage Temperature: -20° to 122°F (-29° to 50°C)
- ◆ Operating Humidity: 10 to 90%
- ◆ Dimensions: 5.31 x 1.65 x 6.81 in. (135 x 42 x 173mm)
- ◆ Weight: 6.24 oz. (117g) without battery
- ◆ Power Source: 1 "9V" battery (included)

### INCLUDES:

- Battery • User's manual
- 1-Year Limited Warranty

UPC	NO.
01442 4	IRTC50

IRTC50  
Patent Pending

## DIGITAL STEM TYPE SERVICE THERMOMETER WITH JUMBO DISPLAY – PT300M

Ideal for use in labs, industrial control and HVAC/R applications.

### FEATURES:

- Probe can be angled at 45°, 90°, 135° or 180° from handle
- Wide measurement range
- Displays ambient temperature and temperature from remote probe
- °F or °C display
- Min/Max memory + data hold
- Wrist Strap
- Stainless steel probe

### SPECIFICATIONS:

- ◆ Measurement Range: -58° to 572°F (-50° to 300°C)
- ◆ Measurement Accuracy: ±1.8°F (±1°C)
- ◆ Response Time: 1 second
- ◆ Probe Length: 5.125 in.
- ◆ Operating Temperature: 14° to 122°F (-10° to 50°C)
- ◆ Dimensions: 6 x 1.8 x 0.7 in. (152 x 46 x 18mm)
- ◆ Weight: 4 oz. (114g)
- ◆ Power Source: 1 “AAA” battery (included)

UPC	NO.
21060 4	PT300M



PT300M

## DIGITAL STEM THERMOMETER – DPT301FC

Ideal for automotive, heating and refrigeration.

### FEATURES:

- Wide range, with 0.1° display resolution
- °F/°C switch
- Food safe
- 4.5 in. stainless steel stem
- Flat edge, non-roll case



### SPECIFICATIONS:

- ◆ Measurement Range: -40° to 302°F (-40° to 150°C)
- ◆ Measurement Accuracy: ±1.8°F (±1°C)
- ◆ Probe Length: 4.5 in. (114mm)
- ◆ Dimensions: 11.00 x 5.25 x 1.25 in. (279 x 133 x 32mm)
- ◆ Weight: 2.55 oz. (72.29g)
- ◆ Power Source: 1 “LR44” battery (included)

UPC	NO.
20035 3	DPT301FC



DPT301FC

## DELUXE DIGITAL STEM THERMOMETER – HDT304K

Ideal for automotive, heating and refrigeration.

### FEATURES:

- °F/°C switch
- Data hold
- Stainless steel piercing probe
- Pocket clip
- Drop resistant

### SPECIFICATIONS:

- ◆ Measurement Range: -58° to 302°F (-50° to 150°C)
- ◆ Measurement Accuracy: ±1.8°F (±1°C) from -22° to 302°F (-30° to 150°C); ±4°F (±2°C) elsewhere

- ◆ Response Time: 0.5 seconds
- ◆ Probe length: 3.8 in. (97mm)
- ◆ Auto Power Off: After 1 hour of inactivity
- ◆ Operating Temperature: 14° to 122°F (-10° to 50°C)
- ◆ Dimensions: 11.00 x 5.25 x 1.00 in. (279 x 133 x 26mm)
- ◆ Weight: 1.60 oz. (45.36g)
- ◆ Power Source: 1 “LR44” battery (included)

UPC	NO.
20005 6	HDT304K



HDT304K

## ANALOG POCKET STEM THERMOMETERS WITH MAGNIFYING LENS – 320, 321

Ideal for quick temperature readings.

### FEATURES/SPECIFICATIONS:

- Rugged 5 in. (127mm) long, 0.14 in. (3.5mm) diameter stainless steel probe
- 1 in. (25.4mm) diameter dial with magnifying lens
- Measurement Range: -40° to 160°F (-40° to 71°C) for 320; 0° to 220°F (-18° to 104°C) for 321
- Measurement Accuracy: ±5%

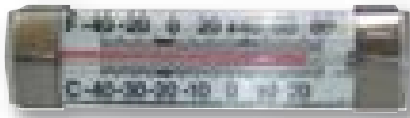
### INCLUDES:

- Protective sheath with pocket clip

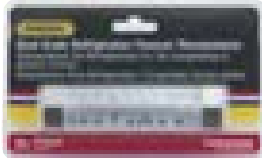
UPC	NO.
00320 1	320
22391 3	321



320  
321



FT80H



## HORIZONTAL REFRIGERATOR/FREEZER ANALOG THERMOMETER – FT80H

Ideal for hanging.

**FEATURES:**

- Stainless steel
- Horizontal reading
- Hanging or free standing
- Easy to read display
- °F/°C scales

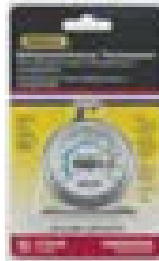
**SPECIFICATIONS:**

- ◆ Measurement Range: -40° to 80°F (-40° to 27°C)
- ◆ Dimensions: 1.25 x 4.75 x 0.75 in. (32 x 121 x 19mm)

UPC	NO.
24015 1	FT80H



FT80R



## ROUND REFRIGERATOR/FREEZER THERMOMETER – FT80R

Ideal for hanging.

**FEATURES:**

- Stainless steel
- Hanging or free standing
- Easy-to-read round dial
- °F/°C scales
- Color-coded temperature arcs

**SPECIFICATIONS:**

- ◆ Measurement Range: -20° to 80°F (-29° to 27°C)
- ◆ Dial Diameter: 2 in. (50.80mm)

UPC	NO.
24005 2	FT80R



DT8852

## DIGITAL THERMOCOUPLE THERMOMETER – DT8852

Ideal for measuring temperature differentials T1-T2.

**FEATURES:**

- Dual input
- Includes two “K” type thermocouples; also compatible with “T” type
- °F/°C switch
- Backlit LCD display
- Data hold + auto power off
- Low battery indicator
- RS-232 output for uploading data logs
- CE and RoHS approved

- ◆ Response Time: 1 sec.
- ◆ Dimensions: 7.16 x 2.83 x 1.18 in. (182 x 72 x 30mm)
- ◆ Weight: 7.8 oz. (220g)
- ◆ Power Source: 1 “9V” battery (included)
- ◆ Warranty: 1-year (limited)

**INCLUDES:**

- 2 “K” type probes (TPK500)
- Molded hard case
- Battery

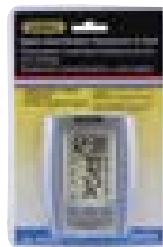
UPC	NO.
21012 3	DT8852

**SPECIFICATIONS:**

- ◆ Measurement Range with “K” type Thermocouple: -328° to 2498°F (-200° to 1370°C)
- ◆ Measurement Accuracy: 0.1% (±1°F)



DT898P



## JUMBO DISPLAY INSIDE/OUTSIDE THERMOMETER – DT898P

Ideal for measuring and monitoring both indoor and outdoor temperature.

**FEATURES:**

- Jumbo triple LCD display
- Min/Max memory
- Outdoor probe is water-resistant
- 12 ft. cable with probe
- Wall mount or stand for desktop display
- 12/24 hour clock

- ◆ LCD Size: 2.4 x 1.6 in. (60 x 40mm)
- ◆ Dimensions: 4.2 x 2.6 x 0.9 in. (106 x 75 x 22mm)
- ◆ Weight: 4.8 oz. (135g)
- ◆ Power Source: 1 “AAA” battery (included)

**INCLUDES:**

- Mounting accessories
- Battery
- User’s Manual
- 1-Year Limited Warranty

UPC	NO.
10012 7	DT898P





# Digital Remote Sensing Thermometers

## 3 CHANNEL CAPABLE WIRELESS THERMOMETER WITH REMOTE – EMR813

Ideal for measuring and monitoring indoor and outdoor temperature.

**FEATURES:**

- Min/Max memory
- Programmable temperature alert
- °F/°C switch
- CE approved

**SPECIFICATIONS:**

- ◆ Measurement Range:  
Indoor: 32° to 122°F (0° to 50°C)  
Outdoor: -4° to 140°F (-20° to 60°C)
- ◆ Dimensions of Base Unit:  
3.8 x 2.4 x 0.2 in. (97 x 60 x 30mm)
- ◆ Weight of Base Unit: 3 oz. (85g)

- ◆ Dimensions of Sensor:  
3.6 x 2.6 x 0.9 in. (90 x 65 x 23mm)
- ◆ Weight of Remote Sensor:  
3 oz. (85g)
- ◆ Power Source: 2 “AAA” batteries (not included)
- ◆ Warranty: 1-year (limited)

UPC	NO.
60017 7	EMR813



EMR813

## INSIDE OUTSIDE THERMOMETER WITH WATERPROOF PROBE – AQ150

Ideal for digitally monitoring indoor/outdoor temperatures.

**FEATURES:**

- Displays ambient or remote (IN or OUT) temperature
- Tracks MAX and MIN temperatures
- High and low remote temperature alarms
- °C/°F button
- Backlit LCD
- Foldaway stand
- Includes battery and mounting hardware
- Magnets on back
- Detachable sensor-tipped cable

**SPECIFICATIONS:**

- ◆ Ambient Temperature Range:  
14° to 122°F (-10° to 50°C)
- ◆ Remote Temperature Range:  
-58° to 158°F (-50° to 70°C)
- ◆ Measurement Accuracy: ±1°F (0.5°C) from -4° to 122°F (-20° to 50°C); ±1.8°F (±1°C) elsewhere in range

- ◆ Display Resolution: 0.1° (C or F)
- ◆ Sampling Period: 10 seconds
- ◆ Probe Cord Length: 10 ft. (3m)
- ◆ Display Size: 1.88 x 0.82 in. (48 x 21mm)
- ◆ Digit Height: 5/8 in. (16mm)
- ◆ Dimensions:  
2.9 x 2.1 x 0.7 in. (73 x 52 x 18mm)
- ◆ Weight of unit, probe, battery and accessories:  
3.76 oz. (106g)
- ◆ Power source: 1 “CR2032” battery (included)
- ◆ Warranty: 1-year (limited)

**INCLUDES:**

- Suction cup
- Velcro mounting tape
- Battery
- Mounting hardware

UPC	NO.
22150 1	AQ150



AQ150

## WIRELESS THERMO-HYGROMETER WITH REMOTE SENSOR – EMR963HG

Ideal for general-purpose environmental monitoring of facilities.

**FEATURES:**

- Monitors temperature and humidity from up to 90 feet away
- °F/°C switch
- Up to three wireless sensors may be used with base station
- Includes one remote wireless sensor; additional sensors available
- Jumbo display
- Min/Max memory
- Trend information
- Comfort indicator
- CE and RoHS approved

**SPECIFICATIONS:**

- ◆ 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%
- ◆ Humidity Accuracy: ±5%

- ◆ 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. (114 x 102 x 19mm)  
Sensor: 4 x 2.75 x 0.75 in. (102 x 70 x 19mm)
- ◆ 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)
- ◆ Warranty: 1 year (limited)

**INCLUDES:**

- 1 Wireless Temperature-Humidity Sensor Model THGR268
- 4 Batteries • User’s Manual

UPC	NO.
60070 2	EMR963HG
60073 3	THGR268 (optional) Wireless temperature-humidity sensor



EMR963HG  
SENSOR THGR268

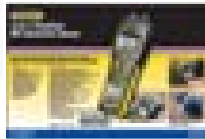


**N** Indicates optional NIST calibration is available





MMH800



## PIN/PINLESS MOISTURE METER W/ TEMPERATURE & HUMIDITY – MMH800

Ideal for locating water leaks and measuring moisture content of drywall, plastered walls, floors and subfloors. Also measures ambient temperature and humidity.

### FEATURES:

- Pin-type and non-marring inductive sensors
- Two dedicated displays: Moisture percentage, and ambient temperature plus relative humidity
- High/medium/low audible indication of moisture level
- Holds moisture level readings
- Auto diagnostic check
- Auto power off

### SPECIFICATIONS:

- ◆ Measurement Ranges: 5 to 50% moisture (wood); 1.5 to 33% moisture (building materials)
- ◆ Moisture Measurement Accuracy:  $\pm 3\%$
- ◆ Moisture Measurement Resolution: 0.1%

- ◆ Temperature Measurement Range/Accuracy: 32° to 140°F (0° to 60°C)/ $\pm 2^\circ\text{F}$  ( $\pm 2^\circ\text{C}$ )
- ◆ Humidity Measurement Range/Accuracy: 25 to 95%/ $\pm 3\%$  from 0° to 40°C
- ◆ Auto Power Off: After 3 minutes of inactivity
- ◆ Dimensions: 7.13 x 2.17 x 1.57 in. (181 x 55 x 40mm)
- ◆ Weight: 4.06 oz. (115g)
- ◆ Power Source: 1 “9V” battery (included)
- ◆ Warranty: 1-year (limited)

### INCLUDES:

- Battery
- Two sets of extra pins
- User’s manual

UPC	NO.
01486 8	MMH800

## TEMPERATURE-HUMIDITY DATA LOGGER – DL8835

Ideal for measuring, monitoring and recording temperature and humidity of sensitive facilities and on water-damage restoration projects.

### FEATURES:

- Records relative humidity and temperature with date/time stamp
- Logs data for days, weeks or months
- Multiple data loggers can be programmed and data downloaded from a single docking station
- Sampling rate programmable from 1 second to 2 hours
- View either temperature or humidity on LCD
- Data logging functions require optional Serial (RS-232) or USB Interface Kit INT8819 (see below)
- Programmable high and low limits with alarm

### SPECIFICATIONS:

- ◆ Temperature Measurement Range: -40° to 185°F (-40° to 85°C)

- ◆ Temperature Measurement Accuracy:  $\pm 1^\circ\text{F}$  between -4° and 122°F;  $\pm 2^\circ\text{F}$  elsewhere
- ◆ Relative Humidity Measurement Range: 5 to 95%
- ◆ RH Measurement Accuracy:  $\pm 5\%$  of reading
- ◆ Temperature, RH Resolutions: 0.1°, 0.1% RH
- ◆ Data Logging Capacity: Up to 8,000 data points each for temperature, humidity
- ◆ 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)
- ◆ Warranty: 1-year (limited)

UPC	NO.
46125 9	DL8835
46135 8	INT8819 USB Interface Kit (optional)



DL8835

## USB INTERFACE KIT FOR DL8835 – INT8819

### FEATURES:

- For downloading readings to your PC
- Use with data logger model DL8835

### INCLUDES:

- Data logger base
- Software
- 1-Year Limited Warranty
- USB1.1 cable
- User’s manual

UPC	NO.
46135 8	INT8819

## 6-IN-1 PSYCHROMETER WITH ENTHALPY—EP8711P

Ideal for HVAC/R professionals who need to know a system’s enthalpy of vaporization—the energy needed to change a refrigerant from a liquid to a gas.

### FEATURES:

- Measures: 1) ambient temperature, 2) relative humidity (RH), 3) dew point, 4) wet bulb temperature, 5) mixing ratio in grains per pound (GPP) or g/kg, and 6) enthalpy in Btu or kJ/kg
- 6-in. long sensor can be swiveled inside vent or grille
- Large 4-digit LCD
- Auto Power Off
- °C/°F switch
- Low battery indication

- RH Measurement Range: 0 to 100%
- RH Measurement Accuracy:  $\pm 2\%$  from 10% to 90% RH;  $\pm 3\%$  from 0 to 10%RH and from 90 to 100% RH
- RH Measurement Resolution: 0.1%
- Battery Life: 1000 hours (typical)
- Dimensions: 8.23 x 1.85 x 1.85 in. (209 x 47 x 47mm)
- Power Source: (3) “AAA” batteries (included)

### SPECIFICATIONS:

- ◆ Temperature Measurement Range: -4° to 158°F (-20° to 70°C)
- Temp Measurement Accuracy:  $\pm 0.7^\circ\text{F}$  ( $\pm 0.3^\circ\text{C}$ )
- Temp Measurement Resolution: 0.1°

### INCLUDES:

- Sensor protection cap
- User’s Manual
- Batteries
- 1-Year Limited Warranty

UPC	NO.
01677 0	EP8711P



INT8819



EP8711P

## CALIBRATABLE MULTI-FUNCTION PSYCHROMETERS – EP8703, EP8709, EP8710

Ideal for accurately measuring any environment's temperature, relative humidity (RH), dew point and other condensation parameters.

### FEATURES:

- Jumbo backlit display with double (EP8703, EP8709) or triple (EP8710) readout
- Field calibratable using optional 33% and 75% salts
- Data hold and Max/Min buttons (EP8709 and EP8710 only)
- Also calculates and displays wet bulb temperature (EP8709 and EP8710 only)
- Using included external probe (EP8710 only), can also measure: 1) the difference between an object's internal and surface temperatures or 2) an object's condensation temperature—the difference between its surface temperature and the dew point temperature
- °F/°C switch
- 20-minute Auto Power Off (can be disabled for calibration)
- Low battery indicator

### SPECIFICATIONS:

- ◆ Ambient Temperature Measurement Range: 14° to 122°F (-10° to 50°C)
- ◆ Ambient Temperature Measurement Accuracy/Resolution: ±1.8°F (±1.0°C)
- ◆ External Temperature Probe Measurement Range (EP8710 only): 14° to 158°F (-10° to 70°C)

- ◆ External Temperature Probe Measurement Accuracy (EP8710 only): ±1.8°F (±1°C)
- ◆ External Probe Cord Length: 48 in. (1.22m)
- ◆ Temperature Measurement Resolution: 0.1°
- ◆ RH Measurement Range: 0 to 99.9%
- ◆ RH Measurement Accuracy: ±3% from 5% to 95% RH
- ◆ RH Measurement Resolution: 0.1%
- ◆ RH Response Time: <80 seconds
- ◆ Current Consumption: <15mA
- ◆ Battery Life: 60 hours (typical)
- ◆ Dimensions: 7.56 x 2.40 x 1.57 in. (192 x 61 x 40mm)
- ◆ Weight (without battery): 3.77 oz. (107g)
- ◆ Power Source: (1) "9V" battery (included)

### INCLUDES:

- Sensor Protection Cap
- "9V" Battery • User's Manual
- External Temperature Probe (EP8710 only)
- 1-Year Limited Warranty

UPC	NO.
01632 9	<b>EP8703</b>
01630 5	<b>EP8709</b>
01631 2	<b>EP8710</b>
15060 3	<b>HR33</b> Calibration Salt MgCl 33% (optional)
15070 2	<b>HR75</b> Calibration Salt NaCl 75% (optional)



## CALIBRATABLE DIGITAL PSYCHROMETER - EP8706

Ideal for accurate handheld measurements of temperature and humidity.

### FEATURES:

- Jumbo display, triple read-out
- Rotating head to protect sensor
- Field calibratable humidity measurement
- Auto power off
- Min/Max memory + data hold
- CE approved

### SPECIFICATIONS:

- ◆ Temperature Measurement Range: -4° to 122°F (-20° to 50°C)
- ◆ Temperature Measurement Accuracy: ±1.2°F (±0.6°C)
- ◆ RH Measurement Range: 10 to 90%

- ◆ RH Measurement Accuracy: ±3% of reading
- ◆ Response Time: 60 seconds
- ◆ Power Source: 2 "AAA" batteries (included)

### INCLUDES:

- Batteries • User's Manual
- 1-Year Limited Warranty

UPC	NO.
10041 7	<b>EP8706</b>
10043 1	<b>P8706</b> External Temperature Probe (optional)
15060 3	<b>HR33</b> 33% Calibration Salt (optional)
15070 2	<b>HR75</b> 75% Calibration Salt (optional)



## DIGITAL PSYCHROMETER WITH DEW POINT AND WET BULB – SAM990DW

Ideal for monitoring environmental conditions.

### FEATURES:

- Measures and displays RH and ambient, wet bulb and dew point temperatures
- No twirling or charts necessary
- Min/Max memory + data hold
- °C/°F switch
- 20-minute auto power off (can be disabled for calibration)
- Low battery indication

### SPECIFICATIONS:

- ◆ Temperature Measurement Range: -4° to 122°F (-20° to 50°C)
- ◆ Temperature Measurement Accuracy: ±1.8°F (±1°C)
- ◆ Relative Humidity Measurement Range: 10 to 90%

- ◆ RH Measurement Accuracy: ±3% of reading
- ◆ Dew Point Measurement Accuracy: ±1.2°F (±0.6°C)
- ◆ Response Time: 60 seconds (approx.)
- ◆ Dimensions: 6.7 x 1.85 x 0.5 in. (170 x 22 x 13mm)
- ◆ Weight: 4 oz. (113g)
- ◆ Power Source: 2 "AAA" batteries (included)

### INCLUDES:

- Protective Cap With Pocket Clip • Batteries
- User's Manual • 1-Year Limited Warranty

UPC	NO.
10025 7	<b>SAM990DW</b>
15060 3	<b>HR33</b> 33% Calibration Salt (optional)
15070 2	<b>HR75</b> 75% Calibration Salt (optional)



**N** Indicates optional NIST calibration is available



DTH3007SD



Patented

**Included Accessories:**

- Soft Carrying Case • Temperature-Humidity Probe
- 2 GB SD Memory Card • User's Manual
- 1-Year Limited Warranty

**Optional Accessories:**

UPC	NO.	DESCRIPTION
01506 3	AC1	9VDC adapter for 110V power supply
25015 0	TPK500	-50° to 500°F "K" type thermocouple
25005 1	TPK05	-40° to 562°F "K" type thermocouple
25003 7	TPK03	-40° to 950°F "K" type thermocouple
01502 5	SDRD1	SD Card Reader

## HUMIDITY-TEMPERATURE INSTRUMENT WITH EXCEL-FORMATTED DATA LOGGING SD CARD – DTH3007SD

Ideal for high accuracy measurements of temperature and relative humidity of a fluid, including dew point/wet-bulb temperature of ambient air.

**FEATURES:**

- Four-function instrument measures temperature/humidity, dew point, wet bulb temperature and surface temperature
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Min/Max memory + data hold
- Sampling time settable from 1 second to 1 hour
- Also supports manual data logging and changing of SD card storage location
- Field calibratable humidity measurement
- Auto power off (can be disabled for data logging and calibration)

◆ Measurement Range:

- Temperature: 32° to 122°F (0° to 50°C)
- R.H.: 5 to 95%
- Dew Point: -13.5° to 120.1°F (-25.3° to 48.9°C)
- Wet-bulb: -6.9° to 122°F (-21.6° to 50°C)

◆ Measurement Accuracy:

- ±1.5°F (±0.8°C) for temperature
- Sum of temperature and humidity accuracies for dew point and wet-bulb temperature
- ◆ Operating Temperature: 32° to 122°F (0° to 50°C) @<85%RH

◆ Dimensions: 6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)

◆ Weight: 1.08 lb. (489g)

◆ Power Source: 6 "AA" batteries (not included) or optional 9-VDC AC adaptor

UPC	NO.
01461 5	DTH3007SD

**SPECIFICATIONS:**

◆ Display: 2.05 x 1.5 in. (52 x 38mm) LCD

## DATA LOGGING TEMPERATURE-HUMIDITY MONITOR – LTH8809DL

Ideal for monitoring and recording environmental in HVAC/R applications.

**FEATURES:**

- Bright red jumbo LED display
- Wall or desk mountable
- Settable high and low temperature and humidity alarms
- Also calculates and displays dew point
- Selectable temperature unit
- Data logging capacity of 16,000 records
- Field calibratable humidity measurement

- ◆ Display Size: 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 Loss Data Backup: 4 "AA" batteries (included)
- ◆ Warranty: 1-year (limited)

**INCLUDES:**

- 9V AC/DC Adaptor • Backup Batteries
- Data Logging/Interface Software • USB Cable
- User's Manual • 1-Year Limited Warranty

UPC	NO.
01309 0	LTH8809DL
21014 7	Z110VADPT 9VDC adaptor for 110V power supply
15060 3	HR33 33% Calibration Salt (optional)
15070 2	HR75 75% Calibration Salt (optional)

LTH8809DL



CDM77232

**INCLUDES:**

- AC Adapter • User's Manual

UPC	NO.
01311 3	CDM77232
12710 0	ASFKIT PC Interface Kit (optional)
15060 3	HR33 Calibration salt MgCl 33% (optional)
15070 2	HR75 Calibration salt NaCl 75% (optional)

## HIGH ACCURACY TEMPERATURE/HUMIDITY AND IAQ MONITOR WITH OUTPUT RELAY – CDM77232

Ideal for monitoring indoor air quality of houses, offices, classrooms, factories, hospitals and hotels. Includes relay for activating a ventilation system.

**FEATURES:**

- Measures CO<sub>2</sub> level, air temperature, humidity, dew point and wet bulb temperature
- Triple backlit LCD displays of CO<sub>2</sub> level, temperature and humidity
- Uses stable non-dispersive infrared (NDIR) sensor to measure CO<sub>2</sub>
- Calculates, periodically updates and displays 8-hr. time-weighted average (TWA) of CO<sub>2</sub> exposure and 15-minute short-term exposure limit (STEL)
- Visual and audible CO<sub>2</sub> alarms
- Min/Max memory +data hold
- RS-232 output jack; optional PC data logging kit includes RS-232 to USB adaptor
- Calibratable RH measurement
- 20-minute Auto Power Off (can be disabled for calibration)
- Wall or desktop mount
- CE and RoHS approved

**SPECIFICATIONS:**

- ◆ CO<sub>2</sub> Measurement Range: 0 to 5000ppm
- ◆ CO<sub>2</sub> Measurement Accuracy: ±50ppm ±5% of reading
- ◆ Pressure Dependence of CO<sub>2</sub> Measurement: +1.6% of reading per kPa deviation from sea-level atmospheric pressure (100kPa)
- ◆ CO<sub>2</sub> Calibration Level: 400ppm
- ◆ Temperature Range: 14° to 140°F (-10° to 60°C)
- ◆ Temperature Accuracy: ±0.9°F (0.6°C)
- ◆ Humidity Measurement Range: 10 to 95%
- ◆ Humidity Measurement Accuracy: ±3%
- ◆ Warmup Time: 30 seconds
- ◆ Response Times: 30 seconds for CO<sub>2</sub> and temperature, 30 minutes for humidity
- ◆ Operating Temperature: 32° to 122°F (0° to 50°C)@<80% RH
- ◆ Dimensions: 6.88 x 5.63 x 2.38 in. (174.75 x 143 x 60.45mm)
- ◆ Weight: 14.00 oz. (397g)
- ◆ Power Source: AC Adaptor (included)

## USB TEMPERATURE-HUMIDITY DATA LOGGERS – HT10, HT20, HT50

Ideal for monitoring temperature and humidity in enclosed spaces.

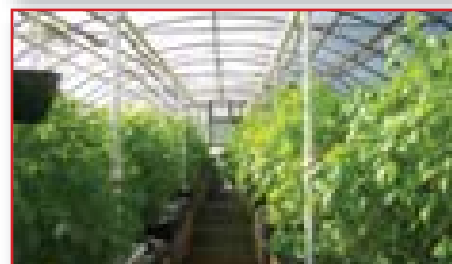
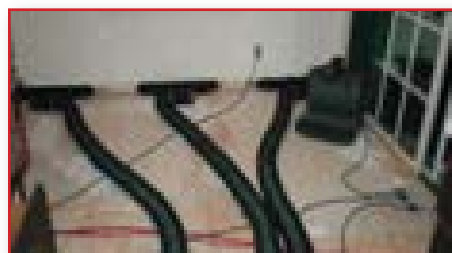
### 5 FEATURES:

- One button starts/stops data logging without a PC
- Plug-and-play USB 2.0 interface; no need for cables, cradles or docks
- Large storage capacity: Up to 16,000 pairs of humidity and temperature readings
- 3-1/2-digit LCD displays real-time temperature and RH readings, device working status and “memory full” (HT20 and HT50 only)
- Built-in IR thermometer for checking temperature of vents and surfaces (HT50 only)
- Included software is used to set sampling time & Hi/Lo temp and RH alarm setpoints
- Software also calculates dew point and wet bulb temperatures, and mixing ratio as GPP (Grains per Pound) or GPK (Grams per Kilogram)
- One-click exporting of logs to Excel or Word
- Long battery life (up to one year)

### INCLUDES:

- Windows®-Compatible CurveViewer Software
- USB Extension Cable • Battery
- User’s Manual • 1-Year Limited Warranty

UPC	NO.
01501 8	<b>HT10</b>
01503 2	<b>HT20</b>
01504 9	<b>HT50</b>
72015 8	<b>BA10</b> Extra “1/2 AA” Battery (optional)



## SPECIFICATIONS

Model No.	HT10	HT20	HT50
Name	USB RH/Temp/GPP Data Logger w/LEDs	USB RH/Temp/GPP Data Logger w/LCD	USB RH/Temp/GPP Data Logger w/LCD & IRT
Temperature Measurement Range/Accuracy	-4° to 158°F (-20° to 70°C)/±1.8°F (1°C) from 14° to 104°F (-10° to 40°C); ±3.6°F (2°C) elsewhere in range		
Temperature Measurement Resolution	±0.2°F (0.1°C)		
RH Measurement Range/Accuracy	0 to 100%/±3% from 20 to 80%RH, ±3.5% elsewhere		
RH Measurement Resolution	0.1%		
GPP Measurement Range	0 to 1500 GPP (0 to 285g/kg)		
Internal Storage Capacity	16,000 pairs of RH & temp readings	16,000 pairs of RH & temp readings/10,000 RH & temp sets + IR readings	
IRT Measurement Range	N/A	-4° to 482°F (-20° to 250°C)	
IRT Measurement Accuracy/Resolution	N/A	±5°F (3°C) below 32°F (0°C); ±4°F (2°C) above 32°F/±0.2°F (0.1°C)	
IRT Distance-to-Spot Ratio	N/A	2:1	
IRT Emissivity	N/A	0.95 (fixed)	
IRT Response Time	N/A	0.5 seconds	
Laser Power	N/A	<1mW (Class 2)	
Dimensions	4.96 x 1.10 x 2.01 in. (126 x 28 x 51mm)		4.92 x 1.69 x 0.91 in. (125 x 43 x 23mm)
Weight	<7 oz. (<200g)		
Power Source	3.6V Non-rechargeable Lithium-Ion Battery (Type SB-AA02)		
What’s Included	Battery, Software, USB Extension Cable, User’s Manual		
Battery Life (typical)	1 year		
Limited Warranty Term	1 year		

## JUMBO DISPLAY HUMIDITY AND TEMPERATURE MONITOR – DTH03A

Ideal for measuring, monitoring and displaying temperature and humidity.

### FEATURES:

- Displays humidity and temperature
- Min/Max temperature and humidity memory
- °F/°C slide switch

### SPECIFICATIONS:

- ◆ Temperature Measurement Range: 32° to 122°F (0° to 50°C)
- ◆ Relative Humidity Measurement Range: 20 to 95%
- ◆ Temperature, RH Resolutions: 0.1° (F or C), 1% RH

- ◆ Display Size: 3.2 x 2.3 in. (80 x 58mm) with 0.9 in. (23mm) high digits
- ◆ 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)

### INCLUDES:

- Battery • User’s Manual
- 1-Year Limited Warranty

UPC	NO.
11040 9	<b>DTH03A</b>



**DTH03A**

**N** Indicates optional NIST calibration is available



MSHA Approved



CGD900

## INTRINSICALLY SAFE COMBUSTIBLE GAS LEAK DETECTOR – CGD900

Ideal for detecting more combustible gases (including hydrocarbons) than competitive units.

### FEATURES:

- Detects Methane, Propane, Ethane, Butane, Hydrogen, Ethylene, Ethanol, ISO-Butane, NOL, Gasoline, Acetylene, Methyl Ether, Ammonia, Hydrogen Sulfide, Industrial solvents, Benzene, Alcohols, Acetone, Toluene, Xylene
- MSHA approved
- Intrinsically safe (in methane-air only)
- Numeric LED display of sensitivity
- Heated sensor technology
- Ultra sensitive to methane gas
- Long life sensor
- Unique digital leak size alarm
- Automatic calibration
- Alarm mute mode
- 3 LED sensitivity levels

### SPECIFICATIONS:

- ◆ Sensitivity: As low as 5ppm (methane)
- ◆ Sensor Life: 300+ hours
- ◆ Response Time: Instantaneous
- ◆ Warm-up Time: <10 seconds
- ◆ Calibration: Automatic
- ◆ Probe Length: 17 in. (432mm)
- ◆ Display: Bright LED-visible in sunlight
- ◆ Dimensions: 13.75 x 10.00 x 3.25 in. (349 x 254 x 83mm)
- ◆ Weight: 2.0 lbs. (907g)
- ◆ Power Source: 4 "AA" batteries (included)
- ◆ Battery Life: 20 hours continuous use

### INCLUDES:

- Test Vial • Batteries • User's Manual
- 2-Year Limited Warranty

UPC	NO.
01449 3	CGD900

## COMBUSTIBLE GAS LEAK DETECTOR – NGD8800

Ideal for industrial uses, HVAC/R, plumbing and plant maintenance.

### FEATURES:

- Detects Methane, Hydrogen, Iso-Butane, Ethanol, Ethylene, Tetrachloroethylene, Dimethyl Sulfide, Toluene, Formaldehyde, Diethyl-Ether, Ethyl-Acetate, Dichloromethane, Ammonia, R-22
- Uses DSP (Digital Signal Processing)
- Multi-color circular bar graph
- Semiconductor gas sensor
- Leak size indication (audible/visible)
- Fast warm-up
- Adjustable Hi/Lo sensitivity
- Low battery indication
- Sensing tip protector
- 15.5 in. (395mm) flexible gooseneck probe

### SPECIFICATIONS:

- ◆ Sensitivity: Variable; as low as 5ppm (gasoline)
- ◆ Warm-Up Time: <110 seconds (at 25°C, 60%RH)
- ◆ Operating Temperature: 32° to 104°F (0° to 40°C)
- ◆ Dimensions: 6.8 x 2.6 x 2.2 in. (173 x 66 x 56mm)
- ◆ Weight: 14.5 oz. (410g)
- ◆ Power Source: 4 "AA" batteries (included)
- ◆ Battery Life: up to 20 hours (approx.)

### INCLUDES:

- Leak Check Bottle • Operating Instructions
- Hard Carrying Case • Batteries
- 1-Year Limited Warranty

UPC	NO.
40880 3	NGD8800
01389 2	NGD8800SEN Replacement sensor

## COMBUSTIBLE GAS DETECTOR WITH WIDE OPERATING RANGE FOR EXTREME WEATHER CONDITIONS – NGD268

Ideal for detecting all combustible gases.

### FEATURES:

- Detects Methane, Natural Gases, Coal Gases, Hexane, Propane, Ethane, Butane, Pentane, Isopropyl Alcohol, Halogenated Hydrocarbons (Methanol, Ethanol, Butanol), Ether, Ketones (Butone, Propane), Hydrogen, Toluene, Gasoline, Industrial Solvents, Lacquers, Refrigerants, Sulfur Dioxide, Ammonia, Sulfured Hydrogen, Acetic Acid
- Quick response
- Long and flexible gooseneck probe
- Adjustable sensitivity
- 30 level light/Tricolor LED indication
- Low battery indicator
- Sensor self-fault detection
- High concentration protection

- ◆ Warmup Time: 20 sec.
- ◆ Response Time: <10 seconds
- ◆ Alarm Levels: Low level - Green - 20% LEL (Lower Explosive Limit)
- Med level - Yellow
- High level - Red - 50% LEL
- ◆ Charge time: 4 to 6 hours
- ◆ Dimensions: 6.7 x 2.4 x 1 in. (170 x 62 x 26mm)
- ◆ Weight: 12.4 oz. (350g)
- ◆ Power Source: 1 "4.8V" rechargeable battery (included)
- ◆ Battery life: up to 8 hours (approx.)

### INCLUDES:

- AC Power Adaptor • Operating Instructions
- Battery • 1-Year Limited Warranty

UPC	NO.
41537 5	NGD268



NGD268

# Gas, CO & Refrigerant Leak Detectors

## COMBUSTIBLE GAS DETECTOR PEN – PNG2000A

Ideal for detecting leaks of natural gas, propane or butane from plumbing and appliances.

### FEATURES:

- Sensitive, reliable and easy to operate
- Fast response time
- Redundant visual and audible alarms
- Auto-calibrating
- Malfunction and low battery alerts

### SPECIFICATIONS:

- ◆ Range: 0 to 100%LEL
- ◆ Response Time: < 5 seconds
- ◆ 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
- ◆ Dimensions: 7.6 (L) x 1.2 (Dia) in. (193 x 30mm)
- ◆ Weight: 4 oz. (113g)
- ◆ Power Source: 2 "AA" batteries (included)

### INCLUDES:

- Wrist Strap • Batteries • User's Manual
- 1-Year Limited Warranty

UPC	NO.
41501 6	PNG2000A



PNG2000A

## DIGITAL CO DETECTOR WITH AUTO ZERO – DCO1001

Ideal for HVAC home, office, tunnels, mines, etc.

### FEATURES:

- Adjustable CO warning level
- 2-line backlit LCD
- Auto max level display with reset
- Auto-calibrates at 0, 100 and 500 ppm
- 15-second self-test at startup
- Also measures and displays temperature
- °F/°C switch
- 15-minute Auto Power Off

### SPECIFICATIONS:

- ◆ Measurement Range: 0 to 999ppm
- ◆ Resolution: 1ppm
- ◆ Accuracy: ±20% from 0 to 100ppm; ±15% from 100 to 500 ppm

- ◆ Dimensions: 7 x 1.7 x 1.1 in. (178 x 43 x 28mm)
- ◆ Weight: 4 oz. (113g)
- ◆ Power Source: 3 "AAA" batteries (included)
- ◆ Battery Life: 250 hours with the backlight off; and 35 hours with the backlight on

### INCLUDES:

- Wrist Strap
- Carrying Pouch
- Batteries
- User's Manual
- 1-Year Limited Warranty

UPC	NO.
41655 6	DCO1001



CE  
RoHS

DCO1001

## DIGITAL REFRIGERANT LEAK DETECTOR WITH PUMP – RLD400

Ideal for electronic sensing—the most widely used, sensitive and accurate method of refrigerant leak detection. New proprietary semiconductor sensor detects many new ozone layer-friendly refrigerants approved under the U.S. EPA's Significant New Alternatives Policy (SNAP).

### FEATURES:

- Proprietary sensor with lifetime of more than 300 hours of operation (ten years of normal use)
- Detects all commercially available HFC, HFO, HC, HCFC and CFC refrigerants as well as blends and newly approved replacements such as R-22 and R-1234yf
- Triple-redundant leak indication (loud fast beep, bright flashing LED, digital leak size reading)
- True mechanical pump draws in samples, increasing sensitivity
- Three sensitivity levels
- Fast warmup
- Comfortable neoprene grip
- Automatic calibration and reset to ambient levels
- Muteable beeper
- Garage-durable construction
- Made in U.S.A.
- SAE J2791 and J2913 certified
- Complies with European standard EN 14624
- CE, RoHS, WEEE approved

### SPECIFICATIONS:

- ◆ Sensitivities: 0.05 oz./yr (1.4 g/yr) for R-134a; 0.025 oz./yr (0.7g/yr) for R-22
- ◆ Refrigerants Detected: R-134a, R-410a, R-404a, R-407c, R-507, CFC-12 (R-12 or Freon), R-22, R-1234yf
- ◆ Detection Modalities: Sound, light, leak size measure
- ◆ Sensor Type: Proprietary solid electrolyte semiconductor
- ◆ Sensor Life: >300 hours (ten years' normal use)
- ◆ Warmup Time: 17–20 seconds
- ◆ Response Time: Instantaneous
- ◆ Display Type, Size: 7-segment red LED, 0.6 in. (15mm) high
- ◆ Dimensions of Instrument: 6.8 x 2.6 x 2.2 in. (173 x 66 x 56mm) w/17 in. (432mm) probe
- ◆ Weight of Instrument: 1.5 lb. (680g)
- ◆ Power Source: 4 "AA" batteries (included)
- ◆ Battery Life: 5 hours continuous operation (typical)



CE  
RoHS

MADE IN  
USA

RLD400

### INCLUDES:

- Padded Hard Case • Leak Test Vial
- Batteries • User's Manual
- 2-Year Limited Warranty (including sensor)

UPC	NO.
01587 2	RLD400



RLD380L

### HIGH-PERFORMANCE REFRIGERANT LEAK DETECTOR – RLD380L

Ideal for HVAC/R, industrial and automotive applications.

#### FEATURES:

- Detects R-134a, R-404A, R-407C, R-410A, R-22 (Freon)
- Uses semiconductor sensor and digital signal processing
- Color-coded display of Hi and Lo leak levels
- Hi/Lo sensitivity switch
- Includes flexible stainless steel gooseneck probe, reference source
- Fast warmup
- Redundant audible and visual alarms
- Ambient refrigerant concentration reset
- Auto power off
- Low battery alert
- CE, RoHS, WEEE approved

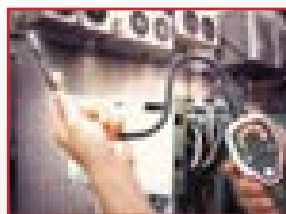
#### SPECIFICATIONS:

- ◆ Sensitivities: 6g/yr (Hi) and 30g/yr (Lo) for R-134a, R-22; 8g/yr (Hi) and 40g/yr (Lo) for R-404A, R-407C, R-410A
- ◆ Warmup Time: 90 seconds
- ◆ Auto Power Off: 10 minutes of inactivity
- ◆ Probe Length: 15.5 in. (394mm)
- ◆ Operating Altitude: <6500 ft. (1980m)
- ◆ 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"H x 2.6"W x 2.2"D (173 x 66 x 56mm)
- ◆ Weight: 14.1 oz. (400g)
- ◆ Power Source: 4 "AA" batteries (included)
- ◆ Battery Life: 40 hours of normal use

#### INCLUDES:

- Leak Check Bottle
- Molded Hard Case
- Batteries
- User's Manual
- 1-Year Limited Warranty

UPC	NO.
40141 5	RLD380L
01378 6	RS380 Replacement Sensor



RLD382P

### HIGH-PERFORMANCE REFRIGERANT LEAK DETECTOR WITH PUMP – RLD382P

Ideal for HVAC/R, industrial and automotive applications requiring greater sensitivity.

#### FEATURES:

- Detects R-134a, R-404A, R-407C, R-410A, R-22 (Freon)
- Uses pump to draw in gas, increasing sensitivity
- Also uses semiconductor sensor and digital signal processing
- Three-color display of Hi, Medium, Lo leak levels
- Hi/Lo sensitivity switch
- Includes flexible stainless steel gooseneck probe, reference source
- Fast warmup
- Redundant audible and visual alarms
- Ambient refrigerant concentration reset
- Auto power off
- Low battery alert
- CE, RoHS, WEEE approved

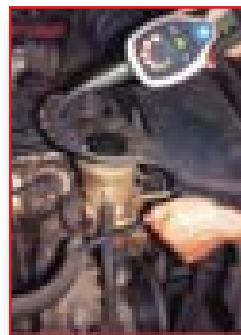
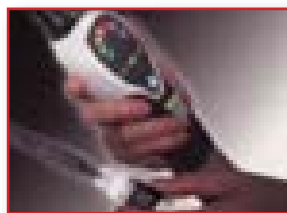
#### SPECIFICATIONS:

- ◆ Sensitivities: 3g/yr (Hi), 15g/yr (Med) and 30g/yr (Lo) for R-134a, R-22; 4g/yr (Hi), 20g/yr (Med) and 40g/yr (Lo) for R-404A, R-407C, R-410A
- ◆ Warmup Time: 45 seconds
- ◆ Auto Power Off: 10 minutes of inactivity
- ◆ Probe Length: 15.5 in. (394mm)
- ◆ Operating Altitude: <6500 ft. (1980m)
- ◆ 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)
- ◆ Weight: 14.1 oz. (400g)
- ◆ Power Source: 4 "AA" batteries (included)
- ◆ Battery Life: 7 hours of normal use
- ◆ Warranty: 1-year (limited)

#### INCLUDES:

- Leak Check Bottle
- Molded Hard Case
- Batteries
- User's Manual
- 1-Year Limited Warranty

UPC	NO.
00382 4	RLD382P
01378 6	RS380 Replacement Sensor



# Data Logging Hot Wire Anemometer

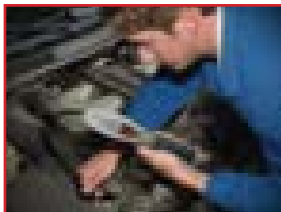
## DIGITAL DUAL MODE REFRIGERANT LEAK DETECTOR – RLD440

Uses UV LEDs to spot leaks of fluorescent dye injected into an A/C system.

A proprietary semiconductor sensor then gauges and displays the size of the leak.

### FEATURES:

- Proprietary sensor with lifetime of >300 hours of operation (ten years' normal use)
- Detects all commercially available HFC, HFO, HC, HCFC, and CFC refrigerants
- Quadruple-redundant leak indicators: UV dye fluorescence, loud fast beep, bright flashing LED and digital leak size reading
- True mechanical pump draws in samples, increasing sensitivity
- Sensitivity of 0.05 oz./year (1.4g/year) to R-134a
- Automatic calibration and reset to ambient levels
- Three sensitivity levels
- Fast warmup
- Padded hard plastic case
- Garage-durable construction
- Leak test vial
- Made in the U.S.A.
- 2 year warranty includes sensor



### SPECIFICATIONS:

- ◆ Refrigerants Detected: R-134a, R-410a, R-404a, R-407c, R-507, CFC-12 (R-12 or Freon), R-22, R-290, R-441A, R-600a, R-1234yf
- ◆ Sensitivities: 0.05 oz./yr (1.4 g/yr) to R-134a; 0.025 oz./yr (0.7g/yr) to R-22
- ◆ Sensor Type: Proprietary solid electrolyte semiconductor
- ◆ Warmup Time: 17-20 seconds
- ◆ Display Type, Size: 7-segment red LED, 0.6 in. (15mm) high
- ◆ Dimensions of Instrument: 6.8 x 2.6 x 2.2 in. (173 x 66 x 56mm) w/17 in. (432mm) probe
- ◆ Weight of Instrument: 1.5 lb. (680g)
- ◆ Complies with SAE Standards J2791 and J2913, European Standard EN14624
- ◆ Power Source: 4 "AA" batteries (included)
- ◆ Battery Life: 5 hours continuous operation (typical)

### INCLUDES:

- Leak Test Vial • (5) Spare Sensor Filters,
- 4 "AA" Batteries • Hard Plastic Carrying Case
- User's Manual • 2-Year Limited Warranty

UPC	NO.
01675 6	RLD440



RLD440

## DATA LOGGING HOT WIRE ANEMOMETER WITH CFM/CMM AND 8:1 OR 30:1 IR THERMOMETER – CIH20DL, CIH30DL

Ideal for low FPM applications.

### FEATURES:

- Measures and displays air speed or airflow volume in several Imperial or metric units
- Simultaneously measures and displays ambient temperature from 32° to 158°F (0° to 70°C) in °F or °C with ±2% accuracy
- Measures air speeds from 2 ft/min to 7874 ft/min (20 mm/sec to 40 m/sec) with ±3% accuracy
- Measures airflow volumes from 0 to 2.5 million CFM (0 to 72,000 CMM) with ±3% accuracy
- Displays maximum, minimum or maximum air speed plus temperature
- Also has 8:1 or 30:1 infrared thermometer for remote, non-contact measurement of surface temperatures from -25° to 999°F (-32° to 538°C) with ±3% accuracy
- Telescoping probe and cable extend reach of hot wire sensor and thermistor to up to 6 ft. (1.8m)
- Jumbo backlit LCD with three readouts
- Stores/recalls up to nine sets of three readings in nonvolatile memory
- Time-stamps and saves up to 20,000 data points at user-selected sampling rate from 5 seconds to 1 hour
- Included USB cable and interface/data logging software enable transfer of stored data logs from the meter's internal memory to a PC for tabular or graphic display and analysis
- Data hold and auto power off functions
- CE and RoHS approved

### SPECIFICATIONS:

- ◆ Air Flow Volume Measurement Range/Resolution: 0 to 2,542,700 CFM (0 to 72,000 CMM)/0.01 CFM (0.001 CMM)
- ◆ Air Speed Measurement Range/Accuracy: 2 to 7874 ft./min (20 mm/sec to 40 m/sec)/±3%
- ◆ IR Thermometer CIH20DL D:S ratio: 8:1
- ◆ IR Thermometer CIH30DL D:S ratio: 30:1
- ◆ IR Thermometer Emissivity: 0.95 (fixed)
- ◆ IR Thermometer Measurement Range: -25° to 999°F (-32° to 537°C)
- ◆ IR Thermometer Measurement Accuracy: ±3.6°F (2°C) from -4° to 212°F (-20° to 100°C)
- ◆ IR Thermometer Measurement Resolution: 0.1°max/ (F or C)
- ◆ IRT Laser Power: <1mW (Class 2)
- ◆ Memory: Nine readings + Max/Min/Avg + Data Hold
- ◆ Extended length of telescoping hot wire probe: 70.8 in. (1.8m)
- ◆ Dimensions: 7.24 x 2.75 x 1.57 in. (184 x 70 x 40mm)
- ◆ Weight: 11.3 oz. (320g)
- ◆ Power Source: 1 "9V" battery (included)

### INCLUDES:

- USB cable • PC Data Logging Software
- AC Adaptor • Hard Carrying Case
- Battery • User's Manual
- 1-Year Limited Warranty

UPC	NO.
01498 1	CIH20DL
01681 7	CIH30DL



CIH20DL  
N  
CIH30DL  
N

**Laser radiation!**  
Do not stare into beam!



CE  
RoHS

DCFM8906

N

**DIGITAL ONE PIECE AIRFLOW METER WITH CFM DISPLAY – DCFM8906**

Ideal for measuring airflow speed and volume output of exhaust fans and blowers.

**FEATURES:**

- Measures and displays CFM, CMM, FPM, temperature and knots
- One-handed airflow measurement
- RS-232 output jack; optional PC data logging kit includes RS-232 to USB adaptor
- Auto Power Off (can be disabled for data logging)
- Calculates and displays average, minimum, and maximum air speed and airflow volume readings at one point or up to eight points
- Data hold
- °F/°C switch
- CE and RoHS approved

- ◆ Airflow Measurement Accuracy/Resolution:  $\pm 3\%/1$  ft./min (10mm/sec)
- ◆ Temperature Measurement Range: 14° to 122°F (-10° to 50°C)
- ◆ Temperature Measurement Accuracy/Resolution:  $\pm 2^\circ\text{F}$  ( $\pm 1^\circ\text{C}$ )/0.1°
- ◆ Display Size: 1.25 x 1.625 in. (31 x 41mm)
- ◆ Dimensions: 7 x 2.5 x 1.75 in. (183 x 76 x 45mm); Vane diameter: 2.8 in. (70mm)
- ◆ Power Source: 1 "9V" battery (included)

**INCLUDES:**

- Molded Hard Case
- Battery
- 1-Year Limited Warranty

UPC	NO.
40015 9	DCFM8906
12710 0	ASFTKIT PC Interface Kit (optional)
21014 7	Z110VADPT 9V AC/DC adaptor (optional)

CE  
RoHSDCFM8901  
DCFM8901CERT

N

**DIGITAL TWO PIECE AIRFLOW METER WITH RS-232 COMPUTER INTERFACE – DCFM8901**

Ideal for measuring airflow volume, airflow velocity, air temperature.

**FEATURES:**

- Measures and displays CFM, CMM, FPM, MPS and temperature
- Min/Max memory + data hold
- Single- and multi-point averages
- RS-232 output jack; optional PC data logging kit includes RS-232 to USB adaptor
- Auto Power Off (can be disabled for data logging)
- °F/°C switch
- CE and RoHS approved

- ◆ Temperature Measurement Accuracy/Resolution:  $\pm 1^\circ\text{F}$  ( $\pm 1^\circ\text{C}$ )/0.1°
- ◆ Cord Length: 20.5 in.; extends to 4.5 ft.
- ◆ Dimensions of Meter: 7.1 x 2.8 x 1.5 in. (181 x 71 x 38mm); Vane diameter: 2.9 in. (73mm)
- ◆ Weight of Meter: 10.4 oz. (295g)
- ◆ Power Source: 1 "9V" battery (included)

**INCLUDES:**

- Remote Vane/Temperature Probe
- Molded Hard Case
- Battery
- User's Manual
- 1-Year Limited Warranty

UPC	NO.
40005 0	DCFM8901
40006 7	P8901 Replacement Vane/Temperature Probe (optional)
12710 0	ASFTKIT PC Interface Kit (optional)
21014 7	Z110VADPT 9V AC/DC adaptor (optional)

CE  
RoHS

DCFM700

N

**DIGITAL ANEMOMETER WITH CFM – DCFM700**

Ideal for measuring airflow speed and volume output of exhaust fans and blowers.

**FEATURES:**

- Measures and displays airflow velocity/volume + temperature
- Stores, recalls 10 values
- Min/Max memory
- Data hold function
- Low battery indication
- Auto power off
- CE and RoHS approved

- ◆ Temperature Measurement Accuracy/Resolution:  $\pm 0.9^\circ\text{F}$  ( $\pm 0.5^\circ\text{C}$ ) from 32° to 122°F (0° to 50°C);  $\pm 1.8^\circ\text{F}$  ( $\pm 1^\circ\text{C}$ ) elsewhere
- ◆ Operating Temperature: -14° to 158°F (-10° to 70°C)
- ◆ Storage Temperature: -14° to 158°F (-10° to 70°C)
- ◆ Sampling Period: 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)

**SPECIFICATIONS:**

- ◆ Airflow Volume Measurement Range: 0 to 99,999 CFM or CMM
- ◆ Airflow Velocity Measurement Range: 0 to 8800 ft./min (0 to 45 m/sec)
- ◆ Airflow Measurement Accuracy:  $\pm 2\%$
- ◆ Temperature Measurement Range: -58° to 158°F (-50° to 70°C)

**INCLUDES:**

- Molded Hard Case
- Batteries
- User's Manual
- 1-Year Limited Warranty

UPC	NO.
40700 4	DCFM700

## DIGITAL ALL-IN-ONE AIR FLOW METER WITH CFM, BTU, TEMP, HUMIDITY, DP, FPM, MPH, KPH, MPS, KNOTS AND WET BULB – WDCFM8912

Ideal for measuring airflow speed and volume output of exhaust fans and blowers.

### FEATURES:

- One-handed airflow measurement
- Min/Max memory + data hold
- Single- and multi-point averages
- RS-232 output jack; optional PC data logging kit includes RS-232 to USB adaptor
- Auto Power Off (can be disabled for data logging)
- °F/°C switch
- CE and RoHS approved

### SPECIFICATIONS:

- ◆ Airflow Volume Measurement Range: 0 to 99,999 CFM or CMM
- ◆ Airflow Velocity Measurement Range: 1 to 6840 ft./min (0.3 to 35 m/sec)
- ◆ Airflow Measurement Accuracy: ±5%
- ◆ Temperature Measurement Range: -4° to 140°F (-20° to 60°C)
- ◆ Temperature Measurement Accuracy: ±1°F (±0.6°C)

- ◆ RH Measurement Range: 10 to 90%
- ◆ RH Measurement Accuracy: ±3% of reading
- ◆ Dew Point/Wet Bulb Temperature Measurement Resolution: 0.1°F (0.1°C)
- ◆ Dimensions of Meter:  
Vane: 6.7 x 3 x 1.6 in. (170 x 77 x 40mm)  
Meter: 6.9 x 2.8 x 1.3 in. (175 x 70 x 33mm)
- ◆ Weight of Meter: 10.4 oz. (295 g)
- ◆ Power Source: 4 “AA” batteries (included) or optional 9V AC adaptor

### INCLUDES:

- Hard Case
- Batteries
- User’s Manual
- 1-Year Limited Warranty

UPC	NO.
01249 9	<b>WDCFM8912</b>
12710 0	ASFKIT PC Interface Kit (optional)
01291 8	P8912 Replacement Vane/Temperature Probe (optional)
21014 7	Z110VADPT 9V AC/DC adaptor (optional)



WDCFM8912



## HOT WIRE ANEMOMETER-THERMOMETER WITH EXCEL-FORMATTED DATA LOGGING SD CARD – HWA4214SD

Ideal for high accuracy measurements of air (wind) speeds as low as 0.5 mph and air temperatures within ±1.5°F (± 0.8°C).

### FEATURES:

- Includes telescoping air speed-temperature probe
- Displays air (wind) speed in meters/second, feet per minute, kilometers/hr, knots (nautical miles per hour), or miles per hour
- Measures air speeds down to 0.2 m/sec with 0.01 m/sec resolution (down to 40 ft/min with 1 ft/min resolution)
- Displays temperature in °F or °C
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Displays maximum and minimum readings and holds any reading
- Automatically logs measurements at sampling time settable from one second to one hour
- Also supports manual data logging and changing of SD card storage location
- Auto power off function

### SPECIFICATIONS:

- ◆ Display: 2.05 x 1.5 in. (52 x 38mm) LCD
- ◆ Parameters Measured: Air speed, temperature
- ◆ Measurement Range:
  - For air speed: 0.2 to 25 m/sec, 0.7 to 172 km/hr, 0.5 to 44.7 mph, 0.4 to 38.8 knots, 40 to 3940 ft/min
  - For temperature: 32° to 122°F (0° to 50°C)

- ◆ Measurement Accuracy:
  - For air speed: ± (5% + 0.1 m/sec), ± (5% + 0.3 km/hr), ± (5% + 0.2 mph), ± (5% + 0.2 knots), ± (5% + 20 ft/min)
  - For temperature: ± 1.5°F (± 0.8°C)
- ◆ Data Logging Sampling Time: 1 second to 1 hour
- ◆ Settable Parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, temperature unit, air speed unit, optional thermocouple type (K or J)
- ◆ Storable/Recallable Readings: Max, Min
- ◆ Operating Temperature: 32° to 122°F (0° to 50°C)
- ◆ Operating Relative Humidity: 0 to 85%
- ◆ Dimensions of Instrument: 7.99 x 2.99 x 1.50 in. (203 x 76 x 38mm)
- ◆ Weight of Instrument: 1.13 lb. (515g)
- ◆ Dimensions of Probe: 0.4724 in. (diameter) x 11.02 in. (collapsed)/37 in. (extended) (12mm x 280mm/940mm)
- ◆ Power Source: 6 “AA” batteries or optional 9-VDC AC adaptor

### INCLUDES:

- Hard Carrying Case
- Telescoping Air Speed/Temperature Probe
- 2 GB SD Memory Card
- User’s Manual
- 1-Year Limited Warranty

Patented



HWA4214SD



UPC	NO.
01456 1	<b>HWA4214SD</b>
01548 3	P4214SD Replacement Probe

### Optional Accessories:

- 01506 3 AC1 9VDC adapter for 110V power supply
- 25015 0 TPK500 -50° to 500°F “K” type thermocouple
- 25005 1 TPK05 -40° to 562°F “K” type thermocouple
- 25003 7 TPK03 -40° to 950°F “K” type thermocouple
- 01502 5 SDRD1 SD Card Reader

DM8252  
DM8252RS

### HIGH RESOLUTION DIGITAL MANOMETERS – DM8252, DM8252RS

Ideal for low static, negative pressure testing.

#### FEATURES:

- Digital display of gauge or differential pressure
- Display unit options: psi, inH<sub>2</sub>O, mmH<sub>2</sub>O, bar and mbar
- Bright backlight
- Min/Max memory + data hold
- RS-232 output jack; optional PC data logging kit includes RS-232 to USB adaptor
- Auto Power Off (can be disabled for data logging)

UPC	NO.
41216 9	DM8252
41220 6	DM8252RS w/4 Rubber Stoppers for Duct Smoke Detectors
12710 0	ASFTKIT PC Interface Kit (optional)
21014 7	Z110VADPT—9V AC/DC adaptor (optional)

#### SPECIFICATIONS:

- ◆ Measurement Ranges:  
DM8252: 0 to 2 psi  
DM8215: 0 to 15 psi  
DM8200: 0 to 100 psi
- ◆ Accuracy: ±0.3%
- ◆ Resolution (bar): 0.01
- ◆ Response Time: 0.5 seconds
- ◆ Operating Temperature:  
32° to 122°F (0° to 50°C)
- ◆ Dimensions:  
7.2 x 2.8 x 1.2 in. (182 x 72 x 30mm)
- ◆ Weight: 7.6 oz. (215g)
- ◆ Power Source: 1 “9V” battery (included)

#### INCLUDES:

- Connection Hose
- Molded Hard Case
- Battery
- User’s Manual
- 1-Year Limited Warranty



DM8215



### DELUXE DIGITAL MANOMETER – DM8215

Ideal for industrial pressure testing.

#### FEATURES:

- Digital display of gauge or differential pressure
- Display unit options: psi, inH<sub>2</sub>O, bar, mmHg, ozin<sup>2</sup>, kgcm<sup>2</sup>, kPa, ftH<sub>2</sub>O, inHg, cmH<sub>2</sub>O & mbar
- Min/Max memory + data hold
- RS-232 output jack; optional PC data logging kit includes RS-232 to USB adaptor
- Auto Power Off (can be disabled for data logging)

#### SPECIFICATIONS:

- ◆ Measurement Range/Resolution:  
0 to 15 psi/0.01 psi
- ◆ Measurement Accuracy: ±3% of full scale value
- ◆ Response Time: 0.5 seconds
- ◆ Operating Temperature:  
32° to 122°F (0° to 50°C)

- ◆ Dimensions:  
7.2 x 2.8 x 1.2 in. (182 x 72 x 30mm)
- ◆ Weight: 7.6 oz. (215g)
- ◆ Power Source: 1 “9V” battery (included)

#### INCLUDES:

- Connection Hose
- Molded Hard Case
- Battery
- User’s Manual
- 1-Year Limited Warranty

UPC	NO.
41215 2	DM8215
12710 0	ASFTKIT PC Interface Kit (optional)
21014 7	Z110VADPT—9V AC/DC adaptor (optional)

### HYDROGAUGE MANOMETER – HG15

A reliable, inexpensive tool for making pressure measurements.

#### FEATURES:

- 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, eliminates troublesome air bubbles
- Strong magnet for mounting
- Heavy-duty construction
- Made of industrial grade, flexible PVC plastic
- Lightweight
- Easy to use

#### SPECIFICATIONS:

- ◆ Water Column Height: 15 in. (381mm)
- ◆ Hose Fitting: All brass
- ◆ Hose Length: 30 to 36 in. (762 to 914mm)
- ◆ Dimensions: 24.00 x 3.50 x 0.88 in. (610 x 89 x 22mm)
- ◆ Weight: 5.50 oz. (156g)

#### INCLUDES:

- Mounting Magnet
- 1-Year Limited Warranty

UPC	NO.
41225 1	HG15



HG15

## PRESSURE METER WITH EXCEL-FORMATTED DATA LOGGING SD CARD – PM930SD

Ideal for high accuracy measurements of hydraulic or pneumatic pressure using ten different units.

### FEATURES:

- Measures hydraulic or pneumatic pressure using optional sensors with full-scale ranges from 2 to 400 bar
- Choose a sensor with the right range for your application from the list at lower right
- Sensors calibrated by single push of a button
- Ten different pressure units available
- Min/Max memory + data hold
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Auto power off (can be disabled for data logging)

### SPECIFICATIONS:

- ◆ Display Size: 2.05 x 1.5 in. (52 x 38mm)
- ◆ Displayed Pressure Unit: bar, psi, inches Hg, inches H<sub>2</sub>O, hPA, kPA, kg/cm<sup>2</sup>, mm Hg, meters H<sub>2</sub>O, atmospheres
- ◆ Measurement Accuracy: ± 0.5% of full-scale reading + 1 digit
- ◆ Data Logging Sampling Time: 1 second to 9 hours
- ◆ Operating Temperature: 32° to 122°F (0° to 50°C) @<85%RH

- ◆ Dimensions: 6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)
- ◆ Weight: 0.77 lb. (350g)
- ◆ Power Source: 6 "AA" batteries (not included) or optional 9-VDC AC adaptor

### INCLUDES:

- Molded hard Case
- 2 GB SD Memory Card
- User's Manual
- 1-Year Limited Warranty

UPC	NO.
01450 9	PM930SD

### Optional Accessories:

01506 3	AC1 9VDC adapter for 110V power supply
01491 2	PS2 2 bar full-scale pressure sensor
01528 5	PS5 5 bar full-scale Pressure sensor
01527 8	PS10 10 bar full-scale Pressure sensor
01532 2	PS50 50 bar full-scale Pressure sensor
01533 9	PS100 100 bar full-scale Pressure sensor
01534 6	PS400 400 bar full-scale Pressure sensor
01502 5	SDRD1 SD Card Reader



PM930SD  
N

## GAS PRESSURE TEST KIT – GPK005, GPK015, GPK035

Ruggedized for heavy-duty field use.

### FEATURES:

- 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 2.5 in. diameter diaphragm gauge is calibrated in inches of water column, also shows ounces per square inch (GPK015/GPK035 only); GPK005 is calibrated in psi and meets requirements of the New York City Fuel Gas Code (2008)
- Magnified lens
- Easier to use than a manometer

### SPECIFICATIONS:

- ◆ Measurement Range **GPK005**: 0 to 5 psi
- ◆ Measurement Range **GPK015**: 0 to 15 inches of water column (in. H<sub>2</sub>O) 0 to 9 ounces per square inch (oz./in<sup>2</sup>)

- ◆ Measurement Range **GPK035**: 0 to 35 inches of water column (in. H<sub>2</sub>O) 0 to 20 ounces per square inch (oz./in<sup>2</sup>)
- ◆ Measurement Accuracy **GPK005/015/035**: ±2 from 25% to 75% of full scale; ±3% elsewhere

### INCLUDES:

- 2.5 in. (64mm) Diameter Diaphragm Gauge
- 39 in. (991mm) of Rubber Tubing
- 3/8 in. (10mm)NPT Brass Fitting for Quick Connection to Appliance Manifold
- Hose Clamp
- Molded Hard Case
- 1-Year Limited Warranty

UPC	NO.
01585 8	GPK005
41240 4	GPK015
41230 5	GPK035



GPK005

GPK015

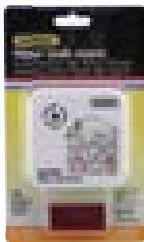
GPK035







**WA500**



**WATER ALARM – WA500**

**Ideal for detecting leaks from HVAC systems, plumbing, appliances, water heaters etc.**

**FEATURES:**

- Alarm sounds when water is detected
- Helps reduce water damage
- Finds mold-causing moisture
- Low battery indicator

**SPECIFICATIONS:**

- ◆ Dimensions: 4.3 x 4.3 x 1 in. (109 x 109 x 25mm)
- ◆ Weight: 4 oz. (113g)
- ◆ Power Source: 1 “9V” battery (included)
- ◆ 1-Year Limited Warranty

UPC	NO.
80140 8	WA500



**REF401**

**REFRACTOMETER – REF401**

**Ideal for testing Polyglycol/Antifreeze.**

**FEATURES:**

- Used to check freezing point of Glycol from -60° to 32°F at Specific Gravity of 1.15 to 1.3 with 10°F resolution

**SPECIFICATIONS:**

- ◆ Dimensions: 8.75 x 3.00 x 2.00in. (220 x 76 x 51mm)
- ◆ Weight: 8.90 oz. (252g)

**INCLUDES:**

- Calibration screwdriver
- Plastic pipette
- Carrying case
- 1-Year Limited Warranty

UPC	NO.
44401 6	REF401



**DS300RC**

**DIGITAL CHARGING SCALE – DS300RC**

**Ideal for accurate charging of refrigerant containers.**

**FEATURES:**

- 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
- Displays readings in lb., oz. and kg
- Extra large LCD display
- Display unit is desk or wall mountable

- ◆ Operating Temperature: 32° to 115°F (0° to 45°C)
- ◆ Platform Dimensions: 8-3/4 x 8-3/4 in. (220 x 220mm)
- ◆ Weight: 116 oz. (3288g)
- ◆ Power Source: 1 “9V” battery (included)
- ◆ Battery Life: 40 hours (typical)

**SPECIFICATIONS:**

- ◆ Measurement Range: 0 to 220 lb. (0 to 100kg)
- ◆ Measurement Accuracy: ± 1%
- ◆ Resolution: 0.5 oz. (5g)

**INCLUDES:**

- Molded Hard Case
- Battery
- Operating Instructions
- 1-Year Limited Warranty

UPC	NO.
01245 1	DS300RC



**PCT2236B**



**CONTACT/NON-CONTACT LASER TACHOMETER – PCT2236B**

**Ideal for making rotational or linear speed measurements.**

**FEATURES:**

- Two measurement modes
- Auto power off (with disable)
- Wide measuring range
- Jumbo 5-digit LCD display
- Memory: Min/Max/Last
- Non-contact mode uses laser targeting

- ◆ Resolution: 0.1; RPM; (2.5 to 999 RPM); 1 RPM over 1,000 RPM)
- ◆ Sampling Period: 1 second
- ◆ Dimensions: 5.9 x 2 x 1.3 in. (150 x 51 x 33mm)
- ◆ Weight: 6.50 oz. (184.27g)
- ◆ Power Source: 4 “AA” batteries (included)
- ◆ Warranty: 1-year (limited)

**CONTACT SPECIFICATIONS:**

- ◆ Measurement Range: 0.5 to 99,999 RPM
- ◆ Accuracy: ±0.04% + 2 digits
- ◆ Resolution: 0.001; 0.01; 0.1; 1 RPM (depends on scale)
- ◆ Sampling Period: 1 second

**INCLUDES:**

- RPM Adaptors
- Adhesive Reflective Tape
- Hard Case
- Batteries
- User’s Manual
- 1-Year Limited Warranty

**NON-CONTACT SPECIFICATIONS:**

- ◆ Measurement Range: 2.5 to 99,999 RPM
- ◆ Accuracy: ±0.05% + 1 digit

UPC	NO.
42110 9	PCT2236B
43021 4	RT800 Reflective tape



## SPECIFICATIONS

Model No.	LT2234C	CT6235B	PCT2236B	PCT900
Name	Non-contact Laser Tachometer	Contact Tachometer	Contact/Non-contact Laser Tachometer	Combination Contact/Non-contact Laser Tachometer
Measurement Range	2.5 to 99,999 rpm	0.5 to 19,999 rpm	10 to 99,999 rpm	Non-contact: 6 to 99,999 rpm Contact: 6 to 25,000 rpm
Display	5-digit LCD	5-digit LCD	5-digit LCD	5-digit LCD
Accuracy	±0.05% of reading + 1 digit	±0.05% of reading + 1 digit	±0.04% of reading + 2 digits	±0.01% of reading +1 digit up to 6,000 rpm; ±0.05% of reading +1 digit above 6,000 rpm
Max Distance to Target (Non-contact mode)	20 in. (500mm)	n/a	20 in. (500mm)	39 in. (1m)
Memory	96 measurements + Min, Max, Last readings	96 measurements + Min, Max, Last readings	96 measurements + Min, Max, Last readings	40 points (10 each selectable Min, Max, Avg, Data measurements)
What's Included	Hard carrying case, reflective tape, batteries	Hard carrying case, rpm adapters, batteries	Hard carrying case, reflective tape, rpm adapters, batteries	Hard carrying case, reflective tape, rpm adapters, batteries

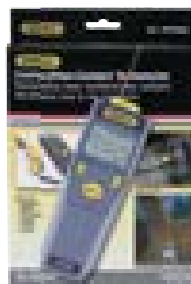
## COMBINATION CONTACT/NON-CONTACT LASER TACHOMETER – PCT900

Ideal for a wide variety of RPM and surface speed measurements.

### FEATURES:

- Counts total revolutions and measures rotational speeds as well as surface speeds and lengths
- Non-contact RPM measurements up to 1m from target
- Super-accurate (±0.01%) rpm measurements
- LCD display
- Auto power off
- 40 point memory: 10 selectable Max, Min, Avg and Data measurements
- CE and RoHS approved

- ◆ Length Measurement Range: 0.3 to 32,808 ft. (0.1 to 9,999m)
- ◆ Length/Surface Speed Measurement Accuracy: ±0.5% + 1 digit
- ◆ Response Time: 1 second
- ◆ Operating Temperature: 32° to 122°F (0° to 50°C)
- ◆ Dimensions: 7.75 x 1.93 x 1.14 in. (146 x 49 x 29mm)
- ◆ Weight: 1 lb. (451g) without battery
- ◆ Power Source: 1 "9V" battery (not included)



### SPECIFICATIONS:

- ◆ Rotational Speed Measurement Ranges: 6 to 25,000 rpm (contact), 6 to 99,999 rpm (non-contact)
- ◆ RPM Measurement Accuracy: ±0.01% + 1 digit from 6 to 6,000 rpm; ±0.05% + 1 digit above 6,000 rpm
- ◆ Surface Speed Measurement Range: 2 to 8202 ft./min (0.6 to 25,000 m/min)

### INCLUDES:

- Cone adapter
- Contact adapter
- Reflective tape
- Hard Case
- User's Manual
- 1-Year Limited Warranty
- Funnel adapter
- Master wheel (100mm)

UPC NO.  
40900 8 PCT900  
43021 4 RT800  
Reflective  
tape



CONTACT APPLICATION



NON-CONTACT APPLICATION — LASER SIMULATION



PCT900



**HVAC METER KIT – KHV57030**

Ideal for HVAC/R professionals who routinely measure surface temperature on contact or from a distance.



KHV57030

**KIT INCLUDES:**

- One DMM570 Rugged TRMS Multimeter with NCV Detection and 3-year limited warranty
- One IRT730K 30:1 Ultra Wide-Range IR Thermometer with "K" Port and 3-year limited warranty
- One pipe wrap thermocouple
- One "K" type bead thermocouple probe
- One "K" type stem thermocouple probe
- One adaptor for thermocouples with spade lugs
- One pair of CAT III 1000V rated test leads with alligator clips
- One magnetic meter hanging strap
- One custom padded carrying case
- Instrument batteries and user's manuals

UPC	NO.
01664 0	KHV57030

**ELECTRICIAN'S KIT – KEL57060**

Ideal for MRO professionals and electricians working residential and commercial jobs.



KEL57060

**KIT INCLUDES:**

- One DMM570 Rugged TRMS Multimeter with NCV Detection and 3-year limited warranty
- One DAMP60 Auto Ranging 600A AC Clamp Meter with 1-year limited warranty
- One "K" type stem thermocouple probe
- One adaptor for thermocouples with spade lugs
- One pair of CAT III 1000V rated test leads with alligator clips
- One pair of CAT III 600V rated test leads with hard points
- One magnetic meter hanging strap
- One custom padded carrying case
- Instrument batteries and user's manuals

UPC	NO.
01662 6	KEL57060

**HVAC DMM KIT – KHVP57068**

Ideal for HVAC/R professionals who routinely measure current.



KHVP57068

**KIT INCLUDES:**

- One DMM570 Rugged TRMS Multimeter with NCV Detection and 3-year limited warranty
- One DAMP68 Auto Ranging AC/DC TRMS 400A AC Clamp Meter with 1-year limited warranty
- One pipe wrap thermocouple
- One "K" type bead thermocouple probe
- One "K" type stem thermocouple probe
- One adaptor for thermocouples with spade lugs
- One pair of CAT III 1000V rated test leads with alligator clips
- One pair of CAT III 600V rated test leads with hard points
- One magnetic meter hanging strap
- One custom padded carrying case
- Instrument batteries and user's manuals

UPC	NO.
01663 3	KHVP57068

## HVAC &amp; Electrician's Multimeter Kits

**RUGGED TRMS MULTIMETER WITH NCV DETECTION – DMM570**

Ideal for electrical contractors, HVAC/R technicians and MRO professionals.

**FEATURES:**

- 19 functions, 48 ranges
- Measures AC/DC voltage, AC/DC current, resistance, capacitance, frequency, duty cycle
- Also measures temperature from -58° to 1112°F (-50° to 600°C) with included "K" type stem thermocouple
- IP54 water/dust/oil protection
- 6 ft. (1.8m) drop-resistant
- Designed to meet CAT III 1000V, CAT IV 600V safety standard
- Auto or manual ranging
- Non-contact voltage (NCV) detection
- Backlit 3-3/4 digit (6,600 count) dual readout LCD
- 66-segment fast-response analog bar graph at bottom of LCD
- Hold, Max, Min, Rel (Zero) display options
- CE approved • ETL certified

**SPECIFICATIONS:**

- ◆ DC Voltage Measurement Ranges: 0 to 660mV/6.6V/66V/600V/1000V
- ◆ AC Voltage Measurement Ranges: 0 to 660mV/6.6V/66V/600V/750V
- ◆ DC Voltage Measurement Accuracy:  $\pm(0.8\%$  of reading + 2 digits) or better
- ◆ AC Voltage Measurement Accuracy:  $\pm(1.5\%$  of reading + 2 digits) or better
- ◆ NCV Detection Range: 12 to 600VAC
- ◆ AC/DC Current Measurement Ranges: 0 to 660 $\mu$ A/6.6mA/6.6mA/660mA/10A
- ◆ DC Current Measurement Accuracy:  $\pm(2\%$  of reading + 5 digits) in 10A range;  $\pm(1\%$  of reading + 5 digits) in other ranges
- ◆ AC Current Measurement Accuracy:  $\pm(3\%$  of reading + 5 digits) in 10A range;  $\pm(1.5\%$  of reading + 5 digits) in other ranges
- ◆ Resistance Measurement Ranges: 0 to 660 $\Omega$ /6.6k $\Omega$ /66k $\Omega$ /660k $\Omega$ /6.6M $\Omega$ /66M $\Omega$

- ◆ Resistance Measurement Accuracy:  $\pm(0.8\%$  of reading + 5 digits)
- ◆ Capacitance Measurement Ranges: 0 to 6.6nF/66nF/660nF/6.6 $\mu$ F/66 $\mu$ F/660 $\mu$ F/6.6mF/66mF
- ◆ Capacitance Measurement Accuracy:  $\pm(3\%$  of reading + 5 digits)
- ◆ Temperature Measurement Range: 32° to 1832°F (0° to 1000°C)
- ◆ Temperature Measurement Accuracy:  $\pm(1\%$  of reading + 3 digits)
- ◆ Frequency Measurement Ranges (in AC Voltage mode w/12VAC input): 10 to 66Hz/660Hz/6.6kHz/10kHz
- ◆ Frequency Measurement Ranges (in Frequency mode w/5V p-p 1kHz square wave input): 0 to 66Hz/660Hz/6.6kHz/66kHz/660kHz/6.6MHz/66MHz
- ◆ Frequency Measurement Accuracy in AC Voltage and Frequency modes:  $\pm(1.5\%$  of reading + 5 digits)
- ◆ Dimensions: 6.9 x 3.3 x 2.1 in. (176 x 84 x 54mm)
- ◆ Weight: 13.4 oz. (380g)
- ◆ Power Source: 1 "9V" battery (included)

**INCLUDES:**

- "K" Type Stem Thermocouple Probe with -58° to 1112°F (-50° to 600°C) Range
- Adaptor for thermocouples with spade lugs
- CAT III 1000V/10A Rated Test Leads with Alligator Clips
- Magnetic Meter Hanging Strap
- Cloth Pouch with Belt Loop
- Battery • User's Manual
- 3-Year Limited Warranty

UPC	NO.
01642 8	DMM570



**DMM570**  
N

**30:1 ULTRA WIDE-RANGE IR THERMOMETER W/ "K" PORT – IRT730K**

Ideal for measuring high temperatures safely—from a distance. Industrial applications include operation and maintenance of furnaces and heat exchangers.

**FEATURES:**

- Adjustable emissivity
- Automatically stores last 100 readings for recall
- Min/Max/Avg/Dif displays
- Adjustable Hi and Lo temperature alarm setpoints
- Large backlit LCD w/dual 4-digit readouts
- Auto power off
- °F/°C and laser on/off buttons
- Low battery indicator

**SPECIFICATIONS:**

- ◆ IRT Distance to Spot (D:S) Ratio: 30:1
- ◆ IRT Emissivity: Adjustable from 0.1 to 1.0 in 0.01 steps with default of 0.95
- ◆ IRT Measurement Range: -58° to 1472°F (-50° to 800°C)

- ◆ IRT Measurement Accuracy:  $\pm 7.2^\circ\text{F}$  (4°C) from -58° to 32°F (-50° to 0°C);  $\pm 1.5\%$  of reading or  $\pm 3.6^\circ\text{F}$  (2°C), whichever is greater, from 32° to 752°F (0° to 400°C);  $\pm 2\%$  of reading or  $\pm 3.6^\circ\text{F}$  (2°C), whichever is greater, from 752° to 1472°F (400° to 800°C)
- ◆ Range/Accuracy of Included "K" Type Bead Thermocouple Probe: -40° to 500°F (-40° to 260°C)/  $\pm(2\%$  + 2 digits)
- ◆ Dimensions: 7.6 x 3.8 x 3.3 in. (192 x 95 x 83mm)
- ◆ Weight: 9.7 oz. (275g)
- ◆ Power Source: 1 "9V" battery (included)

**INCLUDES:**

- "K" Type Bead Thermocouple Probe
- Soft Pouch • Battery • User's Manual
- 3-Year Limited Warranty

UPC	NO.
01643 5	IRT730K



**Laser radiation!**  
Do not stare into beam!

**IRT730K**





CE

400A  
AC/DC  
TRMS

DAMP68

N

**AUTO RANGING AC/DC TRUE RMS 400 AMP CLAMP METER – DAMP68**

Ideal for HVAC/R technicians. Also measures capacitance, frequency and temperature.

**FEATURES:**

- 11 functions, 34 ranges
  - Measures temperature from -40° to 752°F (-40° to 400°C) using included "K" type thermocouple
  - Computes and displays True RMS values
  - Verifies integrity of diodes and checks circuits for continuity
  - Jumbo 3-3/4 digit (4000 count) backlit LCD + analog bar graph
  - Ergonomic design with rugged rubber housing
  - Hall effect clamp jaw
  - Auto and Manual ranging and MIN/MAX display options
  - Data HOLD and REL (zero) buttons
  - Safe for CAT III 600V use
  - CE approved
- ◆ Frequency Ranges / Accuracy: 0 to 100Hz/1kHz/10kHz/100kHz/1Mhz/10MHz /  $\pm 2\%$
  - ◆ Capacitance Ranges / Accuracy: 0 to 40nF/400nF/4 $\mu$ F/40 $\mu$ F/400 $\mu$ F/4000 $\mu$ F /  $\pm(4\% + 5 \text{ digits})$
  - ◆ Temperature Range (via "K" type thermocouple) / Accuracy: 40° to 752°F (-40° to 400°C)  $\pm(1.2\% + 6 \text{ digits})$  from 32° to 212°F
  - ◆ Maximum Resolutions: 0.1A, 0.1mV, 0.1 $\Omega$ , 0.01Hz, 0.01nF, 1°
  - ◆ Clamp Jaw Type / Opening: Coil-Type + Hall effect / 1.48 in. (37.5mm)
  - ◆ Dimensions: 11.38 x 6.25 x 2.75 in. / (289 x 159 x 70mm)
  - ◆ Weight: 19 oz. (539g)
  - ◆ Power Source: 3 "AAA" batteries (included)

**SPECIFICATIONS:**

- ◆ AC Current Measurement Range / Accuracy: 0 to 400A /  $\pm(3\% + 10 \text{ digits})$
- ◆ DC Current Range (via clamp) / Accuracy: 0 to 400A /  $\pm(3\% + 5 \text{ digits})$
- ◆ AC Voltage Ranges / Accuracy: 0 to 400mV/4V/40V/400V/600V /  $\pm(2\% + 10 \text{ digits})$  or better
- ◆ DC Voltage Ranges / Accuracy: 0 to 400mV/4V/40V/400V/600V /  $\pm(0.8\% + 5 \text{ digits})$
- ◆ Resistance Ranges / Accuracy: 0 to 400 $\Omega$ /4k $\Omega$ /40k $\Omega$ /400k $\Omega$ /4M $\Omega$ /40M $\Omega$  /  $\pm(2\% + 5 \text{ digits})$  or better

**INCLUDES:**

- "K" Type Stem Thermocouple Probe
- Test Leads
- Soft Carrying Case
- Batteries
- User's Manual
- 1-Year Limited Warranty

UPC	NO.
01369 4	DAMP68
01521 6	ACL10 15A Line Splitter (optional)

CE

600A  
AC

DAMP60

N

**AUTO RANGING 600A AC CLAMP METER – DAMP60**

Ideal for general-purpose work.

**FEATURES:**

- 7 functions, 19 ranges
  - Verifies integrity of diodes and checks circuits for continuity
  - Jumbo 3-1/2 digit (2000 count) backlit LCD
  - Ergonomic design with rugged rubber housing
  - Coil-type clamp jaw
  - Autoranging and MAX display options
  - Data HOLD and REL (zero) buttons
  - Safe for CAT III 600V use
  - CE approved
- ◆ Max Resolutions: 0.1A, 0.1mV, 0.1 $\Omega$ , 1Hz
  - ◆ Clamp Jaw Type / Opening: Coil type / 1.48 in. (37.5mm)
  - ◆ Dimensions: 11.25 x 6.13 x 2.75 in. / (286 x 156 x 70mm)
  - ◆ Weight: 17 oz. (482g)
  - ◆ Power Source: 2 "AAA" batteries (included)

**SPECIFICATIONS:**

- ◆ AC Current Measurement Ranges/Accuracy: 0 to 200A/600A /  $\pm(3\% + 5 \text{ digits})$
- ◆ AC Voltage Ranges / Accuracy: 0 to 2V/20V/200V/600V /  $\pm(1\% + 5 \text{ digits})$
- ◆ DC Voltage Ranges / Accuracy: 0 to 200mV/2V/20V/200V/600V /  $\pm(0.8\% + 5 \text{ digits})$
- ◆ Resistance Ranges / Accuracy: 0 to 200 $\Omega$ /2k $\Omega$ /20k $\Omega$ /200k $\Omega$ /2M $\Omega$ /20M $\Omega$  /  $\pm(2\% + 5 \text{ digits})$  or better
- ◆ Frequency Range / Accuracy: 10 to 1999Hz /  $\pm(3\% + 10 \text{ digits})$

**INCLUDES:**

- Test Leads
- Soft Carrying Case
- Batteries
- User's Manual
- 1-Year Limited Warranty

UPC	NO.
01356 4	DAMP60
01521 6	ACL10 15A Line Splitter (optional)

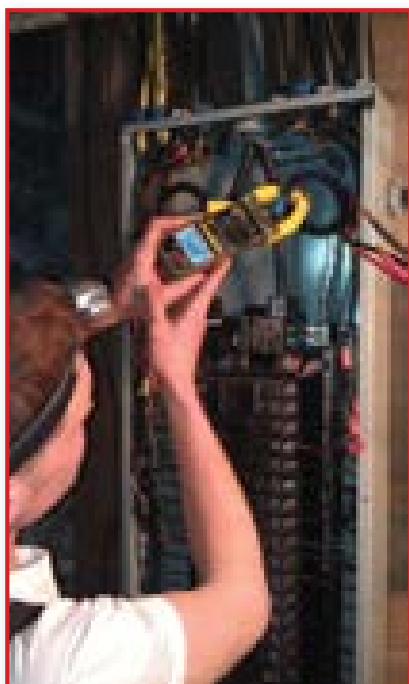
**RUGGED AUTO RANGING TRMS AC/DC CLAMP METERS WITH NCV DETECTION**

- **CM660: 0 TO 600A RANGE, 0.01A MAX RESOLUTION**
- **CM700: 0 TO 1000A RANGE, 0.1A MAX RESOLUTION**
- **CM770: 0 TO 1000A RANGE, 0.1A MAX RESOLUTION WITH INTEGRATED IRT**

Ideal for electricians, HVAC/R contractors, building maintenance professionals and maintenance/repair/operations (MRO) technicians

**FEATURES:**

- 16 functions, 49 ranges (CM660/CM700); 17 functions, 51 ranges (CM770)
- Measures temperature from -58° to 1112°F (-50° to 600°C) using included "K" type stem thermocouple
- Also measures surface temperature from -4° to 662°F (-20° to 350°C) using 6:1 D:S detachable IR thermometer with fixed emissivity and measurement hold button (CM770 only). When IRT is re-attached, its reading is optically coupled onto meter's display.
- Uses beeper to verify integrity of diodes and check circuits for continuity
- 0 to 200µA/2000µA AC/DC ranges for measuring flame rod current with 0.1µA/1µA resolution using included test leads
- Built-in Non-Contact Voltage (NCV) detector with 4 sensitivity settings & audible and visual alerts
- Large backlit digital LCD with two 6000-count readouts for simultaneous display of real-time current or voltage on primary readout and line frequency on secondary readout
- Fast-response analog bar graph
- Bright LED work light
- Auto and Manual ranging and MIN/MAX options
- Data HOLD and REL (zero) buttons
- **INRUSH** mode for measuring surge current during motor startup
- 1.65 in. (42mm) jaw opening (largest in its class) for conductors up to 550 MCM resists side torque
- Rugged housing can withstand multiple drops onto concrete from height of 5 ft. (1.6m)
- ETL certified CAT III 600V, CAT II 1000V

**SPECIFICATIONS:**

- ◆ AC Voltage Ranges / Accuracy: 0 to 600mV/6V/60V/600V/1000V /  $\pm(0.8\% + 3 \text{ digits})$
- ◆ DC Voltage Ranges / Accuracy: 0 to 600mV/6V/60V/600V/1000V /  $\pm(0.5\% + 3 \text{ digits})$
- ◆ AC Current Measurement Ranges / Accuracy: 0 to 60A/600A (CM660), 0 to 60A/600A/1000A (CM700/CM770) /  $\pm(1.8\% + 5 \text{ counts})$
- ◆ DC Current Ranges (via clamp) / Accuracy: 0 to 60A/600A (CM660), 0 to 60A/600A/1000A (CM700/CM770) /  $\pm(3\% + 5 \text{ digits})$
- ◆ Resistance Ranges / Accuracy: 0 to 600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ /  $\pm(0.8\% + 3 \text{ digits})@<1\text{M}\Omega$ ;  $\pm(1.2\% \text{ of reading} + 3 \text{ digits})@ \geq 1\text{M}\Omega$
- ◆ Frequency Ranges / Accuracy: 10Hz to 60Hz/600Hz/6kHz (clamp jaw); 10Hz to 60Hz/600Hz/6kHz/60kHz/600kHz/6MHz/60MHz (test leads) /  $\pm(1.5\% + 5 \text{ digits})$  (clamp jaw);  $\pm(0.3\% + 5 \text{ digits})$  (test leads in Hz mode)
- ◆ Capacitance Ranges / Accuracy: 0 to 6nF/60nF/600nF/6µF/60µF/600µF/6000µF/60,000µF /  $\pm(4\% + 5 \text{ digits})@>10\text{nF}$
- ◆ IRT Emissivity: Fixed at 0.95
- ◆ Laser Power (CM770 only): <1mW (Class 2)
- ◆ Temperature Range (via "K" type thermocouple) / Accuracy: -58° to 1112°F (-50° to 600°C) /  $\pm(2\% + 2 \text{ digits})$
- ◆ Temperature Range (via integrated IRT) / Accuracy (CM770 only): -58° to 1112°F (-50° to 600°C) /  $\pm 4.5^\circ\text{F}$  from -4° to 32°F;  $\pm(1.5\% + 3.6^\circ\text{F})$  from 32° to 662°F
- ◆ Duty Cycle Range / Accuracy: 1 to 99% /  $\pm 3\%$
- ◆ Maximum Resolutions: 0.1A (CM660), 0.01A (CM700/CM770), 0.1mV, 0.1Ω, 0.01Hz, 0.001nF, 2°F/1°C, 0.1%
- ◆ Clamp Jaw Opening: 1.65 in. (42mm)
- ◆ Dimensions of CM660/CM700: 8.86 x 3.31 x 1.30 in. / (225 x 84 x 33mm)
- ◆ Dimensions of CM770: 9.37 x 3.62 x 1.97 in. (238 x 92 x 50mm)
- ◆ Weight (including batteries): 14.8 oz. (420g)
- ◆ Power Source (included): 3 "AAA" batteries (CM660, CM700); 3 "AAA" batteries + 2 "LR44" batteries (CM770)

**INCLUDES:**

- Double-Insulated Test Leads with Screw-On Alligator Clips
- "K" Type Stem Thermocouple Probe and Plug Adaptor
- Batteries
- Soft Pouch
- User's Manual
- **3-Year Limited Warranty**

UPC	NO.
01629 9	<b>CM660</b>
01633 6	<b>CM700</b>
01640 4	<b>CM770</b>
01521 6	<b>ACL10 15A Line Splitter (optional)</b>



**NEW!**  
ETL  
CE  
600A  
AC/DC  
TRMS  
CM660  
N

ETL  
CE  
1000A  
AC/DC  
TRMS  
CM700  
N



**NEW!**  
ETL  
CE  
1000A  
AC/DC  
TRMS  
CM770

**Laser radiation!**  
Do not stare into beam!



# Clamp Meter Comparison Chart

Modern clamp meters combine a voltmeter and a current meter. Because the current meter responds to voltages induced by flows in the conductor within its jaws, clamp meters can measure larger currents than a multimeter – and in a safer manner.



CM700/CM770  
(see page 41)

CM660  
(see page 41)

DAMP68  
(see page 40)

DAMP60  
(see page 40)

## KEY FEATURES & SPECIFICATIONS COMPARISON

Model No.	CM700/CM770	CM660	DAMP68	DAMP60
Figure of Merit	16/17 Functions, 50/51 Ranges	16 Functions, 49 Ranges	11 Functions, 31 Ranges	7 Functions, 19 Ranges
NCV Detection Ranges	12 to 25VAC, 70 to 125VAC, 150 to 240VAC, 250 to 600VAC	12 to 25VAC, 70 to 125VAC, 150 to 240VAC, 250 to 600VAC	N/A	N/A
Safety Rating	CAT III 600V, CAT II 1000V	CAT III 600V, CAT II 1000V	CAT III 600V	CAT III 600V
Safety Listing (ETL, UL, CE)	ETL, CE	ETL, CE	CE	CE
Parameters Measured	AC/DC current, AC/DC voltage, resistance, frequency, continuity, diode integrity, capacitance, temperature, duty cycle	AC/DC current, AC/DC voltage, resistance, frequency, continuity, diode integrity, capacitance, temperature, duty cycle	AC/DC current, AC/DC voltage, resistance, frequency, continuity, diode integrity, capacitance, temperature	AC current, AC/DC voltage, resistance, frequency, continuity, diode integrity
TRMS	Yes	Yes	Yes	N/A
AC Current Range (via clamp)	0 to 1000A	0 to 600A	0 to 400A	0 to 600A
DC Current Range (via clamp)	0 to 1000A	0 to 600A	0 to 400A	N/A
AC/DC Voltage Range	0 to 1000V	0 to 1000V	0 to 600V	0 to 600V
Max Count/Max Current & Voltage Resolutions	6000/0.1A, 0.1mV	6000/0.01A, 0.1mV	4000/0.1A, 0.1mV	2000/0.1A, 0.1mV
Resistance Range	0 to 60MΩ	0 to 60MΩ	0 to 40MΩ	0 to 20MΩ
Frequency Range	10 to 1000Hz using clamp jaw; 10Hz to 60MHz using test leads	10 to 1000Hz using clamp jaw; 10Hz to 60MHz using test leads	0 to 9.999MHz	10 to 1999Hz
Capacitance Range	0 to 60,000μF	0 to 60,000μF	0 to 4000μF	N/A
Temperature Range (via "K" type thermocouple)	-58° to 1112°F (-50° to 600°C)	-58° to 1112°F (-50° to 600°C)	-40° to 752°F (-40° to 400°C)	N/A
Temperature Range (via integrated IRT)	-4° to 662°F (-20° to 350°C)	N/A	N/A	N/A
Clamp Jaw Type / Opening	Coil Type + Hall effect, 1.65 in. (42mm)	Coil Type + Hall effect, 1.65 in. (42mm)	Coil Type + Hall effect, 1.48 in. (37.5mm)	Coil-type 1.48 in. (37.5mm)
Analog Bar Graph	Yes	Yes	Yes	N/A
Ranging Options	Auto or manual	Auto or manual	Auto or manual	Autoranging only
Zero Offset	Yes	Yes	Yes	N/A
Data Hold	Yes	Yes	Yes	Yes
Memory	Min, Max values	Min, Max values	No	Max value
Duty Cycle Range	1 to 99%	1 to 99%	N/A	N/A
Weight	12.4 oz. (350g)	12.4 oz. (350g)	19 oz. (539g)	17 oz. (482g)
Power Source (included)	3 "AAA" batteries (CM700); 3 "AAA" batteries, 2 "LR44" batteries (CM770)	3 "AAA" batteries	3 "AAA" batteries	2 "AAA" batteries



DMM45  
(see page 44)

DMM40  
(see page 44)

DMM51FSG  
(see page 44)

DMM333  
(see page 44)

DMM830HS  
(see page 45)

DMM20UL  
(see page 44)

AM35UL  
(see page 45)

Model #	DMM45	DMM40	DMM51FSG	DMM333	DMM830HS	DMM20UL	AM35UL
Name	Auto Ranging CAT III 600V Digital Multimeter	Manual Ranging CAT III 600V Digital Multimeter	Digital Service Multimeter	Digital Credit Card Style Multimeter	Economy Digital Multimeter with LED and Continuity Beeper	Digital UL Listed Multimeter	Analog Multimeter
Figure of Merit	8 functions, 25 ranges	6 functions, 19 ranges	8 functions, 34 ranges	7 functions, 25 ranges	7 functions, 20 ranges	6 functions, 20 ranges	4 functions, 13 ranges
Parameters Measured	AC/DC voltage, AC/DC current, resistance, diode integrity	AC/DC voltage, DC current, resistance, diode integrity	AC/DC voltage, AC/DC current, resistance, continuity, diode integrity	AC/DC voltage, AC/DC current, resistance, continuity, diode integrity	AC/DC voltage, DC current, resistance, continuity, diode integrity	AC/DC voltage, DC current, resistance, continuity, diode integrity	AC/DC voltage, DC current, resistance
Ranging Options	Auto	Manual	Manual	Auto	Manual	Manual	Manual
Voltage Measurement Range	0 to 500VAC/VDC	0 to 500VAC/VDC	0 to 750VAC/1000VDC	0 to 500VAC/VDC	0 to 750VAC/1000VDC	0 to 600VAC/VDC	0 to 500VAC/VDC
Voltage Resolution	0.5mV	0.5mV	100uV	0.5mV	0.5mV	0.5mV	100mV
DC Voltage Measurement Accuracy	±(0.5% of reading + 5 digits)	±(1.2% of reading + 2 digits)	±(0.8% of reading + 2 digits)	±(0.5% of reading + 5 digits)	±(1.2% of reading + 2 digits)	±2.5% of reading	±2.5% of reading
Overvoltage Protection Level	600V	600V	1kVDC, 750VAC	1kVDC, 750VAC	1kV	600V	500V
Safety Rating	CAT III 600V	CAT III 600V	CAT I 1000V CAT II 600V CAT III 300V	CAT II 500V CAT III 300V	CAT II 500V	CAT I 600V	CAT II 500V
Safety Listing (ETL,UL,CE)	CE	CE	No	No	No	UL	UL
Current Measurement Range	0 to 200mA AC/DC	0 to 200mA AC/DC	0 to 10A AC/DC	0 to 200mA AC/DC	0 to 10A DC	0 to 10A DC	0 to 250mA DC
Micro Amp Ranges	0 to 200µA/2000µA AC/DC	0 to 200µA/ 2000µA DC	0 to 20µA/200µA DC	0 to 200µA/2000µA AC/DC	0 to 200µA DC	0 to 2000µA DC	0 to 500µA DC
Non-contact Voltage (NCV) Detection Range	No	No	No	No	No	No	No
Non-contact Current (NCC) Detection Range	No	No	No	No	No	No	No
Resistance Measurement Range	0 to 20MΩ	0 to 2MΩ	0 to 200MΩ	0 to 20MΩ	0 to 2MΩ	0 to 20MΩ	0 to 1MΩ
Capacitance Measurement Range	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Display	Backlit 3-1/2 digit (2,000 count) LCD	Backlit 3-1/2 digit (2,000 count) LCD	3-1/2 digit (2,000 count) LCD	3-1/2 digit (2,000 count) LCD	3-1/2 digit (2,000 count) LCD	3-1/2 digit (2,000 count) LCD	Analog readout
Display Options	Hold	Hold	N/A	Hold, Max	N/A	Hold	N/A
Auto Power Off	No	No	No	Yes	No	No	No
Magnetic Hanging Strap	No	No	No	No	No	No	No
Limited Warranty	1 year	1 year	1 year	1 year	1 year	1 year	1 year
Other Features	Also measures temperature from -40° to 752°F with included "K" type thermocouple		0 to 20µA and 0 to 200µA DC ranges for measuring flame rod current		* Also measures transistor hFE (current gain) *Single-pole ACV test		





**DMM40**

**MANUAL RANGING CAT III 600V DIGITAL MULTIMETER – DMM40**

**FEATURES:**

- 6 functions, 19 ranges
- Measures 1) AC voltage, 2) DC voltage, 3) DC current, 4) resistance
- Uses beeper to 5) verify integrity of diodes and 6) check circuits for continuity
- Large 3-1/2 digit (2,000 count) LCD
- LIGHT (backlight) and data HOLD buttons
- Designed to meet CAT III 600V safety standard
- CE approved

**SPECIFICATIONS:**

- ◆ Measurement Ranges/Accuracies:  
AC Voltage: 0 to 500V/±(2.5% of reading + 5 digits)  
DC Voltage: 0 to 500V/±(1.2% of reading + 2 digits)  
DC Current: 0 to 200mA/±(1.8% of reading + 2 digits)  
Resistance: 0 to 2MΩ/±(1.5% of reading + 2 digits)

- ◆ Overload Protection Level: 600VAC/DC with internal fuse
- ◆ Operating Temperature: 32° to 122°F (0° to 50°C)@<75%RH
- ◆ Power Source: 1 “9V” battery (included)

**INCLUDES:**

- Battery
- 1 pair double-insulated 20 AWG test leads with 1A (max) rating
- User’s Manual
- 1-Year Limited Warranty

UPC	NO.
50122 1	DMM40



**DMM45**

**AUTO RANGING CAT III 600V DIGITAL MULTIMETER – DMM45**

**Ideal for measuring AC/DC voltage, AC/DC current, resistance and temperature.**

**FEATURES:**

- 8 functions, 25 ranges
- Measures 1) AC voltage, 2) DC voltage, 3) DC current, 4) AC current, 5) resistance, 6) temperature using included “K” type stem thermocouple probe
- Uses beeper to 7) verify integrity of diodes and 8) check circuits for continuity
- Large 3-1/2 digit (2,000 count) LCD
- 15 minute Auto Power Off and 15 second backlight
- Designed to meet CAT III 600V safety standard
- CE approved
- 1-year limited warranty

**SPECIFICATIONS:**

- ◆ Measurement Ranges/Accuracies:  
AC Voltage: 0 to 500V/±(0.8% of reading + 5 digits)  
DC Voltage: 0 to 500V/±(0.5% of reading + 2 digits)  
AC Current: 0 to 200mA/±(1.8% of reading + 3 digits)  
DC Current: 0 to 200mA/±(1.8% of reading + 2 digits)

- Resistance: 0 to 20MΩ/±(1.5% of reading + 2 digits)
- Temperature: -40° to 752°F (-40° to 400°C)/ ±(1.2% of reading + 7 digits) from 32° to 212°F (0° to 100°C)
- ◆ Overload Protection Level: 600VAC/DC with internal fuse
- ◆ Operating Temperature: 32° to 122°F (0° to 50°C)@<75%RH
- ◆ Power Source: (2) “AAA” batteries (included)

**INCLUDES:**

- “K” type stem thermocouple probe
- 1 Pair Double-Insulated 20 AWG Test Leads
- Batteries
- User’s Manual
- 1-Year Limited Warranty

UPC	NO.
50123 8	DMM45



**DMM20UL**

**DIGITAL UL LISTED MULTIMETER – DMM20UL**

**• Ideal for making basic measurements safely.**

**FEATURES:**

- 6 functions, 20 ranges
- Measures AC/DC voltage, DC current, resistance
- Also checks for continuity and diode integrity
- Large LCD
- Safety-recessed test lead sockets
- High-impact thermoplastic case
- UL listed

**SPECIFICATIONS:**

- ◆ AC Voltage Measurement Range/Accuracy: 0 to 600V/±2.5%
- ◆ DC Voltage Measurement Range/Accuracy: 0 to 600V/±2%
- ◆ DC Current Measurement Range/Accuracy: 0 to 10A/±1%

- ◆ Resistance Measurement Range/Accuracy: 0 to 20MΩ/±1.5%
- ◆ Dimensions: 9.00 x 5.50 x 1.25 in. (228.6 x 139.7 x 31.75mm)
- ◆ Weight: 8.00 oz. (226.8g)
- ◆ Power Source: 1 “9V” battery (included)

**INCLUDES:**

- Test Leads
- Battery
- User’s Manual
- 1-Year Limited Warranty

UPC	NO.
50121 4	DMM20UL

## ANALOG MULTIMETER – AM35UL

Old-school meter still gets the job done.

### FEATURES:

- 4 functions, 13 ranges
- Measures AC/DC voltage, DC current, resistance
- Fuse and diode protected
- UL listed

### SPECIFICATIONS:

- ◆ AC/DC Voltage Measurement Range: 0 to 500V
- ◆ DC Current Measurement Range: 0 to 250mA

- ◆ Resistance Measurement Range: 0 to 1MΩ
- ◆ Dimensions: 4 x 2.5 x 0.75 in. (102 x 64 x 19mm)
- ◆ Weight: 2.75 oz. (78g)
- ◆ Power Source: 1 “AA” battery (included)

### INCLUDES:

- Test leads • Battery • User’s Manual
- 1-Year Limited Warranty

UPC	NO.
50005 7	AM35UL

## ECONOMY DIGITAL MULTIMETER WITH LED AND CONTINUITY BEEPER – DMM830HS

Ideal for bench work.

### FEATURES:

- 7 functions, 20 ranges
- Measures AC/DC voltage, DC current, resistance, bipolar transistor forward current gain (hFE)
- Also checks for continuity and diode integrity
- 3-1/2-digit (1999 count) LCD

### SPECIFICATIONS:

- ◆ AC Voltage Range/Accuracy: 0 to 750V/±(1.2% + 10 digits) or better
- ◆ DC Voltage Range/Accuracy: 0 to 1000V/±(1.2% + 2 digits) or better
- ◆ DC Current Range/Accuracy: 0 to 10A/±(2% + 2 digits) or better

- ◆ Resistance Range/Accuracy: 0 to 2MΩ/±(1% + 2 digits)
- ◆ Input Impedance: 10MΩ for all ranges
- ◆ hFE Measurement Range: 0 to 1000
- ◆ Dimensions: 5.2 x 2.8 x 1.0 in. (132 x 70 x 25mm)
- ◆ Weight: 4.9 oz. (138.9g)
- ◆ Power Source: 1 “9V” battery (included)

### INCLUDES:

- Test leads • Battery • User’s Manual
- 1-Year Limited Warranty

UPC	NO.
50100 9	DMM830HS

## DIGITAL SERVICE MULTIMETER – DMM51FSG

Ideal for HVAC/R and industrial applications.

### FEATURES:

- 8 functions, 34 ranges
- Measures AC/DC voltage, AC/DC current, resistance
- Also checks for continuity and diode integrity
- 0 to 20μA and 0 to 200μA DC ranges for measuring flame rod current
- Jumbo 3-1/2-digit (1999 count) LCD
- Protective boot with 3-position tilt stand

### SPECIFICATIONS:

- ◆ AC Voltage Range/Accuracy: 0 to 750V/±(1.2% + 3 digits) or better
- ◆ DC Voltage Range/Accuracy: 0 to 1000V/±(0.8% + 2 digits) or better
- ◆ AC/DC Current Range/Accuracy: 0 to 10A/±(3% + 7 digits) or better

- ◆ Resistance Range/Accuracy: 0 to 200MΩ/±(0.8% + 10 digits) <2MΩ, ±(5% + 10 digits) or better >2MΩ
- ◆ Input Impedance: 10MΩ for all ranges
- ◆ Dimensions: 7.5 x 3.5 x 1.3 in. (190 x 88 x 34mm)
- ◆ Weight: 19.4 oz. (550g) with test leads, holster and tilt stand
- ◆ Power Source: 1 “9V” battery (included)

### INCLUDES:

- All Weather Test Leads
- Rubber Holster • Battery • User’s Manual
- 1-Year Limited Warranty

UPC	NO.
50190 0	DMM51FSG

## DIGITAL CREDIT CARD STYLE MULTIMETER – DMM333

Ideal for technicians on the go. Fits in shirt pocket.

### FEATURES:

- 7 functions, 25 ranges
- Measures AC/DC voltage, AC/DC current, resistance
- Also checks for continuity and diode integrity
- Auto ranging
- Large 2000-count LCD
- Data hold + max hold

### SPECIFICATIONS:

- ◆ AC Voltage Range/Accuracy: 0 to 500V/±(0.8% + 1 digit)
- ◆ DC Voltage Range/Accuracy: 0 to 500V/±(0.5% + 5 digits)

- ◆ AC/DC Current Range/Accuracy: 0 to 200mA/±(1.8% + 5 digits)
- ◆ Resistance Range/Accuracy: 0 to 20MΩ/±(0.8% + 5 digits) <1MΩ, ±(2% + 5 digits) >1MΩ
- ◆ Input Impedance (in DCV mode): 10MΩ
- ◆ Dimensions: 4.5 x 2.3 x 0.5 in. (115 x 58 x 12mm)
- ◆ Weight: 3 oz. (84g)
- ◆ Power Source: 2 “LR44” batteries (included)

### INCLUDES:

- Test Leads • Batteries • User’s Manual
- 1-Year Limited Warranty

UPC	NO.
50105 4	DMM333



AM35UL



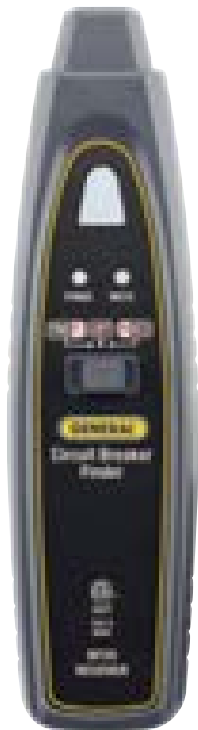
DMM830HS



DMM51FSG



DMM333



RECEIVER

TRANSMITTER/  
SOCKET TESTER

### CIRCUIT BREAKER FINDER WITH NCV DETECTOR AND GFCI OUTLET CHECKER – BF20

#### FEATURES:

- Automatically locates the breaker or fuse associated with any 110V outlet without tripping the breaker or blowing the fuse
- Indicates five common outlet wiring faults in GFCI and non-GFCI outlets
- Checks the functioning of a outlet's ground fault circuit interrupter
- Uses audible (beeper) and visual (LED) indications to safely (in non-contact fashion) detect "hot" (energized) outlets, lines and cables
- White LED work light
- Designed to safety standard IEC 61010-1
- 3-year limited warranty

#### SPECIFICATIONS:

- ◆ Safety ratings: ETL CAT II 125V (transmitter), ETL CAT II 600V (receiver)
- ◆ Outlet Wiring Indications: Correct wiring, Open ground, Open neutral, Open hot wire, Hot wire & ground reversed, Hot wire & neutral reversed
- ◆ NCV Detection Distance: 0.25 in. (6.2mm), max
- ◆ Operating Temperature: 32° to 122°F (0° to 50°C)
- ◆ Dimensions:  
Transmitter: 2.8 x 2.5 x 2.3 in. (71 x 64 x 58mm)  
Receiver: 7.4 x 1.8 x 1.5 in. (188 x 46 x 38mm)
- ◆ Weight: Transmitter: 2.1 oz. (60g);  
Receiver: 4.3 oz. (122g)
- ◆ Power Source: 1 "9V" battery for receiver

#### INCLUDES:

- Battery
- User's Manual
- 3-Year Limited Warranty

UPC	NO.
01606 0	BF20

BF20



## AUTOMATIC DIGITAL CAPACITOR TESTER – CAP1500

### FEATURES:

- Wide measurement range
- Uses precision dual slope A/D converter
- Alligator clip leads for in-circuit testing
- Zero adjust switch and low battery indicator
- 3-1/2-digit (1999 count) LCD
- Fuse-protected from overloads

### SPECIFICATIONS:

- ◆ Measurement Range: 0 to 20mF over 9 ranges (0 to 200pF/2000pF/20nF/200nF/2μF/20μF/200μF/2000μF/20mF)
- ◆ Measurement Accuracy: ±(0.5% + 1 digit) or better below 20μF; ±(5% + 5 digits) or better above 20μF
- ◆ Sampling Time: 0.4 seconds
- ◆ Operating Temperature: 32° to 122°F (0° to 50°C) @ <75%RH

- ◆ Dimensions: 5.3 x 2.8 x 1.4 in. (135 x 71 x 36mm)
- ◆ Weight: 7.1 oz. (201g)
- ◆ Power Source: 1 “9V” battery (included)

### INCLUDES:

- Alligator Clip Test Leads
- Soft Case
- Battery
- User’s Manual
- 1-Year Limited Warranty

UPC	NO.
50192 4	CAP1500



CAP1500

## 3 WIRE CIRCUIT ANALYZER – CT300 3 WIRE RECEPTACLE TESTER WITH GFCI – GF1302

Ideal for checking wall outlets.

### FEATURES:

- Detects faulty wiring in 3-wire receptacles (CT300)
- Detects faulty wiring in 3-wire receptacles with ground fault circuit interrupters (GF1302)

- Different combinations of three lights indicate six different fault types
- Designed for 120VAC circuits
- UL listed
- 1-Year Limited Warranty

UPC	NO.
01359 5	CT300
51067 4	GF1302



CT300

GF1302

## BRIGHT RED LED SCREWDRIVER/CONTINUITY TESTER – ST600LED

Ideal for checking for continuity and voltage.

### FEATURES:

- Bright red LED indicates hot side and continuity
- Continuity and polarity checks
- Microwave leakage test
- Checks fuses and bulbs
- Drop-resistant to 10 ft.
- 1-Year limited warranty

### SPECIFICATIONS:

- ◆ AC Voltage Test Range: 70 to 250V (contact method); 70 to 600V (non-contact method)
- ◆ DC Voltage Test Range: 0 to 250V
- ◆ Continuity Test Range: 0 to 50MΩ
- ◆ Polarity Test Range: 1.5 to 36VDC
- ◆ Microwave Leakage Test: >5mW/cm<sup>2</sup>
- ◆ Power Source: 1 “LR44” battery (included)

UPC	NO.
51115 2	ST600LED



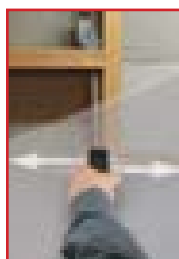
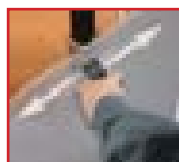
ST600LED

## DIGITAL 3-IN-1 LCD STUD/VOLTAGE/METAL DETECTOR – MSV350D

Ideal for locating studs, pipes, wires carrying voltage and hidden metal.

### FEATURES:

- Uses LCD scanning indicators and buzzer to indicate direction and position of stud, batten, metal object or wiring
- Detects/distinguishes between metal pipes/tubes and hot wires with variable sensitivity
- Also distinguishes between battens and studs
- Simultaneously detects studs and metal/wiring
- Needs no probe
- Battery charge indicator
- Auto power off



### SPECIFICATIONS:

- ◆ 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)
- ◆ Warranty: 1-year (limited)

### INCLUDES:

- User’s Manual
- 1-Year Limited Warranty



MSV350D

UPC	NO.
012175 8	MSV350D





VS3000A

### AUDIBLE/VISUAL NON-CONTACT VOLTAGE TESTER, ETL CERTIFIED – VS3000A

Ideal for safely detecting energized wires and the hot side of AC outlets.

#### FEATURES:

- Beeper sounds and LED lights when voltage is detected
- Safe for CAT III 1000V use
- ETL certified
- Automatic battery check function

#### SPECIFICATIONS:

- ◆ Detection Range: 70 to 1000V @ 50 to 500Hz
- ◆ Operating Temperature: 32° to 104°F (0° to 40°C) @ <85% RH
- ◆ Regulatory Compliance: ETL certified  
Conforms to UL 61010-1 and 61010-2-030

Certified to CAN/CSA C22.2  
Nos. 61010-1 and 61010-2-030

- ◆ Dimensions: 6.0 x 1.1 x 0.9 in. (152 x 27 x 23.5mm)
- ◆ Weight (with batteries): 1.4 oz. (39g)
- ◆ Power Source: 2 “AAA” batteries (included)

#### INCLUDES:

- Batteries • User's Manual
- 1-Year Limited Warranty

UPC	NO.
51000 1	VS3000A

### NON-CONTACT VOLTAGE DETECTOR WITH ADJUSTABLE SENSITIVITY AND 4:1 IR THERMOMETER – VR40

Enables anyone to check in a safe (non-contact) way whether a line, cable or AC outlet is “hot” (energized).

#### FEATURES:

- Beeper sounds and red LED flashes when voltage is detected
- Unique adjustable sensitivity feature enables accurate non-contact detection of voltage on 12VAC to 480VAC branch circuits and makes individual live wires in bundles easier to isolate
- Safe for CAT III 600V, CAT II 1000V use
- Also checks 110VAC outlets for wiring faults
- 4:1 IRT with measurement range of -4° to 626°F (-20° to 330°C)
- 4-digit (2000 count) LCD temperature readout in °F or °C
- Powerful built-in LED flashlight
- 15-second Auto Power Off (APO)
- Pocket clip on back

#### INCLUDES:

- Batteries • User's Manual
- 3-Year Limited Warranty

#### SPECIFICATIONS:

- ◆ Four Detection Ranges: 12 to 25VAC, 70 to 125VAC, 150 to 240VAC, 250 to 1000VAC
- ◆ Max Non-contact Detection Distance: 0.25 in. (6.2mm)
- ◆ IRT Measurement Accuracy: ±3.8°F (2°C) or ±1% of reading (whichever is greater) above 32°F
- ◆ IRT Emissivity: Fixed at 0.95
- ◆ IRT Laser Power: <1mW (Class 2)
- ◆ Operating Temperature: 32° to 113°F (0° to 45°C)
- ◆ Dimensions: 6.0 x 1.2 x 1.2 in. (152 x 31 x 31mm)
- ◆ Weight (with batteries): 7.8 oz. (220g)
- ◆ Power Source: 2 “AAA” (LR03) batteries (included)

UPC	NO.
01634 3	VR40



VR40

Laser radiation!  
Do not stare into beam!

### LINE VOLTAGE TESTER – CT101

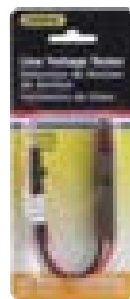
Ideal for checking outlet wiring.

#### FEATURES

- Visual indication of AC or DC voltage
- Easy to use
- UL approved
- Insulated housing
- Pocket clip on back

#### SPECIFICATIONS

- ◆ Voltage Detection Range: 80 to 500VAC/DC



- ◆ Maximum Current: 0.3A @ 50/60Hz
- ◆ Safety Rating: CAT III 600V
- ◆ Lead Thickness: 18 AWG
- ◆ Weight: 0.6 oz. (17g)
- ◆ Operating Temperature: 41° to 104°F (5° to 40°C) @ <80%RH (<60%RH above 88°F/31°C)

UPC	NO.
51025 4	CT101



CT101



CT102

### LOW VOLTAGE LINE TESTER – CT102

Ideal for checking doorbell transformers and low voltage relays.

#### FEATURES

- Visual indication of AC or DC voltage
- Versatile alligator clip leads with boots
- ETL approved
- Double insulated housing and leads
- Pocket clip on back

#### SPECIFICATIONS

- ◆ Voltage Detection Range: 5 to 50V AC/DC

- ◆ Maximum Current: 5A
- ◆ Safety Rating: CAT I
- ◆ Lead Thickness: 20 AWG
- ◆ Operating Temperature: 41° to 104°F (5° to 40°C) @ <85%RH (decreasing linearly to <50%RH at 104°F/40°C)
- ◆ Weight: 0.6 oz. (17g)

UPC	NO.
51035 3	CT102

# Starter Switch & Test Leads

## MULTI-VOLTAGE LINE TESTER – CT103

Checks for voltage levels and hot wires.

**FEATURES**

- Different visual indications of eight common voltages—four AC and four DC
- UL approved
- Double-insulated housing and leads
- Self-storing leads
- Pocket clip on back



**SPECIFICATIONS**

- ◆ Working Voltages: 110V, 220V, 277V and 460V (AC or DC)
- ◆ Maximum Current: 0.3A @ 50/60Hz
- ◆ Safety Rating: CAT II 600V
- ◆ Lead Thickness: 20 AWG
- ◆ Operating Temperature: 41° to 104°F (5° to 40°C) @ <80%RH
- ◆ Weight: 2.6 oz. (74g)

UPC	NO.
51045 2	CT103



**CT103**

## STARTER SWITCH 16/2, 20 AMP, PUSH BUTTON (UL SWITCH) – SSC6

Quickly hooks up motors/machinery for testing.

**FEATURES:**

- Red and black heavy duty boots
- Large clips
- Replaces any C-6 start switch
- 1-Year Warranty

**SPECIFICATIONS:**

- ◆ Maximum Current: 15A
- ◆ ASWG: 16/2
- ◆ Length: 2 ft. (610mm)
- ◆ Weight: 8.3 oz. (240g)

UPC	NO.
51145 9	SSC6



**SSC6**

## TEST CORD (MALE) – CT600M

Brings power to remote areas without 110V outlet.

**FEATURES:**

- Red and black heavy duty boots
- Large clips
- 2 wire
- 1-Year Warranty

**SPECIFICATIONS:**

- ◆ Maximum Current: 13A
- ◆ Maximum Voltage: 125V
- ◆ ASWG: 16
- ◆ Length: 6 ft. (1.83m)
- ◆ Weight: 8 oz. (227g)

UPC	NO.
50601 1	CT600M



**CT600M**

## TEST CORD (FEMALE) – CT700F

Brings power to areas without a 110V outlet.

**FEATURES:**

- Red and black heavy duty boots
- Large clips
- 3 wire
- Brings power to remote areas without 110V outlet
- 1-Year Warranty

**SPECIFICATIONS:**

- ◆ Maximum Current: 13A
- ◆ Maximum Voltage: 125V
- ◆ ASWG: 16
- ◆ Length: 2 ft. (610mm)
- ◆ Weight: 5.7 oz. (163g)

UPC	NO.
51095 7	CT700F



**CT700F**

## MULTI-COLORED TEST LEADS – CT800

Handy set of multiple jumpers.

**FEATURES:**

- 10 alligator-clip leads: 2 each white, red, black, yellow and green
- 1-Year Warranty

**SPECIFICATIONS:**

- ◆ Maximum Voltage: 300V
- ◆ ASWG: 22
- ◆ Length: 18 in. (457mm)
- ◆ Weight: 2.9 oz. (82g)

UPC	NO.
51105 3	CT800



**CT800**

## STANDARD TEST LEADS – TL100

Ideal for use as AC jumpers.

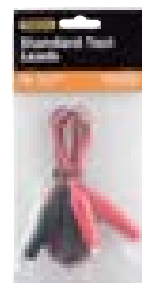
**FEATURES:**

- 3 ft. long
- 1 each Red & Black
- 1-Year Warranty

**SPECIFICATIONS:**

- ◆ Maximum Current: 10A
- ◆ Maximum Voltage: 300V
- ◆ ASWG: 16
- ◆ Length: 3 ft. (914mm)
- ◆ Weight: 1.9 oz. (54g)

UPC	NO.
51125 1	TL100



**TL100**

**N** Indicates optional NIST calibration is available



S106



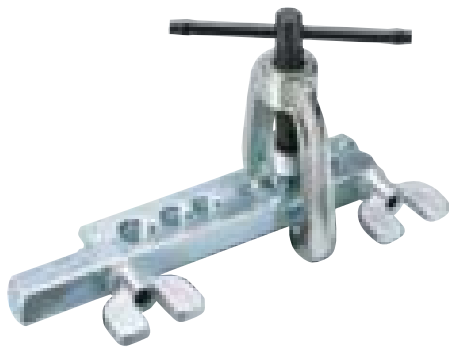
### TUBING BENDERS – S016

- These tools eliminate crimping and collapsing of copper and other thin wall tubing. Made of oil hardened and tempered spring steel
- 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"

NO.	TUBE SIZE OUTSIDE DIA.	LENGTH
100-1/4	1/4"	10-1/2"
100-5/16	5/16"	10-1/2"
100-3/8	3/8"	10-1/2"
100-7/16	7/16"	10-3/8"
100-1/2	1/2"	11-3/4"
100-5/8	5/8"	11-3/4"



151

### FLARING TOOL – 151

- High quality tool moderately priced
- Screw yoke slips quickly over bars without removing heavy-duty wing nuts
- Yoke has 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
- Cast iron yoke

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



13

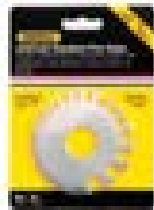
### DRILL GAGE – 13

- 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
- 3" x 1-1/8" wide.

UPC	NO.
22006 6	13 Number size drills 61 to 80



20



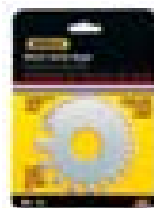
### WIRE GAGE – 20

- 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



21



### SHEET METAL GAGE – 21

- 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

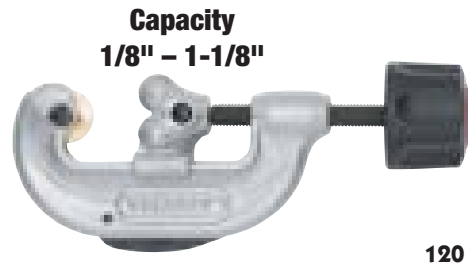
UPC	NO.
22041 7	21

### TUBING CUTTER – 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

UPC	NO.	CAPACITY
12003 8	<b>120</b>	1/8" to 1-1/8" (3.18 to 28.58mm)
12023 6	<b>RW121/2</b>	Replaceable Cutting Wheel
12027 4	<b>RW122</b>	Replaceable Cutting Wheel



### PIPE AND TUBING CUTTER – 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

UPC	NO.	CAPACITY
12017 5	<b>126</b>	1/8" to 2-5/8" (6.35 to 66.68mm)
12023 6	<b>RW121/2</b>	Replaceable Cutting Wheel
12027 4	<b>RW122</b>	Replaceable Cutting Wheel



### MINI TUBING CUTTER – 129X

- 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
- 1-1/2" swing radius

UPC	NO.	CAPACITY
12032 8	<b>129X</b>	1/8" to 7/8" (3.18 to 22.23mm)
12023 6	<b>RW121/2</b>	Replaceable Cutting Wheel

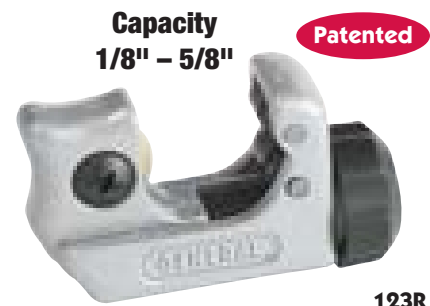


### MICRO TUBING CUTTER – 123R

- 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

- 1-3/8" swing radius
- Replaceable cutting wheel, RW121/2

UPC	NO.	CAPACITY
12009 0	<b>123R</b>	1/8" to 5/8" (3mm – 15mm)
12023 6	<b>RW121/2</b>	Replaceable Cutting Wheel



### E•Z™ RATCHET TUBING CUTTER – 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	<b>133</b>	5/16" to 1-1/8" (7.94 to 28.58mm)
12023 6	<b>RW121/2</b>	Replaceable Cutting Wheel





118

### HEAVY-DUTY PIPE AND HOSE CUTTER – 118

**Ideal 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 proof
- Safety locking clasp
- ◆ Dimensions: 17.00 x 5.13 x 1.63 in. (431.8 x 130.30 x 41.40mm)
- ◆ Weight: 39.70 oz. (1125.47g)

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



115

### HOSE AND TUBING CUTTER – 115

**Ideal for Cutting 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"
- ◆ Dimensions: 9.50 x 2.13 x 1.00 in. (241.30 x 54.10 x 25.40mm)
- ◆ Weight: 4.85 oz. (137.50g)

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



1191

### ONE-HANDED PVC/HOSE CUTTER – 1191

**Ideal 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
- ◆ Dimensions: 7.63 x 3.38 x 3.38 in. (193.80 x 85.85 x 85.85mm)
- ◆ Weight: 8.35 oz. (236.72g)

UPC	NO.	CAPACITY/(MM)	LENGTH/(MM)
01191 6	1191	up to 1.625" (40mm)	9.125" (231mm)

Patented



119

### ONE-HANDED PLASTIC PIPE AND HOSE CUTTER – 119

**For cutting PVC, CPVC, Polyethylene, PEX and ABS tubing.**

- One-handed Operation
- Quick-Blade Reset
- Comes with extra blade
- 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
- ◆ Dimensions: 9.25 x 3.78 x 1.00 in. (234.95 x 96.01 x 25.40mm)
- ◆ Weight: 8.35 oz. (236.72g)

UPC	NO.	CAPACITY/MM	LENGTH/MM
31173 3	119	.125" to 1.625" 3mm to 40mm	8.25" (425mm)
01194 7	119BG	Replacement Blade	

**POCKET 4-IN-1 MINI SCREWDRIVER – 744, 744DB, 744CD**

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	<b>744</b>	5.125" (130mm)
74400 5	<b>744DB</b>	Counter display with 24 individual pieces
00744 5	<b>744CD</b>	Carded product in counter top display box 20 pieces



**744**

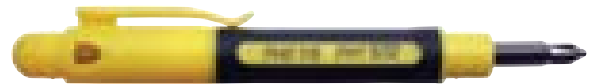


**4-IN-ONE POCKET SCREWDRIVER – 745DB**

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	<b>745DB</b>	Counter Display 24 pieces (Sold only as a counter display)

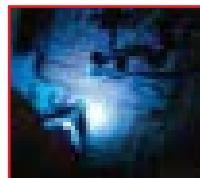
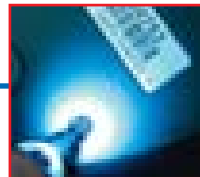
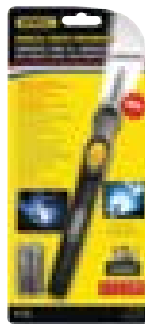


**745DB**

**LIGHTED CORDLESS POWER PRECISION SCREWDRIVER – 502**

Precision use for computers, electronics, and industrial applications.

- Super bright LED light
- 6+ Hours of power
- 100+ RPM
- Includes six precision bits
- Quick change chuck
- Super-torque drive
- Ergonomically designed rubber cushion grip
- Cordless (2 "AAA" alkaline batteries included)
- Overall length with bit: 7.5" (190.50mm)



**502**

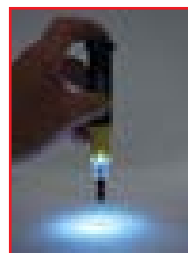
UPC	NO.
05020 5	<b>502</b>



**8-IN-ONE LIGHTED SCREWDRIVER – 75108**

Perfect for computers, electronics, industrial and residential applications, hobbies and crafts.

- Unique design features two drivers in one handle
- Two super bright LED lights provide 360° tip illumination for greater visibility
- Transparent collar maximizes illumination
- Four double ended blades store in handle for convenience
- Cordless (3 "LR41" batteries included)
- Overall length with bit: 6.75" (171.45mm)



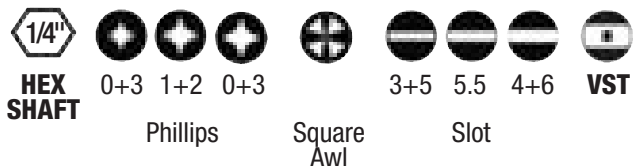
**75108**



UPC	NO.
75108 9	<b>75108</b>



**Bitload**



**14-IN-1 HVAC DRIVER – 8142**

The HVAC driver includes 14 bit tips and features a Schrader Valve Stem bit and a Square Awl Reamer. The shaft opening also serves as a 1/4" hex driver.

**EZ-Guide™ Collar**

- Provides greater control
- Maintains alignment between the screwdriver and the fastener
- Essential when starting to drive a screw

**Retractable Bit Cartridge™**

- Cartridge pulls out from inside the Screwdriver handle
- Convenient storage area with built in clips for seven double ended bits
- Allows for easy selection and quick change of required bits

UPC	NO.	
02198 4	<b>8142</b>	4-in-1 HVAC Driver
02196 0	<b>8140</b>	15-in-1 Standard Driver
02197 7	<b>8141</b>	15-in-1 Tamperproof Driver

Driver is Made in the United States  
 Driver handle is made from engineered nylon/ABS  
 Driver features an alloy steel shaft- 12T14 steel

**FRACTION+**

**3" CARBON FIBER DIGITAL FRACTIONAL CALIPER – 1433**

- 3" (76mm) range
- Lightweight non-marring carbon fiber composite
- Convenient auto-off feature
- Three mode digital display: Decimal inches, fractional inches and millimeters
- Inside, outside & step measurements
- Accuracy: +/- 0.001", +/- 0.02mm
- Power Source: 1 "LR-44" (1.5V) battery (included)
- Dimensions: 5.50 x 2.06 x 0.75 in. (139.70 x 52.32 x 19.05mm)
- Weight: 1.0 oz. (28.35g)
- Warranty: 1-year (limited)

UPC	NO.	RANGE
01433 7	<b>1433</b>	0 - 3" (0 - 76mm) LR-44 replacement battery

1433



No. 1433 Digital Display



146



No. 146 Digital Display

**FRACTION+**

**6" CARBON FIBER DIGITAL FRACTIONAL CALIPER – 146**

- 6" (153mm) range
- Lightweight, non-marring carbon fiber composite
- Convenient auto-off feature
- Three mode digital display: Decimal inches, fractional inches and millimeters
- Inside, outside, depth & step measurements
- Accuracy: +/- 0.001", +/- 0.02mm
- Power Source: 1 "LR-44" (1.5V) battery (included)
- Dimensions: 9.38 x 3.00 x 0.63 in. (238.25 x 76.20 x 16mm)
- Weight: 6.50 ozs (184.27g)
- Warranty: 1-year (limited)

UPC	NO.	RANGE
01460 3	<b>146</b>	0 - 6" (0 - 153mm) LR-44 replacement battery

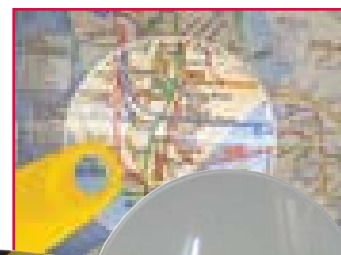
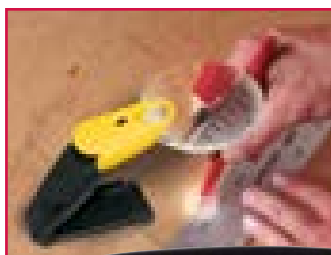
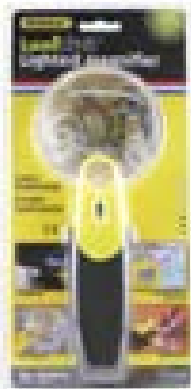
**LumiLENS™**

**LIGHTED MAGNIFIER – 800543**

**Ideal for hands-free illuminating magnification.**

- Shatter-Resistant lens
  - Push On / Push Off Powerful LED light
  - Contoured Handle for Handheld Use
  - Integrated Stand for Hands-Free Use
  - 3X Magnification (6X Inset lens)
  - Diameter: 3-1/2" Lens (89mm)
  - Dimensions: 8.50 x 3.50 x 0.81 in. (215.90 x 88.90 x 20.57mm)
  - Weight: 5.50 oz. (155.92g)
  - Power Source: 2 "AA" batteries (included)
- Includes • Protective pouch

UPC	NO.
26001 7	800543



Patented

800543

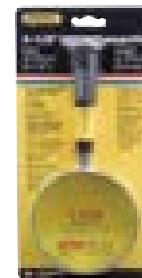
**ULTRATECH™ GLASS MAGNIFIER – 750543**

**Ideal for working in confined or obstructed spaces.**

- Polished optical glass lens with a metal frame
- Versa-Grip™ Handle with non-slip cushion grip
- 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

- Lens Diameter: 3.5" (90mm)
- Dimensions: 8.00 x 3.75 x 3.75 in. (203.20 x 95.25 x 95.25mm)
- Weight: 7.35 oz. (208.37g)

UPC	NO.	DIAMETER	POWER	FOCAL LENGTH
50543 9	750543	3.5" (88.9mm)	1.25	8" (203.20mm)



750543

**LIGHTED MECHANICAL PICK-UPS – 70393, 70396, 70399**

**Ideal for the retrieving objects from dark recesses.**

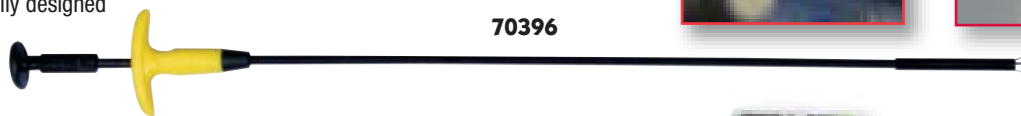
Let that flashlight sleep! General's new Lighted Mechanical PickUp has a powerful white LED that sheds a bright light on your quarry. Its strong 4-prong steel jaws can capture objects up to 1 in. (52mm) across.

- 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)

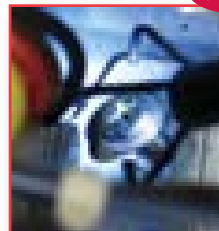
UPC	NO.	MM
70399 6	70393	12" OAL 304.8mm
26003 1	70396	24" OAL 609.6mm
70393 4	70399	36" OAL 914.4mm

LR41 replacement battery



70396

Patented



**LIGHTED MAGNETIC/MECHANICAL PICKUPS – 70390, 70391**

**Ideal for the retrieval of ferrous metals from dimly lit areas.**

Are most of the objects you drop made of metal? Then the magnet in our two newest tools should prove attractive. The pick-ups have the same form, function and LED as the 70393, 70396 and 70399 above, and add a retractable magnetic

sleeve for retrieving nuts and bolts and other ferrous-metal parts.

UPC	NO.	MM
70390 3	70390	24" OAL 609.6mm
70391 0	70391	36" OAL 914.4mm



Patented

70390

**TELESCOPING ALLIGATOR CLIP – 400**

**Ideal for use in lighting pilot lights and barbeques.**

- Chrome finish to prevent rust
- Convenient pocket-clip
- Diameter: 5/16" (8mm)

UPC	NO.	SIZE	OVERALL LENGTH
42217 0	400	6.25" (159mm)	24.5" (622mm)



400





**LIGHTED RECTANGULAR INSPECTION MIRROR – 80560**

Ideal for toolmakers, machinists, inspectors and mechanics.

- 2 Extra bright LED lights facilitate the inspection of hard-to-see and hard-to-reach areas
- Fully polished glass mirror is shatter-resistant
- 2 “CF2032” batteries included
- 360° Swivel double ball joint
- Size: 2" x 3" (50.80 x 76.20mm)
- Length: 12.5" (317.5mm) extends to 33.5" (850.9mm) overall

UPC	NO.	PKG.
02146 5	80560	Carded



**LIGHTED ROUND INSPECTION MIRROR – 80557**

Ideal for toolmakers, machinists, inspectors and mechanics.

New round head LED inspection mirror gets into tight places and its diffused LED bulbs spread light evenly over the viewing area.

- Size: 1.85" (47mm) diameter
- Length: 12" (304.8mm) extends to 32" (812.8mm) overall

UPC	NO.	PKG.
80557 7	80557	Carded



**METAL INSPECTION “FLAME” MIRRORS – 5561, 5562, 5563**

- Includes plastic protective sheath
- Heavy-duty construction

UPC	NO.	SIZE	OVERALL LENGTH
05531 3	5561	1.25" x 2" (31.75 x 50.8mm)	9.75", extends to 26" (247 to 660mm)
05562 0	5562	2" x 3.75" (50.80 x 95.25mm)	10.75", extends to 26" (273 to 660mm)
05563 7	5563	3.75" dia. (95.25mm)	9-3/4", extends to 26" (247 to 660mm)



**LONG TELESCOPING INSPECTION MIRROR – 559**

- Handle has black cushion grip
- Non-slip grip
- Mirror size: 2" (51mm) diameter
- 36" (914mm) telescoping

UPC	NO.	SIZE	OVERALL LENGTH
05590 3	559	2" Round (50.80mm)	Extends to 36" (914mm)



**GLASS INSPECTION MIRRORS – 558, 560**

Facilitates 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
- No. 560 has a telescoping arm and a vinyl cushion grip handle

UPC	NO.	SIZE	OVERALL LENGTH
42471 6	558	1" x 2" oval (25.40 x 50.8mm)	9" (228.60mm)
42473 0	560	3.5" x 2" (88.90 x 50.80mm)	11.5", extends to 16" (292.10 to 406.40mm)

# Inspection Mirrors & Retrieving Tools

## UTILITY TELESCOPING INSPECTION MIRRORS – 70555, 70557

Facilitates 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
- No. 70557 has a vinyl cushion grip handle

UPC	NO.	SIZE	OVERALL LENGTH
22344 9	<b>70555</b>	1.375" dia. (34.93mm dia.)	5" extends to 27.5" (127 to 700mm)
22347 0	<b>70557</b>	2.25" dia. (57.15mm dia.)	9.75" extends to 14.75" (247 to 375mm)



## CORDLESS PRECISION ENGRAVER – 505

- Diamond Tip Bit
- Precision cordless engraving anywhere
- Use on metal, plastic, ceramic or glass surfaces
- Protects all types of valuables
- Uses standard 3/32" engraving bit
- Aluminum body
- 20,000 RPM motor
- 2 "AAA" batteries (included)

UPC	NO.	CAPACITY
02139 4	<b>505</b>	Overall Length: 6.5" (165.10mm) Width: 0.5" (12.7mm)



**Patented**

**505**

## ADJUSTABLE DIAL WIRE STRIPPER – 69

Adjustable settings with lock is ideal for repetitive wire stripping.

- 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	<b>69</b>	12, 14, 16, 18, 20, 22, 24, 26



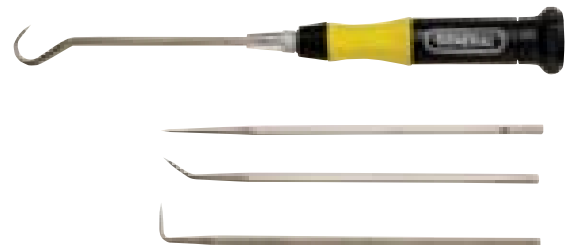
**69**

## 4-PIECE INTERCHANGEABLE STAINLESS STEEL PROBE SET – 707862

Ideal for probing, cleaning, picking, or marking small work surfaces.

- Set Includes:
  - Four 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 8.5" (216mm) with handle
  - Precision engineered 700 Series Versa-Grip™ handle for maximum performance

UPC	NO.	PKG.
70786 4	<b>707862</b>	Holster/Carded



**707862**

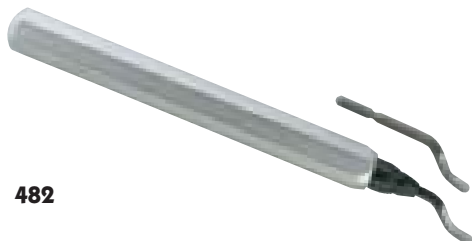


481

### DEBURRING TOOL – 481

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

UPC	NO.	HANDLE LENGTH
00481 9	<b>481</b>	5" (127mm)
42327 6	<b>482A</b>	Blade for steel, copper, aluminum and plastic
42330 6	<b>482B</b>	Blade for brass and cast iron.

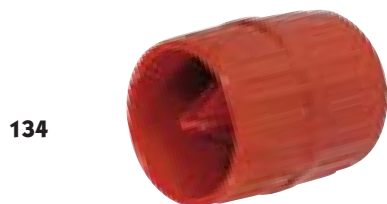


482

### SWIVEL HEAD DEBURRING TOOL – 482

- Professional quality and performance of higher price deburring tools
- Two interchangeable blades

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



134

### INNER/OUTER REAMER – 134

- 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	<b>134</b>	1-1/2" (38mm)



86014

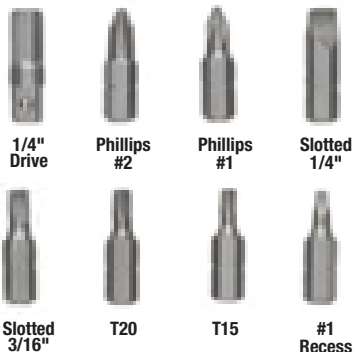
THE KEYLESS QUICK CHANGE LOCKING CHUCK ACCEPTS BOTH QUICK CHANGE POWER BITS AND STANDARD RECIPROCATING SAW BLADES.

Patented

# THE QUAD™

## SAW/DRIVER

4-IN-1 Cutting and Driving System is ideal for contractors, journeymen and do-it-yourselfers.



1/4" Drive

Phillips #2

Phillips #1

Slotted 1/4"

Slotted 3/16"

T20

T15

#1 Recess

### THE QUAD™ 14-PIECE SAW/DRIVER SET

- 2 position quick change locking handle offers both power and speed.
- A convenient holster holds all 14 pieces.
- 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
- Dimensions: 12.50 x 5.50 x 1.25 in. (317.50 x 139.70 x 31.75mm)
- Weight: 12.60 oz. (357.20g)

### 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	<b>86014</b>

### HVAC/R ENVIRONMENTAL INSTRUMENTS DHVACR-1



#### Environmental Instruments Planogram (13)

<b>IRT105</b>	6:1 Pocket Infrared Thermometer
<b>DC01001</b>	Carbon Monoxide Detector
<b>PNG2000A</b>	Combustible Gas Detector
<b>SAM990DW</b>	Digital Psychrometer
<b>DT898P</b>	Digital Indoor/Outdoor Therm w/ Clock
<b>HDT304K</b>	Digital Thermometer
<b>DTP301FC</b>	Digital Thermometer
<b>HT20</b>	USB RH/Temp Data Logger w/ LCD
<b>AQ150</b>	Indoor Outdoor Therm w/ Waterproof Probe
<b>WA500</b>	Water Leak Alarm
<b>IRT207</b>	Non-Contact Infrared Thermometer
<b>IRT657</b>	12:1 Wide Range Infrared Thermometer
<b>PTH8707</b>	Thermo-Hygrometer

### HVAC/R ELECTRICAL INSTRUMENTS DHVACR-2



#### Electrical Instruments Planogram (11)

<b>DMM20UL</b>	Digital Multimeter
<b>CAP1500</b>	Digital Capacitor Tester
<b>CT800</b>	Multi-Color Jumper leads
<b>ST600LED</b>	Screwdriver/ Continuity Tester
<b>DMM45</b>	Auto Imaging DMM w/ Back Lite
<b>VS3000A</b>	Audible/ Visual Non-Contact Voltage Tester
<b>TL100</b>	Standard Test Leads
<b>DAMP60</b>	Auto Ranging 600A AC Clamp Meter
<b>DMM51FSG</b>	Digital Service Multimeter
<b>BF20</b>	AC Circuit Breaker Finder
<b>DAMP68</b>	Auto Ranging AC/DC True RMS 400A Clamp Meter

### HVAC/R SPECIALTY TOOLS DHVACR-3



#### Specialty Tools Planogram (14)

<b>500</b>	Cordless Precision Screwdriver
<b>80557</b>	Lighted Round Inspection Mirror
<b>80560</b>	Lighted Rectangular Inspection Mirror
<b>120</b>	Tubing Cutter
<b>70396</b>	Lighted Mechanical Pick Up
<b>133</b>	E•Z Ratcheting Tubing Cutter (1-1/8" O.D.)
<b>70557</b>	Telescoping Mirror (2-1/4" Dia.)
<b>69</b>	Adjustable Dial Wire Stripper
<b>129X</b>	Mini Tubing Cutter (7/8" O.D.)
<b>707862</b>	4 piece Stainless Steel Probe Set
<b>1191</b>	PVC and Hose Cutter (1-5/8" O.D.)
<b>505</b>	Cordless Precision Engraver
<b>800543</b>	"LumiLENS" Lighted Magnifier
<b>5562</b>	Metal Flame Inspection Mirror





## Alphanumeric Index

MODEL No.	UPC	CAT. PG.	KEY	DESCRIPTION	PKG. QTY	PKG. TYPE
<b>TEST &amp; MEASUREMENT INSTRUMENTS</b>						
320	†00320 1	21		ANALOG POCKET THERMOMETER WITH MAGNIFYING LENS, -40° TO 160°F	3	B
321	†22391 3	21		ANALOG POCKET THERMOMETER WITH MAGNIFYING LENS, 0° TO 220°F	3	BL
AC1	10166 7	33	Z	110VAC TO 9VDC ADAPTER FOR DTH3007SD, HWA4214SD AND PM930SD	1	BX
ACL10	01521 6	40, 41	Z	15A LINE SPLITTER FOR DAMP60, DAMP68, CM660 & CM700 CLAMP METERS	1	BX
ADP05V	01497 4	13		CAR CHARGER FOR DCS400 AND DCS100 SERIES	1	BX
AM35UL	50005 7	43, 45		ANALOG ECONOMY MULTIMETER, FUSED, UL LISTED	1	BL
AQ150	22150 1	23		IN/OUT THERMOMETER WITH WATERPROOF PROBE, -58° TO 158°F (-50° TO 70°C)	1	BX
ASFTKIT	12710 0	35	Z	DOWNLOAD SOFTWARE & CABLE FOR: DT8852; DCFM8906, DCFM8901; WDCFM8912; DM8215, DM8252	1	BX
BA10	72015 8	27		"1/2 AA" BATTERY FOR HT10, HT20, HT50	1	BX
BF20	01606 0	46	*	AC CIRCUIT BREAKER FINDER WITH NCV TESTER AND GFCI OUTLET CHECKER (REPLACES BF10)	1	BL
CAP1500	50192 4	47		DIGITAL WIDE RANGE CAPACITOR TESTER WITH ALLIGATOR LEADS	1	BX
CDM77232	01311 3	26		WALL MOUNT CO2/TEMPERATURE/RH METER-HIGH ACCURACY	1	BX
CGD900	01449 3	28		INTRINSICALLY SAFE MSHA APPROVED COMBUSTIBLE GAS LEAK DETECTOR	1	BX
CIH20DL	01498 1	31	*	DATA LOGGING HOT WIRE ANEMOMETER WITH CFM/CMM AND 8:1 IR THERMOMETER	1	BX
<b>NISTCIH20DL</b>				<b>NIST CERTIFICATION FOR CIH20DL AVAILABLE</b>		
CIH30DL	01681 7	31	*	DATA LOGGING HOT WIRE ANEMOMETER WITH CFM/CMM AND 30:1 IR THERMOMETER	1	BX
<b>NISTCIH30DL</b>				<b>NIST CERTIFICATION FOR CIH20DL AVAILABLE</b>		
CM660	01629 9	41, 42	*	NEW DUAL DISPLAY AMP CLAMP W/ AC/DC AMPS, TRMS, NCV, 750V, 600A, 0.01A RESOLUTION	1	BL
<b>NISTCM660</b>				<b>NIST CERTIFICATION FOR CMM660 AVAILABLE</b>		
CM700	01633 6	41, 42	*	NEW DUAL DISPLAY AMP CLAMP W/ AC/DC AMPS, TRMS, NCV, 1000V, 1000A, 0.1A RESOLUTION	1	BL
<b>NISTCM700</b>				<b>NIST CERTIFICATION FOR CMM700 AVAILABLE</b>		
CM770	01640 4	41, 42	*	NEW DUAL DISPLAY AMP CLAMP W/ AC/DC AMPS, TRMS, NCV, 1000V, 1000A, 0.1A RESOLUTION AND REMOVEABLE IRT	1	BL
<b>NISTCM770</b>				<b>NIST CERTIFICATION FOR CMM770 AVAILABLE</b>		
CT101	51025 4	48		LINE VOLTAGE TESTER, UL LISTED	1	P
CT102	51035 3	48		LINE VOLTAGE TESTER, UL LISTED	1	P
CT103	51045 2	49		MULTI-VOLTAGE LINE TESTER	1	BL
CT300	01359 5	47	*	CIRCUIT ANALYZER, UL LISTED	1	BL
CT600M	50601 1	49		2 WIRE LINE VOLT TEST LEADS	1	P
CT6235B	42115 4	37		CONTACT TACHOMETER	1	BX
<b>NISTCT6235B</b>				<b>NIST CERTIFICATION FOR CT6235B AVAILABLE</b>		
CT700F	51095 7	49		3 WIRE FEMALE TEST LEADS	1	P
CT800	51105 3	49		10 WIRE LOW VOLT TEST LEADS (5 COLORS)	1	P
DAMP60	01356 4	40, 42		AUTO RANGING 600 AMP AC CLAMP METER	1	BL
<b>NISTDAMP60</b>				<b>NIST CERTIFICATION FOR DAMP60 AVAILABLE</b>		
DAMP68	01369 4	40, 42		AUTO RANGING AC/DC TRUE RMS 400 AMP CLAMP METER	1	BL
<b>NISTDAMP68</b>				<b>NIST CERTIFICATION FOR DAMP68 AVAILABLE</b>		
DCFM700	40700 4	32	*	DIGITAL ECONOMY AIRFLOW METER WITH CFM	1	CS
<b>NISTDCFM700</b>				<b>NIST CERTIFICATION FOR DCFM700 AVAILABLE</b>		
DCFM8901	40005 0	32		DIGITAL TWO-PIECE AIRFLOW METER WITH CFM DISPLAY & RS-232 INTERFACE	1	CS
<b>NISTDCFM8901</b>				<b>NIST CERTIFICATION FOR DCFM8901 AVAILABLE</b>		
DCFM8906	40015 9	32		DIGITAL ONE PIECE AIRFLOW METER WITH CFM DISPLAY	1	CS
<b>NISTDCFM8906</b>				<b>NIST CERTIFICATION FOR DCFM8906 AVAILABLE</b>		
DCIS2	01665 7	5, 12-13	*	iBORESCOPE2	1	CA
DCO1001	41655 6	29		DIGITAL CO DETECTOR, WITH AUTO ZERO, BACKLIGHT, WRIST STRAP, ALARM & SOFT CASE	1	BL
DCS200	01372 4	12-13, 17		THE SEEKER™ 200 VIDEO INSPECTION SYSTEM W/ 12MM DIA. 1M LONG PROBE, 2.4" SCREEN	1	CS
DCS200-05	01494 3	12-13, 17		THE SEEKER™ 200 VIDEO INSPECTION SYSTEM W/ 5.5MM DIA. 1M LONG PROBE, 2.4" SCREEN	1	CS
DCS200-09	01482 0	12-13, 17		THE SEEKER™ 200 VIDEO INSPECTION SYSTEM W/ 9MM DIA. 1M LONG PROBE, 2.4" SCREEN	1	CS
DCS280	01572 8	12-13, 14	*	RUGGED NON-RECORDING VIDEO INSPECTION SYSTEM	1	CS
DCS300	01373 1	12-13, 17		THE SEEKER™ 300 VIDEO INSPECTION SYSTEM W/ 12MM DIA. 1M LONG PROBE, 3.5" SCREEN	1	CS
DCS350	01582 7	12-13, 14	*	RUGGED RECORDING VIDEO INSPECTION SYSTEM	1	CS
DCS355	01472 1	12-13, 17		THE SEEKER™ 355 VIDEO INSPECTION SYSTEM W/ 5.5MM DIA. 1M LONG PROBE, 3.5" SCREEN	1	CS
DCS400	01371 7	12-13, 17		THE SEEKER™ 400 WIRELESS VIDEO INSPECTION SYSTEM W/ 12MM DIA. 1M LONG PROBE, 3.5" SCREEN	1	CS
DCS400-05	01447 9	12-13, 17		THE SEEKER™ 400 WIRELESS VIDEO INSPECTION SYSTEM W/ 5.5MM DIA. 1M LONG PROBE, 3.5" SCREEN	1	CS
DCS400-09	01426 4	12-13, 17		THE SEEKER™ 400 WIRELESS VIDEO INSPECTION SYSTEM W/ 9MM DIA. 1M LONG PROBE, 3.5" SCREEN	1	CS
DCS600	01514 8	12-13, 16	*	SEASCOPE™600 -WATERPROOF VIDEO INSPECTION SYSTEM	1	CS
DCS660	01515 5	12-13, 16	*	SEASCOPE™660 -WATERPROOF RECORDING VIDEO INSPECTION SYSTEM	1	CS
DCS800	01628 2	6-7, 8	*	RUGGED VGA RECORDING VIDEO BORESCOPE SYSTEM	1	CA
DCS950	01660 2	5, 12-13		THE PALMSCOPE™ COMPACT INSPECTION VIDEO BORESCOPE SYSTEM W/9.0MM DIA. CAMERA HEAD	1	BL
DCS1600	01305 2	6-7, 11		HIGH PERFORMANCE RECORDING VIDEO BORESCOPE SYSTEM W/5.5MM DIA. x 1M LONG PROBE AND 3.5" SCREEN	1	CS
DCS1700	01601 5	6-7, 8	*	THE VIPER 1700 SUPER HIGH-PERFORMANCE VGA RECORDING VIDEO BORESCOPE SYSTEM	1	CS
DCS1800	01297 0	6-7, 10		HIGH-PERFORMANCE WIRELESS BORESCOPE SYSTEM	1	CA
DHVACR-1	TBD	59		HVAC/R Environmental Instruments (2 each of 13 SKUs)	1	BX
DHVACR-2	TBD	59		HVAC/R Electrical Instruments (2 each of 11 SKUs)	1	BX
DHVACR-3	TBD	59		HVAC/R Specialty Tools (3 each of 14 SKUs)	1	BX
DL8835	46125 9	24		TEMPERATURE/HUMIDITY DATA LOGGER WITH ON/OFF SWITCH & TEMPERATURE PORT	1	BX
<b>NISTDL8835</b>				<b>NIST CERTIFICATION FOR DL8835 AVAILABLE</b>		
DM8215	41215 2	34		DIGITAL MANOMETER WITH 36" TUBING, 0 TO 15 PSI, +/- PORT, BACK LIGHT & RS232 OUTPUT	1	CS
<b>NISTDM8215</b>				<b>NIST CERTIFICATION FOR DM8215 AVAILABLE</b>		
DM8252	41216 9	34		DIGITAL HIGH RESOLUTION MANOMETER WITH 36" TUBING; 0 TO 2 PSI, +/- PORT	1	CS
<b>NISTDM8252</b>				<b>NIST CERTIFICATION FOR DM8252 AND DM8252RS AVAILABLE</b>		

**KEY:** \* = New Item, **XX** = Discontinued after supply is depleted, **\*\*\*** = Certified, **NCL** = Not In Catalog, **Z** = Not standard discount  
**PKG. TYPE:** **P** = Poly Bag, **BX** = Box, **BL** = Blister, **CA** = Case, **CS** = Case with printed sleeve, **BB** = Blank Box, **B** = Bulk, **C** = Carded,  
**DB** = Display Box, **PB** = Printed Box, **SO** = Special Order



MODEL No.	UPC	CAT. PG.	KEY	DESCRIPTION	PKG. QTY.	PKG. TYPE
<b>TEST &amp; MEASUREMENT INSTRUMENTS (continued)</b>						
DM8252RS	41220 6	34		HI RES MANOMETER WITH 4 RUBBER STOPPERS FOR DUCT SMOKE DETECTORS	1	CS
				<b>NISTDM8252RS</b>	<b>NIST CERTIFICATION FOR DM8252 AND DM8252RS AVAILABLE</b>	
DMM20UL	50121 4	43, 44		DIGITAL UL LISTED MULTIMETER	1	BL
DMM333	50105 4	43, 45		DIGITAL CREDIT CARD METER WITH CONTINUITY & BARGRAPH	1	BL
DMM40	50122 1	43, 44	*	MANUAL RANGING MULTIMETER MULTIMETER WITH BRIGHT SCREEN DISPLAY	1	BL
DMM45	50123 8	43, 44	*	AUTO RANGING DIGITAL MULTIMETER WITH BRIGHT SCREEN DISPLAY	1	BL
DMM51FSG	50190 0	43, 45		DIGITAL MULTIMETER WITH CONTINUITY BEEPER, JUMBO DISPLAY & PROTECTIVE BOOT	1	BL
				<b>NISTDMM51FSG</b>	<b>NIST CERTIFICATION FOR DMM51FSG AVAILABLE</b>	
DMM570	01642 8	39	*	RUGGED TRMS MULTIMETER WITH NCV DETECTION	1	CA
DMM830HS	50100 9	43, 45		DIGITAL "HOT SIDE" LED ECON. MULTIMETER W/ CONT. BEEPER & SINGLE LEAD HOT SIDE	1	BX
DPS16	01579 7	6-7, 9	*	PIPE AND DUCT RECORDING VIDEO BORESCOPE INSPECTION SYSTEM	1	CA
DPT301FC	20035 3	21		DIGITAL THERMOMETER -40° TO 302°F (-40° TO 150°C)	1	BL
DS300RC	01245 1	36		DIGITAL CHARGING SCALE	1	BX
DT8852	21012 3	22		DIGITAL DUAL INPUT THERMOMETER WITH 2 "K" TYPE PROBES	1	CS
DT898P	10012 7	22		IN & OUTDOOR THERMOMETER W/ JUMBO DISPLAY	1	BL
DTH03A	11040 9	29	*	JUMBO DISPLAY HUMIDITY AND TEMPERATURE MONITOR	1	BL
DTH3007SD	01461 5	26	*	DATA LOGGING THERMO-HYGROMETER W/ EXCEL FORMATTED SD CARD	1	CA
				<b>NISTDTH3007SD</b>	<b>NIST CERTIFICATION FOR DTH3007SD AVAILABLE</b>	
EMR813	60017 7	23		THREE CHANNEL CAPABLE WIRELESS THERMOMETER W/ REMOTE	1	BL
EMR963HG	60070 2	23		WIRELESS THERMO-HYGROMETER WITH REMOTE SENSOR	1	BL
				<b>NISTEMR963HG</b>	<b>NIST CERTIFICATION FOR EMR963HG AVAILABLE</b>	
EP8703	01632 9	25	*	CALIBRATABLE MULTI-FUNCTION PSYCHROMETER	1	BL
				<b>NISTEP8703</b>	<b>NIST CERTIFICATION FOR EP8703 AVAILABLE</b>	
EP8706	10041 7	25	*	CALIBRATABLE DIGITAL PSYCHROMETER	1	BT
				<b>NISTEP8706</b>	<b>NIST CERTIFICATION FOR EP8706 AVAILABLE</b>	
EP8709	01630 5	25	*	CALIBRATABLE MULTI-FUNCTION PSYCHROMETER WITH MIN/MAX, DATA HOLD & WET BULB	1	BL
				<b>NISTEP8709</b>	<b>NIST CERTIFICATION FOR EP8709 AVAILABLE</b>	
EP8710	01631 2	25	*	CALIBRATABLE MULTI-FUNCTION PSYCHROMETER WITH EXTERNAL TEMPERATURE PROBE	1	BL
				<b>NISTEP8710</b>	<b>NIST CERTIFICATION FOR EP8710 AVAILABLE</b>	
EP8711P	01677 0	24	*	6-IN-1 PSYCHROMETER WITH ENTHALPY	1	BX
FT80H	24015 1	22		REFRIGERATOR / FREEZER THERMOMETER, HORIZONTAL, -20° TO 80°F	1	BL
FT80R	24005 2	22		REFRIGERATOR / FREEZER THERMOMETER WITH HANGER, ROUND, -40° TO 80°F	1	BL
GF1302	51067 4	47		3 WIRE CIRCUIT TESTER WITH GFCl, UL LISTED	1	BL
GPK005	01585 8	35	*	ANALOG GAS PRESSURE KIT, 0 TO 5 PSI W/TUBING, FITTING, GAS MANIFOLD, GAS COCK, SQUEEZE BALL, BLOW MOLD CASE	1	DB
GPK015	41240 4	35		ANALOG GAS PRESSURE KIT, 0 TO 15 INCHES WC W/ TUBING FITTING & BLOW MOLD CASE	1	DB
GPK035	41230 5	35		ANALOG GAS PRESSURE KIT, 0 TO 35 INCHES WC W/ TUBING FITTING & BLOW MOLD CASE	1	DB
GTi10	01550 6	3	* Z	THERMAL IMAGING CAMERA	1	CA
GTi10-600	01624 4	3	* SO Y	THERMAL IMAGING CAMERA WITH RANGE EXTENDED TO 600°C (1112°F)	1	CA
GTi10-1000	01649 7	3	* SO Y	THERMAL IMAGING CAMERA WITH RANGE EXTENDED TO 1000°C (1832°F)	1	CA
GTi10-1500	01627 5	3	* SO Y	THERMAL IMAGING CAMERA WITH RANGE EXTENDED TO 1500°C (2732°F)	1	CA
GTi20	01586 5	3	* Y	THERMAL/VISUAL IMAGING CAMERA WITH PICTURE-IN-PICTURE WITH -20 TO 300°C (4 TO 572°F) RANGE	1	CA
GTi20-600	01650 3	3	* SO Y	THERMAL/VISUAL IMAGING CAMERA WITH PICTURE-IN-PICTURE WITH RANGE EXTENDED TO 600°C (1112°F)	1	CA
GTi20-1000	01651 0	3	* SO Y	THERMAL/VISUAL IMAGING CAMERA WITH PICTURE-IN-PICTURE WITH RANGE EXTENDED TO 1000°C (1832°F)	1	CA
GTi20-1500	01652 7	3	* SO Y	THERMAL/VISUAL IMAGING CAMERA WITH PICTURE-IN-PICTURE WITH RANGE EXTENDED TO 1500°C (2732°F)	1	CA
GTi30	01551 3	3	* Y	THERMAL/VISUAL IMAGING CAMERA WITH PICTURE-IN-PICTURE, STREAMING VIDEO AND VOICE ANNOTATION	1	CA
GTi50	01592 6	3	* Y	THERMAL/VISUAL HIGH RES IMAGING CAMERA W/ PICTURE-IN-PICTURE, STREAMING VIDEO & VOICE ANNOTATION (TO 300°C)	1	CA
GTi50-600	01641 1	3	* SO Y	THERMAL/VISUAL HIGH RES IMAGING CAMERA W/ PICTURE-IN-PICTURE, STREAMING VIDEO & VOICE ANNOTATION (TO 600°C)	1	CA
GTi50-1000	01653 4	3	* SO Y	THERMAL/VISUAL HIGH RES IMAGING CAMERA W/ PICTURE-IN-PICTURE, STREAMING VIDEO & VOICE ANNOTATION (TO 1000°C)	1	CA
GTi50-1500	01627 5	3	* SO Y	THERMAL/VISUAL HIGH RES IMAGING CAMERA W/ PICTURE-IN-PICTURE, STREAMING VIDEO & VOICE ANNOTATION (TO 1500°C)	1	CA
HDT304K	20005 6	21		DELUXE DIGITAL STEM THERMOMETER -58° to 302°F (-50° to 150°C)	1	BL
HG15	41225 1	34		HYDROGAUGE MANOMETER (15")	1	P
HR33LJ	15070 2	27	Z	CALIBRATION SALT MGCL 33% FOR EP8703/06/09/10	1	BX
HR75LJ	15070 2	27	Z	CALIBRATION SALT NACL 75% FOR EP8703/06/09/10	1	BX
HT10	01501 8	27		USB TEMPERATURE-HUMIDITY DATA LOGGER W/ LED & GPP	1	BL
				<b>NISTHT10</b>	<b>NIST CERTIFICATION FOR HT10 AVAILABLE</b>	
HT20	01503 2	27		USB TEMPERATURE-HUMIDITY DATA LOGGER W/ LCD & GPP	1	BL
				<b>NISTHT20</b>	<b>NIST CERTIFICATION FOR HT20 AVAILABLE</b>	
HT50	01504 9	27		USB TEMPERATURE-HUMIDITY DATA LOGGER W/ LCD & IR THERMOMETER & GPP	1	BL
				<b>NISTHT50</b>	<b>NIST CERTIFICATION FOR HT50 AVAILABLE</b>	
HWA4214SD	01456 1	33		HOT WIRE ANEMOMETER-THERMOMETER WITH DATA LOGGING SD CARD	1	CA
				<b>NISTHWA4214SD</b>	<b>NIST CERTIFICATION FOR HWA4214SD AVAILABLE</b>	
INT8819	46135 8	26	Z	USB INTERFACE KIT FOR DL8835	1	BX
IRT105	20196 1	19		POCKET IRT, 6:1 D:S RATIO, ADJUSTABLE EMISSIVITY, -22 to 482°F (-30 to 250°F)	1	BL
				<b>NISTIRT105</b>	<b>NIST CERTIFICATION FOR IRT105 AVAILABLE</b>	
IRT206	02060 9	19		THE HEAT SEEKER™ 8:1 MID-RANGE INFRARED THERMOMETER	1	BL
				<b>NISTIRT206</b>	<b>NIST CERTIFICATION FOR IRT206 AVAILABLE</b>	
IRT207	01403 5	19		THE HEAT SEEKER™ 8:1 MID-RANGE INFRARED THERMOMETER	1	BL
IRT657	01480 6	20		12:1 WIDE-RANGE INFRARED THERMOMETER	1	BL
				<b>NISTIRT657</b>	<b>NIST CERTIFICATION FOR IRT657 AVAILABLE</b>	
IRT659K	01598 8	20	*	12:1 INFRARED THERMOMETER WITH "K" TYPE THERMOCOUPLE & ADJUSTABLE EMISSIVITY	1	BL
IRT730K	01643 5	39	*	30:1 ULTRA WIDE-RANGE IR THERMOMETER W/ "K" PORT	1	BL
IRTC50	01442 4	20		8:1 ENERGY AUDIT IR THERMOMETER/SCANNER WITH STAR BURST LASER TARGETING	1	BL
				<b>NISTIRTC50</b>	<b>NIST CERTIFICATION FOR IRTC50 AVAILABLE</b>	



MODEL No.	UPC	CAT. PG.	KEY	DESCRIPTION	PKG. QTY	PKG. TYPE
<b>TEST &amp; MEASUREMENT INSTRUMENTS (continued)</b>						
KEL57060	01662 6	38	*	ELECTRICIAN'S KIT - COMBINES A DMM570 MULTIMETER, A DAMP60 600A AC CLAMP METER AND A PIPE WRAP THERMOCOUPLE	1	CA
KHV57030	01664 0	38	*	HVAC METER KIT - COMBINES A DMM570 MULTIMETER, AN IRT730K 30:1 IR THERMOMETER AND A PIPE WRAP THERMOCOUPLE	1	CA
KHPV57068	01663 3	38	*	HVAC DMM KIT - COMBINES A DMM570 MULTIMETER, A DAMP60 600A AC CLAMP METER	1	CA
LT2234C	42120 8	37		NON-CONTACT LASER TACHOMETER	1	BX
<b>NISTLT2234C</b>				<b>NIST CERTIFICATION FOR LT2234C AVAILABLE</b>		
LTH8809DL	01309 0	26		TEMPERATURE/HUMIDITY MONITOR - DATA LOGGER	1	BX
<b>NISTLTH8809DL</b>				<b>NIST CERTIFICATION FOR LTH8809DL AVAILABLE</b>		
MMH800	01486 8	24		PIN/PINLESS MOISTURE METER WITH TEMPERATURE & HUMIDITY	1	BL
MSV350D	01275 8	47		DIGITAL 3-IN-1 LCD STUD/VOLTAGE/METAL DETECTOR	1	BL
NGD268	41537 5	28		COMBUSTIBLE GAS LEAK DETECTOR WITH WIDE OPERATING RANGE FOR EXTREME WEATHER CONDITIONS	1	CS
NGD8800	40880 3	28		COMBUSTIBLE GAS LEAK DETECTOR	1	CS
P16PIP	01578 0	6-7, 9		PIPE AND DUCT INSPECTION PROBE AND REEL SET	1	CA
P230-1	01386 1	13		CLOSE FOCUS 12MM DIAMETER PROBE FOR ALL SEEKER SYSTEMS—1M (3.3 FT.) LONG	1	BX
P230-1F	01474 5	13		FAR FOCUS 12MM DIAMETER PROBE FOR ALL SEEKER SYSTEMS—1M (3.3 FT.) LONG	1	BX
P230-1X	01387 8	13		1M (3.3 FT.) EXTENSION FOR 12MM DIAMETER PROBE	1	BX
P230-2X	01390 8	13		2M (6.6 FT.) EXTENSION FOR 12MM DIAMETER PROBE	1	BX
P230-3X	01391 5	13		3M (9.8 FT.) EXTENSION FOR 12MM DIAMETER PROBE	1	BX
P4214SD	01548 3	35		REPLACEMENT PROBE FOR HWA4214SD	1	BX
P455-1N	01466 0	13		5.5MM DIA. PROBE X 1M LONG FOR DCS100, 200, 300 AND 400 SYSTEMS	1	BX
P455-2N	01460 1	13		5.5MM DIA. PROBE X 2M LONG FOR DCS100, 200, 300 AND 400 SYSTEMS	1	BX
P455-3N	01470 7	13		5.5MM DIA. PROBE X 3M LONG FOR DCS100, 200, 300 AND 400 SYSTEMS	1	BX
P495-1N	01423 3	13		9MM DIA. PROBE X 1M LONG FOR DCS100, 200, 300 AND 400 SYSTEMS	1	BX
P495-2N	01467 7	13		9MM DIA. PROBE X 2M LONG FOR DCS100, 200, 300 AND 400 SYSTEMS	1	BX
P495-3N	01468 4	13		9MM DIA. PROBE X 3M LONG FOR DCS100, 200, 300 AND 400 SYSTEMS	1	BX
P600-2	01596 4	16		70 IN. LONG, 9.8MM DIA. PROBE FOR SEASCOPE 600 or SEASCOPE 660	1	BX
P600-3	01587 1	16		105 IN. LONG, 9.8MM DIA. PROBE FOR IBOSCOPE, SEASCOPE 600 or SEASCOPE 660	1	BX
P8706	10043 1	27	Z	EXTERNAL TEMPERATURE PROBE FOR EP8706	1	BX
P8901	40006 7	34	Z	REPLACEMENT VANE FOR DCFM8901	1	BX
P8912	01291 8	35	Z	REPLACEMENT VANE FOR WDCFM8912	1	BL
PCT2236B	42110 9	37		CONTACT/NON-CONTACT LASER CONTACT TACHOMETER	1	BX
<b>NISTPCT2236B</b>				<b>NIST CERTIFICATION FOR PCT2236B AVAILABLE</b>		
PCT900	40900 8	37		COMBINATION CONTACT/NON-CONTACT LASER TACHOMETER	1	BX
<b>NISTPCT900</b>				<b>NIST CERTIFICATION FOR PCT900 AVAILABLE</b>		
PM003	01370 0	11		SET OF THREE MIRRORED VIEWING TIPS (70°, 90°, 110°) FOR ALL 5.5MM PROBES EXCEPT P16181/2/3HP	1	BX
PM930SD	01450 9	35		DATA LOGGING PRESSURE METER W/ EXCEL FORMATTED SD CARD	1	BX
PNG2000A	41501 6	29		THE SEEKER™ PEN STYLE COMBUSTIBLE GAS DETECTOR WITH WRIST STRAP, LED & AUDIBLE ALERT	1	BL
PS10	01527 8	35	Z, SO	PRESSURE SENSOR FOR PM930SD 10BAR	1	BX
PS100	01533 9	35	Z, SO	PRESSURE SENSOR FOR PM930SD 100 BAR	1	BX
PS2	01491 2	35	Z	PRESSURE SENSOR FOR PM930SD 2BAR	1	BX
PS400	01534 6	35	Z, SO	PRESSURE SENSOR FOR PM930SD 400BAR	1	BX
PS5	01528 5	35	Z, SO	PRESSURE SENSOR FOR PM930SD 5BAR	1	BX
PS50	01532 2	35	Z, SO	PRESSURE SENSOR FOR PM930SD 50 BAR	1	BX
PT5	01561 2	13		MIRROR, GUIDE BALL AND THREAD PROTECTOR ACCESSORIES FOR 5.5mm diameter PROBE	1	P
PT9	01560 5	13		MIRROR, MAGNET, HOOK AND THREAD PROTECTOR ACCESSORIES FOR 9MM DIAMETER PROBE	1	P
PT12	01559 9	13		MIRROR, MAGNET AND HOOK ACCESSORIES FOR 12MM DIAMETER PROBE	1	P
PT300M	21060 4	21		DIGITAL FOLD-IN SERVICE THERMOMETER WITH MIN/MAX, DATA HOLD & STAINLESS STEEL PROBE	1	BL
PTH8707	01402 8	26		THE SEEKER™ THERMO-HYGROMETER PEN REPLACES LAM122	1	BL
RCV100	01446 2	17		WIRELESS USB RECEIVER COMPATIBLE W/ DCS100 AND DCS400 SERIES	1	BL
REF401	44401 6	36		GLYCOL REFRACTOMETER TO MEASURE FREEZING POINT (-60° TO 32°F)	1	BX
RLD380L	40141 5	30		HIGH PERFORMANCE REFRIGERANT LEAK DETECTOR	1	CS
RLD382P	00382 4	30		HIGH PERFORMANCE REFRIGERANT LEAK DETECTOR WITH PUMP	1	CS
RLD400	01587 2	29		DIGITAL REFRIGERANT LEAK DETECTOR WITH PUMP	1	CA
RLD440	01675 6	31	*	DIGITAL DUAL MODE REFRIGERANT LEAK DETECTOR	1	CA
RS380	01378 6	30	Z	REPLACEMENT SENSOR FOR RLD380L & RLD382P	1	PB
RT800	43021 4	37	NCL	REFLECTIVE TAPE FOR NON-CONTACT LASER TACHOMETERS	1	P
SAM990DW	10025 7	25		DIGITAL PSYCHROMETER WITH TEMPERATURE, HUMIDITY, DEW POINT & WET BULB	1	BL
SDRD1	01502 5	35	Z	SD CARD READER FOR DTH3007SD, HWA4214SD AND PM930SD	1	BX
SSC6	51145 9	49	*	STARTER SWITCH 16/2, 20 AMP, PUSH BUTTON (UL SWITCH)	1	P
ST600LED	51115 2	47		BRIGHT RED LED SCREWDRIVER/CONTINUITY TESTER, DROP RESISTANT TO 10 FT	1	BL
THGR268	60073 3	25		WIRELESS TEMPERATURE/HUMIDITY SENSOR FOR EMR963HG	1	BX
TL100	51125 1	49		36" TEST LEADS, 16 GAUGE WITH BOOTS	1	P
TPK03	25003 7	35	Z	"K" TYPE SURFACE THERMOCOUPLE PROBE WITH EXTENDABLE CORD FOR DTH3007SD & HWA4214SD	1	P
TPK05	25005 1	35	Z	"K" TYPE PIERCING PROBE, STAINLESS STEEL WITH EXTENDABLE CORD FOR DTH3007SD & HWA4214SD	1	P
TPK500	25015 0	35		"K" TYPE PROBE FOR UP TO 500°F FOR DTH3007SD & HWA4214SD	1	P
VR40	01634 3	48	*	NON-CONTACT VOLTAGE DETECTOR WITH ADJUSTABLE SENSITIVITY AND 4:1 IR THERMOMETER	1	BL
VS3000A	51000 1	48		AUDIBLE/VISUAL NON-CONTACT VOLTAGE TESTER, ETL CERTIFIED & UL APPROVED	1	BL
WA500	80140 8	36		WATER ALARM	1	BL
WDCFM8912	01249 9	33		DIGITAL AIR FLOW METER WITH CFM, BTU, TEMP, HUMIDITY, DP, FPM, MPH, KPH, MPS, KNOTS & WET BULB	1	CS
<b>NISTWDCFM8912</b>				<b>NIST CERTIFICATION FOR WDCFM8912 AVAILABLE</b>		

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MODEL No.	UPC	CAT. PG.	KEY	DESCRIPTION	PKG. QTY.	PKG. TYPE
<b>HAND TOOLS</b>						
13	22006 6	50		Drill Gage, 61 to 80"	3	C
20	22036 3	50		American Standard Wire Gage (Round)	3	C
21	22041 7	50		U.S. Standard Sheet Metal Gage (Round)	3	C
69	41036 8	57		Adjustable Dial Wire Stripper	6	C
115	01150 3	52		Hose & Tubing Cutter	3	C
115B	11500 3	52		Replacement Cutting Blade (Item #115)	3	C
118	01181 7	52		Heavy-Duty PVC Pipe Cutter-2"	1	C
118BG	01180 0	52		Replacement Cutting Blade (Item #118)	2	C
119	31173 3	52		One-handed Plastic Pipe and Hose Cutter (1/8" TO 1-5/8")	2	C
119BG	01194 7	52		Replacement Blade for #119	3	C
120	12003 8	51		Tubing Cutter (1/8" to 1-1/8")	5	C
123R	12009 0	51		Micro Tubing Cutter (5/8")	5	C
129X	12032 8	51		Mini Tubing Cutter (7/8")	5	C
126	12017 5	51		Pipe and Tubing Cutter (2-5/8")	2	C
133	13300 7	51		E•Z Ratcheting Tubing Cutter (1-1/8")	2	C
134	22077 6	58		Inner/Outer Reamer (1-1/2")	2	C
146	01460 3	54		"6" Digital Fractional Caliper (Carbon Fiber)	1	C
151	14008 1	50		Standard Flaring Tool (3/16" - 5/8")	3	C
400	42217 0	55		Telescoping Alligator Clip	6	C
481	00481 9	58		Swivel Head Deburring Tool with Handle Storage	4	C
482	42324 5	58		Swivel Head Deburring Tool with Metal Handle	5	C
482A	42327 6	58		Reamer Blade: St. Copper, Alum. & Plastic	10	C
482B	42330 6	58		Reamer Blade: Brass and Cast Iron	10	C
502	05020 5	53	*	Cordless Lighted Precision Screwdriver	4	BL
505	02139 7	57		Cordless Precision Engraver	5	C
558	42471 6	56		1" x 2" Adjustable Inspection Mirror, 6" Arm (9" O/A)	5	C
559	05590 3	56		Long Telescoping Inspection Mirror	1	BL
560	42473 0	56		3-1/2" x 2" Inspection Mirror, 11-1/2" Extendable Arm	5	C
744	74401 2	53		Pocket 4-IN-1 Screwdriver	10	C
744CD	00744 6	53		4-IN-1 Pocket Mini Screwdriver	20	DB
744DB	74400 6	53		Pocket 4-IN-1 Screwdriver Display	24	DB
745DB	02147 3	53		4-IN-1 Pocket Screwdriver	24	DB
1191	01191 6	52		PVC & Hose Cutter (1-5/8")	3	C
1433	01433 7	54	*	3" Digital Fractional Caliper (Carbon Fiber)	4	BL
5561	05531 3	56	PC	Metal Inspection Mirror	1	BL
5562	05562 0	56	PC	Rectangular Metal Inspection Mirror	1	BL
5563	05563 7	56	PC	Round Metal Inspection Mirror	1	BL
8140	02196 0	54	* NCL	MultiPro Screwdriver - Standard	6	P
8141	02197 7	54	* NCL	MultiPro Screwdriver - Tamper Proof	6	P
8142	02198 4	54	* NCL	MultiPro Screwdriver - HVAC	6	P
70390	70390 3	55	* Z	Lighted Magnetic/Mechanical Pickup 24" OAL	4	BL
70391	70391 0	55	* Z	Lighted Magnetic/Mechanical Pickup 36" OAL	4	BL
70393	70399 6	55		UT Lighted Mechanical Pick-Up, 12"	4	BL
70396	26003 1	55		UT Lighted Mechanical Pick-Up, 24"	4	BL
70399	70393 4	55		UT Lighted Mechanical Pick-Up, 36"	4	BL
70555	22344 9	57		Utility Telescoping Mirror - 1-3/8" diameter	5	C
70557	22347 0	57		Utility Telescoping Mirror - 2-1/4" diameter	5	C
75108	75108 9	53	*	8-IN-1 Lighted Precision Screwdriver	4	BL
80557	80557 7	56		Telescoping Lighted Round Inspection Mirror	4	BL
80560	02146 5	56		Telescoping Lighted Rectangular Inspection Mirror	4	BL
86014	86014 9	58		The "Quad" 14-Piece Saw/Driver Set	6	C
707862	70786 4	57		4 pc Interchangeable Probe Set, Stainless Steel	3	C
750543	50543 9	55		UltraTech™ Magnifier-3.5"	1	C
800543	26001 7	55		"LumiLens" Lighted Magnifier	4	BL
LR-44	72125 4	54		Replacement Battery	1	C
RW121/2	12023 6	51		Gold Standard Tubing Cutter Wheels, 2 per card	10 cards	C
RW122	12027 4	51		Gold Standard Iron/PVC Pipe Cutter Wheel	6	C
S106	11009 1	50		6 Steel Spring Tubing Benders (1/4" - 5/8")	1 set	PB

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