EXTECH®

MEASUREMENT SOLUTIONS

TOUGH TOOLS
FOR TOUGH BUDGETS

Automotive | Building | Electrical | Electronics | Environmental | Health & Safety | HVAC/R | Industrial | Lab & Water Quality | Manufacturing | Plant Maintenance

SOLUTIONS FOR

Meeting the needs of professionals in numerous industries and applications, Extech continues to build brand loyalty and trust among electrical contractors, industrial mechanics, facilities maintenance, HVAC/R technicians, sustainability & safety directors, public works managers, building & restoration contractors, and more.

ELECTRICAL

When electricians and mechanics need test tools for their equipment installation, maintenance, and repair work, Extech meters and testers are up to the task. Use our tools to track down electrical faults and power quality problems, detect live wires before working on repairing cable lines, diagnose motors and controllers, and find emerging issues before damage occurs.

BUILDING & RESTORATION

Nurturing mold, rot, corrosion, and damage, moisture is a serious threat to structural integrity. Extech moisture & humidity meters monitor both ambient conditions and moisture levels in building materials. This information allows the restoration contractor to make an educated decision when to remove drying equipment. They provide accurate readings of moisture and humidity problems within the structure and help determine amount of water damage in the building. Other meters, such as multimeters and infrared thermometers, also help diagnose and repair key building equipment.

PROFESSIONALS

HVAC/R

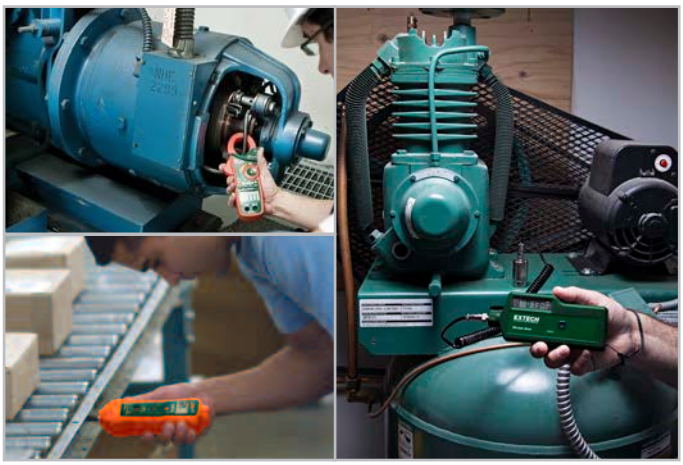
When HVAC/R technicians need to work on electronic, mechanical, airflow, water, and refrigeration systems, they rely on Extech. Use our versatile tools – airflow meters, thermocouples, IR thermometers, temperature dataloggers, humidity meters, multifunction multimeters and clamp meters, and video borescopes – to perform HVAC/R installations and repairs.

SAFETY & HEALTH

When sustainability and health become mission-critical, Extech is there with the equipment that helps managers optimize environmental conditions for safety, comfort and savings. Use our products to detect unsafe conditions, monitor indoor air quality for levels of CO/CO_2 levels, locate air distribution imbalances, test water quality, and measure indoor and outdoor sound and light levels.

FACILITY MAINTENANCE

When plant technicians need to keep their facilities running smoothly, Extech is there with the tools they need. Use our meters to trace intermittent electrical glitches, overhaul bearings, pumps and compressors, perform predictive vibration analysis, measure ambient and component temperature differentials, log indoor humidity levels, and help ensure overall productivity and safety.



EX300 Series Mini Digital Multimeters + Voltage Detector

Combination Multimeter with non-contact AC Voltage Detector

- Built-in non-contact AC Voltage Detector with red LED indicator and audible beeper
- Large 1" digits makes display easy to read
- CAT III-600 V, CAT II-1000 V safety rating
- Complete with stand, test leads, protective holster, batteries, general purpose Type K bead wire temperature probe (EX330 only)

Model EX310 (Manual Ranging)

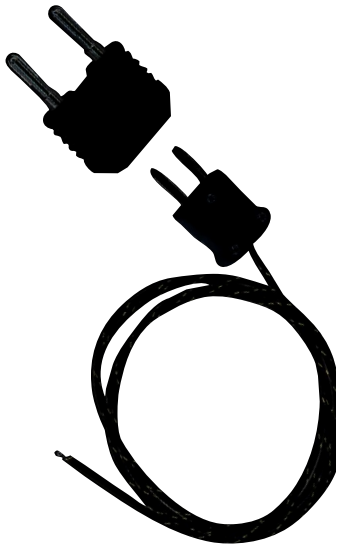
- Battery test 1.5 V and 9 V

Model EX330 (Autoranging)

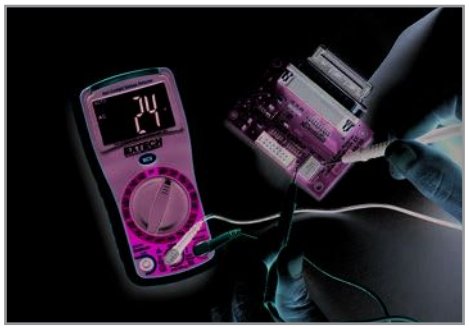
- Data Hold and Auto Power Off
- Advanced functions include Type K Temperature, Capacitance, and Frequency

SPECIFICATIONS	EX310 (MANUAL RANGING)	EX330 (AUTORANGING)
Display Count	2000	4000
Basic Accuracy	0.50%	0.50%
NCV Detector	100 to 600 V AC	100 to 600 VAC
DC Voltage	0.1 mV to 600 V	0.1 mV to 600 V
AC Voltage	0.1 V to 600 V	0.1 mV to 600 V
DC/AC Current	0.1 mA to 10 A	0.1 µA to 10 A
Resistance	0.1 Ω to 2000 kΩ	0.1 Ω to 40 MΩ
Capacitance	—	0.001 nF to 200 µF
Frequency	—	0.001 Hz to 10 MHz
Temperature	—	-4 to 1382°F (-20 to 750°C)
Duty Cycle	—	0.1 to 99.9%
Diode/Continuity	Yes	Yes
Dimensions	5.7x2.9x1.6" (147x76x42 mm)	5.7x2.9x1.6" (147x76x42 mm)
Weight	9 oz (260 g)	9 oz (260 g)

ORDERING	
EX310	Manual Ranging 9 Function Mini Multimeter + Non-Contact Voltage Detector
EX330	Autoranging 12 Function Mini Multimeter + Non-Contact Voltage Detector
TP873	Replacement Bead wire Temperature Probe (-22 to 572°F/-30 to 300°C)
TL803	Replacement Test Leads



Integrated Non-Contact Voltage Detector for quickly checking the presence of live wires before testing.



EX350 Series True RMS Multimeters with LPF and LoZ

EX350

EX355
with Temperature

Professional meters loaded with advanced features and functions including Low Pass Filter (LPF) and Low Impedance (LoZ)

- True RMS for accurate AC measurements
- 0.5% basic accuracy
- Low Pass Filter (LPF) for accurate measurement of variable frequency drive signals
- LoZ prevents false readings caused by ghost voltages
- Built-in Non-Contact AC Voltage Detector (NCV) with LED indicator
- Data Hold freezes the reading on the display
- Min/Max/Max-Min captures highest and lowest readings and the difference between them
- Relative Mode for Capacitance Zero and offset adjustment
- Continuity and Diode Test
- Auto Power Off conserves battery life
- CAT III-600 V safety rating

Model EX350

- 4000 count backlit LCD display
- Complete with test leads and two AA batteries

Model EX355

- 6000 count backlit LCD display
- Type K Temperature
- Complete with test leads, two AA batteries, and general purpose bead wire temperature probe

SPECIFICATIONS	EX350	EX355
Display Count	4000	6000
Basic DCV Accuracy	±0.5%	±0.5%
NCV Detector	Yes	Yes
DC/AC Voltage	0.01 mV to 600 V	0.01 mV to 600 V
DC/AC Current	0.1 µA to 10.00 A	0.1 µA to 10.00 A
Resistance	0.1 Ω to 40.00 MΩ	0.1 Ω to 60.00 MΩ
Capacitance	1 pF to 60.00 mF	1 pF to 60.00 mF
Frequency	0.001 Hz to 10 MHz	0.001 Hz to 10 MHz
Temperature (Type K)	—	-40 to 1832°F (-40 to 1000°C)
Duty Cycle	0.1 to 99.9%	0.1 to 99.9%
Diode Test	3.2 V	3.2 V
Continuity	Audible	Audible
Dimensions/ Weight	6.7x3.2x1.9" (175x81x48.5 mm)/13.1 oz (370 g)	

ORDERING	
EX350	True RMS Multimeter + NCV
EX355	True RMS Multimeter + NCV + Temperature
TL803	Standard Test Leads
TP200	Type K Clamp Probe (212°F/100°C)

Low Pass Filter (LPF) ensures accurate AC Voltage measurements on a variable frequency drive.

Verify Temperature output on HVAC units using Model EX355

EX400A Series Professional Multimeters

EX410A

EX430A

EX470A
DMM+IR Thermometer

Models with or without the built-in Infrared Thermometer, auto or manual ranging, True RMS or averaging

- Large backlit LCD display with easy-to-read 1" digits
- Type K thermometer built-in for temperature measurements
- Low current capability: measure down to 0.1 µA
- Input fuse protection and mis-connection warnings
- CAT III-600 V safety rating
- Complete with CAT III test leads, multi-position tilt stand and velcro strap for hanging, protective holster with test lead holder, bead wire temperature probe, and 9 V battery

Model EX410A (Manual Ranging)

- Averaging multimeter

Model EX430A (Autoranging)

- True RMS for accurate AC measurements
- Relative function

Model EX470A (Autoranging)

- Built-in non-contact Infrared (IR) Thermometer
- True RMS for accurate AC measurements
- Relative function

SPECIFICATIONS	EX410A	EX430A	EX470A
Display Count	2000	4000	4000
Temperature (IR)	—	—	58 to 518°F (-50 to 270°C)
Averaging/True RMS	Averaging	True RMS	True RMS
Basic Accuracy (VDC)	±0.5%	±0.3%	±0.3%
AC Voltage	1 mV to 600 V	0.1 mV to 600 V	0.1 mV to 600 V
DC Voltage	0.1 mV to 600 V	0.1 mV to 600 V	0.1 mV to 600 V
AC Current	0.1 µA to 10 A	0.1 µA to 10 A	0.1 µA to 10 A
DC Current	0.1 µA to 10 A	0.1 µA to 10 A	0.1 µA to 10 A
Resistance	0.1 Ω to 20 MΩ	0.1 Ω to 40 MΩ	0.1 Ω to 40 MΩ
Capacitance	—	0.01nF to 100µF	0.01 nF to 100 µF
Frequency	—	0.001 Hz to 10 MHz	0.001 Hz to 10 MHz
Temperature (Type K)	-4 to 1382°F (-20 to 750°C)	-4 to 1382°F (-20 to 750°C)	-4 to 1382°F (-20 to 750°C)
Duty Cycle	—	0.1% to 99.9%	0.1% to 99.9%
Diode Test/Continuity	Yes	Yes	Yes
Dimensions/ Weight	7.4x3.2x2" (187x81x50 mm)/0.75 lbs (342 g)		

ORDERING	
EX410A	Manual Ranging Multimeter
EX430A	True RMS Autoranging Multimeter
EX470A	True RMS Autoranging Multimeter + IR Thermometer
TL803	Standard Test Leads
TP200	Type K Clamp Probe (212°F/100°C)

Built-in non-contact IR Thermometer allows you to safely perform non-contact temperature scans.

EX500A CAT IV Heavy Duty True RMS Multimeters

EX505A

EX520A

EX530A

Complete with double molded test leads, magnetic hanging strap, general purpose Type K bead wire temperature probe, soft case, and one 9 V battery

Waterproof (IP67) rugged double molded design for heavy duty application use

Waterproof (IP67)/drop proof (6.5 ft/2 m) rugged design for heavy duty use

- True RMS for accurate AC measurements
- 1000 V input protection on all functions
- Dual sensitivity frequency functions; Diode open circuit voltage of 2.8 V DC
- Auto Power Off with disable feature
- CAT IV-600 V safety rating

Model EX505A

- 4,000 count backlit LCD
- 0.5% basic accuracy
- Data Hold, Relative, and 10 A max Current

Model EX520A

- 6000 count—high resolution backlit LCD
- 0.09% basic accuracy
- Min/Max, Data Hold, Relative, and 20 A max Current

Model EX530A

- 40,000 count—highest resolution backlit LCD
- 0.06% basic accuracy
- Min/Max, Data Hold, Relative, 20 A max Current, and Peak Hold (AC only)

SPECIFICATIONS	EX505A	EX520A	EX530A
Basic Accuracy	±0.5%	±0.09%	±0.06%
DC Voltage	0.1 mV to 1000 V DC	0.1 mV to 1000 V DC	0.01 mV to 1000 V DC
AC Voltage	0.1 mV to 1000 V AC	1 mV to 1000 V AC	0.01 mV to 1000 V AC
DC/AC Current	0.1 µA to 10 A	0.1 µA to 20 A	0.01 µA to 20 A
Resistance	0.1 Ω to 40 MΩ	0.1 Ω to 40 MΩ	0.01 Ω to 40 MΩ
Capacitance	0.01 nF to 100 µF	0.01 nF to 1000 µF	0.001 nF to 40 mF
Frequency (electrical)	5 Hz to 1 kHz	10 Hz to 400 Hz	40 Hz to 400 Hz
Frequency (electronic)	0.001 Hz to 10 MHz	0.001 Hz to 40 MHz	0.001 Hz to 100 MHz
Temperature (Type K)	-4 to 1382°F/-20 to 750°C	-4 to 1382°F/-20 to 750°C	-4 to 1382°F/-20 to 750°C
Duty Cycle	0.1 to 99.9%	0.1 to 99.9%	0.1 to 99.9%
Diode/Continuity	Yes/Audible	Yes/Audible	Yes/Audible
Dimensions/Weight	7.25x3.25x2.25" (184x83x57 mm)/12.3 oz (349 g)		

ORDERING	
EX505A	Heavy Duty True RMS Multimeter (6000 count)
EX520A	High accuracy True RMS Multimeter (0.09%)
EX530A	Heavy Duty True RMS Multimeter (50000 count)

EX505A-K Heavy Duty Industrial Multimeter Kit

CAT IV Multimeter and AC Voltage Detector With 8 piece test lead kit

- Kit includes EX505A True RMS waterproof (IP67)/drop-proof Multimeter, DV25 Dual Range Non-contact AC Voltage Detector + Flashlight, TL808 8-piece Professional Test Lead Kit, plus professional double-molded test leads, Type K thermocouple bead probe with banana input adaptor, and magnetic hanging strap
- Supplied in a soft carrying case that provides protection and organization for the meters and accessories
- Dimensions: 9.8x8x2" (248x203x51 mm); Weight: 1.2 lbs (544 g)

Model EX505A: Industrial grade, CAT IV-600 V, 4000 count display, waterproof (IP67), CE/UL listed, drop-proof, rugged multimeter with True RMS functions (see p. 7)

Model DV25: Dual Range Non-Contact Voltage (NCV) Detector (24 to 1000 V AC/100 to 1000 V AC) + Flashlight with Audible/ Visual indication, and double-molded housing CAT IV-1000 V, CE/UL (see p. 20)

Model TL808: 8-Piece Professional Test Lead Kit with CAT III-1000 V rating

ORDERING (VISIT WWW.EXTECH.COM FOR PRODUCT SPECIFICATIONS)	
EX505A-K	Heavy Duty Industrial Multimeter Kit

DM220 CAT IV Pocket Multimeter + NCV

Includes test leads and two AAA batteries

Autoranging DMM with 4000 count LCD display, NCV and built-in Flashlight

- Non-Contact Voltage detection identifies live circuits
- Rugged double molded housing; CAT IV-600 V, CAT III-1000 V safety rating

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY (%RDG)
DC/AC Voltage	600 V	0.1 mV DC/1 mV AC	±0.8% DC/±1.5% AC
DC/AC Current	200 mA	0.1 µA	±2.0% DC/±2.5% AC
NC Voltage	100 to 600 VAC		
Resistance	40 MΩ	0.1 Ω	±0.8%
Frequency	10 kHz	0.001 Hz	±2.0%
Capacitance	200 µF	0.001 nF	±5.0%
Duty Cycle	0.5 to 99%	0.5%	±(2.0% reading + 5 digits)
Diode/Continuity	Yes/Audible		
Dimensions/Weight	4.72x2.2x1.6" (120x55x540 mm)/5.12 oz (145 g)		

ORDERING	
DM220	CAT IV Pocket Multimeter + NCV

MN35/MN36 Digital Mini Multimeters

Autoranging or Manual ranging multimeters with Temperature function

- Large easy to read digital display

MN35 (Manual Ranging/ 8 Functions)

- 1.5 V and 9 V Battery test

MN36 (Autoranging/ 10 Functions)

- AC Current, Capacitance and Frequency measurements

SPECIFICATIONS	MN35	BASIC ACCURACY	MN36	BASIC ACCURACY
DC Voltage	600 V (0.1 mV)	±0.5%	600 V (0.1 mV)	±0.5%
AC Voltage	600 V (0.1 V)	±1.2%	600 V (0.1 V)	±1.2%
DC Current	10 A (0.1 mA)	±1.5%	10 A (0.1 µA)	±1.2%
AC Current	—	—	10 A (0.1 µA)	±1.5%
Resistance	20 MΩ (0.1 µΩ)	±0.8%	40 MΩ (0.1 µΩ)	±1.2%
Capacitance	—	—	100 µF (0.001 nF)	±3.0%
Frequency	—	—	5 MHz (0.01 Hz)	±1.0%
Temperature	-4 to 1400°F (1°) -20 to 750°C	±(1%+4°)	-4 to 1400°F (1°) -20 to 750°C	±(1%+4°)
Battery Test	9 V and 1.5 V		—	
Dimensions/Wt	5.43x2.83x1.5" (138x72x38 mm)/5.4 oz (153 g)			

Includes holster with stand, Type K bead wire probe, battery, and test leads

ORDERING	
MN35	Manual Ranging Mini Digital Multimeter
MN36	Autoranging Mini Digital Multimeter

381676A Pen DMM with Non-Contact Voltage Detector

Autoranging multimeter with non-contact voltage detection

- Autoranging with Data Hold, Range Hold, and Maximum Hold features
- CAT III-600 V; Auto power off, overload and low battery indication

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY
Non-contact Voltage	>110 V AC		
AC/DC Voltage	200 mV, 2, 20, 200, 600 V	0.1 mV	AC: ±0.8%; DC: 0.7%
AC/DC Current	20 mA, 200 mA	0.01 µA	AC: ±2%; DC: 0.1.5%
Resistance (Ω)	200, 2 k, 20 k, 200 k, 2 M, 20 MΩ	0.1Ω	±0.8%
Logic Test	0 to 1.5 V (Green LED), 1.5 to 3.5 V (LED off), 3.5 to 5 V (Red LED)		
Diode/Continuity	Yes/Audible		
Dimensions/Weight	8.2x1.5x1.1" (208x38x29 mm)/4.6 oz (129 g)		

Includes test leads, two alligator clips, two 1.5 V AAA batteries, and soft case

ORDERING	
381676A	Pen DMM with Non-Contact Voltage Detector

EX820A 1000 A AC Clamp Meter + IR Thermometer

Choice of manual ranging or autoranging model

- Built-in non-contact IR Thermometer design with laser pointer for locating hot spots
- Diode open circuit voltage of 2.8 V DC
- Peak hold captures transients
- Data Hold, Min/Max, and Auto Power Off
- Complete with test leads, 9 V battery, and case; general purpose Type K probe included
- Autoranging with True RMS AC Voltage and Current measurements provide accurate readings regardless of waveforms and Type K temperature function

SPECIFICATIONS	EX820A
True RMS	Yes
Manual/Autoranging	Autoranging
Display counts	4000 count backlit LCD
Jaw size/Cable size	1.7" (43 mm); 750 MCM
AC Current (Max Res.)	1000 A (0.1 A)
Basic ACA Accuracy (% rdg)	±2.5% (AC)
AC/DC Voltage (Max Res.)	600 V (0.1 mV)
Resistance (Max Res.)	40 MΩ (0.1 Ω)
Capacitance (Max Res.)	40 mF (0.001 nF)
Frequency (Max Res.)	4 kHz (1 Hz)
Temperature (Type K)	-4 to 1400°F (-20 to 760°C)
Temperature (IR)	-58 to 518°F (-50 to 270°C)
Distance to Spot Ratio (IR)	8:1
Diode (2.8V)/Continuity	Yes/Audible
UL, ETL, CE, Category Rating	UL, CE, CAT III-600 V
Dimensions/Weight	10.6x4.3x2" (270x110x50 mm)/13.6 oz (386 g)

ORDERING	
EX820A	1000A True RMS AC Clamp Meter with IR

EX840A CAT IV 1000 A True RMS AC/DC Clamp Meter + IR

CAT IV 600 V approval rating assures maximum safety and functionality

- AC/DC Voltage to 1000 V and AC/DC Current to 1000 A
- True RMS AC Voltage and Current measurements
- Built-in non-contact IR Thermometer with laser pointer
- Peak Hold, Data Hold, Min/Max, and Auto Power off
- Includes CAT IV test leads, 9 V battery, Professional test lead set, general purpose Type K probe, and case

SPECIFICATIONS	EX840A
True RMS	Yes
Manual/Autoranging	Autoranging
Display counts	4000 count backlit LCD
Jaw size/Cable size	1.7" (43 mm); 750 MCM
AC Current (Max Res.)	1000 A (0.1 A)
DC Current (Max Res.)	1000 A (0.1 A)
Basic ACA Accuracy (% rdg)	±2.5% (AC); ±2.5% (DC)
AC/DC Voltage (Max Res.)	1000 V (0.1 mV)
Resistance (Max Res.)	40 MΩ (0.1 Ω)
Capacitance (Max Res.)	40 mF (0.001 nF)
Frequency (Max Res.)	4 kHz (1 Hz)
Temperature (Type K)	-4 to 1400°F (-20 to 760°C)
Temperature (IR)	-58 to 518°F (-50 to 270°C)
Distance to Spot Ratio (IR)	8:1
Diode (2.8V)/Continuity	Yes/Audible
UL, ETL, CE, Category Rating	ETL, CE, CAT IV-600 V; CAT III-1000 V
Dimensions/Weight	10.6x4.3x2" (270x110x50 mm)/13.6 oz (386 g)

ORDERING	
EX840A	1000A True RMS AC/DC Clamp Meter with IR

EX655 True RMS 600 A Clamp Meter + NCV

Professional clamps featuring Low Impedance (LoZ) mode, Low Pass Filter (LPF) and Inrush functions

- True RMS for accurate AC measurements
- 1.18" (30 mm) jaw size accommodates conductors up to 350 MCM
- LoZ prevents false readings caused by ghost voltages
- µA function for HVAC flame rod Current measurements
- Built-in Non-Contact AC Voltage Detector (NCV) with LED indicator
- Data Hold freezes the reading on the display
- Min/Max captures highest and lowest readings
- Convenient LED worklight for viewing in dimly lit area
- 12 Functions including AC/DC Current
- Frequency and Type K Temperature
- Low Pass Filter (LPF) for accurate measurement of variable frequency drive signals
- Inrush mode captures current surges during motor startup
- LCD trending bargraph
- Complete with test leads, general purpose bead wire Temperature probe and 3 AAA batteries

SPECIFICATIONS	EX655
AC Current (Max Res.)	60 A, 600 A (0.01 A)
DC Current	60A ,600A (0.01A)
Basic accuracy	ACA: ±2.5% of rdg; DCA: ±2.5% of rdg
AC/DC µA Current (Max Res.)	600 µA (0.1 µA)
DC Voltage (Max Res.)	1000 V (0.1 mV)
AC Voltage (Max Res.)	750 V (1 mV)
Basic accuracy	ACV: ±1.2% of rdg; DCV: ±0.8% of rdg
Non-Contact Voltage (NCV)	100 to 1000 V
Resistance (Max Res.)	60 MΩ (0.1 Ω)
Capacitance (Max Res.)	60 mF (0.01 nF)
Frequency (Max Res.)	10 Hz to 1 MHz (0.01 Hz)
Temperature (Max Res.)	-40 to 1832°F (1°F) / -40 to 1000°C (1°C)
Continuity Beeper	Yes
Diode Test	Yes
Dimensions / Weight	9x3x1.6" (228x77x41 mm) / 9.4 oz (265 g)

ORDERING	
EX655	True RMS 600 A AC/DC Clamp Meter
TP200	Type K Clamp Probe (212°F/100°C)

EX623A True RMS 400 A Dual Input Clamp Meter + NCV

Built-in dual Type-K thermocouple inputs for T1, T2, and T1-T2 differential

- True RMS for accurate AC measurements
- 1.25" (32 mm) jaw opening for conductors up to 500 MCM
- Built-in Non-Contact Voltage (NCV) detector with LED alert
- DC µA multimeter function for HVAC flame rod Current measurements
- DC Current function ideal for automotive, heavy equipment and marine applications
- Built-in non-contact IR Thermometer
- Data Hold plus fast Peak Hold of current surges during motor startup
- Measures motor capacitors to 40,000 µF
- Auto power off with audible alert and disable function
- Complete with CAT III-600 V, double molded test leads, 9 V battery, two general purpose Type K bead wire probes and case

SPECIFICATIONS	EX623A
AC/DC Current (Max Res.)	400.0 A AC/DC (10 mA)
Basic ACA accuracy	±1.5%
AC/DC Voltage (Max Res.)	600 V (0.1 mV)/600 V (0.01 mV)
DC µA Current (Max Res.)	4000 µA (0.01 µA)
Resistance (Max Res.)	40.000 MΩ (0.01 Ω)
Capacitance (Max Res.)	40 mF (0.01 nF)
Frequency (Max Res.)	40 MHz (0.001 Hz)
Temperature - Type K	-58 to 1832°F (-50 to 1000°C)
Temperature - IR	-58 to 518°F (-50 to 270°C)
Distance to Spot Ratio	8:1
Diode (2.8V)/ Continuity	Yes
Duty Cycle	0.5 to 99.0%
Dimensions / Weight	9x3.1x1.9" (229x80x49 mm) / 10.7 oz (303 g)

ORDERING	
EX623A	600A AC/DC Clamp Meter with IR and Dual Type K
TP200	Type K Clamp Probe (212°F/100°C)

MA440/MA443/MA445 400 A Clamp Meters + NCV

MA440

MA443

MA445

Three models to choose from, with or without True RMS and AC or AC/DC Current functions

- **Model MA440** with Averaging AC Current function
  Model MA443 & MA445 feature True RMS AC Current, Temperature, and Max/Min functions and built-in flashlight
  Model MA445 also measures DC Current and has DC Zero function
- 1.2" (30 mm) jaw size accommodates conductors up to 500 MCM
- Built-in Non-Contact Voltage (NCV) detector
- Relative Mode for Capacitance
- Data Hold freezes reading on display
- Auto Power Off with disable and Low Battery indication
- Large backlit LCD display
- Complete with test leads, three AAA batteries, and pouch; MA443 and MA445 also includes a general purpose Type K Temperature probe

SPECIFICATIONS	MA440 I MA443	MA445
AC Current	4.000 A, 40.00 A, 400.0 A (1 mA)	40.00 A, 400.0 A (10 mA)
DC Current	—	40.00 A, 400.0 A (10 mA)
Current accuracy	AC: ±2.0% | True RMS AC: ±1.8%	True RMS AC: ±2.5%, DC: ±2.0%
DC Voltage	400.0 mV, 4 V, 40 V, 400 V 600 V (0.1 mV)	400.0 mV, 4 V, 40 V, 400 V 600 V (0.1 mV)
AC Voltage	4 V, 40 V, 400 V 600 V (0.1 mV)	4 V, 40 V, 400 V 600 V (0.1 mV)
Basic accuracy	AC: ±1.2% DC: ±0.8%	AC: ±1.2% DC: ±0.8%
Resistance (Ω)	400, 4 k, 40 k, 400 k, 4 M, 40 M (0.1 Ω)	400, 4 k, 40 k, 400 k, 4 M, 40 M (0.1 Ω)
Capacitance	40 nF, 400 nF, 4 µF, 40 µF, 400 µF, 4 mF, 40 mF (0.01 nF)	40 nF, 400 nF, 4 µF, 40 µF, 400 µF, 4 mF, 40 mF (0.01 nF)
Frequency	10 Hz to 1 MHz (0.01 Hz)	10 Hz to 1 MHz (0.01 Hz)
Temperature	— | -40 to 1832°F/-40 to 1000°C (1°F/°C)	-40 to 1832°F/-40 to 1000°C (1°F/°C)
Dimensions/ Weight	9x3x1.6" (228x77x41 mm)/9.3 oz (265 g)	9x3x1.6" (228x77x41 mm)/9.3 oz (265 g)

ORDERING	
MA440	400 A AC Clamp Meter
MA443	True RMS 400 A AC Clamp Meter
MA445	True RMS 400 A AC/DC Clamp Meter

Models MA443 and MA445 have Type K Temperature function (probe included) and built-in flashlight

380947 400 A AC/DC True RMS Mini Clamp Meter

Complete with wrist strap, 2 AA batteries and soft case

True RMS mini-clamp with high 1 mA AC current resolution

- Mini 0.9" (23 mm) jaw size for conductors up to 4/0 AWG
- Non-contact Frequency measurements to 10 kHz through the clamp jaws
- 4000 count LCD with fast 40 segment bargraph
- Data Hold and Min/Max
- One touch Auto Zero
- CAT III-300 V safety rating

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY
AC Current	4 A, 40 A, 100 A, 400 A	0.001 A	±1.5%
DC Current	40 A, 400 A	0.01 A	±1.0%
Frequency (Max Res.)	10 kHz	0.01 Hz	±0.5%
Dimensions/Weight	7x1.8x1.3" (178x45x32 mm)/8 oz (225 g)		

ORDERING	
380947	400 A AC/DC True RMS Mini Clamp Meter

380941 200 A AC/DC Mini Clamp Meter

Complete with test leads, wrist strap, 2 AA batteries and soft case

High resolution mini clamp with Voltage, Frequency, and Resistance

- Mini 0.9" (23 mm) jaw size for conductors up to 4/0 AWG
- High resolution to 10 mA AC/DC
- 4000 count LCD with fast 40 segment bargraph
- Data Hold and Min/Max
- One touch Auto Zero for DC Current measurements
- CAT III-300 V safety rating

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY
AC/DC Current	40 A, 200 A	0.01A	±1.0%
AC/DC Voltage	400 V	0.1V	AC: ±1.5%; DC: ±1.0%
Resistance	400 Ω	0.1 Ω	±1.5%
Frequency	100 kHz	0.001 Hz	±0.5%
Continuity	Yes		
Dimensions/Weight	7x1.75x1.25" (178x45x32 mm)/8 oz (225 g)		

ORDERING	
380941	200 A AC/DC Mini Clamp Meter

MA120 200A AC/DC Mini Clamp Meter + NCV

Complete with two AAA batteries and soft case

Clamp meter with built-in AC Voltage detector + flashlight

- Compact 0.7" (17 mm) jaw size allows measurements in tight locations
- DC Current and Zero Function
- Non-Contact AC Voltage (NCV) detector via clamp tip
- 2000 count backlit LCD
- Built-in white LED flashlight
- Data Hold freezes reading on display
- Auto Power Off
- CAT III-300 V safety rating

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY
AC/DC Current	200 A	0.1 A	±3.0%
AC Voltage	NCV		
Frequency	1 kHz	0.01 Hz	±1.2%
Dimensions/Weight	7x1.75x1.25" (178x45x32mm)/8 oz (225 g)		

ORDERING	
MA120	200 A AC/DC Mini Clamp Meter + NCV

MA63 True RMS 60 A AC/DC Clamp Meters + NCV

Quickly detect live voltages with built-in NCV detector before electrical testing. DC Current measurement allows for automotive troubleshooting.

AC and DC Current meter with high accuracy

- Compact 0.7" (17 mm) jaw size allows measurements in tight locations
- True RMS for accurate readings of noisy, distorted or non-sinusoidal waveforms
- DC Current and DC Zero function
- Variable Frequency Control (VFC): Low pass filter for accurate measurement of variable frequency drive signals
- Built-in Non-Contact Voltage (NCV) detector
- Full range overload protection
- 6000 count backlit LCD display
- Data Hold freezes reading on display
- Low battery indicator and Auto Power Off feature
- CAT III-300 V and CAT II-600 V safety rating
- Complete with test leads, carrying case, and two AAA batteries

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY
AC Current	600 mA, 6000 mA, 60 A	0.1 mA	±2.0%
DC Current	6000 mA, 60 A	1 mA	±2.0%
Non-Contact Voltage (NCV)	100 to 600 V AC		
AC Voltage	6 V, 60 V, 600 V	1 mV	±0.8%
DC Voltage	600 mV, 6 V, 60 V, 600 V	0.1 mV	±0.7%
Resistance (Ω)	600, 6 k, 60 k, 600 k, 6 M, 60 M	0.1 Ω	
Capacitance	6.2 nF, 620 µF, 62 mF	1 pF	
Frequency	10 Hz to 60 kHz	0.001 Hz	
Diode/Continuity	Yes		
Dimensions/ Weight	6.9x2.4x1.3" (175x60x33.5 mm)/6 oz (170 g)		

ORDERING	
MA63	True RMS 60 A AC/DC Clamp Meter + NCV

380942 30 A AC/40 A DC True RMS Mini Clamp Meter

Highest 0.1 mA resolution and accuracy at low currents

- 0.9" (23 mm) clamp jaw opening
- Low AC/DC Current measurements with high resolution to 0.1 mA AC and 1 mA DC
- True RMS for accurate readings of noisy, distorted or non-sinusoidal waveforms
- Large 4000 count LCD display with full function indication and fast 40 segment bargraph
- One touch “Auto Zero” for DC Current measurements eliminates the need to turn a knob to zero adjust
- Measure current draw when conducting energy usage audits
- Overload protection to 400 A DC
- Max/Min recall display
- Auto power off with disable feature
- Data Hold freezes reading on display
- Complete with test leads, wrist strap, 2 AA batteries and soft case

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY
AC Current	400 mA, 4000 mA, 30 A	0.1 mA	±1.5%
DC Current	4000 mA, 30 A, 40 A	1 mA	±2.0%
AC Voltage	400 V	0.1 V	±1.5%
DC Voltage	400 V	0.1 V	±1.0%
Dimensions/ Weight	7x1.75x1.25" (178x45x32 mm)/8 oz (225 g)		

ORDERING	
380942	30A AC/40A DC True RMS Mini Clamp Meter
480172	AC Line Splitter (Standard North American 3-prong plug)

380950 80 A AC/DC Mini Clamp Meter

True RMS mini-clamp with high 1 mA AC current resolution

- 4000 count LCD display
- 1 mA resolution for accurate low current measurements
- Jaw opens to 0.5" (12.7 mm)
- AC/DC Voltage, Resistance, Frequency, Capacitance, and Duty Cycle
- Diode Test/Continuity Beeper
- Data Hold freezes reading on display
- Complete with test leads, two 1.5 V AAA batteries, and carrying case

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY
AC/DC Current	4 A, 80 A	1 mA	±2.5%
AC/DC Voltage	400 mV to 600 V	0.1 mV	AC: ±2.0%; DC: ±2.5%
Resistance	400 Ω to 40 MΩ	0.1 Ω	±1.5%
Capacitance	40.00nF to 100.0µF		
Frequency	5 Hz to 10 MHz	0.001 Hz	±1.2%
Duty Cycle	5 to 99.9%	0.1%	±1.2%
Diode	Yes		
Continuity	Audible		
Dimension	8.3x2.8x1.5" (210x70x37 mm)		
Weight	7 oz (200 g)		

ORDERING	
380950	80 A AC/DC Mini Clamp Meter

380976-K Single Phase/Three Phase 1000A AC Power Clamp Meter Kit

Test Lead Kit includes: two CAT IV-600V 72" (1.8m) lead extensions with right angle and straight end shrouded banana plugs; two modular test probe handles with stainless steel tips; two plunger activated retractable jaw clips; two extra large alligator clips

Measures Current, Resistance, Temperature (Type K) and Power

- Large dual LCD display (9999 count)
- Measures 1ϕ/3ϕ True Power (kW), Apparent Power (kVA), and Reactive Power (kVAR), plus Horsepower (HP), Power Factor, and Phase Angle with Lead/Lag indicator
- AC+DC µA current with 10nA resolution for flame rod tests
- Max/Min recording with elapsed time indication
- Auto Detect AC/DC Voltage measurements with simultaneous frequency display
- Capacitance to 7000µF with 0.001µF resolution
- High Resistance tests to 100MΩ
- Type K, °C/°F switchable, temperature to 1000°F
- Diode and Continuity tests
- Auto power off with disable feature
- 1.6" (40mm) clamp jaw opening
- Complete with test lead kit, general purpose Type K thermocouple probe, carrying case, and 9V battery

ORDERING	
380976-K	3-Phase True RMS Power Clamp Meter Kit

PQ2071 1-Phase and 3-Phase CAT IV 1000 A AC Power Clamp Meter

Functions including Power and Current; USB interface

- True/Apparent/Reactive Power, plus Power Factor, Active Power and Phase Angle
- AC+DC µA Current with 10 nA resolution for flame rod tests
- Built-in non-contact Voltage Detector with LED alert
- Store/recall up to 99 data sets
- Data Hold, Max/Min and Auto Power Off
- Software for data analysis
- Complete with test leads, USB cable, PC software, 9 V battery, and carrying case

ORDERING	
PQ2071	1-Phase and 3-Phase CAT IV 1000 A AC Power Clamp Meter

MA1500 CAT IV 1500 A AC/DC True RMS Clamp Meter + NCV

Integrated Non-Contact Voltage Detector to quickly check for the presence of live wires before testing

- True RMS for accurate readings of non-sinusoidal waveforms
- Includes Multimeter functions
- Inrush function captures motor startups
- Relative Mode for Capacitance Zero and Offset Adjustment
- Data Hold, Peak Hold, Min/Max, and Auto Power Off
- Complete with test leads, general purpose Type K bead wire temperature probe, 9 V battery and carrying case

ORDERING	
MA1500	CAT IV 1500 A AC/DC True RMS Clamp Meter + NCV

380926 CAT IV 2000 A AC/DC Clamp Meter

Full range Multimeter functions with high resolution to 0.1 µA/0.1 mV and CAT IV-600 V Safety Rating

- AC/DC Current via clamp with 0.1 A resolution
- Large 2” jaw size fits 750 MCM conductor size
- Data Hold
- Push button Zero adjust improves DC accuracy
- Complete with built-in stand, test leads and 9 V battery

ORDERING	
380926	CAT IV 2000 A AC/DC Clamp Meter

SPECIFICATIONS	PQ2071	MA1500	380926
True RMS	Yes	Yes	Yes
Display counts	9999 count LCD with bargraph (backlit)	40,000/4000 count LCD w/bargraph (backlit)	5000 count LCD (backlit)
Jaw size/Cable size	2.2" (55 mm); 1000 MCM	2.0" (52 mm); 500 MCM	2" (50 mm); 750 MCM
AC Current	1000 A	1500 A	400.0 A, 2000 A (Clamp); 400 mA (DMM)
DC Current	—	1500 A	400.0 A, 2000 A Clamp); 400 mA (DMM)
Max resolution	100 mA	0.01 A	0.1 A (Clamp); 0.1 µA (DMM)
Basic ACA Accuracy (% rdg)	±3% rdg	±2.8%	±2%
AC Voltage (Max Res.)	750 V (0.1 V)	750 V (0.01 mV)	1000 V (1 mV)
DC Voltage (Max Res.)	—	1000 V (0.01 mV)	1000 V (0.1 mV)
Resistance (Max Res.)	—	40 MΩ (0.01 Ω)	40 MΩ (0.1 Ω)
Capacitance (Max Res.)	—	40 mF (0.01 nF)	50 µF (10 pF)
Frequency (Max Res.)	50 Hz to 200 Hz (1 Hz)	40 MHz (0.001 Hz)	100 kHz (0.001 Hz)
Temperature	—	-148 to 1832°F (-100 to 1000°C)	—
Diode/Continuity	Yes/Audible	Yes/Audible	Yes/Audible
Category Rating	CAT IV-600 V, CAT III-1000 V	CAT IV-600 V	CAT IV-600 V
UL/CE	CE	CE	CE
Dimensions	11.5x3.75x1.5" (292x95x38 mm)	11.6x4.1x1.9" (294x105x47 mm)	10x2.9x1.5" (255x73x38 mm)
Weight	18.4 oz (522 g)	18.9 oz (536 g)	14 oz (380 g)

PRT200 Non-Contact Phase Rotation Tester

Checks phase sequence and phase status and tests up to 1000 V AC with LED and audible indication

- Fully insulated non-contact alligator clips with wide jaws
- 75 to 1000 V AC input voltage with 45 to 65 Hz frequency range
- LEDs indicate phase orientation (clockwise or counter-clockwise) and whether each phase is live
- Durable housing with mounting magnets
- Adjustable LED brightness switch for making measurements in dimly lit areas or sunlight
- Low battery warning
- Auto Power Off to save battery life when not in use
- CAT IV-600 V safety rating
- Dimensions: 4.7x2.7x1.5" (118x69x38 mm); Weight: 13 oz (370 g)
- Complete with three built-in 30" (76 cm) test leads with large color-coded alligator clips, four AA batteries, and pouch case

ORDERING	
PRT200	Non-Contact Phase Sequence Tester

480400/480403 Motor Rotation and 3-Phase Testers

Check 3-phase sequence and motor rotation

- Tests phase orientation of 3-Phase power sources
- Indicates phase orientation (clockwise or counter-clockwise) and whether each of the 3-Phases is live
- Easy to open alligator clips with wide jaws
- Durable double molded housing
- Complete with cable and 3 large color-coded alligator clips, case, and 9 V battery (for 480403)

480400 3-Phase Tester

- Multi-line LCD Displays; No battery required

480403 Motor Rotation and 3-Phase Tester

- LEDs display motor rotation and phase status
- Indicates rotation direction of motor
- Determine rotation of a motor without contact

SPECIFICATIONS	480400	480403
Phase Sequence	Yes	Yes
Voltage	40 to 600 V	40 to 600 V
Frequency	15 to 400 Hz	2 to 400 Hz
Motor Rotation	—	Yes
CE/Category Rating	CE, CAT III-600 V	CE, CAT III-600 V
Dimensions	5.1x2.7x1.25" (130x69x32 mm)/4.5 oz (130 g)	

ORDERING	
480400	3-Phase Rotation Tester
480403	Motor Rotation and 3-Phase Tester

DL150 True RMS AC Voltage/Current Datalogger

Datalogs up to 100,000 readings with programmable sample rate from 1 sec to 24 hrs

- Measure True RMS AC Voltage or Current
- Normal, Peak and Capture (user-specified trigger level) recording modes
- Readings can be downloaded to your PC via the USB interface and analyzed using the included software or exported to a spreadsheet
- LCD indicates time/date, current readings, Min/Max, and whether alarm settings have been exceeded
- Auto Power Off and battery check
- Complete with current clamp, test leads, alligator clips, USB cable, Windows® compatible software, universal AC adaptor (with US, EU, UK, AU plugs), and 4 AAA batteries

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
AC Current	10 to 200 A	0.1 A	±(2% rdg ±1 A)
AC Voltage	10 to 600 V	0.1 V	±(1.5% rdg ±1 V)
Memory	100,000 points		
Sampling Rate	1 second to 24 hours		
PC Interface	USB includes software		
Dimensions/ Weight	4.5x2.5x1.3" (114x63x34 mm)/8.7 oz (248 g)		

ORDERING	
DL150	True RMS AC Voltage/Current Datalogger

DL160 Dual Input True RMS AC Voltage/Current Datalogger

Datalogs up to 256,000 readings with programmable sample rate from 1 sec to 24 hrs

- Measures simultaneously:
  - Two True RMS AC Voltage inputs or
  - Two AC Current inputs or
  - One AC Voltage and one AC Current input
- Readings can be downloaded to your PC via the USB interface and analyzed using the included software or exported to a spreadsheet
- LCD indicates time/date, current readings, Min/Max, and whether alarm settings have been exceeded
- Auto Power Off and battery check
- Complete with two Current sensor modules, two Voltage sensor modules, two sets of test leads, two sets of alligator clips, USB cable, Windows® compatible software, universal AC Adaptor (with US, EU, UK, AU plugs), 4 AAA batteries and two 2032 button batteries

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
AC Current	10 to 200 A	0.1 A	±(2% rdg ±1 A)
AC Voltage	10 to 600 V	0.1 V	±(2% rdg ±1 V)
Memory	262,000 points (single channel), 131,000 (dual channels)		
Sampling Rate	1 second to 24 hours		
PC Interface	USB includes software		
Dimensions/ Weight	4.5x2.5x1.3" (114x63x34 mm)/8.7 oz (248 g)		

ORDERING	
DL160	Dual Input True RMS AC Voltage/Current Datalogger

TL809 Electronic Test Lead Kit

Ideal for testing digital circuitry

- Two 42" (1 m) PVC lead extensions with shrouded banana plugs at both ends. CAT III-1000 V rating, UL/CE
- Two modular 4" (102 mm) Heavy Duty test probe handles with 0.16" (4 mm) long banana plug tip with removable category control tip covers, CAT III-1000 V, UL/CE
- Two plunger mini-hooks
- Two alligator clips with removable insulators; UL/CE
- Includes 3 compartment sealable nylon pouch to organize/protect your test leads

ORDERING	
TL809	Electronic Test Lead Kit

TL808-KIT Industrial Test Lead Kit

8-Piece Kit – CAT III-1000 V safety rating

- Two 42" (1 m) PVC lead extensions with shrouded banana plugs at both ends, UL listed
- Two modular 4" (102 mm) Heavy Duty test probe handles with 0.16" (4 mm) banana plug tip, UL listed
- Two standard size, alligator clips with insulated rubber boot
- Two extra large, double-insulated, alligator clips with sharp teeth for piercing insulated wire. Jaws open to 0.8" (20 mm)
- Includes pouch that provides storage for the kit and additional space to hold your meter

ORDERING	
TL808-KIT	Industrial Test Lead Kit

TL803 Standard Test Leads

Protective tip covers for safe storage

- Standard replacement test leads. Shrouded banana connectors, molded strain reliefs. Compatible with most multimeters. 10 A capacity. CAT III-1000 V rating. UL listed.
- Two very sharp 0.16" (4 mm) long tips with removable category control tip covers
- Optional accessory — Insulated Alligator Clip (TL807C)

ORDERING	
TL803	Standard Test Leads

TL831 Master Electrical Test Lead Kit

12-piece kit industrial grade test leads

- TL726 Double Molded Silicone Test Leads; CE
- TL747 Electronic Sharp Test Probe Set
- TL741 Heavy Duty Plunger Style Hook Clip Set; CE
- TL742 Heavy Duty Plunger Style Pincer Grip Set
- TL740 Industrial Plunger Style Test Clips; CE
- TL709 Medium Alligator Clip Set; CE
- Conveniently stored in a pouch case

ORDERING	
TL831	Master Electrical Test Lead Kit

TL841 Test Lead Kit

16-piece kit with multiple test lead tip configuration

- Test Lead Set with Straight Probes, 0.16" (4mm) long tips with removable category control tip covers; CAT III-1000V, 16A
- Alligator Clip Set, 5A, CAT III-300V
- TL743 Slim Reach Test Probe Set; CE
- Spade Lugs, 0.16" (4mm) opening, 30VAC/60VDC, 5A
- Test Leads, Right Angle and Straight End, CAT III-1000V, 16A
- Test Leads with Hook Tip, Pincer Tip, and Couplers
- Conveniently stored in a pouch case

ORDERING	
TL841	Test Lead Kit

PQ1000 CAT IV Test Lead Kit

Set of Four Test Lead Kit for Power Quality Analyzers

- 10 ft test leads (Banana-to-Banana)
- Test probes, Alligator clips, long reach spring loaded clips, and Ergonomic over mold grip
- CAT IV-600 V/CAT III-1000 V
- 3f 4-wire test lead kit (Black, Red, Blue, Yellow)

ORDERING	
PQ1000	3-Phase 4-Wire Test Lead Kit

480172 AC Line Splitter

Enables user of a clamp meter to measure current on a 2-wire or 3-wire power cord to 15 A

- Fits clamp jaw size 0.75” (19 mm) and above
- Provides easy and safe measurement of current without the need to cut off the plug and separate the conductors
- Plugging the power connector into the Line Splitter separates the hot/live conductor from the neutral (and ground)
- Voltage check function
- Two clamp positions:
  - x1 for direct readings
  - x10 for actual reading multiplied by 10
- CAT II safety rating
- For use with indoor 120V AC Standard North American 3 prong plug outlets only
- Dimensions: 5.25x2x1” (133x51x25 mm), Weight: 5.8 oz (164.4 g)

ORDERING	
480172	AC Line Splitter (Standard North American 3-prong plug)

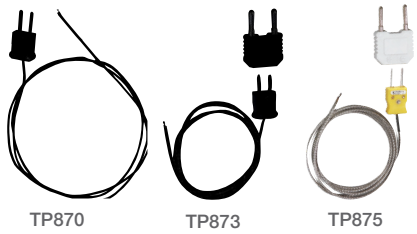
CA904 Hard Plastic Carrying Case

The Extech CA904 is a hard plastic carrying case for use with your Extech Exstik Series meters and accessories.

- This product comes with a year warranty.
- The CA904 features a sturdy handle and a removable foam insulation.

ORDERING	
CA904	Hard Plastic Carrying Case

TP870/3/5 Type K Temperature Probes



Bead wire temperature probes for use with multimeters featuring Type K temperature functions

- Standard Type K connector with choice of different cable lengths and temperature ranges

ORDERING	
TP870	Bead wire with Type K connector (-40 to 482°F/-40 to 250°C), 39" (1 m) cable
TP873	Bead wire with Type K connector and with banana adaptor (-22 to 572°F/-30 to 300°C), 36" (0.91 m) cable; CE approved
TP873-5M	TP873 probe with 16.4 ft (5 m) cable
TP875	High Temperature bead wire probe with Type K connector and banana adaptor; -58 to 1000°F (-50 to 538°C), 39" (1 m) cable; CE approved

TP200/TP400 Type K Pipe Clamp Temperature Probes

Hands-free superheat/sub-cooling temperature measurement without the use of tape or Velcro®

- Spring-loaded jaw for secure grip on pipes; 0.25" (6.35 mm) to 1.5" (38 mm) diameter
- For use with any Thermometer or Multimeter with a Type K input
- TP200: -4 to 200°F (-20 to 93°C)
  TP400: -4 to 450°F (-20 to 232°C)
- Basic accuracy of ±5%FS (TP200) and ±3.6°F/1.8°C (TP400)
- Complete with attached 36" (0.9 mm) cable and Type K connector

ORDERING	
TP200	Type K Temperature Pipe Clamp Probe
TP400	Type K High Temperature Pipe Clamp Probe

VT30 Multi-function Voltage Tester

Voltage, Continuity and Phase Testers with Flashlight;

- Large LCD display with digital bargraph
- AC Voltage (0 to 480 V) and DC Voltage (0 to 690 V)
- Meets EN61010-1 CAT IV-600 V and CAT III-600 V safety ratings
- LED indication of AC/DC voltage
- DC Polarity LED indication; Continuity beeper;
  Low impedance; Double molded housing
- Phase rotation test for motors
- Dimensions: 9.4x3x1.6" (240x78x40 mm); Weight: 8.4 oz (237 g)
- Complete with 2 AAA batteries, protective cap, and soft case

ORDERING	
VT30	Digital Voltage Tester with bargraph

DV25 CAT IV Dual Range AC Voltage Detector + Flashlight

Two selectable ranges for low and high non-contact AC Voltage detection

- 2 ranges: 24 to 1000 V AC and 100 to 1000 V AC
- CAT IV-1000 V safety rating
- Suitable for outlets or against wire insulation testing
- For use on 50/60Hz circuits
- Audible and Visual voltage indication
- Built-in bright flashlight with On/Off button
- Dimensions: 6.25x1" (159x25 mm) Weight: 1.48 oz (42 g)
- Complete with pocket clip and two AAA batteries

ORDERING	
DV25	Dual Range AC Voltage Detector

DV30 Adjustable AC Voltage Detector with Sensitivity Adjustment

Non-contact detection of AC Voltage down to 12 V AC

- Detects AC Voltage from 12 V to 600 V
- Audible and visible voltage indication
- Sensitivity adjustment increases or reduces sensor trigger threshold
- Self test function
- CAT III-600 V
- Dimensions: 6.1x1.1x1" (155x28x25 mm) Weight: 1.5 oz (42 g)
- Complete with pocket clip and four LR44 button batteries

ORDERING	
DV30	Adjustable AC Voltage Detector

DVA30 Combination Non-Contact AC Voltage and Current Detector

Detects and pinpoints wide range Voltage and Current with Sensitivity Adjustment

- The only two-in-one AC Current (200 mA to 1000 A) and AC Voltage (12 V to 600 V) detector designed for electrical testing
- Loud audible and bright visible current and voltage detect indicators
- Sensitivity adjustment increases or reduces sensor trigger threshold
- CAT III-600 V
- Dimensions: 7.6x1.2x0.9" (192x31x24 mm) Weight: 2.1 oz (60 g)
- UL and CE approved;
- Complete with pocket clip and four LR44 button batteries

ORDERING	
DVA30	Non-Contact Voltage/Current Detector

All products on this page are UL and CE approved, except VT30 is only CE approved.

DV690 Non-contact High Voltage Detector (69 kV)

Complete with a hard carrying case, break-away lanyard, arm strap, soft pouch, hot stick adapter, and 3x AA batteries

Rugged and reliable voltage detector that can quickly and safely detect up to 69 kV in high-voltage (HV) electrical systems

- Detect and monitor electrical fields up to 69 kV
- Helps comply with NFPA 70E, OSHA 1910 Subpart S, and OSHA 1926 Subpart K
- Receive clear warning of high voltage from the 106 dB buzzer and bright red LED alarm
- Silence the loud audible buzzer with mute switch when preferred
- The self-test function ensures reliable and safe operation
- Mount the detector five different ways for hands-free or hands-on use: lanyard, clip, handheld, arm strap, or mount onto hot stick (not included)
- Universal adapter allows use with hot sticks to extend reach while remaining at a safe distance (hot stick not included)
- Designed with a textured hand grip for easy operation while wearing gloves
- Built with durable IP54 housing and drop tested to 4 ft (1.2 m) for tough jobs

ORDERING	
DV690	High Voltage Detector

ET11/ET16 Receptacle Testers

ET16 ET11

Choose model with GFC and test for faulty wiring in 3-wire receptacles

- **Model ET11** — Tests GFCI circuits
- Detects 5 wiring faults: Correct, Open Ground, Open Neutral, Open Hot, Hot/Ground Reverse, and Hot/Neutral Reverse
- Standard North American 3-prong plug

ORDERING	
ET11	GFCI Receptacle Tester
ET16	Receptacle Tester

CB10-KIT Electrical Troubleshooting Kit

Handy Electrical Troubleshooting Kit Performs 5 Functions

- **CB10** Circuit Breaker Finder (see below for details) — quickly locate Circuit Breakers with audible and visual alert; Standard North American 3-prong plug
- **CT20** Continuity Tester/Wire Tracer (p. 30) — Use Continuity Tester for local continuity or for remote wiring identification; Continuity testing via bright flashing LED and loud pulsating beeper
- **DV20** AC Voltage Detector/Flashlight — Non-Contact Detection of AC Voltage from 100 V AC to 600 V AC
- Supplied in a soft carrying case that provides protection and organization for the meters and accessories

ORDERING (VISIT WWW.EXTECH.COM FOR PRODUCT SPECIFICATIONS)	
CB10-KIT	Electrical Troubleshooting Kit

CB10 Circuit Breaker Finder/Receptacle Tester

3-in-1 tester to locate fuses, test receptacles and GFCI circuits

- Plug the Transmitter tester into an outlet and locate the correct breaker at the electrical box
- Manual sensitivity adjustment to pinpoint correct circuit breaker
- Transmitter & Receiver snap together for storage
- Transmitter/Tester:
  - Tests GFCI circuits
  - Tests Reversed/Open Connections,
  - LED indication of 2 test conditions and 6 wiring faults
  - Lights indicating circuit condition
- Dims/Wt: Receiver: 6.4x2.2x1.5" (162x55x38 mm)/4 oz (113 g); Transmitter: 3.25x1.75x1" (83x44x25 mm)/1.6 oz (45 g)
- Complete with one Receiver, one Transmitter tester, and 9 V battery for the Receiver; Standard North American 3-prong plug

ORDERING	
CB10	Circuit Breaker Finder

CT70 GFCI and AC Circuit Analyzer

Test 3-wire standard & GFCI receptacles. Display turns red when a problem is detected.

Check for correct wiring of GFCI outlets and circuit breakers

- AC Load Tester
  - Choose loads of 12, 15 and 20 Amps
  - Measures loaded and unloaded AC Line Voltage (90.0 to 240.0 V)
  - Calculates and displays 0.1 to 99.9% Voltage Drop and Line Impedance
  - Displays Peak Line Voltage (350.0 V) and Frequency (45.0 to 65.0 Hz)
- Outlet Tester functions
  - GFCI Trip Current
  - GFCI Trip Time
  - EPD Trip Current
  - Neutral to Ground Voltage
  - Hot, Neutral and Ground Impedance
  - Open or Reversed wiring
  - Available Short Circuit Current (ASCC)
- Over-Temperature protection
- Dimensions/Weight: 8x2.8x2" (203.2x71.1x50.8 mm)/11.2 oz (317.5 g)
- Complete with AC test cord (standard North American 3-prong plug)

ORDERING	
CT70	AC Circuit Analyzer with GFCI (Standard North American 3-prong plug)

CT20 Continuity Tester Pro/Wire Identifier

One person operation for wire and cable testing both local and remote

- Provides positive continuity checks with bright flashing LED and loud pulsating beeper
- Identify wire pairs and cables remotely using external probe
- Wire verification distance up to 10,000 ft (3000 m); cable size of 26 AWG minimum
- Flashing remote probe - two lead, bi-colored (red/ green) LED probe allows a single user to identify up to three wires or cables at a time for correct labeling with only one trip to the other end location
- Great for Electricians and Helpers, Cable TV and Audio System Installers, Alarm Technicians, HVAC Installers, and Auto Repair Technicians
- Dims: 3.6x2.2x1.14" (90x57x29 mm); Wt: 9.2 oz (260 g)
- Includes Remote probe with bi-colored LED for wire identification highlight

ORDERING	
CT20	Continuity Tester Pro

MD10 Non-contact Magnet Detector + Flashlight

Blue LED for visual indication of magnetic field and bright flashlight allows for viewing in dimly lit areas

Detects the presence of a magnetic field without contact

- Blue LED lights up for visual magnetic field detection including AC, DC, and permanent magnets
- Magnetic field detection range: 63 H, 98 H, 401 H, 810 H
- Ideal for testing audio speakers, troubleshooting solenoid valves in pneumatic and hydraulic control equipment and testing relays with coils and electrically controlled solenoid valves in vehicles and machinery
- Compact size with pocket clip and built-in bright flashlight with On/Off button
- Dimensions: 6.25x0.8x1" (159x21x25 mm); Weight: 1.7 oz (48 g)
- Complete with two AAA batteries

ORDERING	
MD10	Non-contact Magnet Detector + Flashlight

TG20 Wire Tracer Kit

Easily trace wires from source to termination

- Transmitter with output cables terminated in modular RJ11 phone connector
- Transmitter injects traceable signal into cables, checks telephone lines, and performs continuity checks
- Non-Contact probe audibly identifies selected wire or cable
- Test for properly operating phone lines
- Adjustable sensitivity control improves wire identification and eliminates false detection
- Continuity test — visible indication
- Dimensions/Weight: Probe - 8.7x2x1.3" (220x50x32 mm)/3.2 oz (91 g); Transmitter - 2.6x2.7x1.1" (65x68x28 mm)/3.2 oz (91 g)
- Complete with Wire Tracer Probe and Transmitter with RJ11 phone connector and pair of alligator clips, and two 9 V batteries

ORDERING	
TG20	Wire Tracer Kit

40180 Tone Generator and Amplifier Probe Kit

Heavy duty kit with audible tone easily identifies wires or cables

- Insulated inductive probe prevents shorting conductors
- Tests wire trace, continuity test, clear/busy/ringing line test and tip/ring identification
- Alligator clips for non-terminated cables and modular connectors for direct connections to telephone and internet wiring
- Built-in speaker with sensitivity control
- Dimensions: Probe - 9x2.3x1" (228x57x25 mm); Generator - 2.5x2.5x1.5" (64x64x38 mm)/ Weight: 0.6 lbs (272 g)
- Complete with Amplifier probe and Tone Generator with alligator clips and modular RJ11 phone and RJ45 digital connector cables, 9 V batteries and case

ORDERING	
40180	Tone Generator and Amplifier Probe Kit

CLT600 Advanced Cable Locator and Tracer Kit

A reliable, easy-to-use tool for detecting electrical power cables, telecommunication cables, and wires in building applications.

- Trace powered and unpowered wires and cables in walls, ceilings, and floors
- Identify location of breaks in cables and wires
- Detect and locate hidden cables and wires in walls
- Avoid touching live wires with non-contact voltage detection technology
- Measure AC/DC voltage to 450 V and verify if a wire is energized
- Inspect safely with CAT III-450 V safety rating
- Identify related fuses or breakers on panels
- Set up automatic or manual signal detection
- Discover signal strength on LCD screen bar display and by sound indication
- Use mute mode in quiet locations
- Work efficiently in dark areas with backlit LCD screens and worklights
- Increase precision with coded transmission option
- Optional UK and EU socket adapters available (see ordering section)
- Complete with cable locator transmitter, cable locator receiver, instruction guide, 2 test leads, 2 alligator clips, grounding rod/spike, 12 batteries, socket adapter with North American 3-pin Type-B plug, and hard carrying case

ORDERING	
CLT600	Cable Locator and Tracer Kit

LCR200 Passive Component LCR Meter

CE

L, C, R measurements with test Frequency up to 100 kHz

- Simultaneous 20,000/2,000 count backlit display of the primary parameter (L, C or R) with the secondary parameter of Q (quality), D (dissipation) R (resistance), θ (phase), or ESR (equivalent series resistance)
- Auto Select measurement function with 1 kHz default test frequency
- Five test frequencies
- Set Hi/Lo limits using absolute values or percentage limits
- Relative function, Auto power off with disable, Low battery and over-range indicators
- Parallel or Series equivalent circuit
- Built-in test fixture or use external test leads
- Open and Short calibration removes unwanted stray impedances from the measurement
- Complete with test leads and 9 V battery
- Optional SMD Tweezer (LCR203) and plug-in SMD Component Fixture (LCR205)

SPECIFICATIONS	RANGE	BASIC ACCURACY
Inductance	20 µH, 200 µH, 2000.0 µH, 20.000 mH, 200.00 mH, 2000.0 mH, 20.000 H, 200.00 H, 2000.0 H	±(0.5% rdg)
Capacitance	20 pF, 200 pF, 2000 pF, 20.000 nF, 200.00 nF, 2000.0 nF, 20.000 µF, 200.00 µF, 2.0000 mF, 20.00 mF	±(0.5% rdg)
Resistance	20.00 Ω, 200.00 Ω, 2.0000 kΩ, 20.000 kΩ, 200.00 kΩ, 2.0000 MΩ, 20.000 MΩ, 200.0 MΩ	±(0.5% rdg)
DF (with C)	0.000 to 999	
Q	0.000 to 999	
Phase	±90°	
Test Frequency	100 Hz/120 Hz/1 kHz/10 kHz/100 kHz	
Dimensions/ Weight	7.6x3.5x1.6" (193x88x41 mm)/14.8 oz (420 g)	

ORDERING	
LCR200	Passive Component LCR Meter

BT100 Battery Capacity Tester

AC milliohmmeter checks Battery Condition in seconds while the battery is in service

- On-line testing without disconnecting battery
- Datalogger stores up to 999 tests manually or 9600 sets in continuous mode and download readings to your PC with using software (included)
- Simultaneously measures DC Voltage and AC Milliohms
- Long battery life 7 hours; Auto Power Off to save battery
- Complete with software with cable, Kelvin alligator clips, Kelvin test leads, and 6 AAA batteries

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Resistance	40 mΩ, 400 mΩ, 4 Ω, 40 Ω	10 µΩ, 100 µΩ, 1 mΩ, 10 mΩ	±(1% rdg ± 10 d)
Voltage	4 V, 40 V	1 mV, 10 mV	±(0.1% rdg ±6 d)
Max Input Voltage	50 V DC	50 V DC	
Dimensions/ Wt	9.75x4x1.75" (250x100x45 mm)/17.5 oz (500 g)		

ORDERING	
BT100	Battery Capacity Tester

MS420 20 MHz 2-Channel Digital Handheld Oscilloscope

3.8" (96 mm) color LCD display simplifies viewing multiple waveforms

- 20 MHz bandwidth
- Auto-set function optimizes the position, range, timebase, and triggering to assure a stable display of virtually any waveform
- Peak Detect function for 50 ns glitch capture
- XY Mode
- Five Automatic Measurements: Frequency, Duty Cycle, Average, Peak to Peak, RMS
- Waveform Math: Add, Subtract, Multiply, and Divide
- Average Mode for smoothing waveforms
- Persistence Mode for observing dynamic signals
- Store and recall up to 4 waveform screens and setups
- USB interface and PC software for transferring waveforms and data

SPECIFICATIONS

Display Size	3.8" (96 mm) color LCD; 320 x 240 pixels
Bandwidth	20 MHz
Real time sample rate	100 MS/s
Risetime	17.5 ns
Channels	2
Record Length	6 K points per channel
Glitch Capture	50 ns
Vertical Sensitivity	5 mV to 5 V/div
Vertical Resolution	8 bits
Timebase Range	5 ns to 5 s/div
Sample Mode	Sample, Average, Peak Detect
Trigger Modes	Free Run, Single Shot, Edge, Video
Trigger Source	CH1, CH2
Trigger Coupling	AC, DC
Input impedance	1 MΩ/20 pF
Max Input Voltage	400 V (peak)
Cursor Measurement	Voltage and time
True RMS Multimeter Functions	
AC/DC Voltage	400 mV, 4 V, 40 V, 400 V
AC/DC Current	40 mA, 300 mA, 20 A
Resistance	400 Ω, 4 kΩ, 40 kΩ, 400 kΩ, 40 MΩ
Capacitance	51.2 nF to 100 µF
Diode and Continuity	Yes
PC Interface	USB cable
Power Supply	6 hours Li-ion rechargeable battery; AC Adaptor/charger
Dimensions/Weight	7x4.4x1.6" (180x113x40 mm)/24.3 oz (690 g)

ORDERING

MS420	20 MHz 2-Channel Oscilloscope (with Standard North American 3-prong plug)

Includes two 1X/10X oscilloscope probes, test leads, Windows® compatible software, capacitor measuring module, adjustment screwdriver, AC power cord (standard North American 3-prong plug), and carrying case

382200/382202 Digital Single Output DC Power Supplies

CE

Adjustable 30 V/1 A and 18 V/3 A supplies with dual LCD displays

- Constant voltage or current
- Dual backlit LCD displays, Short circuit protection, Current limiting, High load/ line regulation, Low noise/ ripple, and Banana plug output terminals
- Complete with standard North American (Type B) 3-prong plug AC power cord

SPECIFICATIONS	382200	382202
Display Accuracy (V, A)	±(1.5% rdg); ±(2% rdg)	±(1.5% rdg); ±(2% rdg)
DC Output (V/A)	30.0 Volts/ 1.00 Amp	18.0 Volts/ 3.00 Amps
Ripple and Noise	<0.5 mV/<3 mA	<0.5 mV/<3 mA
Line Regulation	<0.01% + 3 mV/<0.2% + 3 mA	<0.01% + 3 mV/<0.2% + 3 mA
Load Regulation	<0.01% + 2 mV/<0.2% + 3 mA	<0.01% + 2 mV/<0.2% + 3 mA
Power	115 V/230 V; 50/60 Hz	115 V/230 V; 50/60 Hz
Dimensions	9.4x4.25x6" (240x108x154 mm)	9.4x4.25x6" (240x108x154 mm)
Weight	4.4 lbs (2 kg)	6.6 lbs (3 kg)

ORDERING	
382200	DC Power Supply 30 V/1 A
382202	DC Power Supply 18 V/3 A

382213 Digital Triple Output DC Power Supply

CE

Adjustable to 30 V/3 A with fixed 5 V and 12 V outputs

- Adjustable Voltage and Current output
- Easy snap terminals for fixed 5 V/0.5 A and 12 V/1 A outputs
- Constant Voltage or Current, Current limiting indicator, Overload and short circuit protection, and Binding post terminals for variable supply
- Complete with standard North American (Type B) 3-prong plug AC power cord

SPECIFICATIONS	
Display	Digital (V&A),3 digit 0.1 res. LCD
DC Voltage/Current Output	0 to 30 Volts/ 0 to 3 Amps
Ripple and Noise	<5 mV
Line/Load Regulation	<0.05%+10 mV
Fixed Output Voltage	5 V/0.5 A (cont.), 1 A (max); 12 V/0.5 A (cont.), 1 A (max)
Power	110/220 V AC 50/60 Hz
Dimensions/ Weight	6x5.6x9.5" (152x142x242mm)/11 lbs. (5 kg)

ORDERING	
382213	Digital DC Power Supply, 115 V/220 V AC

DCP36 80 Watt Switching Mode DC Power Supply

CE

Complete with RJ11 cable, alligator clip test leads, an RJ11 terminator plug, and a standard North American (Type B) 3-prong plug AC power cord

80 W constant power topology and autoranging voltage and current output.

- Dual 4-digit LED display, Front/Rear output terminals, and Lock/Unlock front panel
- Constant Voltage or Current with 3 user programmable presets
- Upper voltage and current limit setting to protect UUT (Unit Under Test)
- Output on/off switch with Power Up Output; On or Off status setting
- Remote Sensing for accurate applied voltage at the load point
- Parallel connection to other units for Master/Slave control

SPECIFICATIONS	
Voltage/Current	0.5 to 36 V/0 to 5 A; Autoranging with 80 W maximum output power (E x I = ≤80 W)
Accuracy	±(0.5% + 5 counts)
Ripple & Noise	≤35 mVpp
Line/ Load Regulation	Line: ≤4 mV/≤10 mA/ Load: ≤30 mV/≤10 mA
Dimensions/ Weight	13x5x2" (330x127x53.5 mm)/4.2 lbs (1.9 kg)

ORDERING (NOTE: IT MAY BE REQUIRED TO ORDER A DIFFERENT AC POWER CORD TO BE USED IN DIFFERENT COUNTRIES)	
DCP36	80 W Switching Mode DC Power Supply (w/North American 3-prong plug)

382270 210 Watt Quad Output DC Power Supply

Two fully adjustable 30 V/5 A outputs combined with 2 auxiliary semi adjustable outputs

- Two 0 to 30 V/0 to 5 A outputs with selectable Constant Voltage and Constant Current modes
- Outputs up to 60 V in series mode or 10 A in parallel mode
- Two auxiliary outputs with fixed current of 3 to 6.5 V/3 A and 8 to 15 V/1 A
- Overload and short circuit protection
- Complete with standard North American (Type B) 3-prong plug AC power cord and 4 pairs of test leads (banana plug to alligator clip)

SPECIFICATIONS	
Output Voltage (4)/Current (4)	0 to 30 V, 0 to 30 V, 3 to 6.5 V, 8 to 15 V/ 0 to 5 A, 0 to 5 A, 3 A (fixed), 1 A (fixed)
Basic Accuracy	±(0.5%+2 digits)
Load/Line Voltage Regulation	≤0.02%+3 mV
Ripple and Noise	<0.5 mVrms
Power	100 to 240 V AC,50/60 Hz
Dimensions/ Weight	10.2x6.3x14.5" (260x160x370 mm)/26.5 lbs (12 kg)

ORDERING	
382270	Quad Output DC Power Supply

382275/382276 600 Watt Single Output Laboratory Grade DC Power Supply

CE

Dual action Voltage/Current controls — push knob for fine/coarse adjustments

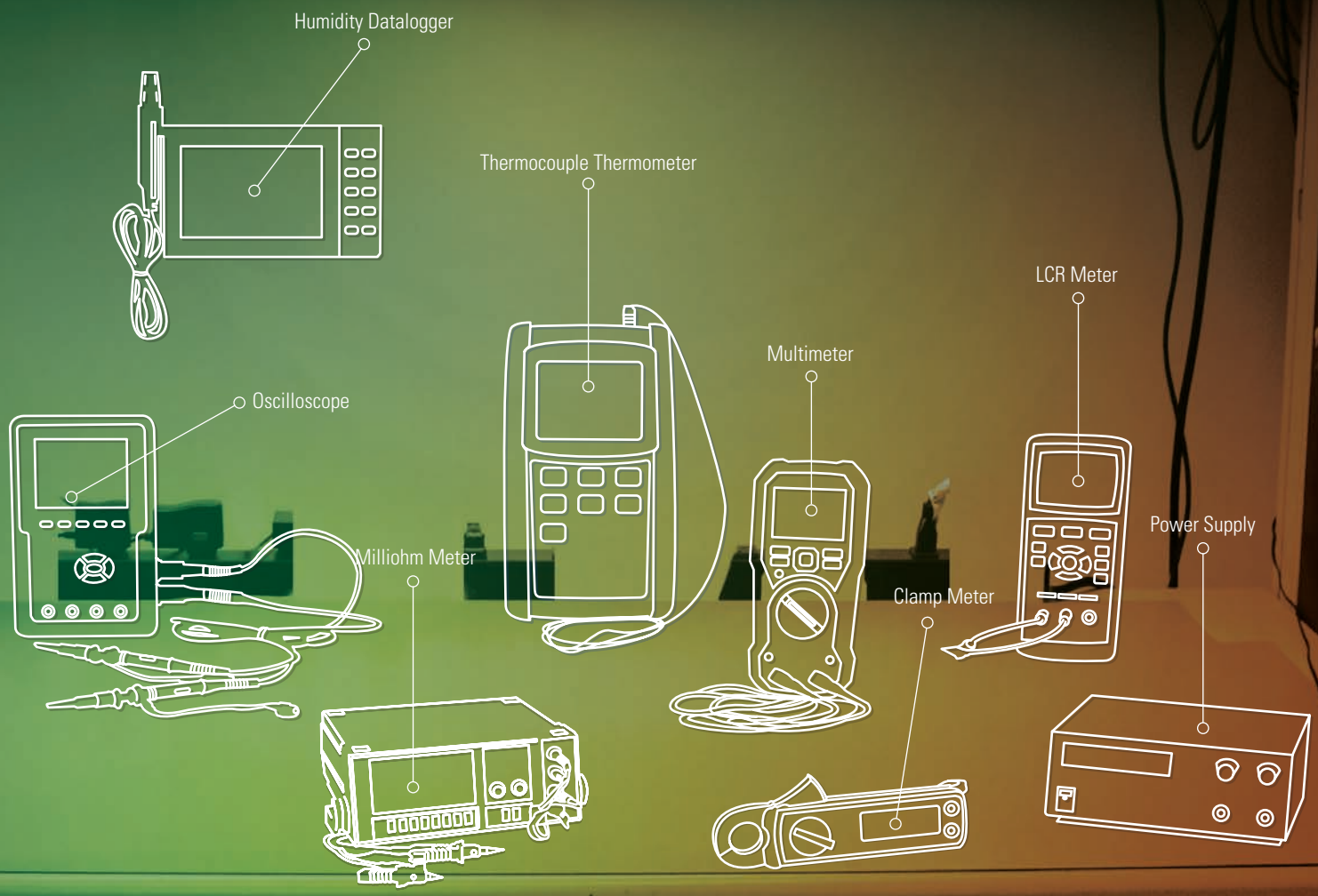
- Remote Control for output Voltage/Current and On/Off
- Two user-defined Voltage and Current presets and one 13.8 V/20 A factory preset
- Automatic Constant Current crossover, High RFI immunity and excellent EMI
- Thermostatic Control Fan from zero to full speed
- Complete with standard North American (Type B) 3-prong plug AC power cord

SPECIFICATIONS	
Output Voltage/Current (Res.)	0 to 30 V (100 mV)/ 0 to 20 A (100 mA)
Basic accuracy	±(0.5%+2 digits)
Load/Line Regulation	Voltage: 50 mV/ 20 mV; Current: 100 mA min/ 50 mA min
Ripple and Noise	<5 mVrms
Dimensions/ Weight	7.9x3.5x8.5" (200x90x215 mm)/5.7 lbs (2.6 kg)

ORDERING	
382275	Laboratory Grade Switching Mode DC Power Supply (120 V)
382276	Laboratory Grade Switching Mode DC Power Supply (230 V)

CHOOSE YOUR BENCHTOP TESTING SOLUTION

If you're trying to find the right electronics testing instruments, look no further. Here you'll find efficient tools to tackle various benchtop challenges.



GRT300 4-Wire Earth Ground Resistance Tester

Color coded test leads with alligator clips and auxiliary earth bars

Includes all hardware necessary to measure earth ground in 4 ranges

- 4-wire, 3-wire, and 2-wire testing
- Earth Ground Resistance in 4 ranges
- Automatic Zero adjustment
- Large dual line LCD
- Autoranging
- Automatic I (current) spike check and Automatic P (potential) spike check
- Test Hold function for easy operation
- AC Earth Voltage
- Data Hold and Auto Power Off features
- Over-range and low battery indication
- Complete with color coded test leads and alligator clips, 4 auxiliary earth bars, hard carrying case, and eight 1.5 V AA batteries

SPECIFICATIONS	
Earth Ground Resistance	2 Ω/20 Ω/200 Ω/2000 Ω
Basic Accuracy	±(2% rdg+3 d)
Resolution	0.01 Ω/0.1 Ω/1 Ω/0.01 kΩ
Test Current / Frequency	<2 mA/820 Hz
AC Earth Voltage / Frequency	0 to 300 V AC/40 to 500 Hz
Dimensions/ Weight	9.8x7.8x4.3" (250x190x110 mm)/3.15 lbs (1.4 kg) - batteries included

ORDERING	
GRT300	4-Wire Earth Ground Resistance Tester Kit

382252 Earth Ground Resistance Tester Kit

Includes all hardware necessary to measure earth ground in 3 ranges from 20 to 2000 Ω

- Large dual display with backlight and double molded housing
- Test Hold function
- Automatic Zero adjustment
- AC/DC Voltage, Resistance, and Continuity
- Auto Power Off, Over-range and low battery indication
- Complete with test leads, two auxiliary earth bars, carrying case, and six 1.5V AA batteries

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Earth Ground Resistance	20 Ω/200 Ω/2000 Ω	0.01 Ω/0.1 Ω/1 Ω	±(2% rdg)
Test Current (Freq.)	<2.5 mA (820 Hz)	0.001 mA	±2.5%
AC Earth Voltage (Freq.)	0 to 200 V AC (50 to 400 Hz)		±(3% rdg)
DC Voltage	0 to 1000 V	0.1 V	±(0.8% rdg)
Resistance	0 to 200 kΩ		±(1% rdg)
Continuity	40 Ω		
Category rating	CAT III-1000 V		
Dimensions/ Weight	7.9x3.6x2" (200x92x50 mm)/1.5 lbs (700 g) - meter only		

ORDERING	
382252	Earth Ground Resistance Tester Kit
382254	Replacement Set of Test Leads

382357 Clamp-On Ground Resistance Tester

Verify resistance of cellular and communication tower ground grids

Enables non-contact measurements of ground conductors without need for auxiliary ground spikes

- Autoranging ground resistance and True RMS AC Leakage current measurements
- Programmable datalogging with 116 readings
- Programmable Hi/Lo alarm
- 0.9" (23 mm) Jaw size for large ground rods
- Simplifies ground resistance measurements on multiple point ground systems
- Auto power off
- Verification resistors confirm accuracy
- Automatic Self Calibration when powered on
- 9999 Count LCD display with Data Hold
- Electrical Noise Detection feature prevents inaccurate readings
- CAT III-300 V, CAT II-600 V
- Complete with 9 V battery, Resistance check plate, and durable metal storage case

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Ground Resistance	0.025 to 1500 Ω	0.002 Ω	±1.5%
AC Leakage Current (Trms)	1 mA	0.001 mA	±2.5%
AC Current (Trms)	0.3 mA to 30.00 A	0.01 A	±2.0%
Resistance Test Frequency	3.333 kHz		
Operating Temperature	32 to 122°F (0 to 50°C)		
Dimensions/Weight	10.2x4.4x1.9" (258x110x47 mm)/1.5 lbs (700 g) - meter only		

ORDERING	
382357	Clamp-On Ground Resistance Tester

UM200 High Resolution Micro-Ohm Meter

Provides resolution down to 1 μΩ using 4-wire Kelvin clip test leads

- 6 ranges with 3 sub-ranges in each current range
- Measurement of resistive and inductive materials
- Auto or Manual ranging
- 5-Digit backlit LCD with high resolution to 1 μΩ
- Built-in comparator for Hi/Lo/Go resistance testing with 20 sets of pre-stored values
- Store/Recall up to 3000 measurements
- 10 A maximum test current
- Cable length measurement (feet or meters)
- USB interface
- Complete with 4-wire cables with Kelvin clip connectors, rechargeable Li-Polymer battery, AC adapter/charger, software and USB cable, and carrying case

SPECIFICATIONS	RANGE	RESOLUTION	CURRENT	BASIC ACCURACY
Resistance	60 mΩ	1 μΩ	10 A	±(0.25%)
	600 mΩ	10 μΩ	1 A	±(0.25%)
	6 Ω	100 μΩ	100 mA	±(0.25%)
	60 Ω	1 mΩ	10 mA	±(0.25%)
	600 Ω	10 mΩ	1 mA	±(0.25%)
	6 kΩ	100 mΩ	100 μA	±(0.75%)
Power	Rechargeable Li-Polymer Battery			
Dimensions/Weight	10.1x6.1x2.2" (257x155x57 mm)/2.6 lbs (1160 g)			

ORDERING	
UM200	High Resolution Micro-Ohm Meter
UM200-KTL	Replacement Kelvin Clip Test Leads

380580 Battery Powered Milliohm Meter

Complete with 8 AA batteries, and 2 sets of test leads (4 wire with 4 alligator clips, 4 wire with 2 Kelvin alligator clips), and built-in water resistant case with shoulder strap

High accuracy, high resolution portable Milliohm Meter for field use

- Four terminal Kelvin measurements
- Over-temperature and over-voltage protection
- Auto-Hold and Auto Power Off
- Invalid test indicators prevent inaccurate measurements

SPECIFICATIONS	RANGE	RESOLUTION	CURRENT	BASIC ACCURACY
Resistance	200.0 mΩ	0.1 mΩ	100 mA	±0.5%
	2000 mΩ	1 mΩ	100 mA	±0.5%
	20.00 Ω	0.01 Ω	10 mA	±0.5%
	200.0 Ω	0.1 Ω	10 mA	±0.5%
	2000 Ω	1 Ω	1 mA	±0.5%
Dimensions/ Weight	9.8x7.5x4.3" (250x190x110 mm)/3.3 lbs (1.5 kg)			

ORDERING	
380580	Battery Powered Milliohm Meter
380565	Test Leads w/Kelvin clips for 380580

380560/380562 High Resolution Milliohm Meter

Benchtop meter provides resolution down to 0.01 mΩ

- Automatic zero; 5 V test voltage
- Built-in comparator for Hi/Lo/Go resistance testing or selection
- Includes 4-wire cables with Kelvin clip connectors and power cord

SPECIFICATIONS	RANGE	RESOLUTION	CURRENT	BASIC ACCURACY
Resistance	20 mΩ	0.01 mΩ	1 A	±0.2%
	200 mΩ	0.1 mΩ	1 A	±0.2%
	2 Ω	0.001 Ω	100 mA	±0.2%
	20 Ω	0.01 Ω	10 mA	±0.2%
	200 Ω	0.1 Ω	1 mA	±0.2%
	2 kΩ	0.001 kΩ	100 µA	±0.2%
	20 kΩ	0.1 kΩ	10 µA	±0.2%
Power	110 V AC, 60 Hz or 220 V AC 50 Hz			
Dims/Wt	11x8.3x3.5" (280x210x90 mm)/4.85 lbs (2.2 kg)			

ORDERING	
380560	High Resolution Milliohm Meter, 110 V AC
380562	High Resolution Milliohm Meter, 220 V AC
380465	Spare Kelvin Clip Test Lead Set

380460/380462 Precision Milliohm Meter

Portable Milliohm meter provides resolution to 0.1 mΩ

- Manual zero display adjust; Over-range indication
- Compact, durable field service housing with protective cover
- Includes 4-wire cables with Kelvin clip connectors and power cord

SPECIFICATIONS	RANGE	RESOLUTION	MAX VOLTAGE	BASIC ACCURACY
Resistance	200 mΩ	0.1 mΩ	4.4 V DC	±0.75%
	2 Ω	1 mΩ	3.6 V DC	±0.75%
	20 Ω	10 mΩ	3.6 V DC	±0.75%
	200 Ω	0.1 Ω	3.5 V DC	±0.75%
	2000 Ω	1 Ω	3.5 V DC	±0.75%
Power	110VAC, 60Hz or 220VAC, 50Hz			
Dimensions/Weight	6.3x2.8x3.4" (160x120x85mm)/1.5lb (680g)			

ORDERING	
380460	Precision Milliohm Meter, 110 VA C
380462	Precision Milliohm Meter, 220 V AC
380465	Spare Kelvin Clip Test Lead Set

Preventative Maintenance Works!

Extech's wide range of Insulation Testers measure up to 500 GΩ with high test voltages up to 10 kV.

MG310 Compact Digital Insulation Tester

Measurements up to 1000 V with Insulation Resistance to 5.5 GΩ

- 250 V, 500 V, and 1000 V test voltages
- AC Voltage measurement from 30 to 600 V
- Large 2000 count dual display with backlight
- Polarization Index measurement (PI)
- Dielectric Absorption Ratio measurement (DAR)
- 10 MΩ internal resistance test
- Low Resistance measurement with Zero function
- Continuity beeper
- High voltage and overload indication
- Auto-discharge and voltage output warning functions
- Low battery indication
- Complete with test leads, alligator clips, 6 x AA batteries, hard cover, and soft carrying case

SPECIFICATIONS	MG310
Insulation Resistance (max res)	0 to 99.9 MΩ (0.01 Ω), 100 M to 5.5 GΩ (1 MΩ)
Basic Accuracy	±5% rdg
Insulation Test Voltages	250 V, 500 V, 1000 V
Voltage Test	600 V AC only
Low Resistance Test	0 to 200 Ω
CE	CE
Dimensions/Weight	6x4x2.8" (150x100x71 mm)/1.5 lbs (0.7 kg)

MG320 CAT IV Insulation Tester/ TRMS Multimeters

Autoranging Insulation measurement up to 20 GΩ

- Polarization Index (PI) and Dielectric Absorption Ratio measurements (DAR)
- Low Resistance function with Zero mode
- Comparison Mode to set Pass/ Fail values for insulation
- Step Voltage (10% steps at 50% to 120% of range)
- Auto-discharge of voltage test signal
- Lock Power-On function
- Store/recall 99 readings
- Backlit display with bargraph
- Includes test leads, alligator clip, 6 AA batteries, and case; remote probe

380395/380396 Digital High Voltage Insulation Tester

High test Voltages up to 5 kV and Insulation Resistance to 60 GΩ

- Four Test Voltages to 5000 V
- Large 6000 count display with bargraph and backlight
- Polarization Index (PI) measurement
- Dielectric Absorption Ratio measurement
- 1 to 15 minute Timer function for Insulation Resistance measurements
- AC/DC Voltage from 0 to 600 V with Max/Min, Peak and Relative functions
- Autoranging and timer function
- Indication of output voltage and discharge voltage
- Auto-discharge and voltage output warning function
- Auto Power Off and battery check
- Includes test leads, 8 x C batteries, and heavy duty case; **Model 380395** with 110 V AC adaptor
  Model 380396 with 220 V AC adaptor

MG500 Digital High Voltage Insulation Tester

High test Voltages up to 10 kV with Insulation Resistance to 500 GΩ

- Test Voltages of 500 V to 10 kV (adjustable in 500 V steps)
- Polarization Index (PI) measurement
- Dielectric Absorption Ratio (DAR) measurement
- EnerSave™ limits test duration to 10 seconds to save energy Auto-discharge and voltage output warning function
- CAT III-300 V category rating
- Complete with built-in heavy duty carrying case with cover, test leads, alligator clips, and 8 x C batteries

MG320	380395 I 380396	MG500	SPECIFICATIONS
50 M, 100 M, 200 M, 500 M, 2000 MΩ, 1 G, 10 G, 20 GΩ (0.001 MΩ)	6 M, 60 M,600 MΩ, 6 G, 60 GΩ (1 kΩ)	800 kΩ to 500 GΩ (1 kΩ) Autoranging	Insulation Resistance (max res)
±3%	±2.5%	±5%	Basic Accuracy
50 V, 100 V, 250 V, 500 V, 1000 V	500 V, 1000 V, 2500 V, 5000 V	500 V to 10 kV (adjustable in 500 V steps)	Insulation Test Voltages
600 V AC/DC	600 V AC only	—	Voltage Test
0.01 to 20 kΩ	0 to 600 Ω	—	Low Resistance Test
CE	CE	CE	CE
8.9x4.1x2.3" (225x103x59 mm)/1.5 lbs (0.7 kg)	7.8x5.8x3.4" (198x148x86 mm)/3.2 lbs (1.4 kg)	13x10.2x6.3" (330x260x160 mm)/7.9 lbs (3.6 kg)	Dimensions/Weight

380320 Analog High Voltage Megohmmeter

Complete with heavy duty test leads, alligator clip test lead, 6 x AA batteries, and hard carrying case

Three Insulation Test ranges with live circuit warning

- Insulation Resistance ranges: 100 MΩ, 200 MΩ, and 400 MΩ
- Basic accuracy ±5% of scale
- Three test voltages 250 V, 500 V, and 1000 V
- Lock Power On feature for extended test times
- Fuse protected and automatic discharge circuit
- Measures continuity to 3 Ω, Resistance to 500 Ω, and AC Voltage to 600 V
- 1.3 mA short circuit current
- CAT III-1000 V
- Dimensions: 7.9x3.6x2" (200x92x50 mm); Weight: 1.2 lbs (546 g) includes batteries

ORDERING	
380320	Analog High Voltage Megohmmeter

380260 Digital Megohmmeter

Complete with heavy duty test leads, alligator clip test lead, hanging strap, carrying case, and 6 x AA batteries

1000 V digital tester with large dual backlit display

- Double molded housing for added durability
- Dual display of Insulation Resistance and Test Voltage
- Backlit large display
- Insulation Resistance ranges: 200 MΩ and 2000 MΩ with 0.1 MΩ max resolution and ±3% of reading basic accuracy
- 250 V, 500 V, and 1000 V test voltages
- Auto Power Off
- Lo Ω function for testing connections
- Lock Power On function for hands-free operation
- Data Hold
- CAT III-1000 V
- Dimensions: 7.8x3.6x1.9" (200x92x50 mm); Weight: 24.6 oz (700 g)

ORDERING	
380260	Digital Megohmmeter

MG320 CAT IV Insulation Tester/True RMS Multimeter

Checking voltage on a lathe and insulation test on pump motor

Combines a portable Insulation Tester with a CAT IV True RMS Multimeter

- 5 Test Voltage ranges up to 1000 V
- Polarization Index (PI) and Dielectric Absorption Ratio measurements (DAR)
- Low Resistance measurement with Zero function
- Programmable Timer feature sets the duration of test
- Comparison Mode allows user to set the Pass/ Fail values for insulation measurements
- Step Voltage (10% steps at 50% to 120% of range)
- Auto-discharge of voltage test signal
- Lock Power-On function for hands-free operation
- Manually store/recall up to 99 readings
- High voltage and overload indication
- Data Hold to freeze displayed reading
- Auto Power Off and low battery indication
- CAT IV-600 V safety category

Model MG320

- Measures Insulation Resistance to 20 GΩ
- Backlit 6,000 count display with analog bargraph
- Complete with test leads, alligator clip, 6 x AA batteries, and soft case

ORDERING	
MG320	CAT IV Insulation Tester/True RMS Multimeter

382100/PQ3450 3-Phase Power Quality Analyzer/Dataloggers

Model 382100 includes 1200 A Clamp Probes and accessories

Model 382100 Kit— includes three 1200 A Clamp probes
Model PQ3450 (meter does not include clamp probes) — optional 200 A, 1200 A Current Clamps or 3000 A Flexible Current Clamp Probes available
PQ3450 kits (include Clamp probes) — See ordering section for available kits: PQ3450-2 (200 A range), PQ3450- 12 (1200 A range), and Q3450-30 (3000 A range)

Optional Clamp Probes for PQ3450

PQ34-2: 200 A Current Clamp Probes with 0.8" (19 mm) jaw opening

PQ34-12: 1200 A Current Clamp Probes with 2" (50 mm) jaw opening

PQ34-30: 3000 A Flexible Current Clamp Probes (24"/600 mm) for wrapping around busbars.

Choice of 1200 A kit (382100) or model with optional 200 A, 1200 A, and 3000 A ranges (PQ3450)

- Large, dot-matrix, sun readable, numerical, backlit LCD
- Captured measurements can be imported directly into Excel via the SD memory card
- Adjustable Current Transformer CT (1 to 600) and Potential Transformer PT (1 to 1000) ratio for high power distribution systems
- Log up to 30,000 reading on a removable SD memory card in MS Excel® format
- Wide sampling rate range (2 seconds to 2 hours)
- Built-in Clock and Calendar and easy-to-use on-screen menu
- Banana style input jacks and easy-to-hold rugged over molded housing
- Complete with 4 voltage leads with alligator clips (PQ1000), 8 AA batteries, SD memory card, Universal AC adaptor (100 to 240 V), and carrying case; Clamp probes are only included with kits.

SPECIFICATIONS	RANGE	BASIC ACCURACY
AC Voltage (True RMS)	600.0 V	±(0.5% rdg)
AC Current	Model 382100: 1200 A Model PQ3450: 3000 A (dependent on Clamp Probe range used)	±(0.5% rdg)
Active Power (MW)	9.999 MW	±(1.0% rdg)
Apparent Power (MVA)	9.999 MVA	±(1.0% rdg)
Reactive Power (MVAR)	9.999 MVAR	±(1.0% rdg)
Power Factor	0.00 to 1.00	±0.04
Frequency Range	45 Hz to 65 Hz	±0.1 Hz
Phase	-180° to +180.0°	±1°
Current Clamp input	200 mV, 300 mV, 500 mV; 1 V, 2 V, 3 V; user-adjustable	±(0.5% rdg)
Active Power Energy (MWH)	0.0 kWh to 9.999 MWH	±(2.0% rdg)
Apparent Power Energy (MVAH)	0.0 kVAh to 9.999 MVAH	±(2.0% rdg)
Reactive Power Energy (MVARH)	0.0 kVARh to 9.999 MVARH	±(2.0% rdg)
Datalogging	30,000 data (2 GB SD Card)	
CE/CAT rating	CE/CAT III-600 V	
Dimensions/ Weight	8.86x4.92x2.52" (225x125x64 mm)/2.2 lbs (1010 g)	

ORDERING	
382100	1200 A 3-Phase Power Analyzer/Datalogger Kit (includes 1200 A Clamp Probes)
PQ3450	3000 A 3-Phase Power Analyzer/Datalogger (Meter does not include Clamp Probes)
PQ1000	Replacement Voltage Test Leads with Alligator and Plunger Clips (4 leads)
PQ3450 Kits	
PQ3450-2	200 A Power Analyzer Kit: PQ3450 with PQ34-2
PQ3450-12	1200 A Power Analyzer Kit: PQ3450 with PQ34-12
PQ3450-30	3000 A Power Analyzer Kit: PQ3450 with PQ34-30
Clamp Probes for PQ3450	
PQ34-2	200 A Current Clamp Probes (Set of 3)
PQ34-12	1200 A Current Clamp Probes (Set of 3)
PQ34-30	3000 A, Flexible Current Probes (Set of 3)

SP505 Pocket Solar Power Meter

Measures solar power level from outdoor sunlight in W/m² or BTU (ft²•h)

- Determine the best location of solar panel and solar water heater installations; ideal use for window manufacturers, automotive industry, and remodeling home owners to check the level of solar radiation transmission through various glass thicknesses and degrees of tinting to use for window installations
- Built-in solar light sensor with precision photo diode
- Zero function and Data Hold
- Tripod mount (tripod not included)
- Complete with two AAA batteries and a pouch

SPECIFICATIONS			
Measuring Ranges	3999 W/m²	1 W/m²	±10 W/m²
	634 BTU/(ft²•h)	1 BTU/(ft²•h)	±3 BTU (ft²•h) or ±5% whichever is greater
Spectral Response	400 nm to 1100 nm		
Dimensions/ Weight	4.3x1.9x1" (108x48x23 mm)/2.8 oz (80 g)		

ORDERING	
SP505	Pocket Solar Meter

EMF510 EMF/ELF Meter

CE

Measures energy from electromagnetic fields (EMF) and electrical signals and is sensitive to extremely low frequency levels (ELF)

- Measure EMF/ELF levels in milliGauss (mG) or microTesla (µT) up to 2000 mG (200 µT) with two ranges to choose from
- Built-in single axis sensor provides basic accuracy reading of ±5%
- 30 to 300 Hz bandwidth
- Data Hold and Min/Max functions
- Auto power off with disable
- Tripod mount (tripod is not included)
- Ideal for monitoring power lines, electrical appliances, fans and blowers, and electrical circuits
- Backlit display to view in dimly lit areas.
- Complete with wrist strap and 3 AAA batteries. Tripod mount (tripod is not included)

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY
Range	200.0/2000 mG; 20.00/200.0 µT	0.1/1 mG; 0.01/0.1 µT	±(5%+3 digits) @ 50/60 Hz
Number of Axes	Single axis		
Dimensions/ Weight	4.2x2.3x1" (107x58x25 mm)/5.6 oz (160 g)		

ORDERING	
EMF510	EMF/ELF Meter

480826 Triple Axis EMF Tester

CE

Three axis (X,Y,Z) electromagnetic field measurement

- Three axis (X, Y, Z direction) electromagnetic field measurement
- Designed to provide user a quick, reliable and easy way to measure electromagnetic field radiation levels around power lines, electrical appliances and industrial devices
- Wide ranges (3 ranges of µTesla or mGauss)
- Calibrated to measure EMF radiation at wide bandwidths from 30 Hz to 300 Hz
- Big digit LCD display
- Data hold freezes reading on display
- Easy to use remote probe
- Complete with sensor with 3ft (930mm) cable, 9V battery, and hard carrying case

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
µTesla	20µTesla 200µTesla 2000µTesla	0.01µTesla 0.1µTesla 1µTesla	±(4% + 3d) ±(5% + 3d) ±(10% + 5d)
mGauss	200mGauss 2,000mGauss 20,000mGauss	0.1mGauss 1mGauss 10mGaussTesla	±(4% + 3d) ±(5% + 3d) ±(10% + 5d)
Number of Axes	Three axis X, Y, Z direction		
Band width	30Hz to 300Hz		
Sampling Time	Approx. 0.4 second		
Power Current	Approx. DC 2.7mA		
Dimensions	7.6x2.6x1.2" (195x68x30mm)		

ORDERING	
480826	Triple Axis EMF Meter

480846 8 GHz RF EMF Strength Meter

High frequency radiation measurement from 10 MHz to 8 GHz

- For electromagnetic field strength measurement including mobile phone base station antenna radiation, RF power measurement for transmitters, wireless LAN detection/installation, wireless communication applications and microwave leakage
- Measurement optimized for 900 MHz, 1800 MHz, 2.7 GHz, 3.5 GHz and 8 GHz
- Non-directional (isotropic) measurement with 3-channel (triaxial) measurement probe
- Max Hold and Average functions
- Manual store/recall up to 99 sets
- Level exceed audible alarm with user selectable threshold
- Complete with 9 V battery and carrying case

SPECIFICATIONS	RANGE
Frequency range	10 MHz to 8 GHz
Directional Characteristic	Isotropic, 3-dimensional
Measurement Ranges	20 mV/m to 108.0 V/m; 53 µA/m to 286.4 mA/m; 1 µW/m² to 30.93 W/m²; 0 µW/cm² to 3.093 mW/cm²
Resolution	0.1 mV/m, 0.1 µA/m, 0.1 µW/m², 0.001 µW/cm²
Dimensions/Weight	2.6x2.4x9.7" (67x60x247 mm)/8.8 oz (250 g)

ORDERING	
480846	RF EMF Strength Meter (8.0 GHz)

480836 3.5 GHz RF EMF Strength Meter

Radiation measurement in the 50 MHz to 3.5 GHz frequency range

- For electromagnetic field strength measurement of mobile phones, cell phone and base stations, microwave leakage
- Measurement optimized for 900 MHz, 1800 MHz and 2.7 GHz
- Non-directional (isotropic) measurement with three-channel (triaxial) measurement probe
- Max Hold and Average functions
- Manual store/recall up to 99 sets
- Level exceed audible alarm with user selectable threshold
- Complete with 9 V battery and carrying case

SPECIFICATIONS	RANGE
Frequency range	50 MHz to 3.5 GHz
Directional Characteristic	Isotropic, 3-dimensional
Measurement Ranges	20 mV/m to 108 V/m; 53 µA/m to 286 mA/m; 1 µW/m² to 30.93 mW/m²; 0 µW/cm² to 3.093 mW/cm²
Resolution	0.1 mV/m, 0.1 µA/m, 0.1 µW/m², 0.001 µW/cm²
Dimensions/Weight	2.4x2.4x9.3" (60x60x237 mm)/7.1 oz (200 g)

ORDERING	
480836	RF EMF Strength Meter (3.5 GHz)

EMF450 Multi-Field EMF Meter

CE

Convenient 3-in-1 EMF meter with easy-to-navigate menu and audible alarm

- Multi-Field measurements: Magnetic Field, Electric Field, Radio Frequency Strength
- Magnetic Field Triple Axis Sensor (X, Y, Z)
- 2.4" (240x320 pixels) color TFT display with adjustable screen brightness
- Store up to 20 RF his torical records
- Data Hold and Auto Power Off with disable feature
- Five languages: English, Traditional/Simplified Chinese, Japanese, Spanish
- Complete with 3 AAA batteries and USB power supply cable

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY
Magnetic Fields (50/60 Hz)	20/200/2000 mG	0.02/0.1/1 mG	±(15%+100 digit)
	2/20/200 µT	0.02/0.1/1 µT	
Electric Fields (50/60 Hz)	50 V/m to 2000 V/m		±(7%+50 digit)
RF Strength (50 MHz to 3.5 GHz)	0.02 µW/m² to 554.6 mW/m²	0.02 µW/m²	
	0.02 µW/cm² to 55.4 µW/cm²	0.002 µW/cm²	
	36.1 mV/m to14.46 V/m	0.2 mV/m	
	0.02 mA/m to 38.35 mA/m	0.2 µA/m	
	-51 dB to 16 dBm	2 dB	±2 dB at 2.45 GHz
Dimensions/ Weight	4.5x2.4x0.8" (115x60x21 mm)/4.2 oz (120 g)		

ORDERING	
EMF450	Multi-Field EMF Meter

MF100/SDL900 AC/DC Magnetic Field Meters

CE

Both meters include a uniaxial magnetic probe sensor with cover and hard case. MF100 also includes 9 V battery; SDL900 with SD memory card, Universal AC Adaptor with plugs (US, EU, UK, AU), and 6 AA batteries.

Measure AC and DC Magnetic Field with Uniaxial Hall Effect sensor with ATC

- N pole/S pole indicator
- Zero button for DC measurement
- Data Hold, Min/Max, and Auto Power Off with disable

SDL900 Additional Features

- Memory stores 99 readings manually and datalogging feature records readings with date and time stamp on an SD card (included) in Excel® format
- Both meters include a uniaxial magnetic probe sensor with cover and hard case. MF100 also includes 9 V battery; SDL900 with SD memory card, Universal AC Adaptor with plugs (US, EU, UK, AU), and 6 AA batteries.

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY
DC milli Tesla	300.00 mT, 3000.0 mT	0.01 mT, 0.1 mT	±(5% + 10 d)
DC Gauss	3000.0 G, 30,000 G	0.1 G, 1 G	±(5% + 10 d)
AC milli Tesla	150.00 mT, 1500.0 mT	0.01 mT, 0.1 mT	±(5% + 20 d)
AC Gauss	1500.0 G, 15,000 G	0.1 G, 1 G	±(5% + 20 d)
AC Bandwidth	50 Hz/60 Hz		
Sampling Rate (SDL900)	1 to 3600 seconds (adjustable)		
Dimensions/ Weight	MF100: 7.8x2.7x1.2" (195x68x30 mm)/9.5 oz (270 g) SDL900: 7.1x2.9x1.9" (182x73x48 mm)/10.7 oz (303 g)		

ORDERING	
MF100	AC/DC Magnetic Field Meter
SDL900	AC/DC Magnetic Field Meter/Datalogger

DT Series Laser Distance Meters

DT40M

DT60M

DT100M

Complete with 2 AAA batteries and wrist strap

Laser distance measurement that can also calculates area and volume and has Stakeout function that accurately marks the distance between studs

- Three models: DT40M (131 ft/40 m), DT60M (196 ft/60 m), DT100M (330 ft/100 m)
- Automatically calculates Area and Volume
- Indirect measurement using Pythagorean theorem
- Continuous mode with min/max function
- Displays Sum (+) / Difference (-) of multiple readings
- Front or rear edge reference
- Memory automatically stores 20 data points
- Stakeout function for accurately marking distances between studs and fence posts
- Built-in bubble level
- Large quad-LCD display with backlit feature; Auto Power Off

SPECIFICATIONS	DT40M	DT60M	DT100M
Measurement Range	2" to 131 ft (0.05 to 40 m)	2" to 196 ft (0.05 to 60 m)	2" to 330 ft (0.05 to 100 m)
Accuracy	±0.08" (±2 mm)	±0.08" (±2 mm)	±0.08" (±2 mm)
Resolution	0.0", 0.00 ft, 0.000 m	0.0", 0.00 ft, 0.000 m	0.0", 0.00 ft, 0.000 m
Area calculation	99,999 ft^2, 99,999 m^2	99,999 ft^2, 99,999 m^2	99,999 ft^2, 99,999 m^2
Volume calculation	99,999 ft^3, 99,999 m^3	99,999 ft^3, 99,999 m^3	99,999 ft^3, 99,999 m^3
Dimensions/Weight	4.6x2.2x1.3" (116x56x32 mm)/3.5 oz (100 g)		

ORDERING	
DT40M	Laser Distance Meter (131 ft/40 m)
DT60M	Laser Distance Meter (196 ft/60 m)
DT100M	Laser Distance Meter (330 ft/100 m)

Tough, Reliable and Accurate

InfraRed thermometers provide non-contact, point-and-shoot temperature measurements ensuring safety and accuracy on the job. Extech also offers a robust IR thermometer with waterproof IP65 rating and is drop-tested to 3 meters.

IR400 630°F (332°C), 8:1, Compact Laser IR Thermometer

Compact thermometer with MIN/MAX readings

- MAX/MIN features display highest and lowest values
- Built-in laser pointer identifies target area
- LCD display with backlight
- Automatic Data Hold when trigger released
- Fixed 0.95 emissivity covers 90% of surface applications
- Auto Power Off
- Complete with 9 V battery and pouch

42510A 1200°F (650°C), 12:1, Compact Laser IR Thermometer

Compact thermometer with high accuracy and wide Temperature range

- Wide Temperature measurement range from -58 to 1200°F (-50 to 650°C)
- Adjustable high/low visual and audible alarm
- Adjustable emissivity for better accuracy on different surfaces
- MAX/MIN features display highest and lowest values
- Built-in laser pointer identifies target area
- LCD display with backlight
- Over-range indicator
- Data Hold and Auto Power Off
- Complete with 9 V battery and pouch

SPECIFICATIONS	IR400	42510A
IR Temperature (Non-contact)	-4 to 630°F (-20 to 332°C)	-58 to 1200°F (-50 to 650°C)
Basic Accuracy	±2% of reading +4°F/2°C	±(1% of reading + 2°F/1°C)
Max. Resolution	0.1°F/°C	0.1°F/°C
Emissivity	0.95 fixed	0.1 to 1.00 (adjustable)
Distance to Spot Ratio	8:1	12:1
Air Temperature	—	—
Humidity	—	—
Dew Point	—	—
Waterproof	—	—
Drop proof	—	—
CE approved	Yes	Yes
Dimensions/ Wt	6.3x3.2x1.6" (160x82x42 mm)/6.3 oz (180 g)	6.3x3.2x1.6" (160x82x42 mm)/6.4 oz (180 g)

Display color changes when reading is outside Hi/Low set points

IR270 1202°F (650°C), 12:1, IR Thermometer with Color Alert

Fast responding, programmable alarm with red or blue display alert and audible alarm

- Great for processes that require temperature control and monitoring
- User programmable Hi/Low alarms with audible beeper — tri-color LCD display changes to Blue backlight when reading goes below low alarm setting and Red backlight when reading exceeds High set point
- Record/Recall up to 20 readings
- Adjustable emissivity for better accuracy on different surfaces
- MAX/MIN/AVG/DIF functions
- Built-in laser pointer identifies target area
- LCD display with backlight
- Data Hold, Auto Power Off, and Low battery indication
- Complete with 9 V battery and pouch

Waterproof (IP65) and rugged 3 meter drop proof design

IR320 1202°F (650°C), 12:1, Waterproof IR Thermometer with Color LED Alarm

Programmable high and low alarms with red (HI) and blue (LOW) visual LED alert

- Dual laser pointer identifies target area between the two points (~1"/25 mm diameter of measured area)
- Adjustable emissivity for better accuracy on different surfaces
- Programmable high and low alarm set points
- Lock function for continuous temperature measurement without pressing the trigger
- Waterproof (IP65 rating) with 3 m drop-proof protection
- MAX/MIN/AVG/DIF functions
- LCD display with backlight
- Tripod mount for hands-free operation (Tripod not included)
- Data Hold, Auto Power Off, and Low battery indication
- Complete with 9 V battery and pouch

IR270	IR320	SPECIFICATIONS
-4 to 1202°F (-20 to 650°C)	-4 to 1202°F (-20 to 650°C)	IR Temperature (Non-contact)
±(1% of reading +2°F/1°C)	±(1% of reading + 2°F/1°C)	Basic Accuracy
0.1°F/°C	0.1°F/°C	Max. Resolution
0.1 to 1.00 (adjustable)	0.10 to 1.00 (adjustable)	Emissivity
12:1	12:1	Distance to Spot Ratio
—	—	Air Temperature
—	—	Humidity
—	—	Dew Point
—	IP65	Waterproof
—	Drop tested to 3 meters	Drop proof
Yes	Yes	CE approved
7.1x4.2x1.6" (180x107x40 mm)/5.3 oz (150 g)	7.4x4.6x2.2" (189x118x55 mm)/6.3 oz (180 g)	Dimensions/ Wt

Fast responding, wide temperature ranges

Extech's IR thermometers accurately detect temperatures at far distances, and the 100 ms response time enables faster hot spot scanning.

Type K Thermometer

IR267 1112°F (600°C), 12:1, IR Thermometer with Type K Input

Displays Air Temperature and IR or Type K

- Wide temperature range for non-contact InfraRed and Type K thermocouple measurements
- Measures Ambient (Air) Temperature
- Adjustable emissivity for better accuracy on different surfaces
- Adjustable high/low visual and audible alarm
- MAX/MIN/A VG and DIF for differential temperature reading
- LCD display with backlight
- Built-in laser pointer
- Data Hold, Auto Power Off, and Low battery indication
- Complete with 9V battery and general purpose Type K bead wire probe

For a variety of Type K Thermocouple temperature probes see below and p. 46, 48

42512 Dual Laser, 1832°F (1000°C), 30:1, IR Thermometer

Fast response and accurate measurements

- Dual laser simplifies distance-to-target ratio—no more calculations!
- Accurate measurements at 30" (762 mm) distance
- Fast 150 millisecond instantaneous response for capturing spikes in temperature
- Max mode captures and holds rapidly changing temperatures
- Lock function for continuous readings
- White backlit dual LCD display
- Adjustable emissivity increases measurement accuracy for different surfaces
- Double molded housing
- Adjustable High/Low set points with audible alarm alerts user when temperature exceeds the programmed set points
- Complete with carrying case and 9 V battery

ACCESSORIES (See p. 44 for more Type K probes)	
TP870	Type K Bead wire Probe (-40 to 482°F/ -40 to 250°C)
871515	Type K, 4" (100 mm) General Probe (-32 to 1292°F/ -200 to 700°C)
881602	Type K, 6" (100 mm) Surface Probe (-58 to 1472°F/ -50 to 800°C)
881603	Type K, 6" (150 mm) Immersion Probe (-58 to 1292°F/ -50 to 700°C)

SPECIFICATIONS	IR267	42512
IR Temperature (Non-contact)	IR: -58 to 1112°F (-50 to 600°C);	IR: -58 to 1832°F (-50 to 1000°C)
Type K Temperature (Contact)	Type K: -58 to 2498°F (-50 to 1370°C)	—
Air Temperature	—	—
Humidity	—	—
Basic Accuracy	IR: ±2% rdg or 4°F (2°C); Type K: ±1.5% rdg + 2°F/1°C	IR: ±(1% of rdg + 2°F/1°C)
Max. Resolution	0.1°F/°C	0.1°F/°C
Emissivity	0.1 to 1.00 (adjustable)	0.10 to 1.00 (adjustable)
Distance to Spot Ratio	12:1	30:1
CE approved	Yes	Yes
Dimensions/Weight	6.0x4.7x1.7" (153x120x42 mm)/4.9 oz (138 g)	5.7x4x1.6" (146x104x43 mm)/5.7 oz (163 g)

42545 1832°F (1000°C), 50:1, with Alarm, IR Thermometer

50:1 distance to target ratio

- Highest 50 to 1 distance to target ratio measures smaller surface areas at greater distances
- Widest Temperature range from -58 to 1832°F (-50 to 1000°C)
- Adjustable high/low alarm alerts user visually and audibly when temperature exceeds programmed limits
- Adjustable emissivity for better accuracy on different surfaces
- MIN/MAX/AVG/DIF features display highest, lowest, average, and MAX minus MIN values
- Large backlit display
- Built-in laser pointer
- Automatic Data Hold
- Auto Power Off
- Complete with 9 V battery and hard carrying case

Type K Thermometer

42570 3992°F (2200°C), 50:1, Dual Laser, IR Thermometer

Fast response (100 ms) with high accuracy plus Type K input and USB interface

- High 50:1 distance to target ratio measures smaller surface areas at greater distances
- Dual laser targeting indicates ideal measuring distance when two laser points converge to 1" target spot
- Fast 100 ms response time
- Tripod mounting feature and Lock function for continuous measurements
- Stores up to 100 readings
- Backlit LCD with bargraph
- MAX/MIN/AVG/DIF functions
- Adjustable emissivity
- Adjustable High/Low set points with audible alarm
- Complete with general purpose Type K bead wire probe, USB cable and PC software, tripod, 9 V battery and case

For a variety of Type K Thermocouple temperature probes see p. 44, 46

Upload stored images/ videos to a PC for further analysis or report documentation.

VIR50 3992°F (2200°C), 50:1, Dual Laser, Video IR Thermometer

2.2" Color TFT LCD and built-in camera with a microSD card for capturing images (JPEG) and videos

- Dual laser targeting indicates ideal measuring distance when two laser points converge to 1" target spot
- Fast 150 ms response time
- Color LED bargraph
- Type K and Air Temperature and Relative Humidity functions
- Adjustable emissivity
- Adjustable High/Low set points with audible alarm
- MAX/MIN/AVG/DIF functions
- Tripod mounting feature and Lock function for continuous measurements
- USB interface
- Includes microSD card, general purpose Type K bead wire probe, USB cable, rechargeable 3.7 V battery (BATT-37V), and case

For a variety of Type K Thermocouple temperature probes see p. 44, 46

42545	42570	VIR50
IR: -58 to 1832°F (-50 to 1000°C)	IR: -58 to 3992°F (-50 to 2200°C)	IR: -58 to 3992°F (-50 to 2200°C)
—	Type K: -58 to 2498°F (-50 to 1370°C)	Type K: -58 to 2498°F (-50 to 1370°C)
—	—	Air: 32 to 122°F (0 to 50°C)
—	—	0 to 100% RH
IR: 2% rdg + 4°F/2°C<932°F (500°C); 3% + 9°F/4°C>932°F (500°C)	IR: ±(1% of rdg + 2°F/1°C) Type K: ±(1.5% of rdg + 5°F/3°C)	IR: ±(1% of rdg + 2°F/1°C) Type K: ±(0.5% + 2.7°F/1.5°C); RH: ±5%
0.1°F/°C	0.1°F/°C	0.1°F/°C; 1% RH
0.1 to 1.00 (adjustable)	0.1 to 1.00 (adjustable)	0.10 to 1.00 (adjustable)
50:1	50:1	50:1
Yes	Yes	Yes
9x3.9x2.2" (230x100x56 mm)/10.2 oz (290 g)	8x6.1x2" (204x155x5 2mm)/11.3 oz (320 g)	7.4x6.0x2.2" (189x152x57 mm)/17.4 oz (494 g)

More Capabilities for Better Diagnostics

Our thermocouple thermometers deliver accurate temperature readings and easy, one-button Delta-T calculations and feature high/low alarms, dual and triple displays, data functions, and datalogging.

ACCESSORIES (See p. 19 for additional temperature probes)	
TP200	Type K, Clamp Probe (-4 to 200°F/-20 to 93°C)
TP870	Type K, Bead Wire Probe (-40 to 482°F/-40 to 250°C)
TP882	Type K, Penetration Probe (-40 to 1000°F/-40 to 538°C)
871515	Type K, 4" (100 mm) General Probe (-32 to 1292°F/-200 to 700°C)
881605	Type K, 8" (203 mm) General Probe (-328 to 1292°F/-200 to 700°C)
881603	Type K, 6" (150 mm) Immersion Probe (-58 to 1292°F/-50 to 700°C)
881602	Type K, 6" (100 mm) Surface Probe (-58 to 1472°F/-50 to 800°C)

TM100 Type J/K Single Input Thermometer

Side-mounted controls allow for convenient one-handed operation

- Large backlit LCD display
- Wide temperature range with 0.1°/1° resolution
- Readout in °F, °C, or K (Kelvin)
- Data Hold function freezes reading on display
- Max/Min/Avg readings with relative time stamp
- Offset key used for zero function to make relative measurements
- Auto Power Off with disable feature
- Complete with general purpose Type K bead wire temperature probe and 9 V battery. (Optional temperature probes available on left accessories chart and p. 19)

SPECIFICATIONS	TM100
Single or Dual Input	Single
Type K °F (°C)	-328 to 2501°F (-200 to 1372°C)
Type J °F (°C)	-346 to 2012°F (-210 to 1100°C)
Basic Accuracy	±0.15% rdg
Resolution	0.1°/1°
Datalogging	—
CE approved	Yes
Dimensions	8.7x2.5x1.1" (220x63x28 mm)
Weight	7 oz (200 g)

EA11A EasyView® Type K Single Input Thermometer

Large dual LCD display with 0.3% accuracy and memory

- Simultaneously displays current temperature and Max/Min/Avg or stored memory location
- Selectable units of °F and °C
- Manually store/recall up to 150 readings
- Data Hold and Auto Power Off
- Records MAX /MIN/AVG readings for later recall
- Complete with built-in stand, protective holster, general purpose Type K bead wire probe, and 6 AAA batteries. (Optional temperature probes available on p. 19, 44)

EA10 EasyView® Type K Dual input Thermometer with Dual readings

Big backlit display with relative and elapsed time indication

- Displays [T1 and T2] or [T1-T2 and T1] or [T1-T2 and T2]
- Selectable units of °C/°F or Kelvin
- Timer function displays elapsed time plus the time when MAX/MIN readings are taken
- OFFSET key used for zero function to make relative measurements
- Data hold and Auto Power Off
- Complete with built-in stand, protective holster, two general purpose Type K bead wire temperature probes, and 6 AAA batteries. (Optional temperature probes available on p. 19, 44)

EA15 EasyView® 7 Thermocouple Datalogger

Internal memory stores up to 8800 data sets

- Seven Thermocouple type selections: K, J, T, E, R, S, N
- Large backlit display
- Stores Time, T1 and T2
- Manual push-button datalogging or automatic with programmable sample rate of 3 to 355 seconds per reading
- Manual record/recall of data
- Data Hold and Auto Power Off
- MAX/MIN/AVG or MAX/MIN with elapsed time
- Complete with two general purpose Type K bead wire temperature probes, Windows® compatible software, USB cable, protective holster, case, and 6 AAA batteries. (Optional temperature probes available on p. 19, 44)

EA11A	EA10	EA15
Single	Dual	Dual
-58 to 1999°F (-50 to 1300°C)	-200 to 1999°F (-200 to 1360°C)	-200 to 1994°F (-150 to 1090°C)
—	—	-200 to 1999.9°F (-150 to 1370°C)
±0.3% rdg	±0.3% rdg	±0.05% rdg
0.1°/1°	0.1°/1°	0.1°
—	—	8800 readings
Yes	Yes	Yes
5.9x2.8x1.3" (150x72x35 mm)	6x2.8x1.5" (152x72x37 mm)	5.91x2.83x1.38" (150x72x35 mm)
8.3 oz (235 g)	8.3 oz (235 g)	8.3 oz (235 g)

Track Temperature Trouble with Extech

4-Channel Datalogger Thermometer records measurements on an SD Card and easily transfers readings to an Excel® spreadsheet for analysis

ACCESSORIES (See p. 19 and 44 for additional temperature probes)	
TP200	Type K, Clamp Probe (-4 to 200°F/-20 to 93°C)
TP870	Type K, Bead Wire Probe (-40 to 482°F/-40 to 250°C)
TP882	Type K, Penetration Probe (-40 to 1000°F/-40 to 538°C)
850185	RTD Temperature Probe for SDL200 (86 to 482°F/30 to 250°C)
UA100-240	100-240V AC Adaptor with 4 plugs (US, EU, UK, AU)

SD200 3-Channel Temperature Datalogger

Records data on an SD card in Excel® format for easy transfer to a PC for analysis

- Triple LCD simultaneously displays 3 Type K Temperature channels
- Datalogger date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC
- Selectable data sampling rate: 5, 10, 30, 60, 120, 300, 600 seconds or Auto
- Complete with 6 AAA batteries, SD card, Universal AC Adaptor, 3 general purpose Type K bead wire temperature probes, and mounting bracket

SPECIFICATIONS	SD200
Number of Inputs	Triple
Type K °F (°C)	-58 to 2372°F (-100 to 1300°C)
Type J °F (°C)	—
Basic Accuracy	±(0.5% + 1°F/ 0.5°C)
Max. Resolution	0.1°
Datalogging	4 GB SD memory card included for datalogging
CE approved	Yes
Dimensions/Weight	5.2x3.1x1.3" (132x80x32 mm)/10 oz (285 g)

SDL200 4-Channel Datalogging Thermometer

4-Channel datalogging with 6 Thermocouple types (J, K, E, T, R, S) and 2-Channel datalogging with RTD (PT100Ω) probes

- Displays [T1, T2, T3, T4] or [T1-T2]
- Datalogs using SD card (included)
- User programmable sampling rate from 1 to 3600 seconds
- Records readings with real date and time stamp
- Manual store/recall of up to 99 records
- Min/Max and Data Hold functions
- Offset adjustment used for zero function to make relative measurements
- Auto Power Off with disable
- Complete with four general purpose Type K bead wire temperature probes, SD card, hard case, and 6 AA batteries;
  Optional AC Adaptor (UA100-240) and RTD probe (850185)

TM500 12-Channel Datalogging Thermometer

12-Channel datalogging with 6 Thermocouple types (J, K, E, T, R, S)

- Simultaneously displays CH1 to CH8 or CH9 to CH12
- Offset adjustment used for zero function or to make relative measurements
- Stores 99 readings manually and datalogs using SD card (included)
- Records readings with date and time stamp
- User programmable sampling rate: 1 to 3600 seconds
- Min/Max and Data Hold functions
- Auto Power Off with disable function
- Built-in PC interface with optional software
- Complete with 8 AA batteries, twelve general purpose Type K bead wire temperature probes, SD card, and hard carrying case

SDL200	TM500	SPECIFICATIONS
Quad	Twelve	Number of Inputs
-148 to 2372°F (-100 to 1300°C)	-148 to 2372°F (-100 to 1300°C)	Type K °F (°C)
-148 to 2102°F (-100 to 1200°C)	-148 to 2102°F (-100 to 1150°C)	Type J °F (°C)
±0.4% rdg	±0.4% rdg (+1.8°F/+1°C) Types J,K,E,T ±0.5% rdg (+2°F/+1°C) Types R,S	Basic Accuracy
0.1°/1°	0.1°/1°	Max. Resolution
4 GB SD memory card included for datalogging	4 GB SD memory card included for datalogging	Datalogging
Yes	Yes	CE approved
7.2x2.9x1.9" (182X73X48 mm)/17.6 oz (500 g)	8.9x4.9x2.5" (225x125x64 mm)/2.1 lbs (944 g)	Dimensions/Weight

TM26 Waterproof Food Thermometer – NSF Certified

NSF certified for measuring in liquids, pastes, and semi-solid food. Ideal for use in food industry, agriculture, and laboratories. Built-in magnet for mounting on metal surfaces.

NSF certified Food Thermometer with long stainless steel penetration probe for measuring in liquids, pastes, and semi-solid food

- NSF certified for measuring food
- 4.1" (105 mm) Stainless steel penetration probe with 5 ft (1.5 m) cable
- Measures Temperature from -40°F to 392°F (-40°C to 200°C)
- Audible and visual alarm alerts when temperature level is higher or lower than the user programmed High/Low set points
- LCD displays Temperature reading, alarm indicator and high or low alarm icons
- ±1.8°F/1°C basic accuracy with 0.1° max resolution
- Displays Min/Max reading with reset function
- Data Hold freezes current reading on display
- Low battery indication
- Unit has magnetic back and can be mounted on a metal surface, used on a desktop with included foot stand, or wall mounted
- Waterproof housing and sensor designed to meet IP65
- Dimensions: 3.4x2.2x1.2" (86x57x30 mm) Weight: 3.2 oz (90 g)
- Complete with magnetic back, foot stand, temperature sensor, and a CR2032 3 V button battery

ORDERING	
TM26	Waterproof Food Thermometer

NSF Certified *- ensure public health, food safety requirements and standards are met and that products are designed and constructed in a way that promote food safety*

TM55 Waterproof Pocket Fold-Up Food Thermometer – NSF Certified

Adjustable folding probe (0° to 180°) angle

Dishwasher safe construction (IP65) with folding stainless steel probe is NSF certified for measuring liquids, pastes, and semi-solid food

- Measures from -40 to 482°F (-40 to 250°C) with 2.4" (61 mm) stainless steel probe
- Fast response time at < 5 seconds in moving liquid
- Large LCD display with 0.1° resolution
- Basic accuracy: ±1°F/0.5°C
- Auto power off (with disable) after 1 hour or when probe is placed in stored position
- Probe can be positioned from 0° (storage) to 180° angle
- Ultrasonically welded housing (waterproof IP65 rated) with anti-microbial additive
- Built-in magnetized strip attaches to refrigerator
- Dishwasher safe (top rack)
- Dimensions: 4.6x1.5x0.8" (116x38x20 mm); Weight:1.5 oz (41.2 g)
- Complete with CR2032 battery

ORDERING	
TM55	Waterproof Pocket Fold-Up Food Thermometer

2.4" (61 mm) folding stainless steel probe (NSF certified) for measuring in liquids, pastes, and semi-solid food. Ideal for use in food industry, agriculture, and laboratories.

TM20 Waterproof Temperature Indicator

Audible and visual alarm with High/Low set points

- 0.78" (20 mm) stainless steel probe with 9.6ft (2.9 m) cable
- Measures from -40 to 158°F (-40 to 70°C)
- ±1.8°F/1°C basic accuracy
- 0.1° resolution
- Min/Max and Data Hold
- Magnetic back
- Waterproof (IP65) housing
- Dimensions: 3.4x2.2x1.2" (86x57x30 mm) Weight: 3.2 oz (90 g)
- Complete with magnetic back, foot stand, probe, and one CR2032 3V button battery

ORDERING	
TM20	Waterproof Temperature Indicator

39240 Waterproof Thermometer

Pocket-size with MAX/MIN recording

- 2.75" (70 mm) Stainless steel stem
- Data Hold and Auto power off
- Range: -40 to 392°F (-40 to 200°C) Basic accuracy: ±2°F/1°C Resolution: 0.1°/1°
- Dimensions: 5.9x0.8x0.7" (150x20x18 mm); Weight: 0.7 oz (20 g)
- Complete with one LR44 button battery and protective cover

ORDERING	
39240	Waterproof Thermometer

401014 Indoor/Outdoor Thermometer

Built-in memory stores Minimum and Maximum Temperature readings

- Large LCD displays 1" (25 mm) digits for indoor/outdoor temperature
- Indoor Range: 14 to 140°F (-10 to 60°C) Outdoor Range: -58 to 158°F (-50 to 70°C) Basic accuracy: ±1.8°F /1°C Resolution: 0.1°F/°C
- Dimensions: 4.4x4x0.9" (112x102x22 mm); Weight: 6.5 oz (186 g)
- Complete with weatherproof temperature sensor with 9.6 ft (3 m) thin cable, stand, AAA battery, and wall mounting bracket

ORDERING	
401014	Big Digit Indoor/Outdoor Thermometer

401014A Indoor/Outdoor Temperature Alert

Displays indoor/outdoor temperatures and user programmable High/Low alarm for outdoor (external probe) temperature

- Large LCD with easy-to-read 1" (25 mm) digit size
- Temperature Range: Indoor (built-in sensor): 14 to 140°F (-10 to 60°C) Outdoor (external probe): -58 to 158°F (-50 to 70°C)
- 0.1°F/°C resolution and basic accuracy of ±1.8°F (±1°C)
- User programmable High/Low audible alarms for Outdoor Temperature
- Memory stores Min/Max readings
- Water resistant/splash proof sensor with 9.6 ft (3 m) of thin cable for remote temperature measurements
- Dimensions: 4.4x4x0.9" (112x102x22 mm); Weight: 6.5 oz (186 g)
- Complete with internal and attached remote temperature sensor with cable, built-in stand, AAA battery, and wall mounting bracket

ORDERING	
401014A	Big Digit Indoor/Outdoor Temperature Alert

RH600 Dew Point Meter

The RH600 accurately measures and datalogs dew point levels in compressed air systems. This high-precision meter can help manufacturing professionals protect product quality while avoiding damaged pneumatic equipment, corrosion, and problems in cylinder and valve systems.

- Precisely measure dew point as low as -50°C (-58°F) under ambient pressure up to 20 bar
- Take reliable readings using the sensor purge/purification feature, which allows the probe sensor to dry quickly after contact with moisture
- Directly insert the probe sensor into the compressed air system through a G1/2" thread
- Measure low humidity (RH <5%) with high accuracy (±0.025%)
- Easily monitor dew point on the color graphical display with a menu-based user interface
- Log and transfer up to 32,000 data sets to a computer (in CSV format) using USB cable
- Program high/low set points for temperature, relative humidity, and dew point with visual and audible alarms
- Complete with RH601 Dew Point Probe, AC adapter, Micro USB to USB-A cable, 3.7 V Li-ion battery, and hard case

SPECIFICATIONS	RANGE	MAX. RESOLUTION	BASIC ACCURACY
Relative Humidity	15 to 100% RH 5 to 15% RH 0 to 5% RH	0.01% RH	±2% RH + 3% of reading ±1% RH + 5% of reading ±0.025% RH + 17.5% of reading
Temperature	-10°C to 60°C (14°F to 140°F)	0.01°	±0.3°C (±0.54°F)
Dew Point	-40°C to 30°C (-40°F to 86°F) -50°C to -40°C (-58°F to -40°F)	0.01°	±2°C (±3.6°F) ±2.5°C (±4.5°F)
Water Concentration	40 to 20,000 ppm	1	±(7.3 ppm + 8.3% of reading)
Response Time	At flow rate 0.2 m/s, 1 bar pressure, 63% RH [90% RH] 0°C to 40°C Td (32°F to -40°F Td): 20 s [120 s] -40°C to 0°C Td (-40°F to 32°F Td): 10 s [20 s]		
Datalogging	32,000 data sets with time stamps		
Power	3.7 V rechargeable Li-ion battery (included)		
Operating Condition	-10°C to 60°C (14°F to 140°F), Pressure: 0 to 20 bar Accuracy at environment temperature: 16°C to 25°C (60.8°F to 77°F)		
Dimensions/Weight	192 mm × 77 mm × 40 mm (7.5 in × 3.0 in × 1.6 in) / 598 g (1.3 lb)		

ORDERING	
RH600	Dew Point Meter
RH601	Dew Point Probe (-50°C Td)

445703/445715 Big Digit Hygro-Thermometers

445703 445715 with remote probe

1" Digits on large dual LCD display for easy viewing

- Large dual LCD simultaneously displays Temperature (14 to 140°F/-10 to 60°C) and Humidity (10 to 99% RH), plus MAX/MIN with reset function with Max resolution of 0.1°and 1%
- **Model 445703** is designed with built-in Humidity and Temperature sensor with ±1.8°F/1°C and ±5% RH basic accuracy
- **Model 445715** includes remote probe with 18" (457 mm) cable and probe with ±1.8°F/1°C and ±4% RH basic accuracy; probe clips on side of meter; Rear calibration adjustment pot
- Dims: 4.3x3.9x0.78" (109x99x20 mm); Wt: 6 oz (169 g)
- Complete with built-in stand, wall mount bracket, and AAA battery; Model 445715 also includes remote sensor. Optional calibration salt bottles (RH300-CAL)

ORDERING	
445703	Big Digit Hygro-Thermometer
445715	Big Digit Remote Probe Hygro-Thermometer
RH300-CAL	33% & 75% RH Calibration Kit (for 445715)

445814/445815 Humidity Alerts

445814 445815 with remote probe

These Humidity Alerts have audible and visual alarm that warn when conditions for mold growth exist (bad for health) or when low humidity conditions for static electricity exist.

Programmable Alarm warns when Humidity level is too high or too low

- %RH audible and visual alarm alerts when humidity is higher or lower than HI/LO set points, plus Max/Min with reset function
- Simultaneous display of Temperature (14 to 140°F/-10 to 60°C) and Humidity (10 to 99% RH)
- Max resolution: 0.1°, 1%; Basic accuracy: ±1.8°F/1°C and ±4% RH
- Displays Dew Point temperature
- Rear calibration adjustment pot for Humidity and Temperature
- Warns when conditions for mold growth exist (bad for health) or air too dry (static)
- Dims: 4.3x3.9x0.78" (109x99x20 mm); Wt: 6 oz (169 g)
- Complete with built-in stand, wall mount bracket, sensor and one AAA battery; optional calibration salt bottles (RH300-CAL)
- **Model 445814** is designed with built-in Humidity and Temperature sensor
- **Model 445815** includes remote probe with 18" (457 mm) cable and probe clip on side of meter

ORDERING	
445814	Humidity Alert
445815	Humidity Alert II
RH300-CAL	33% & 75% RH Calibration Kit (for 445815)

445713 Big Digit Indoor/Outdoor Hygro-Thermometer

Monitor Indoor/Outdoor Humidity and Temperature

- External Temperature Probe: 14 to 140°F (-10 to 60°C)
- Internal Temperature Sensor: 14 to 140°F (-10 to 60°C)
- Internal Relative Humidity Range: 10 to 99% RH
- Basic accuracy of ±1.8°F (±1.0°C), ± 5% RH
- Max/Min with “reset” function
- Dimensions: 4.3x3.9x0.78" (109x99x20 mm); Weight: 6 oz (169 g)
- Includes built-in stand, wall mounting bracket, and a 1.5 V AAA battery. Includes outdoor sensor with 35" (89 cm) cable

ORDERING	
445713	Big Digit Indoor/Outdoor Hygro-Thermometer with Remote Probe

CTH10A Large Wall Mount Radio Controlled Clock/Calendar + Hygro-Thermometer

4.3" (109 mm) digit time display receives Time Code from NIST Radio Station

- Receives Time Code from NIST Radio Station WWVB (North American region) to maintain accuracy within 1 second (North America region)
- Signal indicator displays signal strength in 3 levels to indicate successful synchronization
- LCD displays Time, Relative Humidity (20 to 99% RH), Temperature (32 to 122°F/0 to 50°C), Year, Month, Date, and Day
- Max resolution: 0.1°, 1% RH
- Basic Accuracy: ±2°F/1°C and ±6% RH
- Time can be displayed as 12 or 24 hour format
- Large 4.3" (109 mm) digit clock display can be easily viewed from a distance
- Automatically adjusts for daylight savings time (DST)
- Programmable Alarm Clock with Snooze feature
- Built-in stand for desktop or wall-mount
- Dimensions: 16.8x11.5x1.3" (426x292x32 mm); Weight: 21.4 oz (608 g)
- Complete with built-in stand and three C size batteries

ORDERING	
CTH10A	Radio Controlled Wall Clock + Hygro-Thermometer

IAQ320 Indoor Air Quality Monitors

Accurately measure particulate matter, CO_2, IAQ health index, air temperature, and relative humidity so you can maintain a healthy work environment

- Simultaneously measure and display key indoor air quality parameters (PM2.5, CO2, air temperature, relative humidity, and IAQ health index).
- Easily read air quality values from a distance on the 10-inch LED display.
- Programmable data sampling rate, with high/low limits coupled with visual and audible alarm indicators.
- Tri-color LED bars clearly show you the condition of PM2.5 and CO_2 levels indicating safe (green), warning (yellow), and alarm (red).
- Store up to 12,000 records that can easily be exported in CSV format for reporting and documentation needs.
- Mount the meter on the wall or use the tilt stand on a desktop.

CO_2: HEALTHY
$PM_{2.5}$: WARNING

CO_2: HEALTHY
$PM_{2.5}$: CRITICAL

CO_2: WARNING
$PM_{2.5}$: HEALTHY

SPECIFICATIONS	RANGE	MAX. RESOLUTION	BASIC ACCURACY
PM2.5	0 to 999 ug/m3	1 µg/m3	± 10% of reading
CO_2	0 to 9999 ppm	1 ppm	± (40 ppm + 3% of reading)
Air Temperature	-10°C to 60°C (14°F to 140°F)	0.1°C/°F	± 0.6°C (0.9°F)
Relative Humidity	0.1 to 99.9%	0.1% RH	± 5% RH
Sample Rate	1 min, 2 min, 5 min, 10 min, 30 min, 60 min, 90 min, 120 min		
Memory	12,000 data sets with time stamps. Transferable to PC via USB connection		
Power	5 V / 600 mA universal AC adaptor with multi-plugs (US, EU, UK, AU)		
Dimensions (L×W×D)	257 mm × 168 mm × 45.5 mm (10.1 in × 6.6 in × 1.8 in)		
Weight	610 g (1.3 lb)		
Accessories Included	Inlet air filter (x10), 2 m USB-C to USB type A cable, universal AC adapter with multi-plugs (US, EU, UK, AU), mounting screw		

ORDERING	
IAQ320	Air Quality Meter / Datalogger with PM2.5
IAQ320-FILTER	Replacement Inlet Filter for IAQ320
IAQ320-ADPTR	AC Adapter for IAQ320

RHT30/TH30 USB Humidity/Temperature/Pressure Dataloggers

RHT30
Includes USB cover/tilt stand

TH30
Includes Probe and USB cover

CE

RHT30 datalogs Humidity and Temperature. TH30 records T1 (Air Temp) and T2 (External Probe Temp) with date/time stamp

- Compact size housing with built-in NTC thermistor and capacitive humidity sensor (RHT30) or external temperature probe (TH30) designed with standard USB connector for easy data downloading to a PC
- User programmable settings: 6 languages, sample rate, start delay time, alarm delay time, high/low alarm range, and security feature
- Status Indication via Red and Green LEDs; Max/Min function
- Start button begins continuous datalogging until memory is full or by pressing Stop
- Bookmark 8 locations in a data recording log with a press of the Mark button
- Long battery life (approx. 3 month continuous reading)
- Generates a PDF report or Excel® spreadsheet when plugged into a PC
- RHT30 complete with (2) CR2032 batteries, USB cover (can be used as a stand), wall mounting screw, and built-in hanger. RTH30 complete with (2) CR2032 batteries, cover/stand, TP830 probe, and hanger

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Humidity	0.1 to 99.9% RH	0.1% RH	±3% RH
Temperature (Air)	-22 to 158°F (-30 to 70°C)	0.1°	±1.0°F (±0.5°C)
Datalogging interval	30 seconds to 2 hours		
Memory	RHT30: Humidity: 24 K points, Temperature: 24 K points TH30: T1 (Air temp): 24 K points, T2 (External Probe Temp) 24 K points		
Dimensions/Weight	4.3x1.6x0.75" (110x40x19 mm)/1 oz (90 g)		

ORDERING	
RHT30	USB Humidity/Temperature Datalogger
TH30	USB Dual Temperature Datalogger
TP830	0.78" (2 cm) Stainless Steel Thermistor Probe w/ 39" (1 m) cable (-22 to 158°F/-30 to 70°C)

RHT10/TH10 Humidity and Temperature USB Dataloggers

CE

Monitors Temperature & Humidity (RHT10) levels. USB plugs into a PC for data analysis with software

Two models to choose from, with USB interface for easy data download

- **Model RHT10** datalogs 16,000 Temperature/ 16,000 RH readings; Dew point indication and calculate Grains Per Pound (grams per kilogram) up to 1120 GPP (160 g/kg) via included Windows® compatible software

  Model TH10 datalogs 32,000 Temperature readings
- Selectable data sampling rate: 2 seconds to 24 hours
- User-programmable alarm thresholds for RH and Temperature
- Humidity: 0 to 100% RH (Model RHT10 only), Accuracy: ±3% RH; Temperature: -40 to 158°F (-40 to 70°C), Accuracy: ±1.8°F/1°C
- 1-year battery life; Dimensions: 5.1x1.1x0.9" (130x30x25 mm)/Wt: 1 oz (20 g)
- Complete with 3.6 V Lithium battery, protective USB cap, mounting bracket, and Windows® compatible software

ORDERING	
RHT10	Humidity and Temperature USB Datalogger
TH10	Temperature USB Datalogger

RHT20 Humidity and Temperature Datalogger

Complete with 3.6 V Lithium battery, mounting bracket with combination lock, and Windows® compatible analysis software

Datalogs 16,000 Humidity and 16,000 Temperature readings

- USB interface for easy setup and data download to a PC
- Monitors Humidity & Temperature levels in warehouse, storage rooms, freezers, shipping vans, and offices
- Dew point indication via Windows® compatible software (included)
- Selectable data sampling rate: 1 second to 24 hours
- User-programmable alarm thresholds for RH and Temperature
- LCD displays current readings, Min/Max, and alarm status
  Humidity: 0 to 100% RH, 0.1% RH resolution, Accuracy: ±3% RH;
  Temperature: -40 to 158°F (-40 to 70°C), 0.1°F/°C resolution, Accuracy: ±1.8°F/1°C
- 3-month battery life; Dimensions: 3.7x1.9x1.2" (94.4x48.9x31.2 mm)/Wt: 3.2 oz (90.7 g)

ORDERING	
RHT20	Humidity and Temperature Datalogger

42280A Temperature and Humidity Datalogger

Continuously monitor temperature and humidity to obtain ideal storage conditions in laboratories or cleanrooms

- Easy-to-read LCD screen displays humidity, temperature, date, and time
- Stores up to 24,000 recorded data sets with date and time stamp
- Audible and visible alarms help maintain optimal environmental conditions
- Generates PDF reports with trending graphs, and exports data to Microsoft® Excel spreadsheets when plugged into a PC
- Add time-stamped markers, while logging to record events in your reports (max 8 markers)

ORDERING	
42280A	Temperature and Humidity Datalogger

RH550 Humidity/Temperature Chart Recorder with Touchscreen

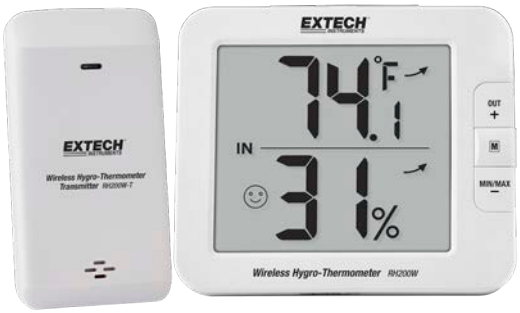
PC software included

Simultaneously track humidity, temperature, and dew point with numerical and graphical display

- View recorded alarm values by date sorting or by temperature and humidity values
- Record MIN/MAX measurement values and recall saved data files with History Mode
- Capture up to 20,000 data points and store on Internal 16 GB memory or export in CSV format
- Audible and visual alarm with Hi/Low set points
- Large 17.8 cm (7 in) color LCD with display zoom feature, touchscreen menu, and screen capture capability with finger swipe

ORDERING	
RH550	Humidity+Temperature Chart Recorder (110 V adaptor w/standard North American plug)

RH200W Multi-Channel Wireless Hygro-Thermometer Kit



Connect up to 8 wireless transmitters to remotely measure Temperature and Humidity levels up to 98 ft (30 m) away

- Base Station LCD with Auto-Night Light displays local and up to eight remote Temperature/Humidity readings either auto-cycle or manual mode from the wireless transmitters
- Easy-to-read 1.3" (33 mm) oversized digits
- Min/Max recording with reset
- Indoor Comfort icons displayed on Base Station indicating too cold, comfortable, or too hot/humid conditions
- Trend arrows indicate rising, steady or falling of the Temperature/Humidity readings
- Snow icon appears when remote temperature is 37.4°F (3°C) or below
- Transmitter LED flashes to indicate normal operation
- Transmitters can be mounted up to 98 ft (30 m) from the base station
- Operates at 433 MHz; FCC approved
- Complete with a base station with 4 AA batteries and one transmitter with 2 AA batteries. Additional remote Transmitters (RH200W-T) sold separately (up to 8 transmitters can be wirelessly connected to the base)

WIRELESS Transmitter

One Base Station can connect up to 8 Wireless Transmitters (RH200W-T) that are placed within 93 ft (30 m) away from the base. Ideal for multi-room environmental monitoring for manufacturing facilities, restaurants, offices, homes, greenhouses, and storage/ archive buildings.

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY
Temperature Indoor Base Station	23 to 122°F (-5 to 50°C)	0.1°F/°C	±1.8°F (1°C)
Temperature Remote Transmitter (RH200W-T)	-40°F to 140°F (-40°C to 60°C)	0.1°F/°C	±1.8°F (1°C)
Relative Humidity	1 to 99% RH	1% RH	±5% RH
Wireless Sensor Signal	433 MHz		
Number of Remote Transmitters	Base Station can connect up to 8 Transmitters (RH200W-T)		
RF Transmission Range	98 ft (30 m)		
Dimensions	Base: 5.1x4.4x1.1" (130x112x27.5 mm); Transmitter: 4.5x2.4x1.6" (113x61x39.5 mm)		
Weight	Base: 10.4 oz (295 g); Transmitter: 4.8 oz (136 g)		

ORDERING	
RH200W	Multi-Channel Wireless Hygro-Thermometer (one each - Base Station and Transmitter)
RH200W-T	Wireless Hygro-Thermometer Transmitter

RHM15 Mini Hygro-Thermometer Monitors

Mini-sized housing is ideal for monitoring Humidity/ Temperature levels in musical instrument cases, humidors, computer server rooms, labs, office areas, and wine cellers

Monitor Temperature and Humidity to gauge proper heat and moisture levels in an area and it also records high and low extremes during the day

- Simultaneous display of Temperature and Humidity (10 to 99% RH)
- Measures from 14 to 140°F
- Basic Accuracy: ±1.8°F/1°C and ±5% RH
- MAX/MIN with reset function
- Dims: 2x1.5x0.63" (51x38x16 mm); Wt: 0.8 oz (24 g)
- Complete with stand and LR44 battery

ORDERING	
RHM15	Mini Hygro-Thermometer Monitor (%RH and °F only)

Quick & Easy

Need a quick check on humidity levels in water restoration, HVAC system, or environmental conditions for safety & comfort? Extech's got a variety of Hygro-Thermometers ranging from simple pen style to compact design and advanced handheld models. Whatever your job demands, we've got the right meter for you to get it done quickly without compromising on quality!

RH300-CAL
33% and 75% RH Calibration Reference

Calibration kit for calibrating Humidity Meters/ Indicators

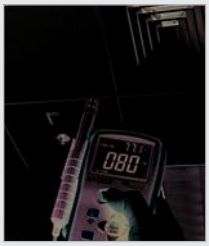
- Optional Calibration kit for calibrating Humidity Indicators (445580, RH300, 445715 and 445815)
- 33% RH and 75% RH bottles
- Bottle designed with small opening for snugged fit of the sensor
- Includes 33% RH and 75% RH calibration bottles

SPECIFICATIONS
Sensor Type
Humidity
Dew Point
Temperature (Air)
Temperature (IR)
Basic Accuracy
Max. Resolution
CE approved
Dimensions

445580 Humidity/Temperature Pen

Compact, Digital Hygro-Thermometer, ideal for field use

- Simultaneous display of Temperature (°C/°F) and Relative Humidity
- MAX/MIN and Data Hold
- Built-in self calibration utility allows for field calibrations using optional Relative Humidity calibration bottles (RH300-CAL)
- Complete with meter, pocket clip and 3 V lithium battery



RH101 Hygro-Thermometer + IR

Humidity, Air Temperature plus IR for non-contact Temperature measurements

- Large backlit LCD dual display
- Primary and Secondary displays: Primary display is user selectable for IR or Humidity; Secondary displays ambient temperature
- InfraRed thermometer has built-in laser pointer, 8:1 distance to target ratio, and fixed 0.95 emissivity
- Auto Power Off, MAX and Data Hold
- Remote humidity sensor with 39" (1 m) coiled cable measures both humidity and ambient temperature
- Over-range indication
- Complete with built-in stand, holster, Humidity/Temperature probe, 9 V battery, and carrying case

445580	RH101
Capacitance	Capacitance
10 to 90% RH	10 to 95% RH
—	—
14 to 122°F (-10 to 50°C)	-4 to 140°F (-20 to 60°C)
—	-58 to 932°F (-50 to 500°C)
±5% RH, ±1.5°	±3.5% RH; ±2% or ±4°F/2°C (IR); ±3°F/2°C (Air)
0.1%, 0.8°	0.1%, 0.1°
Yes	Yes
5.7x1.2x1" (145x30x25 mm)/2.3 oz (65 g)	5.9x2.95x1.57" (150x75x40 mm)/7 oz (200 g)

Must-Have Tools for IAQ

Regulating humidity and temperature is a critical part of ensuring indoor air quality (IAQ) in residential, commercial offices, manufacturing and healthcare. Extech psychrometers are a key tool for rapid diagnostics & IAQ problem solving.

RH300 Digital Psychrometer

Temperature Probe for differential measurements

- Simultaneous display of % RH, Temperature and Dew Point or Wet Bulb or Probe Temperature
- Calculates T1-T2 differential (Air Temperature minus External Probe Temperature) using optional probe (TP890) and T2-Dew Point
- Data Hold and Auto Power Off
- MAX/MIN readings
- Optional TP890 probe for Differential Temperature
- Complete with 2 AAA batteries; Optional 33% and 75% RH Calibration Kit (RH300-CAL)

ACCESSORIES	
RH300-CAL	33% and 75% RH Calibration Kit for RH300

SPECIFICATIONS	RH300
Sensor Type	Capacitance
Dew Point	-90.4 to 122°F (-68.0 to 49.9°C)
Wet Bulb	-6.9 to 122°F (-21.6 to 49.9°C)
Humidity (Basic Accuracy)	0 to 100% RH (±3% RH)
Mixing Ratio	—
Internal Temperature (Basic Accuracy)	-4 to 122°F /-20 to 50°C (±1.8°F/±1°C)
External Temperature (Basic Accuracy)	Thermistor: -4 to 158°F/-20 to 70°C (±1.8°F or ±1°C)
Memory/Datalogging	—
CE Approved	Yes
Dimensions/Weight	7x1.9x1" (178.5x48.4x24.7 mm)/3.3 oz (95 g)

RH350 Dual Input Psychrometer

Two Type K External Probe inputs for Superheat plus memory

- Superheat differential measurements: T1-T2, Air-T1, and T1-Dew Point
- Backlit LCD displays 3 parameters: %RH and Temperature with either Dew Point, Wet Bulb or Type K
- Stores up to 99 data points
- MAX/MIN with time stamp+AVG
- Data Hold, Auto Power Off
- Complete with 2 general purpose Type K bead wire probes, 4 AAA batteries

RH390/RH490 Precision Psychrometers

Highest 2% RH accuracy with Fast 30 second Response Time

- Dual backlit display
- Simultaneous display of:
  - Humidity/Temperature
  - Humidity/Dew Point
  - Humidity/Wet Bulb
- Fast 30 second response time
- Slim design with rubberized sides for better grip and for one-hand operation
- **Model RH490** measures Grains Per Pound (grams per kilogram) to 1120 GPP (160 g/kg)
- Complete with carrying case and 9 V battery

RHT510 Digital Psychrometer

Type K input for measuring temperature up to 2372°F (1300°C)

- Measures Temperature (Air/ Type K) and Relative Humidity
- Calculates Wet Bulb and Dew Point
- Backlit LCD to view in dimly lit areas
- Min/Max readings
- Data Hold
- Auto Power Off with disable
- Tripod mount (tripod not included)
- Complete with wrist strap, general purpose Type K bead wire Temperature probe, and 3 AAA batteries. See other optional Type K temperature probes available on p. 19, 44.

RH350	■ RH390 | ▯ RH490	RHT510
Capacitance	Capacitance	Capacitance
-90.4 to 122°F (-68.0 to 49.9°C)	-22 to 199°F (-30 to 100°C)	-13.5 to 120.0°F (-25.3 to 49.0°C)
-6.9 to 122°F (-21.6 to 49.9°C)	32 to 176°F (0 to 80°C)	22.2 to 120°F (-5.4 to 49.0°C)
0 to 100% RH (±3% RH)	0 to 100% RH (±2% RH)	10 to 95% RH (±4% RH)
—	■ No | ▯ 0 to 1120 GPP (grains per pound); 0 to 160 g/kg (grams per kilogram)	—
-4 to 122°F/-20 to 50°C (±1.8°F/±1°C)	-22 to 199°F/-30 to 100°C (±1.8°F/1°C)	32 to 122°F/0 to 50°C (±2.5°F/1.2°C)
Type K: -328 to 2498°F/-200 to 1370°C (±0.3% or 1.8°F or ±1°C)	—	Type K: -148°F to 2372°F/-100°C to 1300°C (±0.4% + 1.8°F/1°C)
99 readings	—	—
Yes	Yes	Yes
9x2.2x1.7" (230x57x44 mm)/5.3 oz (153 g)	7.8x1.7x1.3" (200x45x33 mm)/7 oz (200 g)	6x2.3x1" (153x58x25 mm)/5.6 oz (160 g)

Improve Indoor Air Quality

Accurately diagnosing problems related to barometric pressure, humidity and temperature levels is essential to effective HVAC/mechanical repair. Extech makes it easy with durable, accurate, and easy-to-use environmental meters.

HD500 Psychrometer + 30:1 InfraRed Thermometer

Combination Humidity meter, Type K thermometer, and Infrared Thermometer

- Built-in IR Thermometer for non-contact surface temperature measurements
- 30:1 distance to target ratio
- 0.95 fixed emissivity to cover 90% of surface applications
- Type K Thermometer for contact temperature measurement
- Highest 2% RH accuracy
- Large triple LCD backlit display
- USB port includes PC software
- Auto Power Off
- Complete with general purpose Type K bead wire probe, PC software, USB cable, built-in stand, case, and 9 V battery

SPECIFICATIONS	HD500
Sensor Type	Capacitance
Dew Point	-90.4 to 140°F (-68 to 60°C)
Wet Bulb	-6.88 to 140°F (-21.6 to 60°C)
Humidity (Basic Accuracy)	0 to 100% RH (±2% RH)
Barometric Pressure	—
Internal Temperature (Basic Accuracy)	-14 to 140°F/-10 to 60°C (±4°F/±2°C)
External Temperature (Basic Accuracy)	Type K: -148 to 2501°F/-100 to 1372°C (±3%)
IR Temperature (Basic Accuracy)	-58 to 932°F/-50 to 500°C (±2% or ±4°F/±2°C)
PC Interface	Yes
Memory/Datalogging	—
CE Approved	Yes
Dimensions/Weight	10x2.9x2" (255x75x50 mm)/12.2 oz (350 g)

ACCESSORIES	
UA100-240	100-240 V AC Adaptor w/4 plugs (US, EU, UK, AU)

Includes SD memory card

SDL500 Psychrometer/ Hygro-Thermometer Datalogger

Date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC

- Humidity, Temperature, Dew Point & Wet Bulb functions
- Selectable data sampling rate: 1 to 3600 seconds
- Manually store/recall up to 99 readings
- Large backlit dual LCD
- Record/Recall MIN, MAX readings
- Data Hold plus Auto Power Off with disable function
- Includes 6 x AA batteries, SD card, case and Humidity probe; Optional Universal AC Adaptor UA100-240, also see p. 19, 44 for optional Type K and J Thermocouple probes

Includes SD memory card

SD500 Hygro-Thermometer Datalogger

Records data on an SD card in Excel® format

- Dual LCD displays Relative Humidity and Temperature readings
- Datalogger date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC
- Selectable data sampling rate: 5 to 600 seconds or Auto
- Complete with 6 AAA batteries, SD card, Universal AC Adaptor, and mounting bracket

Includes SD memory card

SD700 Hygro-Thermometer Datalogger plus Barometric Pressure

Records data on an SD card in Excel® format

- Triple LCD displays Barometric Pressure, Temperature, and Relative Humidity
- Datalogger date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC
- Selectable data sampling rate: 5 to 600 seconds or Auto
- Complete with 6 AAA batteries, SD card, Universal AC Adaptor, and mounting bracket

SDL500	SD500	SD700
Capacitance	Capacitance	Capacitance
-13.5 to 120.1°F (-25.3 to 48.9°C)	—	—
-6.9 to 122°F (-21.6 to 50°C)	—	—
5% to 95% RH (±3% RH)	10 to 90% RH (±4% RH)	10 to 90% RH (±4% RH)
—	—	10 to 1100 hPa; 7.5 to 825 mmHg; 0.29 to 32.48 inHg
32 to 122°F/0 to 50°C (±1.8°F/±1°C)	32 to 122°F/0 to 50°C (±1.8°F/0.8°C)	32 to 122°F/0 to 50°C (±1.8°F/0.8°C)
Type K: -148 to 2372°F /-100 to 1300°C Type J: -148 to 2192°F/-100 to 1200°C ±(0.4% + 1.8°F/1°C)	—	—
—	—	—
—	—	—
Datalogs using SD memory card	Datalogs using SD memory card	Datalogs using SD memory card
Yes	Yes	Yes
7.2x2.9x1.9" (182x73x48 mm)/23 oz (655 g)	5.2x3.1x1.3" (132x80x32 mm)/9.9 oz (282 g)	5.2x3.1x1.3" (132x80x32 mm)/9.9 oz (282 g)

Redefining Heat Index Meters

Whether it's for the job site or for your athletes, heat stress is critical. Use Extech's Heat Index Meters to monitor safe conditions during hot and humid days.

HW30 Heat Index Stopwatch

Digital UP/DOWN timer displays Temperature, Humidity, and Heat Index

- User programmable Heat Index alarm
- Stopwatch/chronograph mode with 1/100th second resolution
- Fastest/Slowest/Average Lap recall
- 99 lap counter with 30 lap/split memory
- 10 hour countdown timer with audible beeper warning for the last 5 seconds
- Programmable alarm
- Calendar mode displays day, month, and date
- 12 or 24 hour clock operation
- Complete with 39" (1 m) lanyard and one 3V CR2032 battery

SPECIFICATIONS	HW30
Heat Index	70 to 122°F (22 to 50°C)
Temperature	14 to 122°F (-10 to 50°C)
Humidity	1 to 99% RH
Dew Point	—
Wet Bulb	—
Wet Bulb Globe Temperature - WBGT	—
Timing capacity	9 hrs, 59 mins, and 59 secs
Basic Accuracy	±5 seconds/day, ±5% RH, ±3°F (1.5°C)
CE approved	Yes
Dimensions/Weight	7.6x0.8x1.8" (192x30x45 mm)/3.8 oz (108 g)

ACCESSORIES	
407752	Software and Cable for HT30

RH25 Heat Index Psychrometer

Convenient pen style psychrometer monitors Heat Index during hot humid days

- Built-in multiparameter sensor measures Heat Index, WBGT, Humidity, Ambient Temperature, Temperature, Dew Point and Wet Bulb
- User Programmable Heat Index/WBGT alarm
- Heat Index function measures how hot it feels when Humidity is combined with temperature, air movement, and radiant heat
- Wet Bulb Globe Temperature (WBGT) function considers the effects of temperature, humidity, and direct or radiant sunlight
- Min/Max/Average
- Data Hold
- Auto Power Off with disable
- Complete with CR2032 battery)

HT30 Heat Stress WBGT Meter

Wet Bulb Globe Temperature (WBGT) considers the effects of temperature, humidity and direct or radiant sunlight

- Heat Stress Index measures how hot it feels when humidity is combined with temperature, air movement, and radiant heat
- Black Globe Temperature (TG) monitors the effects of direct solar radiation on an exposed surface
- In/Out Function displays the WGBT value with or without direct sun exposure
- Auto Power Off with disable
- Built-in RS-232 interface with optional PC software
- Complete with two AAA batteries

HT200 Heat Stress WBGT Meter

Accurately determine the Heat Stress level

- Heat Stress Index measures how hot it feels when humidity is combined with temperature, air movement, and radiant heat
- Black Globe Temperature (TG) monitors the effects of direct solar radiation on an exposed surface
- In/Out function displays the WBGT value with or without direct sun exposure
- WBGT high/low alarm settings
- Memory stores 50 readings
- Backlit LCD
- Min/Max, Data Hold, and Auto Power Off with disable
- Complete with 9 V battery and hard case

RH25	HT30	HT200
-50.8 to 401°F (-46 to 205°C)	—	
-4 to 122°F (-20 to 50°C)	Black Globe : 32 to 176°F (0 to 80°C)	TG-Black Globe: 32 to 176°F (0 to 80°C); TA-Air : 32 to 122°F (0 to 50°C)
0 to 99.9%RH	0 to 100% RH	1 to 99%RH
-108.4 to 122°F (-78 to 50°C)	—	-31.5 to 120.1°F (-35.3 to 48.9°C)
-4 to 122°F (-15 to 50°C)		-6.9 to 122°F (-21.6 to 50°C)
-20.2 to 130°F (-29 to 54.5°C)	32 to 122°F (0 to 50°C)	w/o sunlight: 32 to 138°F (0 to 59°C); w/sunlight: 32 to 132°F (0 to 56°C)
—	—	—
±3% RH, ±1°F/0.6°C	±3% RH, ±1.8°F/1.0°C (TA), ±4°F/2°C (TG)	±3% RH, ±1.8°F/1°C (WBGT w/o sun); ±2.7°F/1.5°C (w/sun) ±1.5°F/0.8°C (TA), ±1.1°F/0.6°C (TG)
Yes	Yes	Yes
5.5x1.4x0.7" (140x35x18 mm)/1.8 oz (50 g)	10x1.9x1.1" (254x49x30 mm)/4.8 oz (136 g) Ball: 1.6" (40 mm) dia, 1.4" (35 mm) high	Meter: 11.8x2.8x2" (300x70x50 mm) Ball: 2" (50 mm) diameter/7.8 oz (220 g)

Find Moisture Problems Fast

Extech delivers a wide moisture meter selection for a variety of industries measuring moisture in wood and building materials. These meters are used by woodworking professionals, disaster restoration, and water damage professionals.

MO50 Compact Moisture Meter

Easy-to-operate with display icons that indicate the levels of moisture content plus audible alert feature

- Displays moisture level in wood and building materials such as wall board, sheet rock, cardboard, plaster, concrete, and mortar
- Audible Alert — Tone rate beeps faster as the moisture level increases
- Icons display low, medium and high levels of moisture content
- Replaceable threaded measurement electrode pins
- Easy-to-use, compact-sized design
- Data Hold freezes reading on display
- Built-in battery level check and measurement verification test
- Auto Power Off conserves battery power
- Complete with replacement pins, protective cap, and 9 V battery

ACCESSORIES	
MO200-PINS	Replacement pins for MO210 & MO230 (50 pins)

SPECIFICATIONS	MO50
Sensor Type	Contact Pins
Moisture Content	5 to 50% (Wood); 1.5 to 33% (Materials)
Max. Resolution	0.1%
Temperature	—
Relative Humidity	—
CE approved	Yes
Dimensions	6.7x2.6x1.2" (170x65x30 mm)
Weight	4.2 oz (120 g) without battery

MO210 Pocket Size Moisture Detector

Large dual graphical LCD displays moisture in wood and other building materials

- 2-in-1 Digital LCD readout and analog bargraph
- Measures Wood Moisture and Building Material Moisture
- Use on wall board, sheet rock, cardboard, plaster, concrete, and mortar
- Self-contained, pocket sized meter with belt clip
- Replaceable threaded measurement electrode pins
- Impact proof housing
- Auto Power Off conserves battery energy
- Built-in battery check and measurement verification test
- Complete with protective cap, replacement pins, and three CR-2032 button batteries

MO230 Pocket Moisture/Hygro-Thermometer

Large dual graphical LCD displays moisture in wood and other building materials plus Air Temperature and Relative Humidity

- Simultaneous digital readout of moisture content plus ambient temperature or humidity with analog bargraph display of moisture, Max moisture values, and programmable wet/dry indication
- Use on wood, paper, wall board, sheet rock, cardboard, plaster, concrete, and mortar
- Memory contains 3 wood groups and 4 building material groups with calibrations for approximately 150 species of wood and 19 building material types
- Index Mode with programmable high and low values can be used to quickly locate moisture with comparative measurement
- Replaceable threaded measurement electrode pins
- Impact proof housing
- Auto Power Off conserves battery energy
- Built-in battery check and measurement verification test
- Complete with protective cap, replacement pins, and three CR-2032 button batteries

Includes 8" (20 cm) stainless steel moisture probe

MO750 Soil Moisture Meter

Heavy duty 8" (20 cm) stainless-steel moisture probe measures moisture content in soil

- Soil moisture content measurement from 0 to 50%
- Min/Max records minimum and maximum moisture readings
- Data hold to freeze reading on display
- Water resistant housing
- Complete with moisture probe, 4 x AAA batteries, and sensor cap

MO210	MO230	MO750
Contact Pins	Contact Pins	Integrated Contact Probe
6 to 44% (Wood); 0.2 to 2.0% (Materials)	0 to 75% (Wood); 0.1 to 24% (Materials)	Soil moisture content measurement from 0 to 50%
1% (Wood) / 0.1% (Materials)	1% (Wood) / 0.1% (Materials)	0.10%
—	Air: -40 to 158°F (-40 to 70°C)	—
—	0 to 100% RH	—
Yes	Yes	Yes
5.1x1.6x1.0" (130x40x25 mm)	6.25x2.5x1.2" (159x63.5x30.5 mm)	14.7x1.6x1.6" (374x40x40 mm)
3.5 oz (100 g)	3.5 oz (100 g)	9.4 oz (267 g)

Locate Moisture Efficiently and Non-destructively

When you need to scan an area for potential moisture problems without damaging the surface, Extech offers integrated flat surface pinless sensor or ball-shaped sensor that can glide through a large area in a short time without making a mark. It is easy to measure into corners and around baseboards.

KITS	
MO280-KW	Water Damage Restoration Kit Includes MO280 Pinless Moisture Meter, MO210 Pocket Moisture Meter, RH490 Precision Hygro-Thermometer, storage case

SPECIFICATIONS
Pinless Moisture (relative)
Max Resolution
Measurement Depth
CE approved
Dimensions/Weight

MO280 Pinless Moisture Meter

Non-invasive moisture content of building materials and wood

- Quickly indicates the moisture content of materials
- Select from 10 wood types and measurement ranges
- LCD displays % moisture of wood or material being tested
- Measurement depth to 0.8" (20 mm) below the surface
- Automatic internal test and calibration
- Electro-magnetic testing technology
- Low battery indication
- Complete with 9 V battery and pouch

MO57 Pinless Moisture Meter

Non-invasive moisture measurement depth to <4" (100 mm)

- Displays moisture level in wood and building materials such as wall board, sheet rock, tiles, cardboard, plaster, concrete, and mortar
- Audible Alert — Tone rate beeps faster as the moisture level increases
- Icons display low, medium and high levels of moisture content
- Easy-to-use, compact-sized design
- Data Hold freezes reading on display
- Built-in battery level check and measurement verification test
- Auto Power Off conserves battery power
- Complete with 9 V battery and wrist strap

MO257 Pinless Moisture Meter

Fast response pinless moisture readings on tiles, building materials and wood from depth of 0.8" to 1.6"

- Relative pinless moisture reading for non-invasive measurement
- Multifunction backlit triple LCD display
- Pinless measurement depth from 0.8" (20 mm) to 1.6" (40 mm) below the surface
- High frequency sensing technology
- Automatic Data Hold
- Two adjustable alarm levels with audible beeper and visual (flashing “RISK” or “WET”) indicators
- Automatic calibration (in dry air) when meter is powered on
- Low battery indication
- Auto Power Off
- Complete with 3 AA batteries and pouch

MO280	MO57	MO257
0 to 99% (check Group No. of the Wood/ Building Materials to determine the range)	0.1 to 99.9% (Wood/Building Materials)	0.0 to 100
0.1%	0.1%	0.1
<0.8" (20 mm)	<4" (100 mm)	0.8" to 1.6" (20 to 40 mm)
Yes	Yes	Yes
7.6x0.8x1.8" (192x30x45 mm)/ 3.8 oz (108 g)	8.3x2.8x1.3" (210x70x33 mm) / 5.5 oz (155 g) battery not included	9.25x2.5x1.1" (235x63x28 mm); 7.7 oz (218 g)

One Meter with Flexibility Measuring Moisture

Whether you need to measure moisture level using direct penetration pin-type method or detect moisture scanning a surface with non-invasive pinless sensor, Extech's got the right Moisture Meter for you. The combination of both pin and pinless sensor technology gives you the flexibility for your moisture measurements. Advanced models also offer remote specialty moisture probes to access hard to reach areas.

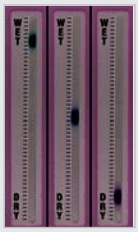
M055 Combination Pin/ Pinless Moisture Meter

Easy-to-operate with display icons that indicate the levels of moisture content plus audible alert feature

- Displays moisture level in wood and building materials such as wall board, sheet rock, cardboard, plaster, concrete, and mortar
- Audible Alert — Tone rate beeps faster as the moisture level increases
- Icons display low, medium and high levels of moisture content
- Replaceable threaded measurement electrode pins
- Easy-to-use, compact-sized design
- Data Hold freezes reading on display
- Low battery indicator
- Auto Power Off conserves battery power
- Complete with two pins (installed on meter), protective cap, and 9 V battery; order for replacement pins

KITS	
MO290-RK	Water Restoration Contractor Kit Includes: MO290 Pinless Moisture Psychrometer + IR and RHT10/RHT10-SW Humidity/ Temperature USB Datalogger. Probes: MO290-P, MO290-HP, MO290-EP, MO290-BP. Supplied in a rugged heavy duty hard carrying case
ACCESSORIES	
MO200-PINS	50 Replacement pins
Below Probes for MO290	
MO290-P	Replacement Moisture pin probe with 30" (76.2 cm) cable & RJ45 Connector
MO290-BP	Moisture Baseboard Probe (Dual fixed flat pins with 4.1"/10.5 cm pin length) with 30" (76.2 cm) cable
MO290-EP	Extension Probe with 30" (76.2 cm) cable and 4 pins
MO290-PINS-EP	12 Replacement pins (6) 3.5"/8.9 cm & (6) 6.5"/16.5 cm pin depth) and 2 lock nuts for MO290-EP probe
MO290-EXT	11.8" (30 cm) Extenders (set of 2) for MO290-EP probe
MO290-HP	Hammer Probe includes 4 pins — 1.6" (4 cm) pin depth
MO290-PINS-HP	20 Replacement pins — 1.6" (4 cm) pin depth, 2 lock nuts for MO290-HP probe

SPECIFICATIONS	M055
Pinless Moisture	0 to 99%
Pin-type Moisture (remote probe)	5 to 50% (Wood); 1.5 to 33% (Materials)
Max Resolution	0.1%
CE approved	Yes
Dimensions/Weight	6.7x2.6x1.2" (170x65x30 mm) /4.2 oz (120 g) w/o battery



Tri-color LED bargraph

MO260 Combination Pin/Pinless Moisture Meter

Monitor moisture in wood and other building materials with virtually no surface damage

- %WME (wood moisture equivalent) pin moisture reading
- Relative pinless moisture reading for non-invasive measurement
- Digital LCD readout with backlighting feature and tri-color LED bargraph
- Quickly indicates the moisture content of materials
- Pinless measurement depth to 0.75" (19 mm) below the surface
- Electro-magnetic sensing technology
- Built-in calibration check
- Replaceable pins
- Low battery indication
- Cap protects pins during storage and can be snapped on to the side of the housing during use
- Complete with two pins (installed on meter), 9 V battery, protective cap, and case; order MO200-PINS for replacement pins

MO265 Combination Pin/Pinless Moisture Meter with Remote Probe

Measure moisture in wood or other building materials with pinless or pin type technology

- Remote pin probe included to measure moisture in difficult to access areas
- %WME (wood moisture equivalent) pin moisture reading
- Relative pinless moisture reading for non-invasive measurement
- Digital LCD readout with backlighting feature and tri-color LED bargraph
- Quickly indicates the moisture content of materials
- Pinless measurement depth to 0.75" (19 mm) below the surface
- Electro-magnetic sensing technology
- Built-in calibration check
- Low battery indication
- Storage cap protects pins
- Complete with two pins (installed on meter), remote pin probe (MO-P1), 9 V battery, protective cap, and case; order MO200-PINS for replacement pins

See Accessories for optional specialty moisture probes to expand your meter's measurement capabilities!

MO290 Pinless Moisture Psychrometer + IR Thermometer

Multi-parameter Moisture meter with built-in IR Thermometer

- Measure moisture content of materials/ wood types with Pinless technology without damaging the surface; Use remote Pin-type probe for contact moisture readings
- Simultaneously displays Moisture and Air Temperature, IR Temperature, or Humidity with automatic backlight feature
- Pinless measurement depth to 0.75" (19 mm) below the surface
- Built-in Humidity/Temperature probe measures Relative Humidity and Air Temperature and calculates Grains Per Pound (GPP)/(g/kg), Dew Point (DP), and Vapor Pressure
- Programmable high/low Moisture and Humidity alarms
- Non-contact IR Thermometer with 8:1 field of view and 0.95 fixed emissivity
- Automatic calculation of differential Temperature (IR - DP) for condensation point
- Min/Max function and Data Hold feature
- Auto Power Off to save battery life
- Low battery indication
- Complete with MO290-P pin moisture probe (3 ft/ 0.9 m cable length), 9 V battery, and hard carrying case

MO260	MO265	MO290
0 to 99 (relative)	0 to 99 (relative)	6 to 99.9 (Relative)
6.0 to 94.8% WME	6.0 to 94.8% WME	0 to 99.9%
0.1/0.1%	0.1/0.1%	0.1, 0.1°F/°C
Yes	Yes	Yes
8x2.3x1.7" (203x58.4x43.2 mm)/7.2 oz (204 g)	8x2.3x1.7" (203x58.4x43.2 mm)/7.2 oz (204 g)	6.5x2.8x1.5" (165x70x38 mm)/7.4 oz (210 g)

Compact & Fully Loaded

Pocket-sized meters that are fully loaded with functions ranging from 3-in-1 to 7-in-1 models that include Air Velocity, Temperature, and Humidity measurements to calculating Air Volume, Wet Bulb, and Dew Point. Affordable, light weight, and easy-to-use!

45118 Mini Thermo-Anemometer

3-in-1 meter

- Measure air velocity and temperature, and calculate windchill
- Adjustable averaging function of 5, 10, or 13 second intervals
- Housing extends to 9" (229 mm)
- Tripod mount (tripod not included)
- Data Hold with Auto Power Off
- Replaceable low friction vane
- Water resistant housing floats
- Complete with CR2032 lithium battery and 43" (1.09 m) lanyard

ACCESSORIES	
45116	Mini Impeller (2 pk) for 45118
TP870	Type K Bead Wire Temperature Probe (-40 to 482°F/-40 to 250°C)

See p. 20 and 44 for additional temperature probes

SPECIFICATIONS	45118
ft/min (res.)	100 to 5500 ft/min (20)
m/s (res.)	0.5 to 28 m/s (0.1)
km/h (res.)	1.8 to 100.6 km/h (0.7)
MPH (res.)	1.1 to 62.5 MPH (0.2)
knots (res.)	1.0 to 54.3 knots (0.3)
Beaufort Force (res.)	1 to 17 BF (1)
Air Volume CFM/CMM	—
Temperature	0 to 122˚F/ -18 to 50˚C (0.1˚)
Relative Humidity (res.)	—
Wet Bulb	—
Dew Point	—
Basic Accuracy	
Airflow	±3% of reading
Temperature/Relative Humidity	±1.8˚F, ±1˚C
CE approved	Yes
Dimensions/Weight	5.25x2.75x0.75" (133x70x19 mm)/3 oz (95 g)
	Vane: ~1" (26 mm) D

45158 Mini Thermo-Anemometer

5-in 1 meter

- Measure air velocity, temperature, and relative humidity, and calculate windchill and dew point
- Adjustable averaging function of 5, 10, or 13 second intervals
- Housing extends to 9" (229 mm)
- Tripod mount (tripod not included)
- Data Hold with Auto Power Off
- Replaceable low friction vane
- Water resistant housing floats
- Complete with CR2032 lithium battery and 43" (1.09 m) lanyard

45168CP Mini Thermo-Anemometer with Built-in Compass

7-in-1 meter

- Built-in Compass provides wind direction and 360° readings
- Delta T (Air Temperature - DP)
- Max function
- Housing extends to 9" (229 mm)
- Auto Power Off with disable
- Water resistant housing floats and drop-tested to 6 feet
- Tripod mount (tripod not included)
- Complete with CR2032 lithium battery and lanyard

45158	45168CP	SPECIFICATIONS
100 to 5500 ft/min (20)	60 to 3937 ft/min (2)	ft/min (res.)
0.5 to 28 m/s (0.1)	1.1 to 20 m/s (0.1)	m/s (res.)
1.8 to 100.6 km/h (0.7)	0.8 to 72.0 km/h (0.1)	km/h (res.)
1.1 to 62.5 MPH (0.2)	0.5 to 44.7 MPH (0.1)	MPH (res.)
1.0 to 54.3 knots (0.3)	0.4 to 38.8 knots (0.1)	knots (res.)
1 to 17 BF (1)	1 to 8 BF (1)	Beaufort Force (res.)
—	—	Air Volume CFM/CMM
0 to 122˚F/-18 to 50˚C (0.1˚)	Air: 5 to 122°F/-15 to 50°C (0.1°) Windchill: -4 to 122°F (-20 to 50°C)	Temperature
10% to 95% (1%)	0.1% to 99.9% (0.1%)	Relative Humidity (res.)
—	23°F to 122°F (-5 to 50°C)	Wet Bulb
32 to 122°F (0 to 50°C)	-4°F to 122°F (-20 to 50°C)	Dew Point
		Basic Accuracy
±3% of reading	±3% FS	Airflow
±1.8˚F, ±1˚C/±5% RH	±1.8˚F, ±1˚C ±3% RH	Temperature/Relative Humidity
Yes	Yes	CE approved
5.25x2.75x0.75" (133x70x19 mm)/3 oz (95 g)	5.51x1.77x0.98" (140x45x25 mm)/3 oz (95 g)	Dimensions/Weight
Vane: ~1" (26 mm) D	Vane: ~1" (25.4 mm) D	

AN100 / AN200 CFM/CMM Thermo-Anemometer

AN100: Large backlit display of Airflow or Air Velocity

AN200: Built-in Infrared Thermometer for Non-contact Temperature measurements

AN200 only

- IR Thermometer quickly takes non-contact temperature measurements up to 932°F (500°C) with 8:1 distance-to-spot ratio and laser pointer

Both models

- Simultaneous display of Ambient Temperature and Air Flow or Air Velocity
- Up to 8 easy to set area dimensions stored in internal memory (ft² or m²)
- 20 point AVG for Air Flow
- Low friction 2.83" D (72 mm) ball bearing vane wheel
- Data Hold, MIN/MAX, Auto Power Off
- Complete with vane sensor on 3.9 ft (120 cm) cable, 9 V battery, protective rubber holster, and case

Versatile and Durable Tools For HVAC/R

Extech equips HVAC/R professionals with rugged, accurate tools for measuring airflow, air velocity and air/surface temperatures. Extech's thermo-anemometers are available with vane/propeller probes as well as telescoping, hot-wire probes for small openings or hard-to-reach areas.

SPECIFICATIONS	AN100 / AN200
Air Velocity (Max Res.)	
ft/min	80 to 5900 ft/min (1)
m/sec	0.4 to 30.00 m/sec (0.01)
km/h	1.4 to 108.0 km/h (0.1)
MPH	0.9 to 67.0 MPH (0.1)
knots	0.8 to 58.0 knots (0.1)
Temperature (Max Res.)	14 to 140°F/ -10 to 60°C (0.1°)
Temperature (IR)	— / -58 to 500°F/-50 to 260°C (0.1°/1°)
Air Flow (CFM = ft³/min)	0 to 9999 CFM (1)
Air Flow (CMM = m³/min)	0 to 9999 CMM (1)
Basic Accuracy	±3%rdg; ±2°F (±1°C)
PC Interface	—
CE approved	Yes
Dimensions/Weight	7x2.9x1.3" (178x74x33 mm)/1.6 lbs (700 g)

ACCESSORIES	
407001-PRO	Data Acquisition Software and USB Cable

407113 High Temperature CFM Metal Vane Anemometer

Withstands temperatures to 175°F (80°C) and airspeed to 6890 ft/min

- Display Air Flow (CFM) or Air Velocity plus Temperature
- Air Flow displayed in 3 modes: Instantaneous value, Up to 20 point average, or 2/3 flow value
- Record and Recall MIN/MAX
- Data Hold plus Auto Power Off
- Built-in PC interface
- Optional Data Acquisition software 407001-PRO - see details on p. 95
- Includes metal vane sensor with 3.9 ft (120 cm) cable, 9 V battery, holster with stand, and hard case

407119 Hot Wire CFM/ CMM Anemometer

Accurately measures Air Flow (CFM/ CMM) or Air velocity plus Temperature

- Air velocity measurements as low as 40 ft/min
- Telescoping probe extends up to 3 ft (940 mm) long
- Measures air volume in CFM (ft^3/min) and CMM (m^3/min) plus Temperature simultaneously
- Air Flow displayed in 2 modes as an instantaneous value or up to 20 point average
- Record and Recall MIN/MAX
- Data Hold plus Auto power off
- Optional Data Acquisition software 407001-PRO - see details on p. 95
- Complete with telescoping probe with 5.5 ft (167.6 cm) cable, and four AA batteries

407123 Heavy Duty Hot Wire Thermo-Anemometer

Telescoping probe designed to fit into small openings, measures airflow down to 40ft/min (0.2m/s)

- Telescoping probe is ideal for measuring in HVAC ducts and other small vents; extends up to 7ft (2.1m) maximum length with cable
- Extra large 1.4" (36mm) dual LCD display
- MAX/MIN, Data Hold
- Complete with telescoping probe with cable, six AAA batteries and protective holster. NOTE: AC Adaptor not available for this model.

407113	407119	407123
100 to 6890 ft/min (1)	40 to 3346 ft/min (1)	40 to 3940ft/min (1)
0.5 to 35 m/sec (0.1)	0.2 to 17 m/sec (0.1)	0.2 to 20 m/sec (0.1)
1.8 to 126.0 km/h (0.1)	0.7 to 61.2 km/h (0.1)	0.7 to 72 km/h (0.1)
1.1 to 78.3 MPH (0.1)	0.9 to 38.0 MPH (0.1)	0.5 to 45 MPH (0.1)
1.0 to 68.0 knots (0.1)	0.4 to 33.0 knots (0.1)	1.0 to 38.8 knots (0.1)
32 to 175°F (0.1°)/0 to 80°C (0.1°)	32 to 122°F (0.1°)/ 0 to 50°C (0.1°)	32 to 122°F (0.1°)/ 0 to 50°C (0.1°)
—	—	—
0 to 999,900 CFM (0.001)	0 to 1,271,200 CFM (0.001)	
0 to 999,900 CMM (0.001)	0 to 36,000 CFM (0.001)	
±2% rdg; ±1.5°F (±0.8°C)	±2%rdg; ±1.5°F (±0.8°C)	
Optional 407001-PRO Software	Optional 407001-PRO Software	
Yes	Yes	Yes
7x2.9x1.3" (178x74x33 mm)/1.35 lbs (612 g)	7x2.9x1.3" (178x74x32 mm)/1.1 lbs (482 g)	7 x 2.9 x 1.3" (178 x 74 x 33mm)/1.1 lbs (482 g)

SDL300/SDL310/SDL350 Thermo-Anemometer/Dataloggers

SDL310

SDL350

SDL300

All SDL models have built-in SD slot and includes SD memory card

Three models to choose from with different sensor size and design to either withstand high temperature environment or measure low level air velocity

- Datalogger date/time stamps and stores readings on the included SD card in Excel® format for easy transfer to a PC
- Selectable data sampling rate: 1 to 3600 seconds (1 hour)
- Manually store/recall up to 99 readings
- Type K/J Thermocouple input for high temperature measurements
- Large (9999 count) LCD displays Air Velocity and Temperature simultaneously
- Record/Recall MIN, MAX readings
- Data Hold plus Auto Power Off with disable function
- Optional 407001-PRO software with USB cable allows user to live stream data from meter to a PC based computer/laptop while storing the collected data for later use in generating a graph or report. See p. 95 for details.
- Complete with 6 x AA batteries, SD card, sensor with 3.9 ft (120 cm) cable, and hard carrying case; (See p. 19 and 44 for optional Type K and J Thermocouple probes)

SDL300 Metal Vane Additional Functions

- 2% velocity accuracy via low friction ball bearing vane wheel on 39" (1 m) cable
- Metal Vane withstands temperatures to 158°F (70°C) and air velocity to 6900 ft/min

SDL310 Vane Additional Functions

- 2% velocity accuracy via low friction ball bearing vane wheel on 39" (1 m) cable
- Measures Air Temperature to 122°F (50°C) and air velocity to 4930 ft/min

SDL350 Hot Wire Additional Functions

- Air Velocity meter with telescoping probe designed to fit into HVAC ducts and other small openings and can read down to 40 ft/min
- Probe extends up to 7.05 ft (215 cm) maximum length with cable

SPECIFICATIONS	SDL300	SDL310	SDL350
ft/min	60 to 6900 ft/min	80 to 4930 ft/min	40 to 3940 ft/min
m/sec	0.3 to 35 m/s	0.4 to 25 m/s	0.2 to 25 m/s
km/h	1.0 to 126.0 km/h	1.4 to 90.0 km/h	0.7 to 72 km/h
MPH	0.7 to 78.2 MPH	0.9 to 55.9 MPH	0.5 to 45 MPH
knots	0.6 to 68 knots	0.8 to 48.6 knots	1 to 31 knots
Air Flow (CFM = ft³/min)	—	—	0 to 1,907,000 CFM
Air Flow (CMM = m³/min)	—	—	0 to 54,000 CMM
Basic Accuracy	2% rdg	2% rdg	5% rdg
Temperature (air)	32 to 158°F (0 to 70°C)	32 to 122°F (0 to 50°C)	32 to 122°F (0 to 50°C)
Common Features			
Temperature (Type J/K)	J: -148 to 2192°F (-100 to 1200°C)/K: -148 to 2372°F (-100 to 1300°C)		
Datalogging	Store readings on SD memory card (included)		
Dimensions/Weight	7.2x2.9x1.9" (182X73X48 mm)/17.2 oz (487 g)		

ORDERING	
SDL300	Metal Vane Thermo-Anemometer/Datalogger
SDL310	Vane Thermo-Anemometer/Datalogger
SDL350	Hot Wire CFM/CMM Thermo-Anemometer/Datalogger
UA100-240	100-240 V AC Adaptor with 4 plugs (US, EU, UK, AU)
407001-PRO	Data Acquisition Software and USB Cable (see p. 95 for details)

Vane Versus Hot Wire

Which sensor type should you choose? For many technicians, it is ultimately a matter of preference but there are some distinguishing factors to keep in mind. Vane anemometers are very useful for fast, accurate measurements of air velocity. The ultra compact size of a hot wire anemometer probe makes it easy to access small openings such as louvered vents. Telescoping hot wire probes are also useful for reaching high locations.

AN300/AN310 Large Vane CFM/CMM Thermo-Anemometers

4" (10 cm) large vane allows for more precise readings on larger size ducts; choose models that also measure Air Volume and Humidity

- Fast responding sensors measure Air Velocity and Air Flow
- Built-in thermistor for air temperature
- Multipoint and timed average calculations
- Min/Max, Data Hold, and Auto Power Off
- Optional Air Flow Cone Kit (AN300-C) allows HVAC technicians to be freed from the hassle of calculating dimensions and allow for quick and easy airflow measurments for these common duct sizes; Adaptor size: Round 8.26" (210 mm) and Square 13.6" (346 mm)
- Complete with four AAA batteries and hard case

AN310 Additional Functions:

- Measures Relative Humidity and calculates Wet Bulb and Dew Point

SPECIFICATIONS	AN300	AN310
m/s	0.2 to 30 m/s	0.2 to 30 m/s
ft/min	40 to 5900 ft/min	40 to 5900 ft/min
Basic Accuracy	±1.5%	±1.5%
CFM/CMM	0 to 99,999	0 to 99,999
Temperature	-4 to 140°F (-20 to 60°C)	-4 to 140°F (-20 to 60°C)
Basic Accuracy	±1.1°F (0.6°C)	±1.1°F (0.6°C)
Humidity	—	0.1 to 99.9% RH
Basic Accuracy	—	±3% RH
Wet Bulb	—	-4 to 140°F (-20 to 60°C)
Dew Point	—	23 to 140°F (-5 to 60°C)
Dimensions/ Weight	10.6x4.2x2" (269x106x51 mm)/7 oz (200 g)	

ORDERING	
AN300	Large Vane CFM/CMM Thermo–Anemometer
AN310	Large Vane CFM/CMM Anemometer/Psychrometer
AN300-C	Airflow Cone and Funnel Adapters

AN340 CMM/CFM Anemometer/Psychrometer Datalogger

Telescoping probe with 18 mm diameter mini vane sensor easily fits into air vents and can extend length of probe to 3.3 ft (1 m) long

- Measures Air Velocity, Air Flow, Air Temperature, Humidity, Dew Point and Wet Bulb with built-in Automatic Temperature Compensation (ATC)
- Manually store/recall up to 99 readings and automatically datalog up to 12,000 readings (2000 readings for each parameter) with 12/24 hour time and date stamp
- Select data sampling rate from 1 s to 4 hr: 59 min: 59 s
- Min/Max/Avg, Data hold, and Auto Power Off with disable
- Built-in PC interface
- Complete with external mini vane probe, Windows® compatible software, USB cable, 6 AAA batteries, and hard carrying case

SPECIFICATIONS		
m/s	0.5 to 20 m/s	±3%
ft/min	100 to 3940 ft/min	±3%
Temperature	-4 to 140°F (-20 to 60°C)	±1.1°F (0.6°C)
Humidity	0.1 to 99.9% RH	±3% RH
Wet Bulb	-4 to 158°F (-20 to 70°C)	
Dew Point	-4 to 140°F (-20 to 60°C)	
CFM/CMM	0 to 99,999	

ORDERING	
AN340	Mini Vane CMM/CFM Anemometer/Psychrometer Datalogger

Go Beyond Airflow Measurements

Extech's compact multi-function environmental meters couple all-in-one versatility with accurate diagnostics. Extech helps you get results with fewer tools.

ACCESSORIES	
UA100-240	100-240V AC Adaptor w/ 4 plugs (US, EU, UK, AU)
407001-PRO	Data Acquisition Software and USB cable (see p. 95 for details)
TP870	Type K Bead Wire Temperature Probe (-40 to 482°F/-40 to 250°C)
TP873	Type K Bead Wire Temperature Probe (-22 to 572°F/-30 to 300°C)
TP875	Type K Bead Wire High Temperature Probe (-58 to 1000°F/-58 to 538°C)

See p. 20 and 44 for additional temperature probes

SPECIFICATIONS
ft/min (res.)
m/s (res.)
km/h (res.)
MPH (res.)
knots (res.)
Air Volume CFM/CMM
Temperature
Relative Humidity (res.)
Heat Index
Wet Bulb
Dew Point
Wind chill
Light Level
Sound Level (res.) - A weighting
Basic Accuracy
Airflow
Temperature/Relative Humidity
Light/Sound
CE approved
Dimensions/Weight

EN510
Environmental Meter

10-in-1 meter

- Auto-rotating display
- Measures Air Velocity, Air Flow, Temperature (Air/Type K), Humidity, Wet Bulb, Dew Point, Heat Index, Wind Chill, and Light
- Replaceable low friction ball bearing mini vane wheel to retain high accuracy
- Measure light levels in Foot-Candle (Fc) or Lux units using a precision photo diode with cosine and color correction filter
- Backlit display to view in dimly lit areas
- Data Hold and Min/Max functions
- Auto Power Off with disable
- Tripod mount (tripod not included)
- Complete with wrist strap, general purpose Type K bead wire probe, and three AAA batteries

45170
Environmental Meter

4-in-1 meter

- Auto-rotating display
- Measures Air Velocity, Temperature (Air/Type K), Humidity, and Light
- Low friction vane wheel
- Capacitance humidity sensor
- Type K input (Probe sold separately - see p. 19 and 44)
- Measure light levels in Foot-Candle (Fc) or Lux units using a precision photo diode with cosine and color correction filter
- MAX/MIN and Data hold
- Complete with wrist strap and 9 V battery

EN300
Environmental Meter

5-in-1 Meter & PC interface

- Auto-rotating display
- Low friction vane wheel
- Capacitance humidity sensor
- Thermistor for ambient temperature and Type K input (Probe sold separately - see p. 19 and 44)
- Measure light levels in Foot-Candle (Fc) or Lux units using a precision photo diode with cosine and color correction filter
- Sound Level measurement meets IEC 61672 Class 2
- MAX/MIN and Data hold
- Complete with 6 AAA batteries; Optional AC adaptor UA100-240 and software 407001-PRO (see p. 95 for software details)

EN510	45170	EN300
80 to 3937 ft/min (1)	80 to 5910 ft/min (1)	80 to 5910 ft/min (1)
0.4 to 20 m/s (0.1)	0.4 to 30 m/s (0.1)	0.4 to 3 m/s 0 (0.1)
1.4 to 72 km/h (0.1)	1.4 to 108.0 km/h (0.1)	1.4 to 108.0 km/h (0.1)
0.9 to 44.7 MPH (0.1)	0.9 to 67.0 MPH (0.1)	0.9 to 67.0 MPH (0.1)
0.8 to 38.8 knots (0.1)	0.8 to 58.3 knots (0.1)	0.8 to 58.3 knots (0.1)
0.847 to 1,271,300 CFM/0.024 to 36,000 CMM (0.001)	—	—
Air: 32 to 122°F/0 to 50°C (0.1°) Type K: -148°F to 2372°F/-100°C to 1300°C (0.1°)	Thermistor: 32 to 122°F/0 to 50°C (0.1°) Type K: -148°F to 2372°F/-100°C to 1300°C (0.1°)	Air: 32 to 122°F/0 to 50°C (0.1°) Type K: -148 to 2372°F/-100 to 1300°C (0.1°)
10 to 95% RH (0.1%)	10 to 95% RH (0.1%)	10 to 95% RH (0.1%)
32 to 212°F/0 to 100°C (0.1°)	—	—
22.2 to 120°F/-5.4 to 49.0°C (0.1°)	—	—
-13.5 to 120.0°F/-25.3 to 49.0°C (0.1°)	—	—
15 to 112°F/-9.4 to 44.2°C (0.1°)		—
0 to 1860 Fc/0 to 20,000 Lux (0.1)	0 to 1860 Fc (0.1)/0 to 20,000 Lux (1)	0 to 1860 Fc (0.1)/0 to 20,000 Lux (1)
—	—	35 to 130 dB (0.1 dB)
±3% FS	±3% FS	±3% FS
Air: ±2.5°F (±1.2°C), Type K: ±(0.4% + 1.8°F/1°C)/ ±0.4% RH	Air: ±2.5°F (±1.2°C), Type K: ±(1%+2°F/1°C) of rdg/ ±4% RH	Air: ±2.5°F (±1.2°C), Type K: ±(1%+2°F/1°C) of rdg/ ±4% RH
±5%	Light: ±5% of reading	Light: ±5% of reading/Sound: ±1.4 dB
Yes	Yes	Yes
6.0x2.3x1" (153x58x25 mm)/5.6 oz (160 g)	6.1x2.4x1.3" (156x60x33 mm)/5 oz (160 g)	9.8x2.8x1.3" (248x70x34 mm)/11.8 oz (335 g)
Vane: ~1" (27 mm) D	Vane: 1.2" (30.5 mm) D	Vane: 1.2" (31 mm) D

VPC300 Certified Video Particle Counter with built-in Camera

Use the included Windows® compatible software to generate reports with videos, photos, and data points.

Unique built-in camera for capturing videos and photos that are stored onto internal memory or a microSD card (not included)

- Simultaneously measure and display 6 channels of particle sizes (down to 0.3 µm), Air Temperature, Humidity, Dew Point and Wet Bulb
- 2.8" TFT Color LCD display
- Built-in 320x240-pixel camera takes videos (3 GP) and photo images (JPEG) and records them in internal 74 MB memory
- Internal memory stores 5000 records (date, time, counts, humidity, temperature, sample volumes, and location label) and 20 minutes of video
- Selectable sample time, count data, and programmable delay
- MAX, MIN, DIF, AVG record, Date/time setup controls
- Auto Power Off
- Language selection: English, French, German, Spanish
- Tripod mount for continuous recording
- Mini-USB port connection
- microSD card slot in battery compartment (card not included; max size 8 GB)
- Complete with Universal AC Adapter/Charger with multiple plugs, USB cable, PC software, tripod, filter, 7.4 V NiMH battery, and hard case

SPECIFICATIONS	
Particle Size Channels	0.3, 0.5, 1.0, 2.5, 5.0, 10 µm
Flow Rate	0.1 ft^3 (2.83 L/min) controlled by internal pump
Count Modes	Cumulative, Differential, Concentration
Counting Efficiency	50% @ 0.3 µm; 100% for particles>0.45
Coincidence Loss	5% @ 2,000,000 particles per ft^3
Air Temperature	-14 to 140ºF (-25 to 60ºC); Accuracy:±2ºF/1ºC
Relative Humidity	0 to 100% RH; Accuracy:±3% RH (40% to 60% RH)
Dew Point/ Wet Bulb	32 to 122ºF (0 to 50ºC)
Dimensions/Weight	9.4x 3x2.2" (240x75x57 mm)/1.26 lbs (570 g)

ORDERING (NOTE: Order replacement battery with meter due to dangerous goods shipping restrictions for individual batteries)	
VPC300	Video Particle Counter
VPC-BATT	Replacement 7.4 V NiMH battery
VPC-ADPTR	Universal AC Adapter/Charger with multiple plugs (US, EU, UK, AU)

CE

VPC260 6-Channel Particle Counter

Weight 448 g (0.988 lb), dimensions 238 x 73 x 50 mm (9.3 x 2.8 x 2.0 in)

Monitor workplace environmental health and air quality, with up to 6 channels of particle sizes plus air temperature, relative humidity, dew point, and wet bulb

- Selectable sample time, count data, and programmable delay
- Disable Auto Power Off for continuous recording
- Export data in CSV format to a PC via USB cable for easy reporting and documentation

SPECIFICATIONS	RANGE	ACCURACY
Channel of Particle Sizes	0.3 µm, 0.5 µm, 1.0 µm, 2.5 µm, 5.0 µm, 10 µm	
Flow Rate	0.035 ft^3/min (1.0 L/min) controlled by internal pump	
Count Modes	Cumulative, Differential, Concentration	
Counting Efficiency	50% @ 0.3 µm (100% for particles >0.5 µm)	
Coincidence Loss	10% @ 2,000,000 counts per ft^3	
Air Temperature	0 to 50°C (32 to 122°F)	±1.0°C (±1.8°F)
Relative Humidity	0 to 100% RH	±3.5% RH (20% to 80% RH)
Dew Point/Wet Bulb	0 to 50°C (32 to 122°F)	
Data Storage	1000 data sets	
Display	2.8-inch TFT Color LCD	
Battery	7.4 V Lithium-ion rechargeable battery	
Power Supply	9 V DC / 2A	

ORDERING	
VPC260	6-Channel Particle Counter

CE

RD350 Refrigerant Leak Detector

Fast, accurate detection of refrigerant leaks in HVAC systems.

- Detects all commonly used refrigerant gases
- Heated diode gas sensor with 3 sensitivity levels
- Highly sensitive with ambient concentration reset
- Audible alarm with variable intensity
- Includes reference leak and hard carrying case

SPECIFICATIONS	
Gas Detection	R-22, R-134a, R-404a, R-410a, and all CFCs, HCFCs and HFCs
Gas Detection Sensitivity	R-32, R-134a, R-404A, R-407C, R-410A, HFO-1234yf High: 0.11 oz/yr (3g/yr); Medium: 0.53 oz/yr (15g/yr); Low: 1.06 oz/yr (30g/yr) R-22 High: 0.14 oz/yr (4g/yr); Medium: 0.71 oz/yr (20g/yr); Low: 1.41 oz/yr (40g/yr)
Probe Length	400 mm (15.5 in)
Sensor Type	Heated Diode
Warm-Up Time	45 seconds
Dimensions	221 × 74 × 47 mm (8.7 × 2.9 × 1.9 in)
Power	4 × AA (1.5 V) batteries
Weight	421 g (14.8 oz)

ORDERING	
RD350	Refrigerant Leak Detector

EZ40 EzFlex™ Combustible Gas Leak Detector

Quickly identifies and pinpoints gas leaks

- 16" (406 mm) gooseneck for easy access into hard to reach locations
- High sensitivity
- One hand operation with thumb controlled sensitivity adjustment, to eliminate background gas levels
- Visible and audible alarm at 10% (LEL) Lower Explosive Limit for methane
- Locate the smallest leaks
- Complete with 3 “C” batteries

SPECIFICATIONS	
Pump driven field calibration range	10 ppm
Sensor type	Solid State
Alarm	Visible and Audible @ 10% LEL for Methane
Warm-up	Approx. 1 minute
Response Time	< 2 seconds (up to 40% LEL)
Duty Cycle	Intermittent
Battery life	8 hours continuous use typical
Dimensions/Weight	8.7x2.83x1.8" (221x72x46 mm)/18.4 oz (520 g)

ORDERING	
EZ40	ExFlex™ Combustible Gas Leak Detector

FG100 Combustible Gas Leak Detector

Fast response detection of flammable gas leakage

- Detects flammable gases: LNG - Liquefied Natural Gas (1000 to 6500 ppm) and LPG - Liquefied Propane Gas (500 to 6500 ppm)
- Highly sensitive detection circuitry with audible and visual alarm
- LED indicators for gas leakage and static discharge
- Continuous operation up to 4 hours
- Dimensions/Weight: 6.5x0.8" (164x21 mm)/0.9 oz (25 g)
- Complete with pocket clip and two AAA batteries;

ORDERING	
FG100	Combustible Gas Leak Detector

CO260 Indoor Air Quality CO/CO_2 Meter/Datalogger

CE

Automatic Baseline Calibration (ABC) with disable for use in areas with continuously elevated CO_2 levels (>400 ppm)

- Manually step through readings of CO, CO_2, Dew Point, Wet Bulb, Air Temperature, and Relative Humidity on large backlit LCD with real time clock
- Built-in maintenance free NDIR (non-dispersive infrared) CO_2 sensor
- Programmable CO warning level with audible alarm
- Calculates statistical weighted averages of TWA (8 hour time weighted average) and STEL (15 minute short term exposure limit)
- Pressure compensation adjustment for measuring CO_2 at altitudes other than sea level
- Manually store/recall 99 readings
- Continuous datalogging up to 32k readings
- USB interface with PC software for further data analysis
- Min/Max, Data Hold, and Auto Power Off with disable
- Complete with 4 AA batteries, USB cable, PC software and hard case
- Optional 33% and 75% RH calibration bottles (RH300-CAL)

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Carbon Monoxide (CO)	0 to 1,000 ppm	1 ppm	±10ppm<100 ppm, ±10% 101-500 ppm, ±20%>500 ppm
Carbon Dioxide (CO_2)	0 to 9,999 ppm	1 ppm	±30 ppm+5% reading
Temperature	-5 to 140°F (-20 to 60°C)	0.1°	±1°F/0.6°C
Humidity	0.1 to 99.9% RH	0.1%	±3% RH
Wet Bulb	23 to 140°F (-5 to 59.9°C)	0.1°	Calculated
Dew Point	-4 to 140°F (-20 to 59.9°C)	0.1°	Calculated
Dimensions/Weight	7.9x2.7x2.3" (200x70x57 mm)/6.7 oz (190 g)		

ORDERING	
CO260	Indoor Air Quality CO/CO_2 Meter/Datalogger
RH300-CAL	33% and 75% RH Calibration Kit

CO250 Indoor Air Quality CO_2 Meter

Measure CO_2 level in office buildings to ensure proper ventilation.

CE

Measures Carbon Dioxide (CO_2), Temperature, Humidity, Dew Point, and Wet Bulb and calculates statistical 8 hour and 15 minute time weighted averages

- Checks for Carbon Dioxide (CO_2) concentrations, measures Temperature and Relative Humidity, and displays calculated Dew Point and Wet Bulb
- Calculates statistical weighted averages of TWA (8-hour time weighted average) and STEL (15-minute short term exposure limit)
- Maintenance free NDIR (non-dispersive infrared) CO_2 sensor
- Backlit triple LCD display and user programmable audible alarm
- RS-232 interface, software and cable included to analyze data on a PC
- Complete with software and cable, 4 AA batteries, and case
- Optional 33% and 75% RH calibration bottles (RH300-CAL)

SPECIFICATIONS	RANGE	RESOLUTION
Carbon Dioxide (CO_2)	0 to 5,000 ppm	1 ppm
Temperature	14 to 140°F (-10 to 60°C)	0.1°F/°C
Humidity	0.0 to 99.9% RH	0.1% RH
Dimensions/Weight	7.9x2.7x2.3" (200x70x57 mm)/6.7 oz. (190 g)	

ORDERING	
CO250	Indoor Air Quality CO_2 Meter
RH300-CAL	33% and 75% RH Calibration Kit

CO240 Indoor Air Quality CO_2 Meter

Dual display of CO_2 level and Humidity, Temperature, Dew Point, or Wet Bulb

- Maintenance free NDIR (non-dispersive infrared) CO_2 sensor
- Audible CO_2 warning alarm when concentration level exceeds high user set point
- Min/Max CO_2 value recall function
- Software for on-line (real-time) data streaming to a PC
- Automatic Baseline Calibration function
- Data hold, Low battery indicator, and Auto Power Off (with disable) function
- Tripod mount (tripod sold separately)
- Complete with six AAA batteries, USB cable, PC software, and soft case

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Carbon Dioxide (CO_2)	0 to 9,999 ppm	1 ppm	±(5% rdg + 75 ppm)
Temperature (Air)	14 to 122°F (-10 to 50°C)	0.1°F/°C	±2.0°F (1.0°C)
Relative Humidity	10 to 90% RH	0.1% RH	±5% RH @ 25°C
Dew Point	-99.2 to 118°F (-72.9 to 47°C)	0.1°F/°C	
Wet Bulb	12.2 to 118.8°F (-11 to 48.2°C)	0.1°F/°C	
Dimensions	8.3x2.4x1.6" (211x60x40 mm)		
Weight	6.4 oz (181.4 g)		

ORDERING	
CO240	Indoor Air Quality CO_2 Meter

EA80 Indoor Air Quality CO_2 Meter/Datalogger

Includes 6 AAA batteries, PC cable, and Windows® compatible software

Measures CO_2 level, Temperature, Humidity, Dew Point and Wet Bulb

- Checks for Carbon Dioxide (CO_2) concentrations, measures Temperature and Relative Humidity, and displays calculated Dew Point and Wet Bulb
- Maintenance free dual wavelength NDIR (non-dispersive infrared) CO_2 sensor
- Continuous (20,000 sets) or manual (99 sets) datalogging
- Data hold, Max/Min with Time stamp, Alarm, and Auto Power Off
- Easy calibration in fresh air

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Carbon Dioxide (CO_2)	0 to 6,000 ppm	1 ppm	±3% of rdg or ±50 ppm, whichever is greater
Temperature	-4 to 140°F (-20 to 60°C)	0.1°F/°C	±0.9°F (±0.5°C)
Humidity	10 to 95%	0.1%	±3% RH @ 25°C
Dimensions/Weight	5.3x2.8x1.2" (135x72x31 mm)/8.2 oz (235 g)		

ORDERING	
EA80	Indoor Air Quality CO_2 Meter/Datalogger

SD800 CO_2/Humidity/Temperature Datalogger

Includes sensor with 11.4" (290 mm) cable (wired to meter), 6 AAA batteries, SD memory card, Universal AC adaptor, and mounting bracket

Records data on an SD card in Excel® format to transfer to a PC for analysis

- Checks for Carbon Dioxide (CO_2) concentrations
- Maintenance free dual wavelength NDIR (non-dispersive infrared) CO_2 sensor
- Triple LCD simultaneously displays CO_2, Temperature and Relative Humidity
- Selectable data sampling rate: 5, 10, 30, 60, 120, 300, 600 seconds or Auto

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Carbon Dioxide (CO_2)	0 to 4,000 ppm	1 ppm	±40 ppm (<1000 ppm); ±5% rdg (>1000 ppm)
Temperature	32 to 122°F (0 to 50°C)	0.1°F/°C	±1.8°F/0.8°C
Humidity	10 to 90% RH	0.1% RH	±4% RH
Datalogging	Datalogs using 4 GB SD memory card (included)		
Dimensions/Weight	5.2x3.1x1.3" (132x80x32 mm)/9.9 oz (282 g)		

ORDERING	
SD800	CO_2 /Humidity/Temperature Datalogger

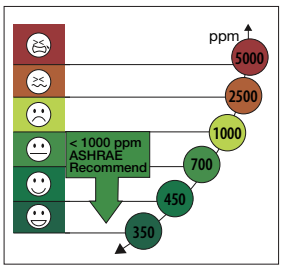
CO210 Desktop Indoor Air Quality CO_2 Monitor/Datalogger

Measures Carbon Dioxide (CO_2), Air Temperature and Humidity with user adjustable high/low alarms and datalogs up to ~5k readings

- Checks for Carbon Dioxide (CO_2) concentrations (0 to 9,999 ppm) and displays Temperature (14 to 140°F/-10 to 60°C) and Relative Humidity (0.1 to 99.9%) readings
- Datalogs up to 5333 points for each parameter and can be downloaded to a PC using included Windows® compatible software and cable
- Maintenance free NDIR (non-dispersive infrared) CO_2 sensor
- Indoor Air Quality displayed in ppm with Good, Normal, Poor indication
- Displays Year, Month, Date, and Time
- Max/Min CO_2 value recall function
- Auto Baseline Calibration (minimum CO_2 level over 7.5 days) or manual in fresh air
- Dimensions/Weight: 4.6x4x4" (117x102x102 mm)/7.2 oz (204 g)
- Complete with Universal AC adaptor, PC software and cable

ORDERING	
CO210	Desktop Indoor Air Quality CO_2 Monitor/Datalogger

CO220 Desktop Indoor Air Quality CO_2 Monitor



Six facial icons indicating CO_2 concentration level for indoor air quality.

User-adjustable visual/audible alarm and calculates Dew Point and Wet Bulb

- Maintenance free NDIR (non-dispersive infrared) CO_2 sensor
- Audible CO_2 warning alarm when concentration level exceeds high/low user set point
- Displays Year, Month, Date, and Time
- Min/Max CO_2 value recall function, Manually store/recall 99 readings
- Calculates statistical weighted averages of TWA (8 hour Time Weighted Average) and STEL (15-minute Short Term Exposure Limit)
- lps% (Liters per second per person) and cfm/p (cubic feet per minute per person)
- Automatic Baseline Calibration function
- Includes Universal AC adaptor (UA100-240) and multiple plug types

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Carbon Dioxide (CO_2)	0 to 9,999 ppm	1 ppm	±(5% rdg +50 ppm)
Temperature	14 to 140°F (-10 to 60°C)	0.1°F/°C	±1.0°F (0.6°C)
Humidity	0.1 to 99.9% RH	0.1% RH	±3% (10 to 90%) @25°C
Dew Point	-94 to 140°F (-70 to 60°C)	0.1°F/°C	
Wet Bulb	14 to 140°F (-10 to 60°C)	0.1°F/°C	
lps%	-1428 to 51 lps%*	1%	
cfm/p	-30 to 1 cmf/p*	1 cfm/p	
Dimensions/Weight	6.1x3.4x3.2" (155x87x81 mm)/5.8 oz (165 g)		
Ranges are calculated from 0 to 1000ppm			

ORDERING	
CO220	Desktop Indoor Air Quality CO_2 Monitor

CO270 Battery Operated Air Quality CO_2 Meter

CO2, humidity, dew point, and temperature readings

- Typical battery life 6 months or 1 year in ECO mode
- Recall peak and average value over the last 24-hour period
- Includes anti-theft and anti-modification features
- Programmable buzzer features to alert when set threshold is exceeded
- CO_2 manual calibration feature

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Carbon Dioxide (CO_2)	0 to 9,999 ppm	1 ppm	±(3% rdg +50 ppm)
Temperature	32 to 122°F (0 to 50°C)	0.1°F/°C	±1.0°F (0.6°C)
Humidity	5 to 95 % RH	0.1% RH	±5%
Sensor Type	CO2 NDIR (non-dispersive infrared) technology		
Wet Bulb	14 to 140°F (-10 to 60°C)	0.1°F/°C	
Dimensions/Weight	3.4×3.4×1" (88×86×25 mm)/8 oz (115 g)		

ORDERING	
CO270	Battery Operated Air Quality CO_2 Meter

CO100 Desktop Indoor Air Quality CO_2 Monitor

Measures Carbon Dioxide (CO_2), Air Temperature and Humidity with user-adjustable visual and audible alarm

- Checks for Carbon Dioxide (CO_2) concentrations (0 to 9,999 ppm) and displays Temperature (14 to 140°F/-10 to 60°C) and Relative Humidity (0.1 to 99.9%) readings
- Maintenance free NDIR (non-dispersive infrared) CO_2 sensor
- Indoor Air Quality displayed in ppm with Good (0 to 800 ppm), Normal (800 to 1200 ppm), Poor (>1200 ppm) indication
- Visible and Audible CO_2 warning alarm
- Displays Year, Month, Date, and Time
- Max/Min CO_2 value recall function
- Complete with Universal AC adaptor

ORDERING	
CO100	Desktop Indoor Air Quality CO_2 Monitor

CO10 Carbon Monoxide (CO) Meter

Check CO level in all environments up to 1000 ppm

- Ergonomic pocket size housing
- One-button operation
- Utilizes a stabilized electrochemical gas specific (CO) fast response sensor
- Easy to read 1999 count backlit displays CO levels from 0 to 1000 ppm
- 1 ppm resolution; ±5% or ±10 ppm basic accuracy (whichever is greater)
- Audible alarm starting at 35 ppm with continuous beeping when above 200 ppm
- Memory stores 10 readings
- Backlight for low light conditions
- Max Hold and Data hold buttons
- Auto Power Off
- Dimensions/Weight: 6.3x2.2x1.57" (160x56x40 mm)/6.35 oz (180 g)
- Complete with 9 V battery, protective rubber holster, and carrying case

ORDERING	
CO10	Carbon Monoxide Meter

VFM200 VOC/Formaldehyde (CH_2O or HCHO) Meter

Measures VOC (Volatile Organic Compound) and Formaldehyde concentrations in real-time

- Backlit LCD displays TVOC (Total Volatile Organic Compound) and HCHO (Formaldehyde) concentrations simultaneously in real-time
- Built-in fast response, high accuracy fuel cell Formaldehyde sensor
- Adjustable audible and visible high/low alarms; Auto Power Off
- Complete with rechargeable battery and Universal AC Adaptor/ Charger (multi-plugs US, EU, UK, and AU)

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
TVOC	0.00 to 9.99 ppm (mg/m³)	0.01 ppm (mg/m³)	±5% FS
Formaldehyde (CH_2O or HCHO)	0.00 to 5.00 ppm (mg/m³)	0.01 ppm (mg/m³)	±5% FS
Response Time	<2 s		
Power Supply	Rechargeable battery and AC adaptor		
Charge Time	~3 hours		
Dimensions/Weight	6.5x2.4x1" (165x60x25 mm)/1.3 lbs (584 g)		

ORDERING	
VFM200	VOC/Formaldehyde Meter

HD350 Pitot Tube Anemometer + Differential Manometer

Complete with Windows® compatible software with cable, 9 V battery, pitot tube with two 33.5" (85 cm) connection hoses, 100-240 V universal AC Adaptor with multiple plugs, and hard carrying case

CE

Pitot Tube measures Air Velocity/Airflow in difficult-to-reach or tight locations where a vane anemometer won't fit

- Simultaneous display of Pressure, Air Velocity or Air Flow plus Temperature
- ±0.7252 psi range
- 5 selectable units of pressure measurement
- Max/Min/Avg recording and Relative time stamp
- Data Hold and Auto Power Off functions
- Large LCD display with backlighting
- Zero function for offset correction or measurement
- Store/Recall up to 99 readings in each mode
- USB port includes software

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY
Pressure			
psi	0.7252 psi	0.0001 psi	±0.3% FS
mbar	50.00 mbar	0.01 mbar	±0.3% FS
inH_2O	20.07 inH_2O	0.01 inH_2O	±0.3% FS
mmH_2O	509.8 mmH_2O	0.01 mmH_2O	±0.3% FS
Pa	5000 Pa	1 Pa	±0.3% FS
Linearity/Hysteresis	±0.29 FS		
Maximum Pressure	10 psi		
Air Velocity/Flow			
ft/min	200 to 15733 ft/min	1 ft/min	±1% FS
m/s	1 to 80.00 m/s	0.01 m/s	±1% FS
km/h	3.5 to 288.0 km/h	0.1 km/h	±1% FS
MPH	2.25 to 178.66 MPH	0.01 MPH	±1% FS
knots	2.0 to 154.6 knots	0.1 knots	±1% FS
CFM/CMM	0 to 99,999 CFM (CMM)	0.001 CFM (CMM)	±1% FS
Temperature	32.0 to 122.0°F (0 to 50°C)	0.1°	±3°F/1.5°C
Dimensions/Weight	Meter: 8.2x2.9x1.9" (210x75x50 mm)/12 oz (340 g); Pitot Tube: 15.4x7.7" (390x195 mm); Diameter: 0.32" (8 mm)/7.2 oz (204 g)		

ORDERING	
HD350	Pitot Tube Anemometer + Differential Manometer

HD700 Series Differential Pressure Manometers

CE

Complete with 9 V battery, Windows® compatible software with USB cable, 100-240 V Universal AC adaptor, connection hose, built-in stand, and hard case

Low Range/High Resolution Gauge or Differential Pressure

- Three models to choose from: Model HD700 (±2 psi range), Model HD750 (±5 psi range), and Model HD755 (±0.5 psi range)
- 11 selectable units of measure
- MAX/MIN recording and Relative time stamp
- Data Hold and Auto Power Off
- Zero function for offset correction or measurement
- Large LCD display with backlighting
- USB port includes PC software

SPECIFICATIONS	HD700	HD750	HD755
psi	2 psi (0.001 psi)	5 psi (0.001 psi)	0.5 psi (0.001 psi)
inH_2O	55.40 inH_2O (0.01 inH_2O)	138.3 inH_2O (0.1 inH_2O)	13.85 inH_2O (0.01 inH_2O)
mbar	137.8 mbar (0.1 mbar)	344.7 mbar (0.1 mbar)	34.47 mbar (0.01 mbar)
kPa	13.78 kPa (0.01 kPa)	34.47 kPa (0.01 kPa)	3.447 kPa (0.001 kPa)
inHg	4.072 inHg (0.001 inHg)	10.18 inHg (0.01 inHg)	1.018 inHg (0.001 inHg)
mmHg	103.4 mmHg (0.1 mmHg)	258.5 mmHg (0.1 mmHg)	25.85 mmHg (0.01 mmHg)
$ozin^2$	32 $ozin^2$ (0.01 $ozin^2$)	80 $ozin^2$ (0.01 $ozin^2$)	8.00 $ozin^2$ (0.01 $ozin^2$)
ftH_2O	4.616 ftH_2O (0.001 ftH_2O)	11.53 ftH_2O (0.01 ftH_2O)	1.154 ftH_2O (0.001 ftH_2O)
cmH_2O	140 cmH_2O (0.1 cmH_2O)	350.1 cmH_2O (0.1 cmH_2O)	2.59 cmH_2O (0.01 cmH_2O)
$kgcm^2$	0.140 $kgcm^2$ (0.001 $kgcm^2$)	0.351 $kgcm^2$ (0.001 $kgcm^2$)	0.035 $kgcm^2$ (0.001 $kgcm^2$)
bar	0.137 bar (0.001 bar)	0.344 bar (0.001 bar)	0.034 bar (0.001 bar)
Basic Accuracy	±0.3% FS	±0.3% FS	±0.3% FS
Dimensions/Weight	Meter: 8.2x2.9x1.9" (210x75x50 mm)/9.8 oz (280 g)		

ORDERING	
HD700	Differential Pressure Manometer (2 psi)
HD750	Differential Pressure Manometer (5 psi)
HD755	Differential Pressure Manometer (0.5 psi)

407910 Heavy Duty Differential Pressure Manometer

CE

Wide range dual input with multiple units and RS-232 interface

- Dual differential inputs with internal sensors
- Wide (±802 inches of water) measurement range with high resolution to 0.5 inch
- Displays 8 types of pressure units
- Zero function for offset measurements
- Data Hold, Auto power off, and MAX/MIN
- Built-in PC interface — optional 407001-PRO Data Acquisition Software (see p. 95 for details)
- Complete with 2 quick-disconnect fittings, 9 V battery, protective holster with stand, and case

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
psi	±29 psi	0.02 psi	±1% FS
mbar	±2000 mbar	1 mbar	±2% FS
kg/cm²	±2.040 kg/cm²	0.001 kg/cm²	±1% FS
mmHg	±1500 mmHg	1 mmHg	±1% FS
inHg	±59.05 inHg	0.05 inHg	±1% FS
mH_2O	±20.40 mH_2O	0.01 mH_2O	±1% FS
inH_2O	±802.0 inH_2O	0.5 inH_2O	±1% FS
Atmosphere	±1.974 atm	0.001 atm	±1% FS
Dimensions/Weight	Meter: 7x2.9x1.3" (178x74x33 mm)/12 oz (350 g)		

ORDERING	
407910	Heavy Duty Differential Pressure Manometer
407001-PRO	Data Acquisition Software and Cable

SDL710/SDL720/SDL730 Differential Pressure Manometers/Dataloggers

SDL710

SDL720

SDL730

CE

Includes six AA batteries, Universal AC Adapter with plugs (US, EU, UK, AU), SD memory card, two quick coupler plugs, and hard case

Dual differential inputs with internal sensors and datalogs using an SD card

- Three models to choose from: SDL710 (±2.9 psi range), SDL720 (±29 psi range), and SDL730 (±101.5 psi range)
- Stores 99 readings manually
- Datalogger date/time stamps and stores readings on an SD card (included) in Excel® format for easy transfer to a PC
- Record/Recall Max/Min readings
- Data Hold and Auto power off with disable
- Large LCD display with backlighting
- Zero function for offset correction or measurement

SPECIFICATIONS	SDL710 (MAX RES)	SDL720 (MAX RES)	SDL730 (MAX RES)
mbar	200 mbar (0.1 mbar)	2000 mbar (1 mbar)	7000 mbar (5 mbar)
psi	2.9 psi (0.001 psi)	29 psi (0.01 psi)	101.5 psi (0.05 psi)
kg/cm²	0.204 kg/cm² (0.001 kg/cm²)	2.040 kg/cm² (0.001 kg/cm²)	7.135 kg/cm² (0.005 kg/cm²)
mmHg	150 mmHg (0.1 mmHg)	1500 mmHg (1 mmHg)	5250 mmHg (5 mmHg)
inHg	5.905 inHg (0.002 inHg)	59.06 inHg (0.02 inHg)	206.7 inHg (0.1 inHg)
mH_2O	2.04 mH_2O (0.001 mH_2O)	20.40 mH_2O (0.01 mH_2O)	71.35 mH_2O (0.05 mH_2O)
inH_2O	80.2 inH_2O (0.05 inH_2O)	802 inH_2O (0.5 inH_2O)	2810 inH_2O (2 inH_2O)
atm	0.197 atm (0.001 atm)	1.974 atm (0.001 atm)	6.905 atm (0.005 atm)
hPA	200 hPa (0.1 hPa)	2000 hPa (1 hPa)	7000 hPa (5 hPa)
kPA	20k Pa (0.01kPa)	200 kPa (0.1 kPa)	700 kPa (0.5 kPa)
Dimensions/Weight	7.5x2.7x1.8" (190x68x45 mm)/0.59 lbs (265g)		

ORDERING	
SDL710	Differential Pressure Manometer/Datalogger (2.9 psi/200 mbar)
SDL720	Differential Pressure Manometer/Datalogger (29 psi/2000 mbar)
SDL730	Differential Pressure Manometer/Datalogger (101.5 psi/7000 mbar)

475055 High Capacity Force Gauge with PC Interface

220 lbs (100 kg), Tension, and Compression

- Tension or Compression, Peak hold and Zero functions
- Large LCD with back light feature and Positive/Reverse display for easy readability
- PC interface and optional data acquisition software (407001-PRO see p. 95)
- Optional AC Adaptors available (see below for ordering)

SPECIFICATIONS	
Range	220 lbs, 100 kg, 980 Newtons
Basic Accuracy (23°C)	±(0.5% rdg)
Resolution	0.05 lbs, 0.05 kg, 0.2 Newtons
Overload capacity	150 kg
Update Rate	Fast mode 0.2 seconds; Slow mode 0.6 seconds
Full scale deflection	<1 mm
Transducer type	Load cell
Dimensions/ Weight	Meter: 8.5x3.5x1.8" (215x90x45 mm)/0.61 lbs (278 g) w/o batteries

ORDERING	
475055	High Capacity Force Gauge with PC Interface
407001-PRO	Data Acquisition Software and Cable
UA100-240	100-240 V AC Adaptor with 4 plugs (US, EU, UK, AU)

Complete with tension and compression adaptors, six AA 1.5 V batteries, and case

475040/475044 Digital Force Gauges

Push/Pull measurements in kg, lbs, oz, and Newton units

- 5 digit 0.4" (10 mm) LCD with reversible display feature to match viewing angle
- Zero Adjust, Peak Hold, and selectable Fast/Slow response feature
- Over-range, low battery, and advanced function indication

SPECIFICATIONS	475040	475044 (HIGH CAPACITY)
Range	176 oz, 5000 g, 49 Newtons	44 lbs, 20 kg, 196 Newtons
Basic Accuracy (23°C)	±(0.4%)	±(0.5%)
Resolution	0.05 oz, 1 g, 0.01 Newtons	0.01 lbs, 0.01 kg, 0.05 Newtons
Overload capacity	10 kg	30 kg
Update Rate	Fast mode 0.2 secs; Slow mode 0.6 secs	
Full scale deflection	2.00 mm	
Transducer type	Load cell	
Dimensions/ Weight	8.5x3.5x1.8" (215x90x45 mm)/1.4 lbs (650 g)	

ORDERING	
475040	Digital Force Gauge
475044	High Capacity Force Gauge
UA100-240	100-240 V AC Adaptor with 4 plugs (US, EU, UK, AU)

Complete with hook adaptor for tension, compression adaptors (flat, cone and chisel head), 5" (127 mm) extension rod, 6 AA batteries, and hard carrying case

401025 Foot Candle/Lux Meter

Includes analog output and fast/slow response feature

- Accurately displays light level in terms of Fc or Lux over three ranges
- Select fast (0.4 seconds) or slow (2 seconds) response time
- Analog output of 1 mV per count for capturing readings to a recorder
- Complete with 9 V battery, light sensor with protective cover and 47” (1.2 m) cable, and built-in stand
- Dimensions: 6.4x2.8x1.2” (163x70x30 mm. Weight 8.3 oz (220 g)

SPECIFICATIONS	
Fc Range	200, 2000, 5000 Fc
Lux Range	2000, 20000, 50000 Lux
Max. Resolution	0.1 Fc/1 Lux
Basic Accuracy	±5% FS
Cosine & Color Corrected	Yes

LT300 Light Meter

Digital and Analog display of light in Fc or Lux

- Wide range to 40,000 Foot-candles or 400,000 Lux with high resolution to 0.01 Fc/Lux
- Relative mode indicates change in light levels
- Peak mode captures highest reading
- Remote light sensor on 12” (305 mm) coiled cable — expandable to 24” (609 mm)
- Utilizes precision photo diode and color correction filter
- MIN/MAX and Data Hold
- Large LCD display with analog bargraph
- Backlight for readings in low light levels
- Complete with 9 V battery, light sensor with protective cover, protective holster, and pouch
- Dimensions: 5.9x2.95x1.57” (150x75x40 mm). Weight 7 oz (200 g)

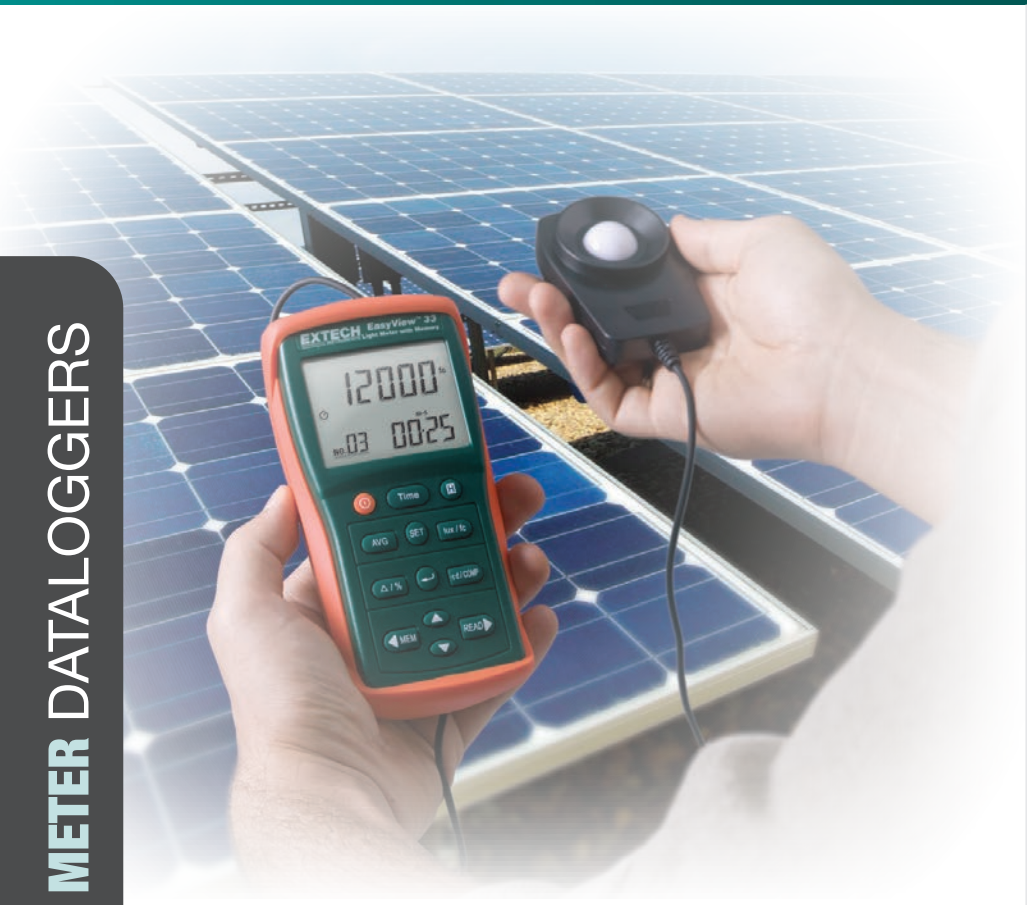
SPECIFICATIONS	
Fc Range	40,000 Fc
Lux Range	400,000 Lux
Max. Resolution	0.01 Fc/Lux
Basic Accuracy	±5% rdg
Cosine & Color Corrected	Yes

EA30 EasyView® Big Digit, Wide range Light Meter

Measures high intensity light up to 40,000 Fc and 400,000 Lux, is ideal for outdoor applications

- Compact and rugged design with large display and bargraph
- Relative function for zero or difference from reference value
- Peak captures short light pulses to 100 µSeconds
- Data Hold and MIN/MAX readings
- Auto Power Off, Zero function
- Complete with built-in stand, light sensor and protective cover with 39” (1 m) coiled cable, protective holster, 6 AAA batteries, and carrying case
- Dimensions: 5.9x2.8x1.4” (150x72x33 mm). Weight: 8.3 oz (235 g)

SPECIFICATIONS	
Fc Range	40, 400, 4000, 40,000 Fc
Lux Range	40, 400, 4000, 40,000, 400,000 Lux
Max. Resolution	0.01 Fc/Lux
Basic Accuracy	±3% rdg + 0.5% FS
Cosine & Color Corrected	Yes



Bright Solutions from Extech

Extech light meters deliver accurate, repeatable readings and feature big-digit displays, wide-range models, ruggedized designs, as well as memory and datalogging capabilities.

407026 Heavy Duty Light Meter with PC Interface

Enhance accuracy by selecting one of four lighting types plus PC interface

- % displays differential from reference point
- "ZERO" Re-Calibration
- Enhance accuracy by selecting lighting type Tungsten/Daylight, Fluorescent, Sodium, Mercury
- MAX/MIN/AVG, Data Hold, and Auto Power Off
- Complete with 9 V battery, light sensor, and protective cover with 45" (1.1 m) cable, and protective holster with stand

ACCESSORIES	
UA100-240	100-240 V AC Adaptor with 4 plugs (US, EU, UK, AU)
407001-PRO	Data Acquisition Software and USB Cable

See p. 95 for software information

SPECIFICATIONS	407026
Fc Range	200, 2000, 5000 Fc
Lux Range	2000, 20000, 50000 Lux
Max. Resolution	0.1Fc/1 Lux
Basic Accuracy	±4% FS
Cosine & Color Corrected	Yes
Temperature (Type J/K)	—
PC Interface	Optional 407001-PRO Software (see p. 95)
Datalogging	—
CE approved	Yes
Dimensions	7x2.9x1.3" (178x74x33 mm)
Weight	1.6 lbs (726 g)

HD450 Light Meter Datalogger

Automatically stores up to 16,000 readings or manually store/recall up to 99 readings

- Records in a continuous mode up to 16,000 readings
- Wide range to 40,000 Fc or 400,000 Lux
- Cosine and color corrected measurements
- Utilizes precision silicon photo diode and spectral response filter
- Peak mode (10 ms) captures highest reading
- Relative mode indicates change in light levels
- Heavy duty, rugged double molded housing
- Built-in USB port
- Complete with light sensor and cover with 39" (1 m) cable, Windows® compatible software, USB cable, built-in stand, case, and 9 V battery

EA33 EasyView® Light Meter with Memory

Advanced illuminance functions for taking measurements in direct sunlight

- Wide measurement range to 99,990 Fc (999,900 Lux)
- Luminous intensity (candela) calculations
- Store and recall up to 50 measurements, includes relative or real time clock stamp
- Ripple function excludes the effect of stray light from the primary light source measurement
- Auto Power Off with disable
- Multiple point average function
- Timed-Hold, Relative in absolute value or % deviation, and Comparator function with high/low alarms
- Complete with built-in stand, light sensor and protective cover with 36" (0.9 m) coiled cable, protective holster, 6 AAA batteries, and case

SDL400 Light Meter/ Datalogger

Datalogger date/time stamps and stores readings on an SD card in Excel® format

- Wide range: 10,000 Fc/100k Lux
- Cosine and color-corrected measurements
- Utilizes precision photo diode and spectral response filter
- Selectable data sampling rate: 1 to 3600 seconds (1 hour)
- Internal memory stores 99 readings manually
- Large backlit LCD
- Type K/J Thermocouple input
- MIN/MAX and Data Hold
- “ZERO” Re-Calibration
- Auto Power Off with disable function
- Complete with 6 x AA batteries, SD card, hard case, and light sensor with protective cover; Optional Universal AC Adaptor UA100-240 and Type K and J Thermocouple probes (see p. 19 and 44)

HD450	EA33	SDL400
40, 400, 4000, 40k Fc	9.999, 99.99, 999.9, 9999, 99,990 Fc	200, 2000, 10k Fc
400, 4000, 40k, 400k Lux	99.99, 999.9, 9999, 99,990, 999,900 Lux	2000, 20k, 100k Lux
0.01 Fc/0.1 Lux	0.001 Fc/0.01 Lux	0.1 Fc/1 Lux
±5%	±3%	±4% rdg
Yes	Yes	Yes
—	—	J: -148 to 2192°F (-100 to 1200°C) K: -148 to 2372°F (-100 to 1300°C)
USB with software included	—	SD Card
Manual: 99 readings Continuous: 16,000 readings	Manual: 50 readings	Manual: 99 readings Continuous: Datalogs with 4 GB SD card
Yes	Yes	Yes
6.7x3.1x1.6" (170x80x40 mm)	5.9x2.8x1.4" (150x72x33 mm)	7.2x2.9x1.9" (182x73x48 mm)
13.7 oz (390 g)	11.29 oz (320 g)	16.8 oz (475 g)

UV505 Pocket UV-AB Light Meter

Complete with two AAA batteries and a pouch

Pocket-sized UV light meter measures UV-AB light from natural and artificial light sources

- Sensor wavelength range 290 to 390 nm
- UV sensor with cosine correction measures irradiance from UV-AB light sources: 1 to 3999 µW/cm² and 0.01 to 40.00 mW/cm²
- Basic accuracy of ±5% FS
- Backlit LCD for easy viewing
- Zero function
- Data Hold freezes current reading on display
- Tripod mount (tripod not included)
- Dimensions/Weight: 5.2x1.9x1" (133x48x23 mm)/3.2 oz (90 g)

ORDERING	
UV505	Pocket UV-AB Light Meter

UV510 UVA Light Meter

Complete with wrist strap, light sensor cover, and 3 AAA batteries

Measures UVA light radiation from natural and artificial light sources

- Sensor wavelength range 320 to 390 nm
- UV sensor with cosine correction measures irradiance from UVA light sources: 0 to 1.999 mW/cm², 2 to 20.00 mW/cm²
- Basic accuracy of ±4% FS
- Backlit LCD to view in dimly lit areas
- Zero function
- Data Hold and Min/Max functions
- Auto Power Off with disable
- Tripod mount (tripod not included)
- Dimensions/Weight: 5.5x2.3x1" (141x58x25 mm)/5.6 oz (160 g)

ORDERING	
UV510	UVA Light Meter

SDL470 UVA/UVC Light Meter/Datalogger

Complete with built-in tilt stand, SD memory card, UVA light sensor with protective cover, UVC light sensor, hard case, Universal AC adaptor, and 6 x AA batteries

Measures UVA (long wave) and UVC (short wave) light sources, plus date/time stamps and stores files onto an SD memory card in Excel® format

- UVA probe captures long-wave 365 nm UV irradiance measurements under a UVA (black light) source
- UVC probe captures short-wave 254 nm UV irradiance measurements under a UVC light source
- Cosine correction filter and metal housing; Large backlit LCD display
- Internal memory stores 99 readings manually; External data storage in Excel format on an SD card (included) for easy transfer to a PC
- Offset adjustment used for zero function or to make relative measurements
- Adjustable data sampling rate: 1 to 3600 seconds
- Type K/J Thermocouple input (probes sold separately)
- Record/Recall MIN, MAX readings, Data Hold, and Auto Power Off functions

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY
UVA Range	2 mW/cm², 20 mW/cm²	0.001 mW/cm²	±4% FS
UVC Range	2 mW/cm², 20 mW/cm²	0.001 mW/cm²	±4% FS
Frequency Bandwidth	365 nm (UVA); 254 nm (UVC)		
Type K Temperature	-148 to 2372°F (-100 to 1300°C)	0.1°F/°C	±(0.4%±1.8°F/1°C)
Type J Temperature	-148 to 2192°F (-100 to 1200°C)	0.1°F/°C	±(0.4%±1.8°F/1°C)
Dimensions/ Weight	7.2x2.9x1.9" (182x73x47.5 mm)/16.2 oz (475 g)		

ORDERING	
SDL470	UVA/UVC Light Meter/Datalogger
TP875	Type K Thermocouple Bead Wire Temperature Probe -58 to 1000°F (-50 to 538°C)

LT40 LED Light Meter

LED Light meters are used for monitoring and optimizing environmental light levels in homes, buildings, schools, and offices.

Measures the light intensity of white LED lights

- Measure white LED and Standard Lighting in Lux or Foot-Candle (Fc) units
- MIN/MAX/Average
- Cosine and color corrected measurements
- Auto Power Off
- Complete with built-in sensor with protective cover, 2 AAA batteries, and pouch

SPECIFICATIONS	
Foot-candle Range	40, 400 4,000, 40,000 Fc
Lux Range	400, 4000, 40,000, 400,000 Lux
LED Type	white
Basic Accuracy	±3%
Dimensions/ Weight	5.2x1.9x1" (133x48x23 mm)/8.8 oz (250 g)

ORDERING	
LT40	LED Light Meter

LT45 Color LED Light Meter

LED Light meters are used for monitoring and optimizing environmental light levels in buildings, schools, and offices

- Measure white, red, yellow, green, and blue LED lights and standard lighting in Lux or Foot-Candle (Fc) units
- Manually store/recall up to 99 readings
- MIN/MAX/Average; Auto Power Off
- Cosine and color corrected measurements
- Complete with light sensor with protective cover and coiled cable expandable to 59" (1.5 m), 9 V battery, and hard case

SPECIFICATIONS	
Foot-candle Range	40 Fc, 400 Fc 4,000 Fc, 40,000 Fc
Lux Range	400 Lux, 4,000 Lux, 40,000 Lux, 400,000 Lux
LED Type	white, red, yellow, green, blue
Basic Accuracy	±3%
Dimensions/ Weight	5.1x2.2x1.5" (130x55x38 mm)/8.8 oz (250 g)

ORDERING	
LT45	Color LED Light Meter

LT505 Pocket Light Meter

Integrated sensor measures light intensity up to 40,000 Fc (400,000 Lux)

- Measure light levels in Foot-candle (Fc) or Lux units using a precision photo diode with cosine and color correction filter
- Zero/Calibration function
- Data Hold, Min/Max function, Auto Power Off with disable
- Tripod mount (tripod not included)
- Complete with light sensor cover, two AAA batteries, and pouch
- Dimensions: 5.3x1.9x0.2” (133x48x23 mm); Weight: 8.8 oz (250 g)

SPECIFICATIONS	
Fc Range	99.99, 999.9, 9999, 40,000 Fc
Lux Range	999.9, 9999, 99,990, 400,000 Lux
Max. Resolution	0.01 Fc/0.1 Lux
Basic Accuracy	±3% rdg + 3 digits
Cosine & Color Corrected	Yes

ORDERING	
LT505	Pocket Light Meter

CG104 Coating Thickness Tester

Smart display rotates 180° for easy viewing angle and Automatic recognition for ferrous and non-ferrous substrates

- Conforms to GB/T 4956, 1985, GB/T 4957-1985, JB/T 8393-1996, JJG 889-95, and JJG 818-93
- 180° reversible LCD display with LED backlight
- Magnetic induction for ferrous substrates; Eddy current for non-ferrous substrates
- Memory stores 255 readings
- User adjustable high/low alarms, Min/Max/Average,
- Substrate Zeroing and two-point calibration function
- Auto-Hold, Auto Power Off, and low battery indicator
- Complete with two AAA batteries, calibration standards (one ferrous plate, one non-ferrous plate, and one standard coating plate film), wrist strap, and pouch

SPECIFICATIONS	FERROUS PROBE (MAGNETIC INDUCTION)	NON-FERROUS PROBE (EDDY CURRENT)
Range (max res)	0 to 2000 µm (1 µm); 0 to 80.0 mils (0.1 mils)	0 to 1000 µm (1 µm); 0 to 40.0 mils (0.1 mils)
Basic Accuracy	±3%	±3%
Minimum Thickness	0 to 80 mils (0 to 2000 µm)	0 to 40 mils (0 to 1020 µm)
Dimensions/Weight	4.1x2.2x1.1" (105x55x27 mm)/2.82 oz (80 g)	

ORDERING	
CG104	Coating Thickness Tester

CG204 Coating Thickness Tester

Automatic recognition for ferrous and non-ferrous substrates. USB interface with included software for further data analysis on a PC.

- Conforms to GB/T 4956-1985, GB/T 4957-1985, JB/T 8393-1996, JJG-889-95, and JJG 818-93
- Magnetic induction for ferrous substrates
- Eddy current measurement for non-ferrous substrates
- Two measuring modes (Single and Continuous) and Working modes (Direct & Group)
- Memory stores 400 readings: 80 Direct and 320 Group
- User adjustable high/low alarms,
- Min/Max/Average
- One or two point calibration
- USB interface includes software
- Complete with two AAA batteries, USB cable, software, Calibration Iron, Calibration Aluminum, Reference Films, and pouch

SPECIFICATIONS	FERROUS PROBE (MAGNETIC INDUCTION)	NON-FERROUS PROBE (EDDY CURRENT)
Range (max res)	0 to 1250 µm (0.1 µm); 0 to 49 mils (0.004 mils)	0 to 1250 µm (0.1 µm); 0 to 49 mils (0.004 mils)
Basic Accuracy	±3%	±3%
Min. Curvature Radius	1.5 mm (59.06 mils)	3 mm (118.1 mils)
Minimum Diameter	7 mm (275.6 mils)	5 mm (196.9 mils)
Minimum Thickness	0.5 mm (19.69 mils)	0.3 mm (11.81 mils)
Dimensions/Weight	4.7x2.4x1.25" (120x6 x32 mm)/6.17 oz (175 g)	

ORDERING	
CG204	Coating Thickness Tester

CG206 Coating Thickness Tester

Automatic recognition for ferrous and non-ferrous substrates with 1500 data storage and USB interface for further data analysis on a PC

- Magnetic induction for ferrous substrates
- Eddy current measurement for non-ferrous substrates
- Easy-to-use menu system
- Dot matrix LCD display with 8 level adjustable backlight
- Two working modes: Direct and Group
- Memory stores 1500 readings (30 Group readings)
- One or two point calibration
- USB interface includes software
- Low battery indicator
- Complete with two AAA batteries, USB cable, software, Calibration Iron, Calibration Aluminum, Precision Standards, and pouch

SPECIFICATIONS	FERROUS PROBE	NON-FERROUS PROBE
Measuring Range	0 to 1350 µm (0 to 53 mils)	0 to 1350 µm (0 to 53 mils)
Resolution	0.1 µm (0.004 mils)	0.1 µm (0.004 mils)
Accuracy	±2.5%	±2.5%
Minimum Curvature Radius	1.5 mm (59.06 mils)	3 mm (118.1 mils)
Minimum Diameter	7 mm (275.6 mils)	5 mm (196.9 mils)
Minimum Thickness	0.5 mm (19.69 mils)	0.3 mm (11.81 mils)
Dimensions/Weight	4.5x2.1x1.1" (113.5x54x27 mm)/3.9 oz (110 g)	

ORDERING	
CG206	Coating Thickness Tester

CG304 Coating Thickness Tester with Bluetooth®

Bluetooth® interface feature wirelessly transmits data to your PC

- Provides automatic recognition of ferrous and non-ferrous substrates
- Magnetic induction for ferrous substrates
- Eddy current measurement for non-ferrous substrates
- Easy-to-use menu system
- Dot matrix LCD display with backlight and contrast
- Memory stores 2500 readings in 50 groups with 50 readings in each group
- Zero-point calibration function
- Complete with two AAA batteries, software, hard case, Steel and Aluminum substrates, and standard films for calibration

SPECIFICATIONS	FERROUS PROBE	NON-FERROUS PROBE
Working Principle	Magnetic Induction	Eddy Current
Measuring Range	0 to 2000 µm; 0 to 78.7 mils	0 to 2000 µm; 0 to 78.7 mils
Accuracy	±(2%+2 µm); ±3.5% (1000 to 2000 µm)	±(2%+2 µm); ±3.5% (1000 to 2000 µm)
Resolution	0.1 µm (0.01 mils)	0.1 µm (0.01 mils)
Minimum Curvature Radius	1.5 mm (59.06 mils)	3 mm (118.1 mils)
Minimum Diameter	7 mm (275.6 mils)	5 mm (196.9 mils)
Minimum Thickness	0.5 mm (19.69 mils)	0.3 mm (11.81 mils)
Dimensions /Weight	4.7x2.4x1.25" (120x62x32 mm)/6.17 oz (175 g)	

ORDERING	
CG304	Coating Thickness Tester with Bluetooth

TKG Series Ultrasonic Thickness Gauges

TKG100

TKG150

CE

All models include 2 oz bottle of couplant, 2 AA batteries, Transducer (5 MHz, 0.375" diameter) with potted cable, and hard case. TKG150 also includes protective holster, USB cable, and Extech XPorter software.

Compact, rugged housing ideal for field use & ultrasonic technology allows for non-destructive thickness measurements for primarily steel structures

- Measurement range: 5 MHz transducer: 0.040" to 20" (1 mm to 508 mm) of steel
- Sunlight readable dot-matrix display with backlight
- Multiple transducer options for high temperature and difficult to measure materials
- Fast minimum feature to capture minimum thicknesses
- Splash-proof (IP54), high impact, compact housing

Model TKG150 Additional Features

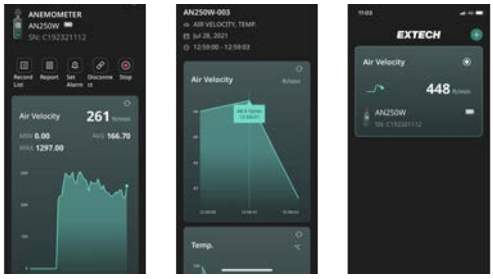
- Echo-to-Echo option to reduce coating errors
- 100k internal datalogger with export to Excel®
- B-scan (visual cross section of test piece)
- Vibrate on alarm

SPECIFICATIONS	
Thickness (Steel)	5 MHz probe: 0.040 to 20" (1.0 to 508 mm); 10 MHz probe: 0.030 to 2" (0.76 to 50.8 mm)
Material velocity calibration range	0.200 to 0.7362 in/µS (0.508 to 18.699 mm/µS)
On Screen Languages	English, French, Spanish, Italian, Czech, German, Portuguese, Slovak, Finnish, Hungarian
Hold Mode	Holds display to retain last thickness reading with reverse video display
Freeze Mode	Freezes display (ideal for high temperature readings)
Fast Min/Max Mode	Displays min or max and actual thickness value at 20 measurements/sec
Units	Inches/Millimeters/Microseconds
Alarms	Audible beeping, illuminate flashing display & keypad, and vibration feedback (only on the TKG150 models)
Illuminating Keypad	F1 = Red, F2 = Yellow, F3 = Green for easy, go/no-go testing

Additional Functions	TKG100	TKG150
Gain - Variable adjustment	—	Low, Standard, High
B-Scan - Displays a cross section of the test piece	—	Displays a visual cross section of inspection area with no correlation to distance. B-Scan alarm colors consist of: Red = below minimum/above maximum; Yellow = Caution; and Green = Good.
Echo-to-Echo	—	Measure the metal thickness only (paint & coatings do not affect base material thickness value)
Differential Mode	—	Displays the difference from the actual thickness measurement and a user entered reference value
Velocity Mode	—	Displays acoustic sound speed to measure thickness of unknown materials
Datalogger	—	Stores 50k readings (expandable to 100k) and 5,000 waveforms; file names up to 20 characters long; and the included Extech XPorter software extracts CSV data files that can be opened for viewing in MS Excel, Notepad, or Wordpad. TKG250 also has file compare & grid review features.
Battery Life	Up to 50 hrs (20 hrs w/backlighting)	

ORDERING	
TKG100	Digital Ultrasonic Thickness Gauge
TKG150	Digital Ultrasonic Thickness Gauge/Datalogger

Extech ExView® App Enables Wireless Video Inspection, Data Collection, and Reporting With Multiple Devices



Monitor Environmental Conditions Safely and Conveniently

The Extech ExView App also allows you to connect up to eight meters at once, so you can safely monitor a variety of environmental conditions from a distance via Bluetooth®. A major advantage of the ExView App is it allows you to remotely read and log measurements in real time, as well as create detailed custom PDF reports which can be saved and shared. Connecting your meters to a mobile device allows you to quickly collect data for further analysis, create graphs, and add information to customer reports. You can also use a phone or tablet as a remote screen in difficult to access areas, or to share findings with other people.

The App is available for iOS® devices from the App Store® and Android™ devices from Google Play™.

250W-Series Environmental Meters

Extech helps you expand your problem-solving capabilities, whether you're inspecting HVAC systems, checking outdoor UV conditions, or measuring energy from the electromagnetic/electrical fields of appliances and power lines. These environmental meters all communicate seamlessly with the new ExView® App over a Bluetooth® connection.

RH250W Hygro-Thermometer

Simultaneously monitor relative humidity and temperature from a mobile device

Compact hygro-thermometer with Bluetooth® connectivity allows to send air relative humidity and air temperature data directly to a mobile device.

AN250W Anemometer

Monitor air velocity and temperature data from a mobile device

Measure air velocity and temperature simultaneously, then record Max/Avg readings with this compact airflow meter.

LT250W Light Meter

Monitor light intensity data from a mobile device

This meter can measure light intensity up to 100,000 Lux (10,000 Fc) with a measuring rate of 0.5 sec.

SL250W Sound Meter

Monitor sound level data from a mobile device

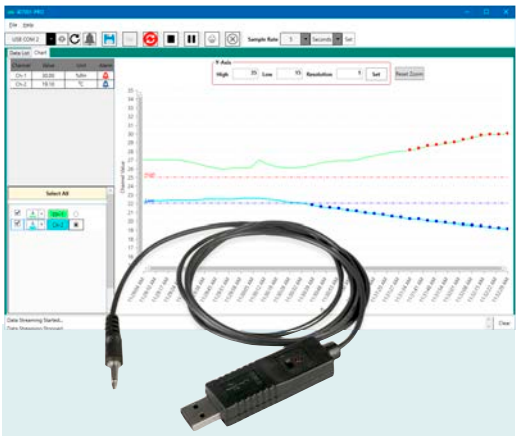
This compact sound meter allows building and maintenance professionals to measure sound levels from 30 to 130 dB with 'A' weighted frequency for human hearing, then record max/min readings.

RPM250W Laser Tachometer

Monitor state of rotational equipment from a mobile device

This compact laser tachometer allows maintenance professionals to take revolutions per minute (RPM) measurements from up to 500 mm (1.64 ft) using its laser-guided non-contact measurement feature.

407001-PRO Data Acquisition Software and Cable



Visit www.extech.com for a list of compatible meters

Convert specific Extech meters to a datalogger; Software allows user to live stream data from compatible meters to a PC based computer/laptop while storing the collected data for later use in generating a graph or report

- Enables user of specific Extech meters to capture, display, and store readings on a PC
- Programmable Sample Rates (max 6 hrs):
  Seconds: 1, 5, 10, 15, 30 secs / Minutes: 1, 5, 10, 15, 30 mins / Hours: 1, 2, 6 hrs
- View data as a list or on a chart and save as a CSV or TXT formatted file
- Import data into Notepad or Excel®
- Color code each channel for easy analysis with multi-channel meters
- User programmable High/Low alarms that will alert with red dots (above setpoint) or blue dots (below setpoint) on the graph
- Compatible with Windows® 7, 8, and 10
- Complete with Quick Guide for software and driver installation instructions and USB data cable

ORDERING	
407001-PRO	Data Acquisition Software and Cable
407001-USB	Replacement USB Data Cable and software driver

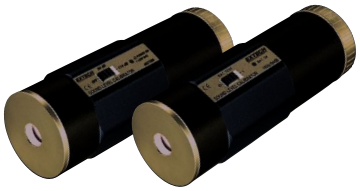
Unrivaled Selection

No one offers a better selection of sound level meters than Extech. With models for every application, capabilities include high ±1 dB accuracy meeting Class 2 compliance, PC connectivity, datalogging, octave band analyzer, ultra compact and wall-mounted designs, and personal dosimeters.

407730 Digital Sound Level Meter

Analog bargraph with 30 dB range updates every 40 ms

- ±2 dB accuracy with 0.1 dB resolution
- Analog AC output for connection to chart recorders and dataloggers
- Record MAX/MIN values over time
- Auto Power Off and MAX Hold functions
- Utilizes 0.5" (12.7 mm) condenser microphone
- Tripod mount for field use (tripod not included)
- Complete with microphone windscreen and four AAA batteries



ACCESSORIES (SEE P. 98 FOR SPECIFICATIONS)	
407744	94 dB Sound Calibrator (0.5", 1" microphones)
407766	94/114 dB Sound Calibrator (0.5", 1" microphones)

SPECIFICATIONS	407730
Range	40 to 130 dB
Basic Accuracy	±2 dB
Weighting (A&C)	Yes
Response Time (Fast/Slow)	Yes
Condenser Microphone	0.5" (12.7 mm)
Analog Output	AC
CE approved	Yes
Dimensions	9x2.2x1.7" (230x57x44 mm)
Weight	5.6 oz (160 g)

SL510 Class 2 Sound Meter

Ultra-compact sound meter meets Class 2 standards with ±1 dB high accuracy

- High accuracy meets Class 2 standards (IEC 61672-2013 and ANSI/ASA S1.4/Part 1)
- Backlit LCD to view in dimly lit area
- Data Hold and Min/Max functions
- Auto Power Off with disable
- Tripod mount for field use (tripod not included)
- Complete with microphone windscreen, wrist strap, and three AAA batteries

407732 Type 2 Sound Meter

Two range meter with backlit LCD display

- High accuracy meets Type 2 standards (ANSI S1.4-1983, IEC 60651, EN 60651)
- High & Low measuring ranges
- Data Hold and MAX Hold functions
- Backlit display to view in dimly lit area
- Complete with microphone windscreen and 9 V battery

407732-KIT Type 2 Sound Meter Kit

Digital sound level meter with 94 dB sound calibrator and carrying case

KIT includes:

- Model 407732 with high accuracy meets ANSI, and IEC Type 2 standards (see product features on the left)
- Sound Calibrator calibrates and verifies sound level meter operation
- Durable double molded housing
- Total Harmonic Distortion (THD) <2% at 94 dB
- Complete with 407732 Sound Meter, Sound Calibrator, and protective hard carrying case

SL510	407732	407732-KIT
35 to 130 dB	Low: 35 to 100 dB, High: 65 to 130 dB	Low: 35 to 100 dB, High: 65 to 130 dB
±1 dB @ 1 kHz (Class 2)	±1.5 dB (Type 2)	±1.5 dB (Type 2)
Yes	Yes	Yes
Yes	Yes	Yes
0.5" (12.7 mm)	0.5" (12.7 mm)	0.5" (12.7 mm)
—	—	—
Yes	Yes	Yes
6.6x1.8x1.2" (167x45x20 mm)	8.2x2.1x1.25" (210x55x32 mm)	Meter: 8.2x2.1x1.25" (210x55x32 mm)
5.6 oz (160 g)	8.1 oz (230 g)	Meter: 8.1 oz (230 g)

Sound Investment

Monitor and analyze outdoor, workplace and equipment sound levels to ensure OSHA compliance.

Record and Alarm LEDs and USB connectivity

407760 USB Sound Level Datalogger

High accuracy datalogging of up to 129,920 records

- Designed to meet ANSI and IEC 61672-2013 Class 2 standards
- USB interface for easy setup and data download
- Selectable data sampling rate
- Records readings with real time clock
- Two start methods: programmed (from PC) or manual
- Tripod mount (tripod not included)
- Complete with 3.6 V Lithium battery, Windows® compatible software, USB cover, tripod, and windscreen

ACCESSORIES	
407744	94 dB Sound Calibrator (0.5", 1" microphones)
407766	94/114 dB Sound Calibrator (0.5", 1" microphones)
407764-EXT	15 ft (4.7 m) Microphone Extension Cable (for 407780A)
USB100	RS-232 to USB adaptor
UA100-240	100-240 V AC Adaptor w/4 plugs (US, EU, UK, AU)

SPECIFICATIONS	407760
Range	30 to 130 dB
Basic Accuracy	±1 dB (Class 2)
Weighting (A & C)	Yes
Response Time (Fast/Slow)	Yes
Condenser Microphone	0.5" (12.7 mm)
Analog Output	—
PC Interface	Yes
Datalogging	129,920 Records
CE approved	Yes
Dimensions/Weight	5.1x1.1x0.9" (130x30x25 mm)/1 oz (20 g)

407750 Sound Level Meter with PC Interface

Big backlit display, PC interface & background sound absorber

- High accuracy meets Type 2 standards (ANSI S1.4-1983, IEC 60651, EN 60651)
- Background noise absorber for noise measurements with high ambient noise levels
- Large backlit display with analog bargraph
- Auto/Manual ranging and MIN/MAX readings
- Analog AC/DC outputs for connection to a recorder
- Tripod mount (tripod not included)
- Complete with microphone windscreen, 9 V battery and case

SDL600 Datalogging Sound Level Meter with SD Card

Datalogging capability using SD memory card

- ±1.4 dB accuracy
- Meets ANSI and IEC 61672-2013 Class 2 standards
- Auto or Manual ranging
- External data storage in Excel® format on an SD card (included) for easy transfer to a PC
- User programmable sampling rate from 1 to 3600 seconds
- Records readings with date and time stamp
- Internal memory stores 99 readings manually
- Min/Max, Peak Hold, and Data Hold functions
- Auto Power Off with disable capability
- Complete with SD Card, windscreen, 6 AA batteries, and hard carrying case; Optional AC Adaptor UA100-240

407780A Integrating Sound Level Datalogger with USB Interface

Leq and SEL measurements with built-in datalogger and PC interface

- Meets Class 2 standards (ANSI and IEC 61672-2013)
- Datalogs up to 32,000 records
- Programmable integrating time; Real time calendar/clock
- Linearity over wide range (100 dB)
- Display modes: SPL, SPL MIN/MAX, SEL, and Leq
- Impulse/Fast/Slow response time
- Analog and alarm output can be used to connect with Frequency analyzers and chart recorders
- Tripod mount (tripod not included)
- Complete with windscreen, adjustment screwdriver, USB cable, Windows® compatible software, battery, and case

407750	SDL600	407780A
30 to 130 dB	30 to 130 dB (3 ranges)	30 to 130 dB
±1.5 dB (Type 2)	±1 dB (Class 2)	±1 dB (Class 2)
Yes	Yes	Yes
Yes	Yes	Yes
0.5" (12.7 mm)	0.5" (12.7 mm)	Detachable 0.5" (12.7 mm)
AC/DC	AC	AC/DC
Yes	Yes	Yes
—	Datalogging using SD card	32,000 Records
Yes	Yes	Yes
10x3.1x1.5" (256x80x38 mm)/8.5 oz (240 g)	9.8x2.9x1.9" (250X73X48 mm)/18.3 oz (520 g)	10.4x2.8x0.8" (265x72x21 mm)/10.9 oz (310 g)

407790A Real Time 1/3 Octave Band Analyzer

Includes Windows® compatible software, USB cable, 4 x C batteries, microphone windscreen, mini screwdriver, Universal AC adaptor, and case

CE

Class 2 integrating sound level meter with Octave and 1/3 Octave Band Real Time display on 3.5" 320x240 TFT color backlit LCD

- Wide measurement in 5 ranges and stores readings on microSD card
- Transferred data to a PC to be analyzed using software and cable provided
- A, C and Z weighting with Fast or Slow response
- 25 Hz to 10 kHz frequency response
- Detachable 0.52" (13.2 mm) diameter condenser microphone and Tripod mount
- Real time clock with Year, Month, Day, Hour, Minute, and Second display
- Maintain noise level statistics for internal and external audits
- Optional 94/114 dB calibrator (see 407766 on p. 95 for details)

SPECIFICATIONS	
Applicable standards	IEC 61672-2013 and ANSI/ASA S1.4/Part 1), IEC 61260-1: 2014 Class 2, ANSI S1.11: 2004 Class 2, ANSI S1.43: 1997 Type 2
Accuracy	±1 dB (ref 94 dB @ 1 kHz)
Measurement range/function	30 dB to 130 dB / Lp, Leq, LE, Lmax, Lmin, L05, L10, L50, L90, L95
Frequency range	25 Hz to 10 kHz
Sound level meter display	Integrating SLM: Digital, 4 digits with bargraph
Real Time Analyzer display	Graphical, Bargraph with cursor
1/1- 1/3 Analyzer level range	5 ranges in 10 db steps: 20-90 dB, 20-100 dB, 20-110 dB, 30-120 dB, 40-130 dB
1/1 Octave & 1/3 Octave	1/1 Octave band center frequencies: (9 bands); 1/3 Octave band center frequencies: (27 bands)
Signal output	AC output: 1 Vrms (at full scale); DC output: 3.0 V, 25 mV/dB
Dimensions/Weight	13.6x3.9x2.4" (345x100x60 mm)/33.5 oz (950 g)

ORDERING	
407790A	Octave Band Sound Analyzer
407766	Sound Level Calibrator, 94/114 dB
407764-EXT	15 ft (4.7 m) Microphone Extension Cable

SL400 Personal Noise Dosimeter/Datalogger

CE

Measure total sound exposure over an 8-hour period

- Measures frequency weighted noise exposure and peak (C, Z) sound level
- Datalogs up to 999,999 readings when used as a sound level meter with sampling times between 1 second and 24 hours
- Sound level mode: displays sound level, min/max, time-averaged sound level (Leq), peak, and sound exposure level (SEL)
- Adjustable Criterion Level, Exchange Rate, & Threshold
- One user-defined measurement setup
- Optional 94 dB calibrator to perform “before” and “after” calibration checks
- USB interface with Windows® compatible software to control setup and retrieve stored events or analyze real-time measurements
- Includes belt clip, clip-on 0.5" (12.7 mm) microphone with 32" (81.3 cm) cable and windscreen, 9 V battery, software, USB cable, and carrying case

SPECIFICATIONS	
Ranges (A, C, Z)	30 to 90 dB, 50 to 110 dB; C, Z Peak: 70 to 140 dB/ C and Z Peak: 90 to 143 dB
Accuracy	±1 dB (Class 2)
Response/Exchange Rate	Fast, Slow, Impulse/ 3, 4, 5 or 6 dB
Bandwidth	20 Hz to 8 kHz
Memory	Dose: 10,000 points/SLM: 999,999 points
Criterion/Threshold Level	30 to 140 dB in 0.1 dB steps/30 to 140 dB in 0.1 dB steps
Measurement Modes	%Dose, Lxmax, Lxyp, Lxmin, Lxeq, SEL (LAE), PeakMAX, LAVG, TWA, LEP, LN% SPL, Lxmax, Lxyp, Lxmin, Lxeq, SEL (LAE) PeakMAX
Dimensions/Weight	4.2x2.6x1.3" (107x65x33 mm) - exclude connector on top/ 7 oz (198 g) include batteries and microphone cable

ORDERING	
SL400	Noise Dosimeter/Datalogger
407744	Sound Level Calibrator, 94 dB
407766	Sound Level Calibrator, 94/114 dB

SL130W Sound Level Alert with Alarm

Continuous monitoring of Sound Level — Built-in LEDs alert user when sound level is too high or too low

- Bright LEDs (red flashing or green) alert user when sound level is too high or too low – LEDs can be read from 30 m (100 ft)
- Ideal for hospital, auditoriums, schools and other areas where there is a need for being alerted when sound level reaches set point
- Meets ANSI Type 2 and EN IEC 60651 standards — compliant with OSHA
- Wall, desk or tripod mount (tripod not included)
- Adjustable high/low limit indication with output to drive user's external relay module
- Complete with universal AC adaptor and microphone windscreen

SPECIFICATIONS	
Display	4.6x3.125" (117x79 mm) multifunction LCD
Frequency bandwidth	31.5 Hz to 8 kHz
Microphone	0.5" Electret Condenser Microphone (detachable)
Measurement ranges	30 to 80 dB, 60 to 110 dB, 80 to 130 dB
Frequency weighting	'A' and 'C'
Response time	Fast: 125 ms/Slow: 1 s
Resolution	0.1 dB
Alarm output	3.5 mm Mono Phone Plug, Maximum: 3.4 mA @ 5 V DC
Minimum Output	Voltage: 2.5 V DC
Power	AC/DC Adaptor for full functions; 8xAA batteries for monitoring function only without LED alert
Dimensions/Weight	8.75x7.1x1.25"/0.63 lbs (22x18x3.2 cm/285 g)

ORDERING	
SL130W	Sound Level Alert
407766	Sound Level Calibrator, 94/114 dB

407744/407766 Sound Level Calibrators

Choice of 94 dB or combination 94 dB/114 dB, 1 kHz professional calibrator for 0.5" or 1.0" microphones

- Calibrates and verifies Sound Level Meter operation
- For use on Sound Level Meters with 0.5" (12.7 mm) or 1.0" (25.4 mm) microphones
- Total Harmonic Distortion (THD) <2% at 94 dB
- Meets IEC standard 60942 1997-11
- Durable die-cast aluminum housing
- Complete with two 9 V batteries, carrying case, and screwdriver

Model 407744

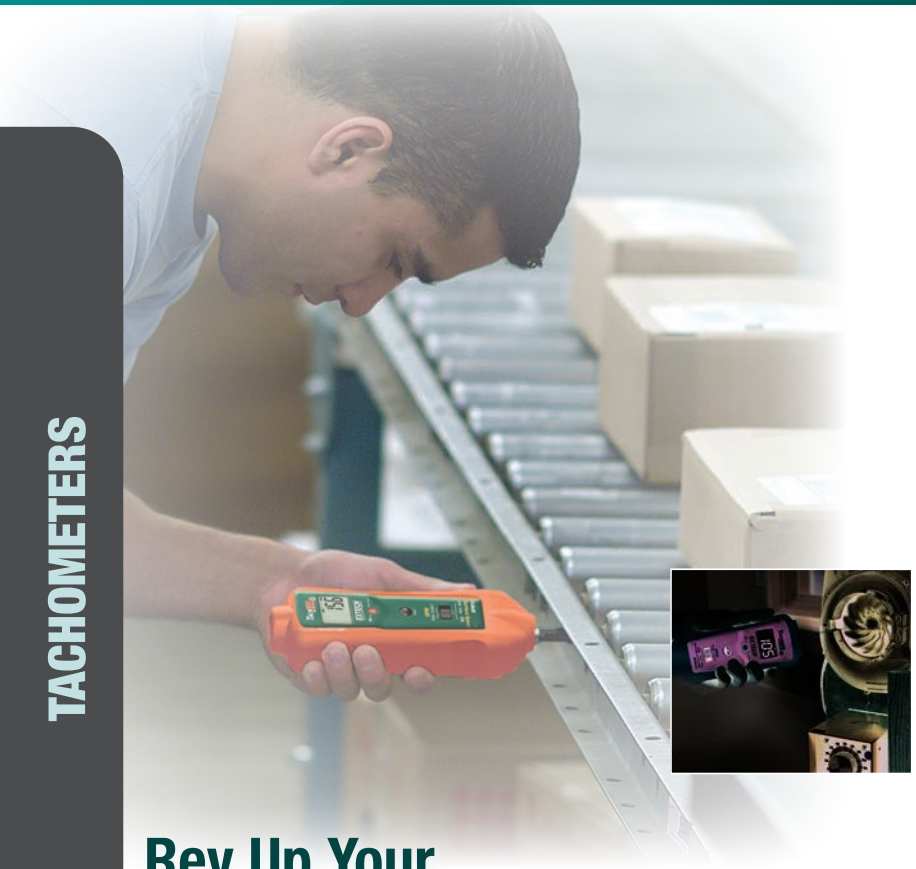
- Battery test position with battery status LED indicates if battery is good
- 1 kHz sine wave at 94 dB is generated to an accuracy of 5% (frequency) and ±0.5 dB

Model 407766

- LED indicator lights up when power is on
- Level position to select 94 dB or 114 dB
- 1 kHz sine wave at 94 dB/114 dB is generated to an accuracy of 5% (frequency) and ±0.5 dB (94 dB)/±1.0 dB (114 dB)
- 3 position switch (OFF/94 dB/114 dB)

SPECIFICATIONS	Range	Accuracy
Frequency	1000 Hz	±5%
Sound Pressure Level	Model 407744: 94 dB Model 407766: 94 dB/114 dB	±0.5 dB (94 dB), ±1 dB (114 dB)
Distortion	<2% Total Harmonic Distortion (THD)	
Operating Temperature	32 to 122°F (0 to 50°C)	
Power Consumption	Approx. 10 mA DC	
Dimensions/Weight	2.2" diameter x 5.6" long (50x127 mm)/0.75 lbs (340 g)	

ORDERING	
407744	Sound Level Calibrator, 94 dB
407766	Sound Level Calibrator, 94 dB/114 dB



Rev Up Your Diagnostics

Measure RPM, surface speed, and revolution counts with Extech tachometers. Models include contact, non-contact and combination, as well as compact, stroboscopes and panel-mount versions.

461937

461891 Contact Tachometer

Fast and accurate RPM and surface speed measurements

- Make contact measurements of rotating objects
- Measure linear surface speeds in ft/min or m/min using three accessory wheels provided
- Recalls Last/MAX/MIN values
- Complete with cone tip, flat tip and spare wheel for surface speed measurements, four 1.5 V AA batteries, and carrying case

ACCESSORIES	
461937	Reflective Tape -10 strips, 23x0.25" (584x6 mm) each strip

SPECIFICATIONS	461891
rpm	0.5 to 20,000 rpm
ft/min	0.2 to 6560 ft/min
m/min	0.05 to 1999.9 m/min
Basic Accuracy	±0.05% rdg
Max rpm Resolution	0.1 rpm
Laser	—
Temperature (IR)	—
CE approved	Yes
Dimensions	6.7x2.8x1.5" (170x27x37 mm)
Weight	9.2 oz (260 g)

461895 Combination Contact/Photo Tachometer

Combines both contact and non-contact measurements for use in all applications

- Uses visible light to read up to 6" (150 mm) from target
- Characters on display reverse direction depending on contact or photo mode
- Memory/readings button holds last reading for 5 min and recalls min/max readings
- Complete with wheels for linear surface speed or rpm measurements, four 1.5 V AA batteries, 23" (0.6 m) reflective tape, and carrying case

461995 Combination Contact/Laser Photo Tachometer

Combines both contact and non-contact measurements for use in all applications

- Laser guided for greater distance non-contact measurements up to 6.5 ft (2 m)
- Characters on display reverse direction depending on contact or photo mode
- Memory/readings button holds last reading for 5 min and recalls MAX/MIN readings
- Complete with wheels for linear surface speed or rpm measurements, four 1.5 V AA batteries, 23" (0.6 m) reflective tape, and carrying case

RPM10 Combination Laser Tachometer + IR Thermometer

Photo/Contact Tachometer includes a non-contact IR Thermometer for surface temperature measurements

- Built-in IR thermometer with laser measures remote surface temperature on motors and rotating parts
- Fixed 0.95 emissivity, 6:1 distance to target ratio
- Non-contact Photo tachometer uses a Laser for greater measuring distance up to 6.5 ft (2 m)
- Contact tachometer for RPM and surface speed measurements
- Recalls Last/MAX/MIN values
- Characters on display reverse direction depending on mode
- Complete with tips/wheel, four 1.5 V AA batteries, reflective tape, and carrying case

461895	461995	RPM10
Photo: 5 to 99,999 rpm Contact: 0.5 to 19,999 rpm	Photo: 10 to 99,999 rpm Contact: 0.5 to 19,999 rpm	Photo: 10 to 99,999 rpm Contact: 0.5 to 20,000 rpm
0.2 to 6560 ft/min	0.2 to 6560 ft/min	0.2 to 6560 ft/min
0.05 to 1999.9 m/min	0.05 to 1999.9 m/min	0.05 to 1999.9 m/min
±0.05% rdg	±0.05% rdg	±0.05% rdg
0.1 rpm	0.1 rpm	0.1 rpm
—	Yes	Yes
—	—	-4 to 600°F (-20 to 315°C)
Yes	Yes	Yes
8.5x2.6x1.5" (216x66x38 mm)	8.5x2.6x1.5" (216x66x38 mm)	8.5x2.6x1.5" (216x66x38 mm)
10.6 oz (300 g)	10.6 oz (300 g)	10.6 oz (300 g)

461920 Laser Photo Tachometer Counter

Measures the speed (RPM) of rotating objects and counts (revolution) of moving objects.

Non-contact RPM and Revolution count measurements to 99,999 rev

- Measure non-contact RPM readings of rotating objects by pointing the integral laser at the reflective tape placed on the object to be measured
- Large 5 digit LCD display with backlighting
- Rugged double molded housing with memory button for Last/MAX/MIN readings
- Complete with 9 V battery and reflective tape

SPECIFICATIONS	
RPM range	2 to 99,999 rpm
Count range	1 to 99,999 rev (revolution)
Target Distance	1.6 ft (500 mm)
Basic Accuracy	±0.05%
Resolution	0.1 rpm, 1 count
Dimensions/Weight	6.2x2.3x1.6" (160x60x42 mm)/5.3 oz (151 g)

ORDERING	
461920	Laser Photo Tachometer Counter
461937	Spare reflective tape (23" each strip), 10 pk

RPM33 Combination Contact/Laser Photo Tachometer

Contact
RPM measurement

Laser Photo
RPM measurement

Quickly measure RPM, surface speed and length with one tool. Use the contact wheel for up-close readings or laser mode for non-contact readings.

- Laser guided for greater distance non-contact measurements up to 1.6 ft (500 mm)
- Store/recall 10 data sets in memory with 4 parameters (measurement/max/min/avg)
- Large 5 digit backlit LCD display
- Microprocessor based with quartz crystal oscillator to maintain high accuracy
- Provides wide RPM (photo and contact) and Linear Surface Speed/Length (contact) measurements
- Complete with contact wheel, batteries, reflective tape, and case

SPECIFICATIONS	
Range (rpm)	Photo: 2 to 99,999 rpm; Contact: 2 to 20,000 rpm
Surface Speed	
inches/min	0 to 78,720 inches/min
ft/min	0 to 6560 ft/min
yards/min	0 to 2186 yards/min
m/min	0 to 2000 m/min
Length	
inches	3.9 to 39370"
feet	0.3 to 3280 ft
yards	0.1 to 1093 yards
meters	0.1 to 1000 m
Frequency (Hz)	333 Hz
Accuracy	0.05% rdg +1 digit
Sampling Time	0.5 Sec > 120 rpm
Resolution	0.1 rpm (<10,000 rpm); 1 rpm (>10,000 rpm)
Dimensions / Weight	6.2x2.3x1.6" (160x60x42 mm) -without contact wheel/5.3 oz (151 g)

ORDERING	
RPM33	Combination Contact/Laser Photo Tachometer
461937	Spare reflective tape (23" each strip), 10 pk

461825 Combination Photo Tachometer/Stroboscope

Stroboscope to analyze rotating objects and Tachometer to measure rpms

- Course and fine flash rate adjustments to freeze and analyze rotating objects
- Unique display characters that reverse direction depending on function mode
- Large 0.4" (10 mm) 5 digit LCD display and memory stores Last/MAX/MIN readings
- Complete with four 1.5 V AA batteries, reflective tape, and case

SPECIFICATIONS	PHOTO TACHOMETER (RPM)	STROBOSCOPE (FPM/RPM)
Range	5 to 99,999 rpm	100 to 100,000 fpm/rpm
Accuracy	±0.1% rdg	±0.1% rdg
Sampling Time	1 sec ≥ 60 rpm	1 sec ≥ 60 rpm
Resolution	0.1 rpm (<1,000 rpm), 1 rpm (≥1,000 rpm)	0.1 fpm (<1,000 fpm), 1 fpm (≥1,000 fpm)
Dimensions/Weight	8.5x2.6x1.5" (215x65x38 mm)/10.6 oz (300 g)	

Ordering	
461825	Combination Photo Tachometer/Stroboscope
461937	Spare reflective tape (23" each strip), 10 pk

461830 Digital StroboTach

Freeze motion and analyze rotating objects without contact

- Checks and analyzes motion and speed by simply aiming and synchronizing its flash rate (fpm) with a rotating object
- rpms on 4-digit LED display
- Flash/Speed Rate of 100 to 10,000 fpm/rpm; Basic accuracy of ±0.05% rdg
- Duty Cycle of 5 to 30 mins
- Tripod mount for stationary use
- Dimensions/Weight: 8.3x4.8x4.8" (211x122x122 mm)/2.2 lbs (1 kg)
- Complete with 6 ft (1.9 m) power cord and handle

ORDERING	
461830	Digital StroboTach 115 V AC, 60 Hz

461950 1/8 DIN Panel Tachometer

Continuous & accurate readings from 5 to 99,990 rpm

- Large LED display updates 1/sec (rpm<60)
- Unique design permits rpm measurements of a one hole gear or disk eliminating the need for special gears
- A pulse is measured when a ferrous object (stud) passes by a proximity sensor
- Works with PNP type proximity sensors and NPN type photo electric sensors

SPECIFICATIONS	
rpm	5 to 99,990 rpm
Basic accuracy	±0.05%
Resolution	0.1 rpm (5 to 1000 rpm), 1 rpm (1000 to 9999 rpm), 10 rpm (10,000 to 99,990 rpm)
Power	115 V or 230 V AC; 50/60 Hz
Dimensions/Weight	Bezel: 3.8x1.9x2.4" (96x48x60 mm); Panel cutout: 3.6x1.8" (92x45 mm) Meter: 3.6x3.5x1.7" (92x90x42 mm)/14 oz (397 g)
Sampling Time	1 sec>60 rpm, >1 sec>10 to 60 rpm
Dimensions/ Weight	4.9x2x1.3" (124x50x33 mm)/4 oz (114 g)

ORDERING	
461950	1/8 DIN Panel Mount Tachometer

PRC30 Multifunction Process Calibrator

Precision source and measure for thermocouples, mA, mV, and V devices

- Palm-sized double molded housing and large dot-matrix backlit LCD
- Measures DC process signals
- High accuracy calibration function simulates precision thermocouple outputs for use in calibrating thermometers, transmitters, controllers or recorders
- Up to five user adjustable calibration presets
- Displays output in terms of millivolts or temperature based on thermocouple tables
- 24 V Loop Power
- Zero adjustment, auto zero when power on and change mode
- Standard banana I/O ports and mini thermocouple inputs
- Large battery bank for extended work cycle
- External power adapter for continuous work cycle
- Complete with test leads, alligator clips, thermocouple calibration cable with subminiature connector, universal calibration cable with subminiature terminal, 100V-240 V AC Universal Adaptor with 4 plugs, six 1.5 V AA batteries, and hard carrying case

SPECIFICATIONS	DC SOURCE	DC MEASURE	BASIC ACCURACY
Current	0 to 24 mA, -25% to +125%	0 to 50 mA, -25% to +230%	±(0.01%+1 d)
Voltage	0 to 2000 mV, 0 to 20 V	0 to 1999 mV, 2 to 20 V	±(0.01%+1 d)
Type J	-58 to 1830°F (-50 to 1000°C)	-58 to 1830°F (-50 to 1000°C)	±(0.05%+1.8°F/1°C)
Type K	-58 to 2498°F (-50 to 1370°C)	-58 to 2498°F (-50 to 1370°C)	±(0.05%+1.8°F/1°C)
Type T	-184 to 752°F (-120 to 400°C)	-184 to 752°F (-120 to 400°C)	±(0.05%+1.8°F/1°C)
Loop Power	24 V		±(10 µV ± 1 d)
Max. Load	1000 Ω @ 24 mA		
Dimensions/Wt	6.3x3.2x1.7" (159x80x44 mm)/8.4 oz (236 g) - not including battery weight		

ORDERING	
PRC30	Multifunction Process Calibrator

PRC20 Multi-Type Thermocouple Thermometer/Calibrator

Source and measure 8 thermocouple type devices J, K, T, E, C, R, S, and N

- Palm-sized double molded housing and large dot-matrix digital backlit LCD with thermocouple type indication
- High accuracy calibration function simulates precision thermocouple outputs for use in calibrating thermometers, transmitters, controllers or recorders
- Displays output in terms of millivolts or temperature based on thermocouple tables
- Standard mini-thermocouple input
- Large battery bank for extended work cycle
- Up to five user adjustable calibration presets
- External power adapter for continuous work cycle
- Complete with thermocouple calibration cable with subminiature connectors, standard calibration cable with subminiature connectors, 100V-240 V AC Universal Adaptor with 4 plugs, 6 x 1.5 V AA batteries, and hard carrying case

SPECIFICATIONS	RANGE	BASIC ACCURACY
Type J	-58 to 1830°F (-50 to 1000°C)	±0.05% rdg ±1°
Type K	-58 to 2498°F (-50 to 1370°C)	±0.05% rdg ±1°
Type T	-184 to 752°F (-270 to 400°C)	±0.05% rdg ±1°
Type E	-58 to 1382°F (-50 to 750°C)	±0.05% rdg ±1°
Type C	32 to 3182°F (0 to 1750°C)	±0.05% rdg ±1°
Type R/S	32 to 3182°F (0 to 1750°C)	±0.05% rdg ±1°
Type N	-58 to 2372°F (-50 to 1300°C)	±0.05% rdg ±1°
Voltage	-10.00 mV to +60.00 mV	10 µV ±1 d
Dimensions/Wt	6.3x 3.2x1.7" (159x80x44 mm)/8 oz (225 g) - not including battery weight	

ORDERING	
PRC20	Thermocouple Thermometer/Calibrator

PRC10/PRC15 Current & Voltage Calibrators/Meters

"Source" for calibrating process devices and measuring DC process signals

- Palm-sized double molded housing and large dot-matrix digital backlit LCD
- Measures DC process signals
- Standard banana I/O ports
- Large battery bank for extended work cycle
- Up to five user adjustable calibration presets
- External power adapter for continuous work cycle
- Each meter includes test leads, alligator clips, 100V-240 V AC Universal Adaptor with 4 plugs, six 1.5 V AA batteries, and hard carrying case

PRC10 Additional Features

- 0 to 24 mA (-25 to 125%)
- 24 V DC power source for 2-wire current loop

PRC15 Additional Features

- 0 to 24 mA (-25 to 125%)
- 0 to 20 V DC calibration source

SPECIFICATIONS		
Source	Output 0 to 24 mA current for loads up to 1000 ohms; Output 0 to 20 V (PRC15 only)	
Measure	0 to 50 mA current signal; 0 to 19.99 V (PRC15 only)	
Power/Measure	Provides power (24 V DC) to loop & measures current (PRC10 only)	
Input/Output	**Ranges and Display**	**Resolution**
	-25.0 to 125.0% (representing 0 to 24 mA)	0.1%
	0 to 19.99 mA	0.01 mA
	0 to 24.0 mA	0.1 mA
	0 to 1999 mV	1 mV
	0 to 20.00 V	10 mV
Accuracy	± 0.01% ±1 digit	
Dimensions/ Weight	6.3x3.2x1.7" (159x80x44 mm)/8.2 oz (232 g) - not including battery weight	

ORDERING	
PRC10	Current Calibrator/Meter
PRC15	Current & Voltage Calibrator/Meter

412355A Current & Voltage Calibrators/Meters

Precision "source" for calibrating process devices, measuring DC process signals from 0 to 24mA and 0 to 20V

- Large LCD display and touch keypad
- LCD displays readings in mA or as a % of the 0 to 24mA range or as mV in voltage ranges
- Five stored calibration values for fast calibrations
- Current + Voltage Calibrator provides adjustable 0 to 24mA and 0 to 20V calibration source
- Complete with 9V battery, calibration cable with spade lug terminals, carrying case, and 100V-240V AC Universal Adaptor (50/60Hz)

SPECIFICATIONS		
Source	Output 0 to 24mA current for loads up to 1000 ohms Output 0 to 20V	
Measure	0 to 50mA current signal, 0 to 19.99V	
Input/Output	**Ranges and Display**	**Resolution**
	-25.0 to 125.0% (representing 0 to 24mA)	0.1%
	0 to 19.99mA	0.01 mA
	0 to 24.0mA	0.1 mA
	0 to 1999mV	1 mV
	0 to 20.00V	10 mV
Accuracy	0.075% ±1 digit	
Power	9V battery or AC adaptor	
Dimensions/ Weight	3.8 x 4.2 x 1.8" (96 x 108 x 45mm) folded/ 12oz (340g)	

ORDERING	
412355A	Current & Voltage Calibrator/Meter

HDV700 Series High-Performance Videoscope

A versatile and lightweight professional videoscope

- View clear, bright images with a wide field-of-view on the 5" color capacitive touchscreen
- Capture both still images and videos
- Gain access to difficult-to-see components without disassembling equipment
- Simultaneously view live camera image and a saved image side by side on the display to easily compare changes since last inspection
- Record voice annotations and photo notes for advanced reports
- Efficiently manage your inspection data using the Session and Tag feature
- Make it easy for a second person to inspect with you by connecting the display to a monitor using the HDMI video output
- Inspect comfortably using the display stand and tripod mount (UNC ¼”-20)

Each kit is complete with a HDV700 Videoscope Screen, camera probe (model dependent on kit ordered), 32 GB Micro SD card, USB-A to USB-C cable, HDMI Type A to Type D cable, Li-ion rechargeable battery (built-in), and universal adapter

A range of small diameter and articulating camera probes are available to give you clear visibility of components from the 5-inch color touchscreen display.
*Sold separately, or as a kit

SPECIFICATIONS	
Display (Resolution)	5” color TFT (800 × 480)
Touchscreen (Backlight)	Capacitive touch (500 nits)
Image/Video Format	JPEG (1280 × 720)/MP4 (1280 × 720)
Video Output	Micro HDMI
Data Communication Interface	USB-C, Micro SD
Storage Capacity	Up to 64 GB micro SD (32 GB microSD included)
microSD included)	
Battery Type (Life)	Rechargeable 3.6 V Li-ion (5 hours)
Power	5 V, 3 A DC with universal adapters (US, EU, UK, AU)
Drop Test	1 m (3.28 ft)
IP Rating	Videoscope Screen: IP54 / Camera probe: IP67
Dimensions [W × H × D] / Weight	161.9 mm × 127.9 mm × 30 mm (6.38 in × 5.04 in × 1.18 in) / 705 g (1.55 lb)

ORDERING	
HDV710	Videoscope Kit with Semi-Rigid HD 5.5 mm × 1 m Camera Probe
HDV720	Videoscope Kit with Semi-Rigid Dual HD 4.9 mm × 1 m Camera Probe
HDV730	Videoscope Kit with HD Flexible 2-Way Articulating 3.9 mm × 1 m Camera Probe
HDV740	Videoscope Kit with Flexible 4-Way Articulating 6 mm × 1 m Camera Probe
HDV750	Videoscope Plumbing Kit with 28 mm Camera, 30 m Plumbing Spool and Probe Length Locator

BR450W Series Wireless Video Borescopes

BRW450-D

BRW450-A2

Designed for effortless inspection and diagnose with clarity and precision

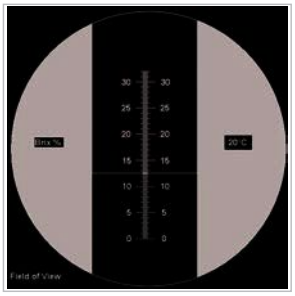
- Use Extech ExView app for iOS and Android on your mobile device to wirelessly stream and control the video borescope
- Gesture for zoom in/out, image rotation, and LED brightness control
- Identify, document, and share with side-by-side view, snapshots, and video / audio recording
- Versatile, rugged, lightweight, and reliable with IP67 probe rating
- Ideal for building inspections (HVAC, pipes, wiring, pest control), automotive diagnostics, and plant maintenance (valves, turbines, gearboxes)

SPECIFICATIONS	BR450W-D	BR450W-A2
Resolution Camera probe:	1280 × 720	1280 × 720
Diameter / Probe Length	5.5mm / 1.5m (5ft)	3.9mm / 1.5m (5ft)
Probe Flexibility	Semi-rigid	Semi-rigid
Direction of Camera View	Forward and side	Forward
Depth of Field camera:	Front 3-8 cm / Side 2-5 cm	1-10 cm
Field of View (FOV)	68°	90°
Video/Image Transfer	Wi-Fi (IEEE 802.11 b/g/n, 2.4Ghz)	Wi-Fi (IEEE 802.11 b/g/n, 2.4Ghz)
Frame Rate	30 fps	30 fps
Encapsulation	Main unit: IP54 / Camera probe: IP67	
Battery	3.7 V Li-ion battery with 5-hour operating time	
Operating Temperature	0°C to 50°C (32°F to 122°F)	
Drop Tested	1.5 m (5 ft)	
Certifications	FCC, CE, UKCA	
Tripod Mounting	UNC ¼”-20	

ORDERING	
BRW450-D	Wireless Dual HD Borescope
BRW450-A2	2-Way Articulating Wireless Borescope

RF Series Portable Brix Refractometers

Includes case, calibration screwdriver, and calibration solution



Measure sugar, salt or industrial cutting/cooling lubricant concentrations

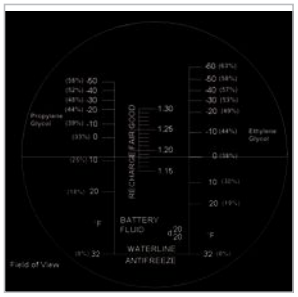
- Accurate, easy to operate refractometers with simple to read scales, requires only 2 or 3 drops of solution; Automatic Temperature Compensation
- The prism and lens with a simple focus adjustment provide repeatable results
- **Sucrose (RF11 and RF15):** Measure the concentration of sugar in fruit juice and industrial fluids
- **Brix (RF12):** Maintain proper lubricant cooling concentration to extend equipment life
- **Salinity (RF20):** Measures the concentration of dissolved salt in water

SPECIFICATIONS	TYPE	RANGES	RESOLUTION	ACCURACY
RF11	Sucrose (ATC)	0 to 10% (10 to 30°C)	0.1	±0.1%
RF12	Lubricants/Cutting fluids (ATC)	0 to 18% Brix (10 to 30°C)	0.2	±0.2%
RF15	Sucrose (ATC)	0 to 32% Brix (10 to 30°C)	0.2	±0.2%
RF20	Salt (ATC)	0 to 100 ppt (10 to 30°C) 1.000 to 1.070 Specific Gravity	1 ppt 0.001	±0.1‰ ±0.001

ORDERING	
RF11	0 to 10% Brix Refractometer w/ATC - Dims/Wt: 7.5x1.6x1.2" (190x40x30 mm)/6.5 oz (185 g)
RF12	0 to 18% Brix Refractometer w/ATC - Dims/Wt: 6.7x1.6x1.2" (170x41x31 mm)/3.2 oz (91 g)
RF15	0 to 32% Brix Refractometer w/ATC - Dims/Wt: 6.3x1.4x1.4" (159x35x35 mm)/7 oz (200 g)
RF20	Salinity Refractometer w/ATC - Dims/Wt: 7.6x1.5x1.5" (194x38x38 mm)/8 oz (227 g)

RF40/RF41 Battery Coolant/ Glycol Refractometer

Includes case, calibration screwdriver, and calibration solution



Measure the % of Ethylene Glycol and Propylene Glycol

- Measures the freezing point of automotive coolants plus battery charge condition
- Accurate measurements of % Ethylene Glycol, Propylene Glycol and Temperature
- Automatic Temperature Compensation; Requires only 2 or 3 drops of solution

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Propylene Glycol freeze point	RF40: -60°F (63%) to 32°F (12%) RF41: -50°C to 0°C	2°F (1%) 1°C	±5°F (2%)
Ethylene Glycol freeze point	RF40: -60°F (59%) to 25°F (16%) -51 to 0°C (-60 to 32°F) RF41: -50°C to 0°C	2°F (1%) 1°C/2°F 1°C	±5°F (2%)
Specific Gravity of Battery Acid	RF40/RF41: 1.15 to 1.30	0.01	
Dimensions/Weight	6.5x1.5x1.5" (165x38x38 mm)/7 oz (200 g)		

ORDERING	
RF40	Battery Coolant/Glycol Refractometer w/ATC (°F)
RF41	Battery Coolant/Glycol Refractometer w/ATC (°C)

SDL800 Vibration Meter/Datalogger

Datalogs readings with date/time stamps via SD card in Excel® format for easy transfer to a PC

- Wide frequency range of 10 Hz to 1 kHz
- Single Channel input; includes one vibration sensor
- RMS, Peak Value measurement modes
- Min/Max, Zero function, Max Hold, Data Hold and Auto Power Off
- Adjustable data sampling rate: 1 to 3600 seconds
- Complete with remote sensor, magnetic mount, 6 x AA batteries, SD card, and hard carrying case; Optional AC adaptor

SPECIFICATIONS	
Acceleration (max res)	656 ft/s² (1 ft/s²), 200 m/s² (0.1 m/s²), 20.39 g (0.01 g)
Velocity (max res)	7.87 in/s (0.01 in/s), 200 mm/s (0.1 mm/s), 19.99 cm/s (0.01 cm/s)
Displacement (max res)	0.078 in (0.001 in), 2 mm (0.001 mm)
Basic accuracy	±5%
Dimensions/ Weight	Meter: 7.2x2.9x1.9" (182x73x48 mm)/Meter: 1.3 lbs (599 g)

ORDERING	
SDL800	Vibration Meter/Datalogger
UA100-240	100-240 V AC Adaptor with 3 plugs (US, EU, UK, AU)

CE

407860 Heavy Duty Vibration Meter

Measure Velocity, Acceleration and Displacement

- Frequency range: 10 Hz to 1 kHz
- RMS or Peak Value measurement modes
- Auto/Manual store/recall up to 500 readings
- Max/Min, Data Hold and Auto Power Off functions
- Complete with remote sensor and 3.9 ft (1.2 m) cable, magnetic mount, 9 V battery, holster with stand, and carrying case

SPECIFICATIONS	
Acceleration (max res)	656 ft/s² (2 ft/s²) or 200 m/s² (0.5 m/s²)
Velocity (max res)	7.87 in/s (0.02 in/s) or 200 mm/s (0.5 mm/s)
Displacement (max res)	0.078 in (0.001 in) or 1.999 mm (0.001 mm)
Basic accuracy	±5%
Dimensions/ Weight	Meter: 7.1x2.9x1.3" (180x72x32 mm)/Meter: 0.87 lbs (395 g)

ORDERING	
407860	Vibration Meter/Datalogger

CE

VB450 Vibration Meter

Wide 10 Hz to 1500 Hz frequency range

- Velocity (RMS), Acceleration (Peak), and Displacement (Peak-to-Peak) modes
- Auto Power Off and low battery indicator
- Automatic data hold after measurement button is released
- Complete with remote sensor, magnetic mount, 9 V battery, wrist strap, and soft case

SPECIFICATIONS	
Acceleration (max res)	0.1 to 199.9 m/s² (0.1 m/s²)
Velocity (max res)	0.1 to 199.9 mm/s (0.1 mm/s)
Displacement (max res)	1 to 1999 µm (1 µm)
Basic accuracy	±5%
Dimensions/Weight	7.3x2.7x1.2" (185x68x30 mm)/8.1 oz (230 g)

ORDERING	
VB450	Vibration Meter

CE

VB400 Pen Vibration Meter

Includes both test pin tip and magnetic base

Measures RMS Acceleration and Velocity with metric and imperial units

- Ranges — Acceleration (RMS): 656 ft/s^2, 20.39 g, 200 m/s^2; Velocity (RMS): 7.87 in/s, 2.00 cm/s, 200 mm/s; Frequency: 10 Hz to 1 kHz
- Resolution to 1 ft/s^2; 0.01 g; 0.1 m/s^2 and 0.02 in/s; 0.01 cm/s; 0.1 mm/s
- Basic accuracy of ±5%
- Zero adjustment, Data Hold, and Low battery indicator
- Water and dust resistant to IP65
- Dimensions: Meter: 6.9x1.6x1.3" (175x40x32 mm); Weight: 0.53 lbs (240 g) Sensing Head: 0.4" dia x 1.9" (9 mm dia x 30 mm)
- Includes test pin tip, magnetic base, 4 x AAA batteries, and case

ORDERING	
VB400	Pen Vibration Meter

VB300 3-Axis G-Force Datalogger

Magnetized/Bolt-on Mounting Base

USB connector easily plugs into a computer for data analysis

Built-in 3-axis accelerometers record the shock and time when it occurs

- Measure and compute real-time spectral data using FFT
- Acceleration — Sampling Rate: 200 Hz, Range: ±18 g, Resolution: 0.00625 g, Accuracy: ±0.5 g; Bandwidth: 0 to 60 Hz
- Record storage, transport or operational data over time
- Record and time 3-axis shock and peaks
- Datalogs 168,042 normal recording records or 112,028 motion detection records per axis
- Choose X-, Y-, Z-axis or any combination (via software)
- Programmable data sampling rate: 50 mSec to 24 hours
- Manual/Programmable start modes and user-programmable alarm threshold
- Dimensions/ Weight: 3.7x1.1x0.8" (95x28x21 mm)/1 oz (20 g)
- Complete with Magnetized/Bolt-on Mounting Base, 3.6 V Lithium battery and Windows® compatible analysis software

ORDERING	
VB300	3-Axis G-Force Datalogger

TB400 Portable Turbidity Meter

Complete with all the accessories to conveniently test the turbidity of municipal water, food and beverage water, and other aqueous solutions where fluid clarity is important

- Microprocessor-based circuitry assures high accuracy and repeatable readings
- Requires only a 10 mL sample size; 2-point calibration
- Splash-proof front panel; Designed to meet ISO 7027
- Battery operated for field and on-site testing
- Data Hold, Min/Max record/recall, and Auto power off
- Complete with 0 NTU standard solution test bottle, 100 NTU standard solution test bottle, cleaning solution (distilled water), (2) test bottles and covers, cleaning cloth, six AAA batteries, and hard carrying case

SPECIFICATIONS	
Range (NTU)	0.00 to 50.00 NTU, 50 to 1000 NTU (Nephelometric Turbidity Unit)
Accuracy	±5% FS or ±0.5 NTU, whichever is greater
Light source	LED, 850 nm
Response Time	<10 seconds
Dimensions/ Weight	6.1x3.0x2.4" (155x76x62 mm)/11.3 oz (320 g)

Contact Extech or your local lab supply for refills on the standard solutions and reagents

ORDERING	
TB400	Turbidity Meter

ExStik® Series — Why Flat Surface Electrodes?

ExStik is the first waterproof stick meter with an interchangeable flat surface electrode. It measures pH, Chlorine, ORP, and Temperature and features built-in memory. The electrodes measure solids and semi-solids on flat surfaces, and in liquids.

ACCESSORIES	
PH105	pH ExStik® Electrode Module
PH115	Spare Refillable pH ExStik® Electrode Module
RE305	ORP ExStik® Electrode Module
CL205	Spare Chlorine electrode
CL203	ExTab™ Reagent tablets (10 pk - 100 tests)
CL207	Chlorine Standard (1 ppm) - 3 ampules (20 mL ea.)
PH103	Tripak Buffer pouches
PH4-P	pH 4 Buffer Solution (2 bottles - 1 pint each)
PH7-P	pH 7 Buffer Solution (2 bottles - 1 pint each)
PH10-P	pH 10 Buffer Solution (2 bottles - 1 pint each)
CA904	Large hard case for meter and accessories

PH100/PH110 Waterproof ExStik® pH Meters

Choose flat surface gel-filled or refillable pH electrode

- "RENEW" feature alerts user when electrode needs replacement
- "CAL" indicator alerts user to recalibrate
- Analog bargraph originates at neutral point (pH 7.00) to conveniently view trends in acidity or alkalinity
- 1, 2 or 3 point buffer calibration; ATC
- Records 15 labeled readings
- Waterproof housing (meets IP57)
- Interchangeable flat surface electrode; Optional RE305 electrode to measure ORP and CL205 to measure Total Chlorine
- Complete with protective sensor cap, sample cup with cap, four 3 V button batteries, and 48" (1.2 m) neckstrap; requires pH buffers sold separately
- **Model PH100** meter includes gel filled pH flat surface electrode
- **Model PH110** meter includes refillable flat surface pH electrode

SPECIFICATIONS	PH100 I PH110
pH	0.00 to 14.00 pH
ORP (mV)	—
Chlorine (ppm)	—
Temperature	23° to 194°F (-5 to 90°C)
Max Resolution	0.01 pH, 0.1°
Basic Accuracy	±0.01 pH, ±1.8°F/1°C
Memory	15 readings
CE approved	Yes
Dimensions/Weight	1.4x6.8x1.6" (35.6x172.7x40.6 mm)/3.8 oz (110 g)

RE300 Waterproof ExStik® ORP Meter

High resolution of 1 mV

- Measures ORP/Redox from -999 to 999 mV
- Automatic electronic self calibration
- Simulated analog bargraph displays change in ORP reading
- Memory stores 15 labeled data
- Waterproof to IP57 protects meter from wet environment
- Complete with flat surface ORP electrode, protective sensor cap, sample cup with cap, four 3 V button batteries and 48" (1.2 m) neckstrap

CL200 Waterproof ExStik® Chlorine Meter

Direct reading of Total Chlorine down to 0.01 ppm and is unaffected by color or turbidity of the sample

- Wide dynamic range to 10 ppm and low detection limit down to 0.01 ppm
- Unaffected by sample color or turbidity
- Automatic electronic calibration
- Memory stores 15 labeled readings
- Unique flat surface chlorine electrode eliminates any concerns for clogged junctions or glass breakage
- Waterproof to IP57 protects meter from wet environment
- Large LCD simultaneously displays ppm of Total Chlorine, Temperature and analog bargraph indicator
- Complete with flat surface Chlorine electrode, ExTab™ reagent tablets (50 tests), protective sensor cap, sample cup with cap, four 3 V button batteries, and 48" (1.2 m) neckstrap

EX900 Waterproof ExStik® 4-in-1 Kit

Complete kit allows you to measure Chlorine, pH, ORP, and Temperature with all the necessary accessories

- One meter with three interchangeable flat surface electrodes to measure Chlorine, pH or ORP
- Measure in liquids, semi-solids and solids
- Memory stores and recalls 15 readings and saves last calibrated value
- Automatic electronic self calibration for Chlorine and ORP; 1, 2 or 3 point buffer calibration for pH
- Waterproof to IP57 protects meter from wet environment
- Direct reading of Total Chlorine from low detection limit; Unaffected by sample color or turbidity
- See PH100, RE300, and CL200 for complete features and specification
- Complete with CL200 Chlorine ExStik® meter, flat surface pH electrode, flat surface ORP electrode, ExTab™ reagent tablets (50 tests), pH 4, 7 & 10 buffer solutions (20 mL) and rinse solution, weighted base with 6 sample plastic cups with caps, four 3 V CR2032 button batteries, 48" (1.2 m) neckstrap, and case

RE300	CL200	EX900
—	—	0.00 to 14.00 pH
-999 to 999 mV	—	-999 to 999 mV
—	0.01 to 10.00 ppm	0.01 to 10.00 ppm
—	23° to 194°F (-5 to 90°C)	23° to 194°F (-5 to 90°C)
1 mV	0.01 ppm; 0.1°F/°C;	0.01 pH, 1 mV, 0.01 ppm, 0.1°
±4 mV	±10% of reading ±0.01 ppm; ±1.8°F/±1°C	±0.01 pH, ±4 mV, ±10% of reading ±0.01 ppm; ±1.8°F/±1°C
15 readings	15 readings	15 readings
Yes	Yes	Yes
1.4x6.8x1.6" (35.6x172.7x40.6 mm)/3.8 oz (110 g)	1.4x6.8x1.6" (35.6x172.7x40.6 mm)/3.85 oz (110 g)	Meter: 1.4x6.8x1.6" (35.6x172.7x40.6 mm)/3.85 oz (110 g)

Save Time and Money

Value Kits allow you to measure multiple water quality parameters and provide all of the necessary accessories including calibration solutions, buffers, sample cups, batteries and a carrying case to store everything.

ACCESSORIES	
EC405*	ExStik® II Conductivity Cell Module for EC400
EC505*	ExStik® II pH/Conductivity Cell Module for EC500
EC-84-P	84 µS Conductivity Standard (2 bottles/1 pint ea)
EC-1413-P	1413 µS Conductivity Standard (2 bottles/1 pint ea)
PH103	Tripak pH Calibration Buffer pouches
EX050	16 ft (5 m) Extension Cable w/Probe Guard/Weight
CA904	Large hard case for meter and accessories

*ExStik® II electrode modules are not interchangeable with ExStik® pH/ORP/Chlorine meters

PH90 Waterproof pH Meter

Flat surface electrode for measuring pH in liquids, semi-solids, and solids

- Rugged replaceable flat surface pH electrode for quick on-the-spot pH measurements
- Simultaneous display of pH and Temperature
- 2 or 3 point calibration automatically recognizes buffer solutions (pH buffers required - sold separately)
- PTS (percent of slope) tells you when it's time to replace your electrode (below 70% or above 130%)
- Automatic Temperature Compensation
- Data Hold, Min/Max, Auto Power Off, and low battery indication
- Waterproof design (IP57) floats in water and protects the meter in wet environment
- Complete with flat surface pH electrode, protective sensor cap, and two 3 V CR-2032 button batteries

SPECIFICATIONS	PH90
pH	0.00 to 14.00 pH
Conductivity	—
TDS/Salinity/Fluoride	—
Temperature	32° to 194°F (0 to 90°C)
Max. Resolution	0.01pH, 0.1°
Basic Accuracy	±0.01 pH, ±1.8°F/1°C
CE approved	Yes
Dimensions	1.4x6.7x1.4" (36x170x36 mm)
Weight	3 oz (85 g)

EC400 Waterproof ExStik® II* Conductivity Meter

4-in-1 multi-range sensor for measuring Conductivity, TDS, Salinity & Temperature

- Analog bargraph indicates trends
- Adjustable Conductivity to TDS ratio from 0.4 to 1.0
- 0.5 fixed Salinity ratio
- Data Hold, Auto Power Off, Low battery indicator
- Memory stores 25 labeled data
- Waterproof to IP57 protects meter from wet environment
- Complete with Conductivity/TDS electrode, sensor cap, sample cup with cap, four 3 V CR2032 batteries, and 48" (1.2 m) neckstrap. Order Conductivity standards separately (see Accessories chart on the left).

EC500 Waterproof ExStik® II* pH/ Conductivity Meter

5-in-1 multi-range sensor for measuring pH, Conductivity, TDS, Salinity, and Temperature

- RENEW feature tells user to replace electrode
- Analog bargraph indicates trends
- Adjustable Conductivity to TDS ratio from 0.4 to 1.0
- 0.5 fixed Salinity ratio
- Data Hold, Auto Power Off, Low battery indicator
- Memory stores 25 labeled data
- Waterproof to IP57 protects meter from wet environment
- Complete with combination pH/ Conductivity/TDS electrode, sensor cap, sample cup with cap, four 3 V CR2032 batteries, and 48" (1.2 m) neckstrap. Order Conductivity standards and pH Calibration buffers separately (see Accessories chart on the left).

EC510 ExStik® II* pH/Conductivity Kit

Measures pH, Conductivity, TDS, Salinity, and Temperature using a combination electrode

- Kit includes: EC500 ExStik II pH/ Conductivity/TDS/Salinity/Temperature meter with combination electrode module, 84 µS, 1413 µS, 12880 µS calibration standards, pH buffer pouches (1 each of 4, 7, 10 pH plus rinse solution), weighted base, three sample cups with caps, four 3 V CR2032 batteries, neckstrap, and carrying case
- See EC500 on the left for more details on the meter

EC400	EC500	EC510
—	0.00 to 14.00 pH	0.00 to 14.00 pH
0 to 199.9 µS, 200 to 1999 µS, 2.00 to 19.99 mS	0 to 199.9 µS, 200 to 1999 µS, 2.00 to 19.99 mS	0 to 199.9 µS, 200 to 1999 µS, 2.00 to 19.99 mS
TDS/Salinity: 0 to 99.9 ppm (mg/L), 100 to 999 ppm (mg/L), 1.00 to 9.99 ppt (g/L)	TDS/Salinity: 0 to 99.9 ppm (mg/L), 100 to 999 ppm (mg/L), 1.00 to 9.99 ppt (g/L)	TDS/Salinity: 0 to 99.9 ppm (mg/L), 100 to 999 ppm (mg/L), 1.00 to 9.99 ppt (g/L)
32° to 149°F (0 to 65°C)	23° to 194°F (-5 to 90°C)	23° to 194°F (-5 to 90°C)
0.1 µS, 0.1 ppm (mg/L), 0.01 pH, 0.1°F/°C	0.1 µS, 0.1 ppm (mg/L), 0.01 pH, 0.1°F/°C	0.1 µS, 0.1 ppm (mg/L), 0.01 pH, 0.1°F/°C
±2% FS, ±0.01 pH, ±1.8°F/1°C	±2% FS, ±0.01 pH, ±1.8°F/1°C	±2% FS, ±0.01 pH, ±1.8°F/1°C
Yes	Yes	Yes
1.4x6.8x1.6" (35.6x172.7x40.6 mm)	1.4x6.8x1.6" (35.6x172.7x40.6 mm)	1.4x6.8x1.6" (35.6x172.7x40.6 mm)
3.8 oz (110 g)	3.8 oz (110 g)	3.8 oz (110 g)

CL200 ExStik® Waterproof Chlorine Meter

Complete with meter and flat surface Chlorine electrode, ExTab™ reagent tablets (50 tests), protective sensor cap, sample cup with cap, four 3 V button batteries, and 48" (1.2 m) neckstrap

Direct reading of Total Chlorine down to 0.01 ppm and is unaffected by color or turbidity of the sample

- Direct reading of Total Chlorine provides fast and easy measurements
- Wide dynamic range to 10 ppm and low detection limit down to 0.01 ppm
- Unaffected by sample color or turbidity
- Automatic electronic calibration
- Memory stores 15 labeled readings
- Unique flat surface chlorine electrode eliminates any concerns for clogged junctions or glass breakage
- Waterproof to IP57
- Large LCD simultaneously displays ppm of Total Chlorine, Temperature and analog bargraph indicator

SPECIFICATIONS	
ppm	0.01 to 10.00 ppm
Temperature	23° to 194°F (-5 to 90°C)
Resolution	0.01 ppm; 0.1°F/°C
Basic accuracy	±10% of reading ±0.01 ppm; ±1.8°F/±1°C
Dimensions/ Weight	1.4x6.8x1.6" (35.6x172.7x40.6 mm)/3.85 oz (110 g)

ORDERING	
CL200	ExStik® Chlorine Meter
CL205	Spare Chlorine electrode
CL207	Chlorine Standard (1 ppm) - 3 ampules (20 mL ea.)

FL700 ExStik® II* Fluoride Meter

FL704 FL705

Includes flat surface electrode, cap, TISAB reagent tablets, four 3 V button batteries, and 48" (1.2 m) neckstrap

Direct reading of Fluoride from 0.1 ppm to 10 ppm with ATC; Waterproof IP57

- First Fluoride meter with built-in Automatic Temperature Compensation
- Fast response Fluoride meter (<1 min)
- Measures Temperature from 32 to 140°F (0 to 60°C)
- 0.1 ppm, 0.1 max resolution and ±3.0% basic accuracy
- Small sample/TISAB volume required for testing (10 mL)
- In compliance with EPA Method 340.2. (Potentiometric Ion Selective Electrode)
- Automatic electronic 1 or 2 point calibration with offset adjustment
- Memory stores 25 labeled data
- Dims: 1.4x6.8x1.6" (35.6x172.7x40.6 mm); Wt: 3.8 oz (110 g)

ORDERING	Contact Extech or your local lab supply for Fluoride calibration standards
FL700	ExStik® II Fluoride Meter
FL705	ExStik® II Fluoride Module for FL700
FL704	TISAB reagent tablets for FL700 (100 tablets)

DO600 ExStik® II* Dissolved Oxygen Meter

DO600-K Kit available shown above. Includes DO600 meter, DO603 membrane kit

Easy to replace screw-on membrane cap

- Displays Oxygen level Saturation (0 to 200.0%) or Concentration (0 to 20.00 mg/L [ppm]) and Temperature 32 to 122°F (0 to 50°C)
- Max resolution: 0.1%, 0.01 ppm, 0.1°;
  Basic accuracy: ±2.0% FS, ±0.4 ppm (mg/L), ±1.8°F/1°C
- Adjustable Altitude Compensation (0 to 20,000 ft) in 1,000 ft increments
- Adjustable Salinity Compensation from 0 to 50 ppt
- Analog bargraph display; Self calibration on power up
- Memory stores 25 labeled data; Waterproof to IP57
- **Model DO600** meter includes DO electrode, sensor cap, spare membrane cap, electrolyte, four 3 V CR2032 batteries, and 48" (1.2 m) neckstrap
- **Model DO600-K** Kit shown on the left

ORDERING	
DO600	ExStik® II Dissolved Oxygen Meter
DO600-K	ExStik® II Dissolved Oxygen Kit
DO605	ExStik® II Dissolved Oxygen Module for DO600
DO603	Membrane Kit for DO600/DO605

**ExStik® II electrode modules are not interchangeable with ExStik® pH/ORP/Chlorine meters*

EC150/EC170 Conductivity/TDS/Salinity Meters

EC150 (Conductivity/TDS)

EC170 (Salinity)

Includes sensor with cap and four LR44 button batteries; Order Conductivity standards separately (required for calibration)

Waterproof meters with one high accuracy multi-ranging sensor

- Units of measure (model dependent) include µS/cm, mS/cm, ppm, ppt, °F, and °C
- Large 3-1/2 digit (2000 count) LCD display
- Data Hold, Low battery indication, and Auto Power Off with disable
- Adjustable Automatic Temperature Compensation (ATC)
- Waterproof design to withstand wet environment – meets IP65 standard

Model EC150 Additional Features

- Measures Conductivity, TDS and Temperature
- Adjustable Conductivity to TDS ratio factor from 0.4 to 1.0 (calculates the TDS value)
- Two ranges for Conductivity and TDS with one point calibration per range

Model EC170 Additional Features

- Measure Salinity in aquaculture, environmental studies, ground water, Koi ponds, irrigation, drinking water, and other applications
- Autoranging meter offers 2 ranges of measurement
- Built-in NaCl Conductivity to TDS conversion factor
- Fixed Temperature Coefficient and Normalization Temperature
- One calibration point per range

SPECIFICATIONS			
Conductivity (EC150 only)	0 to 1999 µS/cm (0 to 19.99 mS/cm)	1 µS/cm (0.01 mS/cm)	±1% FS
TDS (EC150 only)	0 to 1999 ppm (0 to 19.99 ppt)	1 ppm (0.01 ppt)	±1% FS
Salinity (EC170 only)	0 to 10.00 ppt (10.1 to 70.0 ppt)	0.01 ppt (0.1 ppt)	±2% FS
Temperature	32° to 122°F (0 to 50°C)	0.1°F/°C	±0.9°F/0.5°C
Dimensions/Weight	6.5x1.4x1.3" (165x35x32 mm)/3.8 oz (110 g)		

ORDERING	
EC150	Conductivity/TDS Meter
EC170	Salinity Meter
EC-84-P	84 µS Conductivity Standard (2 bottles/1 pint each)
EC-1413-P	1413 µS Conductivity Standard (2 bottles - 1 pint each)

ExStik® Replacement pH, ORP, and Chlorine Electrode Modules

PH105 CL205 RE305

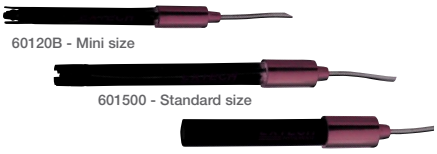
Flat surface pH, Chlorine, and ORP electrode modules

Interchangeable pH, ORP, and Chlorine sensor modules for ExStik® series meters (PH100, PH110, CL200, RE300)

- ATC via built-in Pt-100 Ω sensor (PH105, PH115, and CL205)
- Note: The PH105, CL205 and RE305 replacement modules are not interchangeable with ExStik® II meters (EC400, EC500, DO600, and FL700)

ORDERING	
PH105	pH ExStik® Electrode Module
PH115	pH ExStik® Electrode Module
CL205	Chlorine ExStik® Electrode Module
RE305	ORP ExStik® Electrode Module

pH Electrodes



60120B - Mini size

601500 - Standard size

601100 - Flat Surface

Choice of Standard or Specialized electrodes with Ag/AgCl gel-filled (fast response: 95% in 5 sec)

- **Models 60120B and 601500** — General purpose pH/Ref electrodes Rugged, polycarbonate construction features glass pH sensing bulb surrounded by protective teeth. pH range (0 to 14 pH), operating temperature (0 to 80°C). Choice of Mini or Standard size.
- **Model 601100** — Flat surface electrode (Easy to clean)
  PVC bodied electrode, ideal for pH of solid products with
  minimal moisture like cheese, soils or electrophoretic/agar gels. pH range (0 to 14 pH), operating temperature (5 to 80°C).

ORDERING	
60120B	Mini pH Electrode (10x120 mm)
601500	Standard pH Electrode (12x160 mm)
601100	Flat Surface pH Electrode (15x106 mm)

pH Buffers

Convenient calibration solutions for your pH meter

- Easy to use, already made fresh pH buffers for calibration
- Helpful table shows what the pH value should be vs. the temperature of the buffer solution measured
- Rinsing solution used for cleaning off the pH electrode before and after taking the next measurement from a different solution to prevent contamination
- Convenient pouch eliminates the need for a cup to store buffer or rinsing solution
- PH103 contains 6 pouches of each buffer (pH 4.00, 7.00, and 10.00), plus 2 Rinsing solutions
- Pint size pH buffer solutions available (PH4-P, PH7-P, and PH10-P)

ORDERING	
PH4-P	pH 4 Buffer Calibration Solution (2 bottles - 1 pint each)
PH7-P	pH 7 Buffer Calibration Solution (2 bottles - 1 pint each)
PH10-P	pH 10 Buffer Calibration Solution (2 bottles - 1 pint each)
PH103	Tripak Buffer pouches (6ea: 4, 7, 10 pH, 2 Rinse solutions)

For Rugged, Accurate Results

Extech field-tested lab instruments are fast-responding tools designed to deliver accurate and repeatable readings with waterproof and datalogging models available.

ACCESSORIES	
60120B	Mini pH Electrode (10x120 mm)
601500	Standard pH Electrode (12x160 mm)
601100	Flat Surface pH Electrode (15x106 mm)
6015WC	Waterproof pH Electrode with cable for PH220
PH305	Spare pH Electrode for PH300
PH4-P	pH 4 Buffer Solution (2 bottles - 1 pint each)
PH7-P	pH 7 Buffer Solution (2 bottles - 1 pint each)
PH10-P	pH 10 Buffer Solution (2 bottles - 1 pint each)
PH103	Tripak Buffer pouches (see photo above)
850185	RTD Stainless Steel Temperature Probe for the Oyster
UA100-240	100-240 V AC Adaptor w/4 plugs (US, EU, UK, AU)

PH220-C Waterproof Palm pH/Temp Meter

Large LCD display in rugged housing with cabled pH Electrode

- Displays pH and Temperature simultaneously
- Automatic Buffer recognition
- Automatic Temperature Compensation via PT-100 sensor built into electrode
- Low Battery indicator and Auto Power Off
- Waterproof housing (meets IP57)
- Rugged design for handheld or wall mount (magnetic back)
- Complete with waterproof meter, ATC pH polycarbonate electrode (12 mm diameter) with 39" (1 m) cable, protective holster, pH 4 & 7 buffers (1 pouch ea.), and 9 V battery

SPECIFICATIONS	PH220-C
pH	0.00 to 14.00 pH
mV	—
Temperature	32° to 212°F (0 to 99.9°C)
Max Resolution	0.01 pH, 0.1°
Basic Accuracy	±0.01 pH, ±0.8°F/0.5°C
Memory	—
Dimensions/ Weight	4.4x3.1x1.5" (111x79x39 mm)/9.2 oz (260 g)

Meter/accessories packaged in hard case

PH300 Waterproof pH/Temperature Kit

Measures pH, mV, and Temperature

- Automatic calibration (4, 7, and 10 pH)
- Choice of 3 point calibration for better accuracy
- Automatic Temperature Compensation
- Memory stores up to 200 labeled readings
- Waterproof housing (meets IP57)
- Large blue backlit dual LCD displays both pH and Temperature readings
- Auto Power Off with disable function
- Complete with pH/mV/Temperature electrode, pH calibration solutions (4, 7, and 10 pH), 2 AA batteries, and hard carrying case

OYSTER-15 Oyster™ Series pH/ORP/Temp Kit

Exclusive Oyster™ design can be used in the lab or in the field

- Large LCD built into adjustable "flip-up" cover displays pH or mV and Temperature simultaneously
- Convenient neckstrap holds meter while you take measurements
- Records 25 labeled readings
- Min/Max mode; Auto or Manual Temperature compensation (ATC/MTC)
- Self diagnostics display codes
- Auto Power Off
- 5 point buffer recognition with adjustable buffer values
- Kit includes OYSTER-10 meter, neckstrap, 9 V battery, 60120B mini pH electrode, sample buffers (4 and 7 pH), and carrying case
- Optional ORP electrode (67500B), RTD Temperature probe (850185) and Universal AC Adaptor (UA100-240)

Includes SD memory card

SDL100 pH/ORP/ Temperature Datalogger

Datalogger date/time stamps and stores readings on a SD card in Excel® format for easy transfer to a PC

- ATC or Manual Temperature Compensation
- 3 point calibration ensures the best linearity and accuracy
- Selectable data sampling rate: 1 second to 8 hrs:59 min:59 sec
- Manually store/recall up to 99 readings
- Large backlit dual LCD
- Record/Recall MIN, MAX readings
- Data Hold plus Auto Power Off with disable function
- Built-in PC interface
- Complete with 6 x AA batteries, SD card, sample buffers, mini pH electrode (60120B), temperature probe (850188), and hard carrying case; Optional Universal AC Adaptor UA100-240

PH300	OYSTER-15	SDL100
-2.0 to 19 pH	0.00 to 14.00 pH	0 to 14 pH
-1999 mV to 1999 mV	-999 to 999 mV	-1999 mV to 1999 mV
32 to 212°F (0 to 100°C)	32° to 212°F (0 to 99.9°C) — with temperature probe	32 to 149°F (0 to 65°C)
0.01 pH, 1 mV, 0.1°	0.01 pH, 1 mV, 0.1°	0.01 pH, 1 mV, 0.1°
±0.02 pH, ±0.15 mV, ±1°F/0.5°C	±0.02 pH, ±2 mV, ±0.8°F/0.5°C	±0.02 pH, ±0.5% mV, ±1.8°F/1°C
200 readings	25 readings	SD Card included
4.7x2.6x1.2" (120x65x31 mm)/6.3 oz (180 g)	3.7x4.2x2" (94x107x51 mm)/12 oz (340 g)	7.2x2.9x1.9" (182x73x48 mm)/16 oz (455 g)

Ensuring Water Quality

Extech offers water quality testing tools. Find Extech on the job in wastewater treatment facilities, water treatment, industrial systems (boiler water systems, cooling towers, cooling systems, closed loops), alternative farming (hydro-/aeroponics), fish farming, lab testing, pool maintenance, R&D, and more.

ACCESSORIES	
EC-84-P	84 µS Conductivity Standard (2 bottles - 1 pint each)
EC-1413-P	1413 µS Conductivity Standard (2 bottles - 1 pint each)
EC210-P	Replacement Conductivity/TDS Cell for EC210
EC605	Spare Polymer Conductivity Cell for EC600
804010A	Polymer Conductivity Cell for 341350A-P
PH305	Spare pH Electrode for EC600
60120B	Spare Mini pH Electrode for 341350A-P
67500B	ORP Electrode (13x154 mm)
UA100-240	100-240 V AC Adaptor with 4 plugs (US, EU, UK, AU)
850190	Thermistor Probe (32 to 194°F/0 to 90°C) for 341350A-P
PH701	Replacement PH Probe For EC700
EC701	Replacement Conductivity Probe F
DO701	Replacement Optical DO Probe

SPECIFICATIONS
Conductivity
TDS/Salinity
pH
mV
Temperature
Max. Resolution
Basic Accuracy
CE Approved
Dimensions

EC210 Compact Conductivity/TDS Meter

Adjustable Temperature compensation factor to maintain accuracy

- Simultaneous display of Conductivity or TDS with Temperature
- Automatic Temperature Compensation
- Temperature compensation factor adjustable between 0 to 5.0% per °C
- Min/Max and Data Hold functions
- Auto Power Off with disable feature
- Use optional 1413 µS Conductivity Standard (EC-1413-P) for calibration
- Complete with Conductivity cell and 39" (1 m) cable, 9 V battery, and soft case

IP57 Waterproof Dustproof

Meter/accessories packaged in hard case

EC600 Waterproof pH/ ORP/Conductivity/ TDS Kit

Measures Conductivity, TDS, Salinity, Resistivity, pH, mV and Temperature

- Waterproof housing (meets IP57)
- Choice of 3 point pH calibration
- One point Conductivity calibration – automatically recognizes 8 calibration solutions
- Automatic Temperature Compensation (non-linear compensation for purified water <10 µS/cm to improve measuring accuracy)
- Memory stores up to 300 labeled readings
- Large blue backlit dual LCD display
- Auto power off with disable function
- Complete with pH/mV/Temperature electrode, polymer Conductivity cell, pH calibration solutions (4, 7, and 10 pH), Conductivity calibration solution (1413 µS), 2 AA batteries, and hard carrying case

Interchangeable probes

EC700 6-in-1 Water Quality Meter with 3 Probes

Measures pH, conductivity, TDS, salinity, and dissolved oxygen

- Large LCD display shows multiple readings at once
- Optical DO probe benefits include reduced maintenance, no oxygen consumption and no minimum inflow
- Rugged and waterproof (IP67)
- Stores and recalls 99 readings to document trends and changes
- Compensation for temperature, pressure and salinity

EC210	EC600	EC700
2000 µS/cm, 20 mS/cm, 100 mS/cm	0.00 to 199.9 mS	0 to 199.9uS/cm, 0 to 1999 uS/cm, 0 to 19.99 mS/cm, 0 to 150.0mS/cm
1200 ppm, 12,000 ppm, 66,000 ppm	0 to 100 g/L	0 to 199.9*f ppm, 0 to 1999*f ppm, 0 to 19.99*f ppt, 0 to 150.0*f ppt TDS f factor 0.30 to 1.00
—	-2 to 19 pH	2.00 to 12.00 pH
—	-1999 mV to 1999 mV	—
32 to 122°F (0 to 50°C)	pH/mV: 32 to 212°F (0 to 100°C); Other: 32 to 122°F (0 to 50°C)	-5°C to 60°C (23°F to 138°F), DO probe: -5°C to 50°C (23°F to 122°F)
1 µS/cm, 0.01 mS/cm, 0.1 mS/cm, 1 ppm 10 ppm, 100 ppm, 0.1°F/°C	0.01 pH, 1 mV, 0.01 µS, 0.01 mg/L, 0.01 ppt, 0.1°F/°C	0.01ppt
±2% FS, ±1.5°F/0.8°C	±0.02 pH, ±0.15 mV, ±1.5% FS, ±1°F/0.5°C	Salinity ±1.5% full scale, TDS ±1% FS, Temp 0.5°C / ±1°F
Yes	Yes	Yes
Meter: 5.3x2.4x1.3" (135x60x33 mm)/10.4 oz (295 g) includes probe and battery	4.7x2.6x1.2" (120x65x31 mm)/6.3 oz (180 g)	169 × 78 × 43 mm (6.7 × 3.1 × 1.7 in)

NOTE: It is recommended that you calibrate your conductivity meter to conductivity standards before use.

SDL150 Dissolved Oxygen Meter/Datalogger

Includes SD memory card

Datalogger date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC

- Dual display of Oxygen Concentration and Temperature
- Measures dissolved oxygen from 0 to 20.0 mg/L and 0 to 100.0% oxygen plus temperature from 32 to 122°F (0 to 50°C)
- Automatic Temperature Compensation from 0 to 50°C via temperature sensor built into polarographic type oxygen probe
- Selectable data sampling rate: 1 second to 8 hrs:59 min:59 sec
- Manually store/recall up to 99 readings
- Large backlit dual LCD
- Record/Recall MIN, MAX readings
- Data Hold plus Auto Power Off with disable function
- Complete with 6 x AA batteries, SD card, probe, spare probe head with diaphragm, electrolyte, and hard carrying case; Optional Universal AC adaptor

SPECIFICATIONS	DISSOLVED OXYGEN	OXYGEN	TEMPERATURE
Range	0 to 20.0 mg/L	0 to 100.0%	32 to 122°F (0 to 50°C)
Accuracy	±0.4 mg/L	±0.7%	±0.8°C/1.5°F
Probe Compensation & Adjustment	Salt: 0 to 50%	Altitude: 0 to 8910 m	Temp: 0 to 50°C
Datalogging	Manual: 99 data Continuous: Number of data points dependent on size of SD card		
Dimensions/Weight	Meter: 7.2x2.9x1.9" (182x73x48 mm)/ 25.6 oz (725 g) Probe: Probe: 0.8x4.9" (20.3x124.5 mm)		

ORDERING	
SDL150	Dissolved Oxygen Meter/Datalogger
UA100-240	100-240 V AC Adaptor with 4 plugs (US, EU, UK, AU)

407510 Heavy Duty Dissolved Oxygen Meter

Dual display of Oxygen concentration in solutions and Temperature — plus PC interface

- Measures dissolved oxygen, oxygen, plus temperature
- Min/Max/Avg, Data Hold and Auto Power Off
- Automatic Temperature Compensation
- Large 1.4" (36 mm) LCD display
- Built-in PC interface with optional Data Acquisition Software 407001-PRO (see p. 95)
- Complete with 0.8" (20 mm) probe on 13 ft (4 m) cable, membranes, protective holster with stand, 9 V battery, and carrying case

SPECIFICATIONS	DISSOLVED OXYGEN	OXYGEN	TEMPERATURE
Range	0 to 19.9 mg/L	0 to 100.0%	32 to 122°F (0 to 50°C)
Accuracy	±0.4 mg/L	±0.7%	±1.5°F/ ±0.8°C
Probe Compensation & Adjustment	Salt: 0 to 39%	Altitude 0 to 3900m	Temp: 0 to 50°C
Dimensions	Meter: 7x3x1.3" (178x74x33 mm); Probe: 0.8Dx4.9"L		
Weight	17 oz (482 g)		

ORDERING	
407510	Heavy Duty Dissolved Oxygen Kit
407001-PRO	Data Acquisition Software (see p. 95)

DO700 Waterproof Series Dissolved Oxygen Kit

IP57 Waterproof Dustproof

Complete kit includes all the necessary accessories stored in a hard case for easy transportation. Ideal for field use.

8-in-1 Meter — Measures DO concentration/saturation, pH, mV, Conductivity, TDS, Salinity, Resistivity and Temperature

- Automatic salinity compensation and manual barometric pressure compensation for DO measurements
- Waterproof housing (meets IP57) design and large blue backlit dual LCD display
- Choice of 3 point pH calibration for better accuracy; Automatic Temperature Compensation
- One point Conductivity calibration – automatically recognizes 8 calibration solutions
- Memory stores up to 400 labeled readings
- Auto Power Off with disable function
- Complete with Dissolved Oxygen probe with 3 membrane caps and DO internal fill solution (30 mL), pH/mV/Temperature electrode, polymer Conductivity cell, pH calibration solutions (4, 7, and 10 pH), Conductivity calibration solution (1413 µS), 2 AA batteries, and hard carrying case

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY
Dissolved Oxygen (Concentration)	0 to 40.00 mg/L	0.01 mg/L	±1.5% FS
Dissolved Oxygen (Saturation)	0 to 200.0%	0.1%	±1.5% FS
pH	-2.00 to 19.99 pH	0.01 pH	±0.02 pH
mV	-1999 to 1999 mV	1 mV	±0.15 mV
Conductivity	0.00 to 199.9 mS/cm	0.01 µS/cm	±1.5% FS
TDS	0 to 100 g/L	0.01 mg/L	±1.5% FS
Salinity	0 to 100 ppt	0.01 ppt	±1.5% FS
Resistivity	0 to 100 MΩ	0.1	±1.5% FS
Temperature (for pH & mV)	32 to 212°F (0 to 100°C)	0.1°	±1°F (±0.5°C)
Temperature (other)	32 to 122°F (0 to 50°C)	0.1°	±1°F (±0.5°C)
Dimensions/Weight	4.7x2.6x1.2" (120x65x31 mm)/6.3 oz (180 g)		

ORDERING	
DO700	Waterproof Series Dissolved Oxygen Kit
PH305	Spare pH/mV/Temperature Electrode
EC605	Spare Polymer Conductivity Cell

DO210 Compact Dissolved Oxygen Meter

Complete with DO probe with membrane and 13 ft (4 m) cable, two spare replacement membranes, electrolyte, 9 V battery, and soft case

Take quick measurements of Dissolved Oxygen or % Oxygen

- Measures Dissolved Oxygen and % Oxygen plus Temperature
- Automatic Temperature Compensation via temperature probe sensor built into polarographic type oxygen probe
- Adjustable Altitude and Salinity Compensation
- Min/Max and Data Hold functions
- Auto Power Off with disable feature

SPECIFICATIONS	DISSOLVED OXYGEN	OXYGEN	TEMPERATURE
Range	0 to 20.0 mg/L	0 to 100.0%	32 to 122°F (0 to 50°C)
Basic Accuracy	±0.4 mg/L	±0.7%	±1.5°F (±0.8°C)
Automatic Temperature Compensation (ATC)	32 to 122°F (0 to 50°C)		
Probe Compensation & Adjustment	Salt: 0 to 39% Altitude: 0 to 3900 m		
Dimensions	Meter: 5.3x2.4x1.3" (135x60x33 mm); Probe: 1.1" (28 mm) D x 7.5" (190mm) L		
Weigh	15.7 oz (446 g) includes probe and battery		

ORDERING	
DO210	Dissolved Oxygen Meter

Perfect Timing

Stopwatches ensure consistent timing of critical industrial/lab processes and provide split/lap times at sporting events. The multifunction HW30 HeatWatch™ also measures heat index showing how hot it feels when humidity is combined with the actual temperature. For workplace safety and health as well as strenuous outdoor athletic activity, monitoring heat index is essential for preventing heat stroke.

HW30 HeatWatch™ Humidity/Thermometer Stopwatch

Digital UP/DOWN timer displays Temperature, Humidity, and Heat Index

- User programmable Heat Index alarm
- Stopwatch/chronograph mode with 1/100th second resolution
- Fastest/Slowest/Average Lap recall
- 99 lap counter with 30 lap/split memory
- 10 hour countdown timer with audible beeper warning for the last 5 seconds
- Programmable alarm
- Calendar mode displays day, month, and date
- 12 or 24 hour clock operation
- Complete with 39" (1 m) snap-away neckstrap and one 3 V CR2032 battery

SPECIFICATIONS	HW30
Timing Capacity	9 hrs, 59 mins, and 59 secs
Accuracy	±5 seconds/day
Alarm	Yes
Countdown Timer	Yes
Lap Memory	30 laps
Heat Index	70 to 122°F (22 to 50°C)
Temperature	14 to 122°F (-10 to 50°C)
Humidity	1 to 99%
CE approved	Yes
Dimensions	3.1x2.6x0.8" (79x66x21 mm)
Weight	3 oz (85 g)

365510 Stopwatch/Clock

Digital Stopwatch plus Calendar and Alarm

- Stopwatch/Chronograph mode with 1/100th second resolution
- 12 or 24 hour clock operation
- Programmable alarm with an hourly chime
- Split time and two competitor timer
- Calendar displays day, month, and date
- Water resistant housing is complete with LR44 battery and 39" (1 m) snap-away neckstrap

STW515 Stopwatch/Clock with Backlit display

Large backlit display feature —perfect for viewing in dimly lit area

- 1/100th second resolution for 30mins
- 1 second resolution up to 24 hours
- 12 or 24 hour clock format
- Calendar displays day, month and weekday
- Backlight turns off after 5 seconds
- Programmable alarm and hourly chime setting
- Stopwatch Modes: Elapsed Timer, Split Time, and Two Competitor Timer
- Water resistant housing is complete with CR2032 battery and 39" (1 m) snap-away neckstrap

365510	STW515	SPECIFICATIONS
23 hrs, 59 mins and 59.99 secs	23 hrs, 59 mins and 59.99 secs	Timing Capacity
±3 seconds/day	±3 seconds/day	Accuracy
Yes	Yes	Alarm
—	—	Countdown Timer
—	—	Lap Memory
—	—	Heat Index
—	—	Temperature
—	—	Humidity
Yes	Yes	CE approved
2.3x2.8x0.5" (57x70x15 mm)	2.6x3x0.8" (68x77x19 mm)	Dimensions
2 oz (50 g)	2 oz (56 g)	Weight

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