

EXTECH
INSTRUMENTS®



TOUGH TOOLS FOR TOUGH BUDGETS

FULL-LINE CATALOG 39

MultiMeters | Clamp Meters | Thermometers | Airflow Meters | Light Meters | Sound Meters
Water Quality Testers | Tachometers | Humidity & Moisture Meters | Video Inspection Cameras

www.extech.com



Endless Possibilities

There's so much excitement around our growing line of test tools because so many help make our world a better place by keeping systems running and improving productivity.

For over 43 years, we've earned the trust of industry professionals who rely on the Extech brand of meters for electrical and mechanical repairs, industrial plant maintenance, HVAC troubleshooting, electronic testing and R&D. Many are also using our testers to increase energy efficiency, monitor air & water quality, and safeguard people's health and comfort. The applications are endless!

Our #1 priority is to provide you with quality, affordable products that meet your daily demands for performance and reliability. We've built our reputation around Tough Tools for Tough Budgets. We stay focused on innovation and solicit feedback from our customers on product ideas and new technologies, applications and requirements.

Extech continues to be one of the most recognized brands of test equipment that is sold through our network of distributor partners globally. We're highlighting over 70 New Products in this catalog. I invite you to browse through these pages and explore what Extech offers, then...

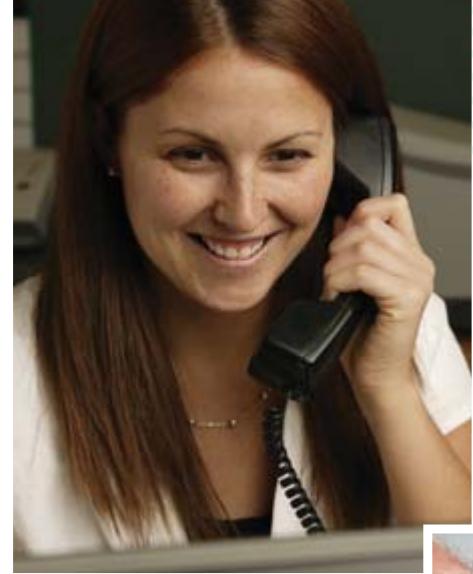
Discover your own endless possibilities!

Arpineh Mullaney
VP Sales, Extech Instruments
A division of FLIR Systems

Call us or e-mail:

877-439-8324

orders@extech.com.



Dedicated Support & Service

Our Customer Service & Technical Support professionals provide friendly and knowledgeable before- and after-sale support to Extech customers worldwide. Our products are backed by a full warranty against defects, and our full-service repair team provides top-notch warranty and non-warranty services.



Customer-Driven Innovation

We continually strive to provide you with innovative new tools that have value-added features our customers ask for – all to make their jobs faster, easier and safer. Our Engineering Group constantly researches the latest technologies and materials to develop new cutting-edge meters and testers.



COMMITTED TO QUALITY

Calibration Traceable to NIST

For customers who require documentation that their devices meet the standards set forth by the National Institute of Standards and Technology (NIST), Certificates of Calibration are available on nearly all Extech product categories. Full “before-and-after” data is supplied with NIST-traceable certificates at a reasonable cost, along with fast turnarounds, global shipments, and convenient recertification reminders. Meters and testers listed in this catalog that feature an accompanying  logo indicate when a NIST-traceable certification is available for a specific product. (See page 156 for a complete listing.)



PQ3450 Power Quality Meter

MO290 Moisture Meter with built-in IR thermometer

For more than 43 years Extech has committed itself to delivering the best value in test equipment. Our start-to-finish approach to quality is reinforced by our ISO 9001:2008 certification, which covers everything we do – Engineering, Sales & Marketing, Service & Support, Manufacturing, and Distribution.



TRUSTED BY

Electrical & Mechanical

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, perform predictive vibration analysis, diagnose motors and controllers, and detect emerging issues before damage occurs.



Electrical Distribution

Measure inbound or localized power quality with power clamps & analyzers.



Plant Assets

Pinpoint equipment vibration problems with vibration testers.



Component Diagnostics

Troubleshoot circuits, insulation, and motor controls with Extech digital multimeters.

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, measure ambient and component temperature differentials, log indoor humidity levels, and help ensure overall productivity and safety.



Electrical Systems

Check controls and sensors on out-of-order elevators with electrical testers and meters.



Ventilation

Optimize air distribution and system efficiency with anemometers & manometers.



Facilities

Calibrate linear speeds on conveyor lines with contact tachometers.

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, HVACR technicians, sustainability & safety directors, public works managers, and more.

PROFESSIONALS

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, locate air distribution imbalances, test water quality, and measure indoor & outdoor light levels.



Air Quality

When carbon monoxide (CO) alarms sound repeatedly, check CO levels with CO meters.



Noise Levels

Monitor noise levels and perform workplace audits using sound level meters.



Water Quality

Simplify field testing of water treatment samples using portable pH meters.

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 – multifunction multimeters and clamp meters, thermocouples, IR thermometers, airflow meters, temperature dataloggers, and video borescopes – to perform HVAC/R installations and repairs.



Heating

Check for corrosion/deposits in leaking or blocked boiler tubes with video boroscopes.



Cold Chain Maintenance

Identify temperature variations in refrigerated areas with temperature/humidity dataloggers.



AC Systems

Service AC systems with anemometers that measure airflow, air temperature, humidity, and more.

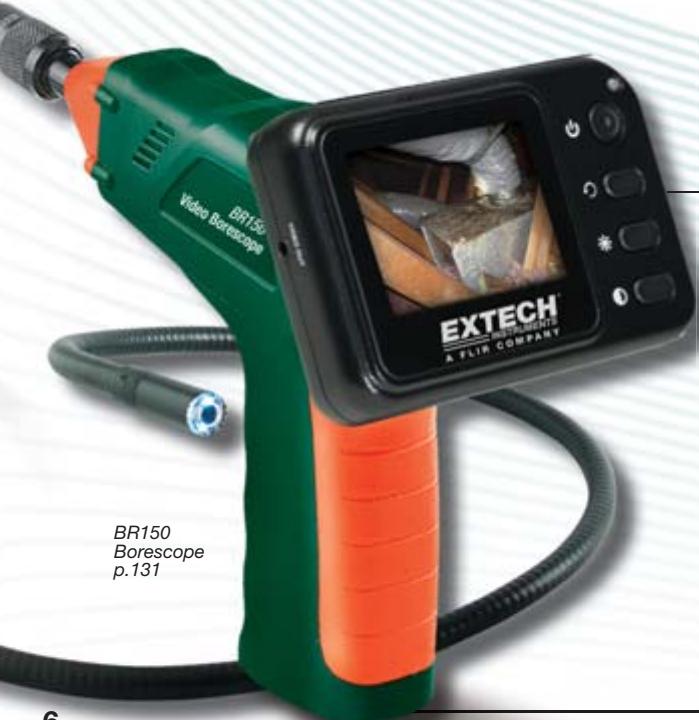
WIRED

Sustainability & Safety

Air quality, water quality and light are vital to everyone's health. This is why Extech constantly develops new meters that monitor indoor air quality in businesses and homes, test water quality for treatment and food/beverage plants, measure indoor and outdoor light levels, and many other conditions.

Multifunctional Designs

Less is more when it comes to test & measurement tools. This is why demand for "combination testers" keeps growing. As our customers continue to appreciate the productivity, convenience and value of doing more with less, Extech will continue developing new feature-rich tools.



Product	Part#	Page#
A UV Light Meter	SDL470	116
B Anemometer	AN300	101
C Corkscrew Thermometer	TM40	65
D CO ₂ Meter	CO220	105
E LED Light Meter	LT45	117
F Wet Bulb Meter	WB200	85
G Turbidity Meter	TB400	143
H Moisture Meter	MO300	92
I Environmental Meter	EN150	97
J Water Quality Meter/Stirrer	WQ530	142
K Particle Counter	VPC300	102
L Pressure Datalogger	SD750	107
M Salinity Meter	EC170	150

FOR INNOVATION

70+
NEW
PRODUCTS!



IRT500
IR Thermal Scanner
p.72

Wireless Connectivity

Wireless connectivity drives workplace productivity. This is why Extech is adding Bluetooth to its testers—because streaming data to mobile devices lets our customers perform faster/safer diagnostics, share findings with colleagues, as well as streamline decision-making and repair processes.

H



I



J



K



L



M

Advanced Diagnostics

Industrial systems are growing in complexity. This is why professionals around the world rely on Extech tools for advanced diagnostics. Whether in the plant, at the bench, or on the jobsite, Extech's new meters give our customers the capabilities they need to troubleshoot their complex systems.



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TOUGH TOOLS

FOR TOUGH



A



B



C



D



EX850
AC/DC Clamp Meter
p.25

Extech is the undisputed leader when it comes to offering you a comprehensive line of test & measurement tools known for their powerful combination of quality, reliability and value. Extech arms you with rugged, accurate, and affordable tools that you can trust on every job.



E



F



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BUDGETS



G



H



I



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GX900
Graphical Multimeter
p.18

Product	Part#	Page#
A Magnet Detector	MD10	47
B Clamp Meter	MA430	28
C Electrical Test Kit	ETK30	22
D Insulation Tester	MG500	59
E Circuit Analyzer	CT80	44
F Power Clamp Meter	PQ2071	61
G TRMS Multimeter	EX210T	11
H 3-Phase Power Analyzer	PQ3450	62
I Circuit Breaker Finder	CB20	45

MG300-ETK
Electrical
Troubleshooting Kit
p.17



Digital MultiMeter (DMM) Index Guide

Pick the right MultiMeter for your application



MN Series
Compact and affordable Digital MultiMeters with choice of Manual Ranging or Autoranging models. Perfect for DIYers, students, hobbyists, mechanics and technicians.
p. 20

EX200 Series
Mini Digital MultiMeters with built-in Noncontact Voltage Detector with models featuring low cost True RMS for better accuracy and built-in Infrared Thermometer. CAT III-600V safety rated.
p. 11

EX300 Series
Mini Digital DMMs with built-in Noncontact Voltage Detector with models to choose between Manual Ranging or Autoranging and numerous electrical readings and temperature. p. 10

EX400 Series
Professional Full Size Series Digital MultiMeters. Features include Large Digits, Manual Ranging or Autoranging, True RMS or Averaging, and Type K temperature measurements.
p. 12-13

EX500 Series
Industrial Series Digital DMMs are accurate and rugged. Waterproof, dustproof, drop tested to 2m (6.5"), and CAT IV safety rated for higher voltage applications. Wireless datalogging model or built-in IR Thermometer.
p. 14-15, 19

MP & MM Series
These two series of rugged and reliable DMMs feature extreme accuracy, resolution, and functionality, perfect for troubleshooting complex equipment in advanced manufacturing.
p. 16

GX900 Series
Flagship True RMS DMM with graphical backlit display for viewing trend data, Low Pass Filter for capturing accurate and stable readings on VFD equipment, wireless datastreaming to PCs and Android devices for safer/easier diagnostics, and a CAT-IV safety rating.
p. 18

MG300 Series
Combines a 1000V Insulation Resistance Tester with a True RMS CAT-IV Digital MultiMeter plus wireless connectivity to a PC for safer monitoring, data recording and diagnostics.
p. 16

NIST traceable certificate with data is available when you order your meter with Certificate Traceable to NIST. Look for this symbol on products that offer NIST.

EX300 Series Mini Digital MultiMeters + Voltage Detector



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



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
- Dimensions: 5.7x2.9x1.6" (147x76x42mm); Weight: 9oz (260g)
- 1 year warranty
- Complete with stand, test leads, protective holster, batteries, general purpose Type K bead wire temperature probe (EX330 only)

Model EX310 (Manual Ranging)

- Battery test 1.5V and 9V

Model EX320 (Autoranging)

- Max Hold, Data Hold, and Auto Power Off

Model EX330 (Autoranging)

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

SPECIFICATIONS	EX310	EX320	EX330
Display Counts	2000 counts	2000 counts	4000 counts
Basic Accuracy	0.50%	0.50%	0.50%
NCV Detector	100 to 600VAC	100 to 600VAC	100 to 600VAC
DC Voltage	0.1mV to 600V	0.1mV to 600V	0.1mV to 600V
AC Voltage	0.1V to 600V	0.1mV to 600V	0.1mV to 600V
DC/AC Current	0.1mA to 10A	0.1µA to 10A	0.1µA to 10A
Resistance	0.1Ω to 2000kΩ	0.1Ω to 20MΩ	0.1Ω to 40MΩ
Capacitance	—	—	0.001nF to 200µF
Frequency	—	—	0.001Hz to 10MHz
Temperature	—	—	-4 to 1382°F (-20 to 750°C)
Duty Cycle	—	—	0.1 to 99.9%
Diode/Continuity	Yes	Yes	Yes
Category Rating	CAT III-600V, CAT II-1000V	CAT III-600V, CAT II-1000V	CAT III-600V, CAT II-1000V

ORDERING

EX310	Manual Ranging 9 Function Mini MultiMeter + Non-Contact Voltage Detector
EX320	Autoranging 8 Function Mini MultiMeter + Non-Contact Voltage Detector
EX330	Autoranging 12 Function Mini MultiMeter + Non-Contact Voltage Detector
409996	Vinyl pouch carrying case
TP873	Replacement Bead wire Temperature Probe (-22 to 572°F/-30 to 300°C)
TL803	Replacement Test Leads



EX200 Series Mini Digital MultiMeters + IR Thermometer



NEW

- Large backlit dual LCD with easy-to read digits
 - Low current capability
 - Input fuse protection
 - Auto power off and Data Hold
 - Complete with test leads, general purpose bead wire temperature probe (Model EX230), and 9V battery; 1 year warranty

Model EX205T

- 2000 counts
 - Max Hold
 - True RMS gives accurate readings of distorted waveforms

Model EX210 and EX210T

- 2000 counts
 - Built-in IR Thermometer with 4:1 Distance to Target Ratio
 - Max Hold
 - True RMS (EX210T only) gives accurate readings of distorted waveforms

Model EX230

- 4000 counts
 - Built-in IR Thermometer with 6:1 Distance to Target Ratio
 - Advanced functions include Type K Temperature, Capacitance, Frequency, and Duty Cycle
 - Relative Mode

SPECIFICATIONS	EX205T	EX210/EX210T	EX230
Display Counts	2000	2000	4000
True RMS	True RMS	— / True RMS	—
Basic Accuracy (VDC)	±0.5%	±0.5%	±0.5%
AC/DC Voltage	0.1mV to 600V	0.1mV to 600V	0.1mV to 600V
AC/DC Current	0.1µA to 10A	0.1µA to 10A	0.1µA to 10A
Resistance	0.1Ω to 20MΩ	0.1Ω to 20MΩ	0.1Ω to 40MΩ
Capacitance	—	—	0.001nF to 100µF
Frequency	—	—	0.001Hz to 10MHz
Temperature (IR)	—	-5 to 446°F (-20 to 230°C)	-5 to 446°F (-20 to 230°C)
Temperature (Type K)	—	—	-4 to 1400°F (-20 to 760°C)
Duty Cycle	—	—	0.1% to 99.9%
Continuity / Diode	Yes	Yes	Yes
Category Rating	CAT III-600V	CAT III-600V	CAT III-600V
Dimensions/Wt	5.8x2.9x1.6" (147x76x42mm)/ 9.17oz (260g)		

ORDERING

EX205T	True RMS Autoranging MultiMeter
EX210	Autoranging MultiMeter + IR Thermometer
EX210T	True RMS Autoranging MultiMeter + IR Thermometer
EX230	Autoranging MultiMeter + IR Thermometer
409996	Vinyl pouch carrying case
TP873	Replacement Bead wire Temperature Probe (-22 to 572°F/-30 to 300°C)
TL803	Replacement Test Leads



Extech-exclusive Meters with Built-in IR Thermometer!

Our innovative design incorporates a built-in IR Thermometer. Look for the Built-in IR Thermometer logo throughout this catalog.



MultiMeters

Voltage Detectors

Clamp Meters

Psychrometers

Humidity Meters

Moisture Meters

Tachometers

Air Flow Meters

Big Digits, Big Results.

The EX400 Series multimeters have a large display with easy-to-see 1" digits, Type K thermocouple, and CAT III-600V rating. Select True RMS for better accuracy, and built-in IR in the top-of-the line model lets you perform non-contact temperature scans.



EX410 Manual Ranging MultiMeter

Basic averaging multimeter with 8 functions

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

EX411 True RMS Manual Ranging MultiMeter

Basic True RMS multimeter with 8 functions

- True RMS for accurate readings of non-sinusoidal waveforms
- Large backlit LCD display with easy-to-read 1" digits
- Type K thermometer built-in for temperature measurements
- Low current capability: measure down to 0.1µA
- Input fuse protection and misconnection warnings
- Complete with CAT III test leads, multi-position tilt stand and velcro strap for hanging, protective holster with test lead holder, general purpose Type K bead wire temperature probe, and 9V battery



Watch the
Video
www.extech.com/video

ACCESSORIES (SEE P. 40-43 FOR MULTIMETER ACCESSORIES)

TL841	Test Lead Kit
TL833	Industrial Test Lead Set
TL831	Master Electrical Test Lead Kit
TL810	Electrical Test Lead Kit
TL803	Standard Test Leads
TP200	Type K Clamp Probe (212°F/100°C)
HG500	Magnetic Hanging Strap

SPECIFICATIONS	EX410	EX411
Averaging/True RMS	Averaging	True RMS
Basic Accuracy (VDC)	±0.5%	±0.3%
AC Voltage	1mV to 750V	1mV to 750V
DC Voltage	0.1mV to 1000V	0.1mV to 1000V
AC Current	0.1mA to 20A	0.1mA to 20A
DC Current	0.1µA to 20A	0.1µA to 20A
Resistance	0.1Ω to 20MΩ	0.1Ω to 20MΩ
Capacitance	—	—
Frequency	—	—
Temperature (IR)	—	—
Temperature (Type K)	-4 to 1382°F (-20 to 750°C)	-4 to 1382°F (-20 to 750°C)
Duty Cycle	—	—
Continuity / Diode	Yes	Yes
UL/CE/Category Rating	UL/CE/CAT III-600V, CAT II-1000V	UL/CE/CAT III-600V, CAT II-1000V
Dimensions/Weight	7.4x3.2x2" (187x81x50mm)/0.75lbs (342g)	7.4x3.2x2" (187x81x50mm)/0.75lbs (342g)
Warranty	1 year	1 year



All models UL & CE approved





EX420 Autoranging MultiMeter

Economical averaging multimeter with 11 functions

- Advanced functions include Capacitance, Frequency, and Type K thermometer
- Large backlit LCD display with easy-to-read 1" digits
- Low current capability: measure down to 0.1µA
- Input fuse protection and misconnection warnings
- Complete with CAT III test leads, multi-position tilt stand and velcro strap for hanging, protective holster with test lead holder, general purpose Type K bead wire temperature probe, and 9V battery



EX430 True RMS Autoranging MultiMeter

Economical True RMS multimeter with 11 functions

- True RMS for accurate readings of non-sinusoidal waveforms
- Advanced functions include Capacitance, Frequency, and Type K thermometer
- Large backlit LCD display with easy-to-read 1" digits
- Low current capability: measure down to 0.1µA
- Input fuse protection and misconnection warnings
- Complete with CAT III test leads, multi-position tilt stand and velcro strap for hanging, protective holster with test lead holder, general purpose Type K bead wire temperature probe, and 9V battery



EX470 True RMS Autoranging MultiMeter + IR Thermometer

Combination multimeter with 12 functions including non-contact Temperature measurement

- Built-in non-contact IR Thermometer design with laser pointer
- Advanced functions include Capacitance, Frequency, Type K thermometer, and Relative
- Large backlit LCD display
- Low current capability: measure down to 0.1µA
- Input fuse protection and misconnection warnings
- Complete with CAT III test leads, multi-position tilt stand and velcro strap for hanging, protective holster with test lead holder, general purpose Type K bead wire temperature probe, and 9V battery

EX420 N

Averaging	True RMS	True RMS	Averaging/True RMS
±0.3%	±0.3%	±0.3%	Basic Accuracy (VDC)
0.1mV to 750V	0.1mV to 750V	0.1mV to 750V	AC Voltage
0.1mV to 1000V	0.1mV to 1000V	0.1mV to 1000V	DC Voltage
0.1µA to 20A	0.1µA to 20A	0.1µA to 20A	AC Current
0.1µA to 20A	0.1µA to 20A	0.1µA to 20A	DC Current
0.1Ω to 40MΩ	0.1Ω to 40MΩ	0.1Ω to 40MΩ	Resistance
0.01nF to 100µF	0.01nF to 100µF	0.01nF to 100µF	Capacitance
0.001Hz to 10MHz	0.001Hz to 10MHz	0.001Hz to 10MHz	Frequency
—	—	-58 to 518°F (-50 to 270°C)	Temperature (IR)
-4 to 1382°F (-20 to 750°C)	-4 to 1382°F	-4 to 1382°F (-20 to 750°C)	Temperature (Type K)
0.1% to 99.9%	0.1% to 99.9%	0.1% to 99.9%	Duty Cycle
Yes	Yes	Yes	Continuity / Diode
UL/CE/CAT III-600V, CAT II-1000V	UL/CE/CAT III-600V, CAT II-1000V	UL/CE/CAT III-600V, CAT II-1000V	UL/CE/Category Rating
7.4x3.2x2" (187x81x50mm)/0.75lbs (342g)	7.4x3.2x2" (187x81x50mm)/0.75lbs (342g)	7.4x3.2x2" (187x81x50mm)/0.75lbs (342g)	Dimensions/Weight
1 year	3 years	3 years	Warranty

EX430 N

Averaging	True RMS	True RMS	Averaging/True RMS
±0.3%	±0.3%	±0.3%	Basic Accuracy (VDC)
0.1mV to 750V	0.1mV to 750V	0.1mV to 750V	AC Voltage
0.1mV to 1000V	0.1mV to 1000V	0.1mV to 1000V	DC Voltage
0.1µA to 20A	0.1µA to 20A	0.1µA to 20A	AC Current
0.1µA to 20A	0.1µA to 20A	0.1µA to 20A	DC Current
0.1Ω to 40MΩ	0.1Ω to 40MΩ	0.1Ω to 40MΩ	Resistance
0.01nF to 100µF	0.01nF to 100µF	0.01nF to 100µF	Capacitance
0.001Hz to 10MHz	0.001Hz to 10MHz	0.001Hz to 10MHz	Frequency
—	—	-58 to 518°F (-50 to 270°C)	Temperature (IR)
-4 to 1382°F (-20 to 750°C)	-4 to 1382°F	-4 to 1382°F (-20 to 750°C)	Temperature (Type K)
0.1% to 99.9%	0.1% to 99.9%	0.1% to 99.9%	Duty Cycle
Yes	Yes	Yes	Continuity / Diode
UL/CE/CAT III-600V, CAT II-1000V	UL/CE/CAT III-600V, CAT II-1000V	UL/CE/CAT III-600V, CAT II-1000V	UL/CE/Category Rating
7.4x3.2x2" (187x81x50mm)/0.75lbs (342g)	7.4x3.2x2" (187x81x50mm)/0.75lbs (342g)	7.4x3.2x2" (187x81x50mm)/0.75lbs (342g)	Dimensions/Weight
1 year	3 years	3 years	Warranty

EX470 N

Averaging	True RMS	True RMS	Averaging/True RMS
±0.3%	±0.3%	±0.3%	Basic Accuracy (VDC)
0.1mV to 750V	0.1mV to 750V	0.1mV to 750V	AC Voltage
0.1mV to 1000V	0.1mV to 1000V	0.1mV to 1000V	DC Voltage
0.1µA to 20A	0.1µA to 20A	0.1µA to 20A	AC Current
0.1µA to 20A	0.1µA to 20A	0.1µA to 20A	DC Current
0.1Ω to 40MΩ	0.1Ω to 40MΩ	0.1Ω to 40MΩ	Resistance
0.01nF to 100µF	0.01nF to 100µF	0.01nF to 100µF	Capacitance
0.001Hz to 10MHz	0.001Hz to 10MHz	0.001Hz to 10MHz	Frequency
—	—	-58 to 518°F (-50 to 270°C)	Temperature (IR)
-4 to 1382°F (-20 to 750°C)	-4 to 1382°F	-4 to 1382°F (-20 to 750°C)	Temperature (Type K)
0.1% to 99.9%	0.1% to 99.9%	0.1% to 99.9%	Duty Cycle
Yes	Yes	Yes	Continuity / Diode
UL/CE/CAT III-600V, CAT II-1000V	UL/CE/CAT III-600V, CAT II-1000V	UL/CE/CAT III-600V, CAT II-1000V	UL/CE/Category Rating
7.4x3.2x2" (187x81x50mm)/0.75lbs (342g)	7.4x3.2x2" (187x81x50mm)/0.75lbs (342g)	7.4x3.2x2" (187x81x50mm)/0.75lbs (342g)	Dimensions/Weight
1 year	3 years	3 years	Warranty

SPECIFICATIONS

Serious about Ruggedness & Versatility

Along with advanced DMM features and True RMS accuracy, the EX500 series' Category IV rating ensures the highest level of protection against sudden transient overvoltage and arcing flash-over. This rugged, waterproof and drop-proof multimeter will take whatever rough handling you dish out. Get Industrial-Duty Protection with Extech's EX500 series.


www.extech.com/tough


ACCESSORIES (SEE P. 40-43 FOR MULTIMETER ACCESSORIES)

TL841	Test Lead Kit
TL833	Industrial Test Lead Set
TL831	Master Electrical Test Lead Kit
TL810	Electrical Test Lead Kit
TL805	Double Injected Test Leads
TP200	Type K Clamp Probe (212°F/100°C)
HG500	Magnetic Hanging Strap



EX503 CAT IV Heavy Duty Industrial MultiMeter

Average responding multimeter with 0.5% basic accuracy and 4,000 count backlit display

- Waterproof (IP67) rugged double molded design for heavy duty use
- 1000V input protection on all functions
- Dual sensitivity frequency functions
- Data hold, Relative, and 10A max current
- Diode open circuit voltage of 2.8V DC
- Auto power off with disable feature
- CAT IV-600V, CAT III-1000V
- Complete with double molded test leads, magnetic hanging strap, 9V battery, and pouch case

SPECIFICATIONS

	EX503 N
Averaging/True RMS	Averaging
Basic Accuracy	0.5%
DC Voltage	0.1mV to 1000VDC
AC Voltage	0.1mV to 1000VAC
DC/AC Current	0.1µA to 10A
Resistance	0.1Ω to 40MΩ
Capacitance	0.01nF to 100µF
Frequency (electrical)	5Hz to 1kHz
Frequency (electronic)	0.001Hz to 10MHz
Temperature (Type K)	—
Duty Cycle	0.1 to 99.9%
Diode (2.8V)/Continuity	Yes
UL/CE	Yes
Category Rating	CAT IV-600V, CAT III-1000V
Waterproof / Drop proof	IP67 / 6.5ft (2m)
Dimensions/Weight	7.25x3.25x2.25" (184x83x57mm)/12.3oz (349g)
Warranty	3 years



EX505 CAT IV True RMS Heavy Duty Industrial MultiMeter

True RMS multimeter with 0.5% basic accuracy and 4,000 count backlit display

- Waterproof (IP67) rugged double molded design for heavy duty use
- 1000V input protection on all functions
- Dual sensitivity frequency functions
- Type K Temperature function
- Data hold, Relative, and 10A max current
- Diode open circuit voltage of 2.8V DC
- Auto power off with disable feature
- CAT IV-600V, CAT III-1000V
- Complete with double molded test leads, magnetic hanging strap, general purpose Type K bead wire temperature probe, 9V battery, and pouch case



EX520 CAT IV True RMS Heavy Duty Industrial MultiMeter

True RMS multimeter with 0.09% basic accuracy and 6,000 count backlit display with bargraph

- Waterproof (IP67) rugged double molded design for heavy duty use
- 1000V input protection on all functions
- Dual sensitivity frequency functions
- Type K Temperature function
- Min/Max/Relative/Data Hold, 20A max current
- Diode open circuit voltage of 2.8V DC
- Auto power off with disable feature
- CAT IV-600V, CAT III-1000V
- Complete with double molded test leads, magnetic hanging strap, general purpose Type K bead wire temperature probe, 9V battery, and pouch case



EX530 CAT IV True RMS Heavy Duty Industrial MultiMeter

True RMS multimeter with 0.06% basic accuracy and 40,000 count backlit display with bargraph

- Waterproof (IP67) rugged double molded design for heavy duty use
- 1000V input protection on all functions
- Dual sensitivity frequency functions
- Type K Temperature function
- Min/Max/Relative/Data Hold, 20A max current
- Peak Hold (AC only)
- Data hold, Relative, and 10A max current
- Diode open circuit voltage of 2.8V DC
- Auto power off with disable feature
- CAT IV-600V, CAT III-1000V
- Complete with double molded test leads, magnetic hanging strap, general purpose Type K bead wire temperature probe, 9V battery, and pouch case

EX505 <small>N</small>	EX520 <small>N</small>	EX530 <small>N</small>
True RMS	True RMS	True RMS
0.5%	0.09%	0.06%
0.1mV to 1000VDC	0.1mV to 1000VDC	0.01mV to 1000VDC
0.1mV to 1000VAC	1mV to 1000VAC	0.01mV to 1000VAC
0.1µA to 10A	0.1µA to 20A	0.01µA to 20A
0.1Ω to 40MΩ	0.1Ω to 40MΩ	0.01Ω to 40MΩ
0.01nF to 100µF	0.01nF to 1000µF	0.001nF to 40mF
5Hz to 1kHz	10Hz to 400Hz	40Hz to 400Hz
0.001Hz to 10MHz	0.001Hz to 40MHz	0.001Hz to 100MHz
-4 to 1382°F (-20 to 750°C)	-50 to 1382°F (-45 to 750°C)	-50 to 1382°F (-45 to 750°C)
0.1 to 99.9%	0.1 to 99.9%	0.1 to 99.90%
Yes	Yes	Yes
Yes	Yes	Yes
CAT IV-600V, CAT III-1000V	CAT IV-600V, CAT III-1000V	CAT IV-600V, CAT III-1000V
IP67 / 6.5ft (2m)	IP67 / 6.5ft (2m)	IP67 / 6.5ft (2m)
7.25x3.25x2.25" (184x83x57mm)/12.3oz (349g)	7.25x3.25x2.25" (184x83x57mm)/12.3oz (349g)	7.25x3.25x2.25" (184x83x57mm)/12.3oz (349g)
3 years	3 years	3 years

MP530A MultiPro® Series



CAT IV
cUL us
LISTED
CE

High performance multimeter with RS-232 PC Interface

- 0.08% basic DCV accuracy
- True RMS AC Voltage & Current and Temperature measurements
- Relative, Min, Max, Max-Min, Peak Hold and Zoom
- 5000 count backlit LCD display and Auto power off with disable
- Hold and low resistance auto lead zero
- Optional SW810A PC software and cable sold separately
- 3 year warranty
- Complete with built-in stand, test leads, protective holster, 9V battery, and general purpose Type K bead wire temperature probe

SPECIFICATIONS

Averaging/True RMS	True RMS
DC/AC Voltage	0.01mV to 1000V
Basic DCV accuracy	±0.08%rdg
DC/AC Current	0.1µA to 20A
Resistance	0.01Ω to 50MΩ
Capacitance	0.01nF to 9999µF
Frequency	10Hz to 125kHz
Temperature	-58 to 1832°F (-50 to 1000°C)
AC Bandwidth	40Hz to 20kHz
Category rating	CAT IV-600V
Dimensions/Weight	7.32x3.42x1.39" (186x87x35.5mm)/ 0.75lb (340g)

ORDERING (SEE BELOW FOR OPTIONAL ACCESSORIES UNDER MULTIMASTER SERIES)

MP530A N MultiPro® True RMS Professional MultiMeter & Temp

MM560A/MM570A MultiMaster® Series



CAT IV
cUL us
LISTED
CE

ACCESSORIES (See p. 40-43 for MultiMeter accessories)

SW810A MultiPro® Software CD & RS-232 Cable

USB100 RS-232 to USB Adaptor

CA899 Vinyl Pouch Carrying Case

50,000/500,000 count, high accuracy, wide bandwidth True RMS multimeters

- 0.02% (MM570A) and 0.03% (MM560A) basic DCV accuracy
- 50,000 count display with 500,000 counts for DCV and Hz
- True RMS combination AC+DC function
- Highest res. (1µV, 0.01µA, 0.0001Hz, 0.01Ω)
- Auto power off with disable
- 3 year warranty
- Complete with stand, test leads, holster, 9V battery, and general purpose Type K probe for MM570A; Optional SW810A PC software and cable

Model MM570A Additional Functions

- Dual input Type K Thermometer, higher True RMS ACV bandwidth (up to 100kHz) and 1000V input protection on all functions
- 4 to 20mA, displayed as 0 to 100% for process current measurements

SPECIFICATIONS	MODEL MM560A	MODEL MM570A
Display counts	50,000/500,000 count backlit	50,000/500,000 count backlit
Averaging/True RMS	True RMS	True RMS
DC/AC Voltage	0.001mV to 1000V	0.001mV to 1000V
Basic DCV accuracy	±0.03%rdg	±0.02%rdg
DC/AC Current	0.01µA to 10A	0.01µA to 20A
Resistance	0.01Ω to 50MΩ	0.01Ω to 50MΩ
Capacitance	0.01nF to 9999µF	0.01nF to 9999µF
Frequency	5Hz to 200kHz (Line)/5Hz to 2MHz (Logic)	5Hz to 200kHz (Line)/5Hz to 2MHz (Logic)
Temperature	—	-58 to 1832°F (-50 to 1000°C)
AC Bandwidth	20Hz to 20kHz	20Hz to 100kHz
Category rating	CAT IV-600V	CAT IV-600V
Dimensions/Weight	7.32x3.42x1.39" (186x87x35.5mm)/0.75lb (340g)	

ORDERING

MM560A N MultiMaster™ Precision MultiMeter

MM570A N MultiMaster™ Precision MultiMeter with Temperature



MG300/MG302 CAT IV Insulation Tester/MultiMeter with Wireless PC Interface


WIRELESS Transmitter


Includes remote receiver with USB cable, Windows® compatible software, heavy duty test leads, alligator clip test lead, Type K bead wire temperature probe, hard case, and 6 x AA batteries; 1yr warranty

Combines a 1000V Insulation Tester with a True RMS MultiMeter

- Wireless USB interface transmits measurement data to a PC
- Backlit large triple display and waterproof (IP67) rugged housing design
- Insulation Resistance from 0.001MΩ to 4000MΩ
- Auto discharge of capacitive voltage
- Lock Power On Function for hands-free operation
- Min/Max, Relative mode, Data Hold, and Auto power off

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Insulation Resistance	4MΩ, 40MΩ, 400MΩ, 4000MΩ	0.001MΩ	±3%
Insulation Test Voltages	125V, 250V, 500V, 1000V		
AC/DC Voltage	1000V	0.1mVAC/ 0.01mVDC	AC: ±1%, DC: ±0.06%
AC/DC Current	10A	0.1μA AC/ 0.01μA DC	AC: ±1.5%, DC: ±1%
Resistance	40MΩ	0.01Ω	±0.3%
Capacitance	40mF	0.001nF	±3.5%
Frequency	100MHZ	0.001HZ	±0.1%
Duty Cycle	0.1 to 99.9%	0.01	±1.2%
Temperature	-58 to 2192°F (-50 to 1200°C)	0.1°F (0.1°C)	±1% + 4.5°F (2.5°C)
4-20mA%	-25 to 125%	0.01%	
Continuity/Diode	Yes		
Dimensions/ Weight	7.8 x 3.6 x 1.9" (200 x 92 x 50mm)/ 20.5oz (582g)		

ORDERING

NOTE: USA, Mexico, and Canada use 915MHz model MG300 and majority of other countries use 433MHz model MG302

MG300 [N]	CAT IV Insulation Tester/MultiMeter with Wireless PC Interface (915MHz)
MG302 [N]	CAT IV Insulation Tester/MultiMeter with Wireless PC Interface (433MHz)

MG300-ETK Electrical Troubleshooting Kit


NEW
Special Value Kit

Includes three compact tools that are indispensable at a customer site for electrical installation, troubleshooting, and repair

- Model MG300 or MG302: 13 Function, Wireless PC Interface, True RMS Multimeter/Insulation Tester (see above)
- Model 42509: 12:1 Infrared Thermometer with high/low alarm and fast 2-color display for processes that require temperature control and monitoring; measures from -4 to 950°F/-20 to 510°C (see p. 70)
- Model MA430T: 400A True RMS AC Clamp Meter with built-in non-contact voltage detector and ideal for noisy or non-sinusoidal AC measurement (see p. 28)
- 1.2" (30mm) jaw size for conductors up to 350MCM
- Supplied with test leads, Type K thermocouple bead wire probe, batteries, and case

ORDERING

MG300-ETK	Electrical Troubleshooting Kit (with MG300)
MG302-ETK	Electrical Troubleshooting Kit (with MG302)

MG300-MTK Motor & Drive Troubleshooting Kit


NEW
Special Value Kit

Includes three compact tools that are indispensable at a customer site from troubleshooting 3-phase motors and drives

- Model MG300 or MG302: 13 Function, Wireless PC Interface, True RMS Multimeter/Insulation Tester (see above)
- Model 480403: Motor Rotation and 3-Phase Tester checks phase sequence and indicates rotation direction of the motor to help insure correct wiring (see p. 36)
- Model MA435T: 400A True RMS AC/DC Clamp Meter with built-in non-contact voltage detector and ideal for noisy or non-sinusoidal AC measurement (see p. 29)
- 1.2" (30mm) jaw size for conductors up to 350MCM
- Supplied with test leads, 3 large color-coded alligator clips, Type K thermocouple bead wire probe, batteries, and case

ORDERING

MG300-MTK	Motor & Drive Troubleshooting Kit (with MG300)
MG302-MTK	Motor & Drive Troubleshooting Kit (with MG302)

GX900 True RMS Graphical MultiMeter for Android™



NEW

Transmit readings to Android smartphones and tablets wirelessly via Bluetooth® function, plus includes Low Pass Filter Mode

- Integrated Bluetooth® connects with most Android devices to transmit readings for remote viewing
- Works with free Android App to display large, easy-to-read values up to 30ft (10m) away
- Low Pass Filter conditions the inputs to provide accurate Voltage and Frequency readings on motors, drives and other large electrical equipment that generate electrical noise
- Tracks readings showing a graphical trend over time to help users pin point and avoid system failures
- Datalogging stores up to 2500 readings with date and time stamp
- True RMS measurements for accurate AC Voltage and Current measurements
- Diode open circuit voltage of 3.2V DC
- CAT IV-600V safety rating for industrial applications
- 1000V input protection on all functions
- AC+DC measurement components displayed combined or separately
- Dual sensitivity frequency functions
- Peak Hold (>1ms) Min/Max/Average / Relative (%) / Data Hold /
- Automatic Data Hold; Auto power off with disable feature
- Backlit graphical dot matrix display allows for customized screens to optimize critical data within a measurement mode and provide visual menus for easy navigation to settings and ranges
- Complete with double molded test leads, hanging strap, Type K bead wire temperature probe and six AA batteries, 1 year warranty

SPECIFICATIONS

Display Counts	50,000 count with bargraph
Basic Accuracy	0.05%
ACV Bandwidth	100kHz
DC/AC Voltage	0.001mV to 1000V
DC/AC Current	0.01µA to 20A
Resistance	0.001Ω to 50MΩ
Capacitance	0.001nF to 10mF
Frequency (electrical)	40.00Hz to 10kHz
Frequency (electronic)	0.001Hz to 10MHz
Temperature	-58 to 1832°F (-50 to 1000°C)
Duty Cycle	0.1 to 99.90%
dBm/dBV	-70 to 60dB (nine selectable impedances)
4-20mA%	-25 to 125%
Conductance	50µS
RPM	12,000rpm (with optional inductive pickup)
Clamp Adapter input	1mV/A, 10mV/A or user settable from 0.1mV/A to 100mV/A
Diode (3.2V)/Continuity	Yes
Dimensions/ Weight	9.25x4.25x2.5"(235x108x63.5mm)/ 1.85lbs (839g)

ORDERING

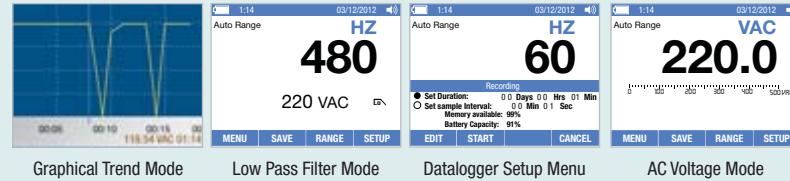
GX900 N

True RMS Graphical Multimeter/Datalogger with Bluetooth®



View key electrical readings taken by the GX900 at a safe distance on your Android device. Power up equipment from remote switches or use your Android to show readings to a customer/manager. Download the Extech GX900 ExView™ App at play.google.com.

Sample GX900 Display Functions



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EX570 CAT IV Industrial MultiMeter + IR Thermometer



Built-in IR Thermometer quickly locates hot spots on electrical panels and HVAC vents without contact.



Built-in IR Thermometer quickly identifies hot spots without contact

- Built-in non-contact IR Thermometer design with laser pointer
- True RMS CAT III-1000V, CAT IV-600V rated with 0.06% basic DCV accuracy
- Diode open circuit voltage of 2.8V DC
- Heavy duty Double molded, water resistant package
- Large backlit 40,000 count LCD with 40-segment bargraph; Auto off with disable feature
- Memory for storage and recall of three measurements
- 1000V input protection on all functions
- Type K thermocouple contact temperature measurements
- Features Hold, Relative and Peak Hold, Min, Max and Average recording
- Complete with double molded test leads, magnetic hanging strap, general purpose Type K bead wire probe, case, and 9V battery; 3 year warranty

SPECIFICATIONS

Basic Accuracy	±0.06%
DC/AC Voltage	0.01mV to 1000V
DC/AC Current	0.01µA to 20A
Resistance	0.01Ω to 40MΩ
Capacitance	0.001nF to 10,000µF
Frequency	0.0001Hz to 40MHz
Temperature (Type K/ non-contact IR)	Type K: -50 to 1382°F (-45 to 750°C) / IR: -22 to 1022°F (-30 to 550°C)
Field of View	30:1 ratio
Duty Cycle	0.01 to 99.99%
Diode (2.8V)/Continuity	Yes
Dimensions/ Weight	7.25x3.25x2.25" (184x83x57mm)/ 12.3oz (349g)

ORDERING

EX570 N

CAT IV Industrial MultiMeter + IR Thermometer

EX540/EX542 CAT IV MultiMeter/Dataloggers with Real Time Streaming



Meter features include continuous wireless data streaming to a PC in real time, drop-proof tested to 6.5ft (2m), and waterproof design (IP67).



CAT IV True RMS MultiMeter datalogs up to 9,999 readings with wireless USB interface capability to transmit readings to your PC in real time

- Real time datalogging or wireless data transmission directly to your PC (30ft/10m)
- True RMS measurements for accurate AC Voltage and Current measurements
- Diode open circuit voltage of 2.8V DC and 1000V input protection on all functions
- Double molded construction for waterproof (IP67) protection
- CAT IV-600V safety rating for industrial applications
- Dual sensitivity frequency functions
- Large backlit triple LCD display with 40,000 counts; Auto off with disable feature
- Complete with double molded test leads, magnetic hanging strap, general purpose Type K bead wire temperature probe, remote receiver with USB cable, Windows® compatible software, 9V battery and carrying case; 3 year warranty

SPECIFICATIONS

Basic Accuracy	±0.06%
DC/AC Voltage	0.01mV to 1000V
DC/AC Current	0.01µA to 20A
Resistance	0.01Ω to 40MΩ
Capacitance	0.001nF to 40mF
Frequency	40Hz to 4kHz (electrical) / 0.001Hz to 100MHz (electronic)
Temperature	-58 to 1382°F (-50 to 750°C)
Duty Cycle	0.1 to 99.90%
Diode (2.8V) / Continuity	Yes
Dimensions/ Weight	7.25x3.25x2.25" (184x83x57mm)/ 12.3oz (349g)

ORDERING

EX540 N

CAT IV MultiMeter/Datalogger with Real Time Streaming (915MHz)

EX542 N

CAT IV MultiMeter/Datalogger with Real Time Streaming (433MHz)

(NOTE: USA, Mexico, and Canada use 915MHz model and majority of other countries use 433MHz model)

MN15A/MN16A Digital Mini MultiMeters



CE



MN16A-KIT includes
MN16A, CT20 Continuity
Tester, DV20 Voltage
Detector, and pouch.

Compact Autoranging or Manual ranging multimeters with Temperature

- Large easy to read digital display
- Complete with battery, Type K bead wire probe and test leads; 1 year warranty
- MN15A (Manual Ranging)**
- 1.5V and 9V Battery tests under load
- MN16A (Autoranging)**
- Advanced functions include AC Current, Capacitance, Frequency, and Duty Cycle
- Auto power off with disable feature

SPECIFICATIONS	MN15A	MN15A Basic Accuracy	MN16A	MN16A Basic Accuracy
DC Voltage	600V (0.1mV)	±0.5%	600V (1mV)	±1.2%
AC Voltage	600V (0.1V)	±1.2%	600V (0.1mV)	±1.5%
DC Current	10A (0.1mA)	±1.2%	10A (0.1µA)	±1.5%
AC Current	—	—	10A (0.1µA)	±1.8%
Resistance	20MΩ (0.1Ω)	±0.8%	40MΩ (0.1Ω)	±1.2%
Capacitance	—	—	100µF (0.01nF)	±3.0%
Frequency	—	—	5MHz (0.001Hz)	±1.2%
Temperature	-4 to 1400°F (-20 to 750°C)	±(3%rdg+9°F/5°C)	-4 to 1400°F (-20 to 750°C)	±(3%rdg+9°F/5°C)
Duty Cycle	—	—	0.1 to 99.9%	±1.2%
Battery Test	9V & 1.5V Batteries	—	—	—
Category rating	CAT III-600V	—	CAT III-600V	—
Dimensions/Weight	5.43x2.83x1.5" (138x72x38mm)/ 5.4oz (153g)	—	—	—

ORDERING

MN15A	Manual Ranging MiniTec® MultiMeter with Temperature
MN16A	Autoranging MiniTec® MultiMeter with Temperature
MN16A-KIT	Electrical Test Kit
TP873	Spare Type K Bead Wire Probe (-22 to 572°F/-30 to 300°C)
409992	Small Soft Case

MN35/MN36 Digital Mini MultiMeters



CE



Displays AC Voltage of
an outlet receptacle

Autoranging or Manual ranging multimeters with Temperature function

- Large easy to read digital display
- Type K Temperature measurements and Continuity and Diode tests
- 1 year warranty
- Includes holster with stand, Type K bead wire probe, battery, and test leads
- MN35 (Manual Ranging/ 8 Functions)**
- 1.5V and 9V Battery test
- MN36 (Autoranging/ 10 Functions)**
- AC Current, Capacitance and Frequency measurements

SPECIFICATIONS	Model MN35	Basic Accuracy	Model MN36	Basic Accuracy
DC Voltage	600V (0.1mV)	±0.5%	600V (0.1mV)	±0.5%
AC Voltage	600V (0.1V)	±1.2%	600V (0.1V)	±1.2%
DC Current	10A (0.1mA)	±1.5%	10A (0.1µA)	±1.2%
AC Current	—	—	10A (0.1µA)	±1.5%
Resistance	20MΩ (0.1Ω)	±0.8%	40MΩ (0.1Ω)	±1.2%
Capacitance	—	—	100µF (0.001nF)	±3.0%
Frequency	—	—	5MHz (0.01Hz)	±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	9V and 1.5V	—	—	—
Power	one 9V battery	—	2 x AAA batteries	—
Dimensions/Wt	5.43x2.83x1.5" (138x72x38mm)/ 5.4oz (153g)	—	—	—

ORDERING

MN35	Manual Ranging Mini Digital MultiMeter
MN36	Autoranging Mini Digital MultiMeter
TP873	Spare Type K Bead Wire Temperature Probe (-22 to 572°F/-30 to 300°C)
409992	Vinyl pouch carrying case

CALIBRATION
TRACEABLE TO NIST

DM220 CAT IV Pocket MultiMeter + NCV


 CAT
IV CE

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-600V, CAT III-1000V safety rating
- Complete with test leads and two AAA batteries; 1 year warranty

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY (%RDG)
DC/AC Voltage	600V	0.1mVDC/1mVAC	±0.8%DC/±1.5% AC
DC/AC Current	200mA	0.1µA	±2.0%DC/±2.5%AC
NC Voltage	100 to 600VAC		
Resistance	40MΩ	0.1Ω	±0.8%
Frequency	10kHz	0.001Hz	±2.0%
Capacitance	200µF	0.001nF	±5.0%
Duty Cycle	0.5 to 99%	0.5%	±(2.0% reading + 5 digits)
Diode/Continuity	Yes		
Dimensions/Weight	4.72x2.2x1.6" (120x55x540mm) / 5.12oz (145g)		

ORDERING

DM220	CAT IV Pocket MultiMeter + NCV
409992	Vinyl pouch case

DM110 Mini Pocket MultiMeter


 cUL us
LISTED CE

10 function Autoranging including Frequency, Capacitance, and Duty Cycle

- Large 4000 count LCD display
- Auto power off with disable feature
- Relative and Data Hold functions
- Built-in storage compartment for integrated test leads
- CAT II - 600V safety rating; Over-range and low battery indication
- Includes test leads, protective holster, button battery, and case; 1 year warranty

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY (%RDG)
AC/DC Voltage	500V	1mV	AC: ±2.3%; DC: ±1.3%
AC/DC Current	400mA	0.01mA	AC: ±2.5%; DC: ±2.0%
Resistance	400 to 40MΩ	0.1Ω	±2.0%
Capacitance	100µF	0.001nF	±3.0%
Frequency	5Hz to 10MHz	0.001Hz	±2%
Duty Cycle	0.1% to 99.9%	0.1%	±1.2%
Diode/Continuity	Yes		
Dimensions/Weight	4.25 x 2.2 x 0.5" (108 x 56 x 11.5mm) / 1.7oz (50g)		

ORDERING

DM110	Mini Pocket MultiMeter
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381676 Pen DMM with Non-Contact Voltage Detector



CE


 Built-in Non-Contact
Voltage Detector

Autoranging multimeter with non-contact voltage detection

- Large 2000 count LCD display
- Data Hold, Range Hold, and Maximum Hold features
- Meets IEC1010-1; CAT III-600V; Auto power off, overload and low battery indication
- Includes test lead with alligator clips, AAA batteries, and case; 1 year warranty

SPECIFICATIONS

Function	Range	Max Resolution	Basic Accuracy (%rdg)
Non-contact Voltage	50 to 600VAC		
AC/DC Voltage	200mV, 2, 20, 200, 600V	0.1mV	AC: ±0.8%; DC: 0.7%
Resistance (Ω)	200, 2k, 20k, 200k, 2M, 20M	0.1Ω	±0.8%
Diode/Continuity	Yes		
Dimensions/Weight	8.2x1.5x1.1" (208x38x29mm) / 3.9oz (110g)		

ORDERING

381676	Pen DMM with Non-Contact Voltage Detector
--------	---

ETK30/ETK35 Electrical Test Kits with 400A Clamp Meter



BEST
VALUE!
NEW

Two kits to choose from providing all the electrical testing needs for installation & repair of electrical systems, HVAC equipment, and automotive

- Model ETK30 kit includes **MA430**: 400A AC Current Meter (see p. 28)
- Model ETK35 kit includes **MA435T**: True RMS 400A AC/DC Current (see p. 29) for troubleshooting large appliances, automotive and motor applications
- 1.2" (30mm) jaw size and built-in Non-Contact Voltage Detector with LED alert
- Both kits include **EX205T**: True RMS Multimeter with Max Hold (see p. 11)
- Data Hold and Max Hold
- Exceptional Value Kit is supplied with test leads, batteries, and attractive storage case that provides protection and organization for the meters and accessories

ORDERING

ETK30	Electrical Test Kit with 400A AC Clamp Meter
ETK35	Electrical Test Kit with True RMS 400A AC/DC Clamp Meter

TK430 Electrical Test Kit



Special
Value Kit

Watch the
Video

www.extech.com/video

Meets plant maintenance, HVAC or electrical technician's needs

- Assembled to provide all the electrical testing needs for installation and repair of electrical systems, HVAC equipment and large appliances
- Kit contains an EX430 True RMS autoranging digital multimeter, MA200 400A clamp meter, 40130 Non-Contact voltage detector plus test leads and temperature probe
- Supplied in a soft carrying case that provides protection and organization for the meters and accessories
- Dimensions: 9.5x6.8x2.8" (241x173x71mm); Weight: 2.6lbs (1.2kg)
- Model EX430:** Autoranging True RMS MultiMeter with 11 functions including Capacitance, Frequency and Temperature. (see p. 13)
- Model MA200:** 400A Clamp Meter with basic AC Current and 1mA resolution. (see p. 31)
- Model 40130:** Non-Contact Voltage Detector detects AC Voltage from 100VAC to 600VAC without touching the source. (see p. 38)

ORDERING

TK430	Electrical Test Kit
480172	AC Line Splitter

TK430-IR Industrial Troubleshooting Kit with IR



Special
Value Kit

Meets plant maintenance, HVAC or electrical technician's needs

- Assembled to provide all the electrical testing needs for installation and repair of electrical systems, HVAC equipment and large appliances
- Non-contact InfraRed thermometer allows for quick surface temperature measurement
- Kit contains an EX430 True RMS autoranging digital multimeter, MA200 400A clamp meter, 42510 Mini IR Thermometer, 40130 Non-Contact voltage detector plus test leads and temperature probe
- Supplied in a heavy duty hard carrying case that provides protection and organization for the meters and accessories
- Dimensions: 14.5x11x4.5" (368x280x114mm); Weight: 4.5lbs (2kg)
- Model EX430:** Autoranging True RMS MultiMeter with 11 functions including Capacitance, Frequency and Temperature. (see p. 13)
- Model MA200:** 400A Clamp Meter with basic AC Current and 1mA resolution. (see p. 31)
- Model 42510:** Wide range mini IR Thermometer measures -58 to 1000°F (-50 to 538°C). Built-in laser identifies target area; 8:1 distance to target ratio

ORDERING

TK430-IR	Electrical Test Kit with IR
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EX505-K Heavy Duty Industrial MultiMeter Kit



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

- Kit includes EX505 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" (248x203x51mm); Weight: 1.2lbs (544g)
- Model EX505:** Industrial grade, CAT IV-600V, 4000 count display, waterproof (IP67), CE/UL listed, drop-proof, rugged multimeter with True RMS functions (see p. 15)
- Model DV25:** Dual Range Non-contact voltage detector (24 to 1000VAC/100 to 1000VAC) + Flashlight with Audible/ Visual indication, and double-molded housing CAT IV-1000V, CE/UL (see p. 38)
- Model TL808:** 8-Piece Professional Test Lead Kit with CAT III-1000V rating

ORDERING

EX505-K Heavy Duty Industrial MultiMeter Kit

MA620-K Industrial DMM/Clamp Meter Test Kit



CAT IV MultiMeter and True RMS Clamp Meter with integrated AC Voltage Detector

- Kit contains EX505 rugged, waterproof multimeter with 11 functions, MA620 600A True RMS AC Clamp-on MultiMeter with built-in non-contact AC Voltage Detector, test leads and 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" (248x203x54mm); Weight: 1.5lbs (680g)
- Model EX505:** Industrial grade, CAT IV-600V, 4000 count display, waterproof (IP67), CE/UL listed, drop-proof, rugged multimeter with True RMS functions (see p. 15)
- Model MA620:** 600A True RMS 6000 count AC Clamp-on MultiMeter with built-in non-contact AC Voltage Detector, test leads and temperature probe; CE/ETL approved (see p. 29)

ORDERING

MA620-K Industrial DMM/Clamp Meter Test Kit

MA640-K Phase Rotation/Clamp Meter Test Kit



Ideal kit for plant maintenance — True RMS Clamp Meter with multimeter functions, 3-phase rotation tester, and CAT IV AC Voltage Detector

- **MA640:** 600A True RMS 6000 count AC/DC Clamp-on MultiMeter with built-in non-contact AC Voltage Detector (see p. 29 for specifications)
- **480400:** 3-Phase Rotation Tester with multi-line LCD display, durable double-molded housing, and easy-to-open wide-jaw alligator clips (see p. 36 for specifications)
- **DV25:** Dual Range AC Voltage Detector (24 to 1000VAC/100 to 1000VAC) + Flashlight with Audible/ Visual indication, double-molded housing, and CAT IV-1000V safety rating (see p. 38 for specifications)
- Set of double molded professional test leads
- Type K thermocouple bead probe and Type K to Banana Input Adaptor
- Supplied in a heavy duty carrying case that provides protection and organization for the meters whenever they are needed
- Dimensions: 9.8x8x2" (248x203x54mm); Weight: 1.3lbs (590g)

ORDERING

MA640-K Phase Rotation/Clamp Meter Test Kit

Clamp Meter Index Guide

Pick the right Clamp Meter for your application



Compact Clamp Series

Compact, capable and affordable Clamp Meters are ideal for tight areas. Features range from built-in NCV detection to Autoranging. Ideal for DIYers, mechanics and technicians.
p. 30-31

Mini Clamp Series

Mini Clamp Meters with extra-small diameter jaw sizes for reaching into very small areas while providing high resolution and low-current sensitivity. All models measure both AC/DC Current and Voltage, along with choices of Averaging or True RMS.
p. 32-33

MA400 Series

Compact 400A AC or AC/DC models with built-in Non-Contact Voltage detector and Type K temperature. 1.2" (30mm) jaw size fits up to 350MCM conductors. Select True RMS or Averaging models.
p. 28-29

MA600 Series

Robust 600A AC or AC/DC models with built-in Non-Contact Voltage detector and Type K temperature. 1.5" (40mm) jaw size fits up to 500MCM conductors. Select True RMS or Averaging models.
p. 29

EX600 HVAC Series

Best-in-class multifunctional Clamp Meters. 400A AC/DC True RMS with dual Type K thermocouple input for differential temperature measurements. Built-in Non-Contact Voltage Detector and multimeter functions plus advanced model with built-in IR Thermometer for surface temperatures.
p. 26

EX700 Series

Rugged 800A AC or AC/DC models with 1.2" (30mm) jaw size. Available True RMS or Averaging models and Type K temperature. Test Lead inputs for multimeter readings include Voltage, Resistance, Capacitance, and Frequency.
p. 27

EX800 Series

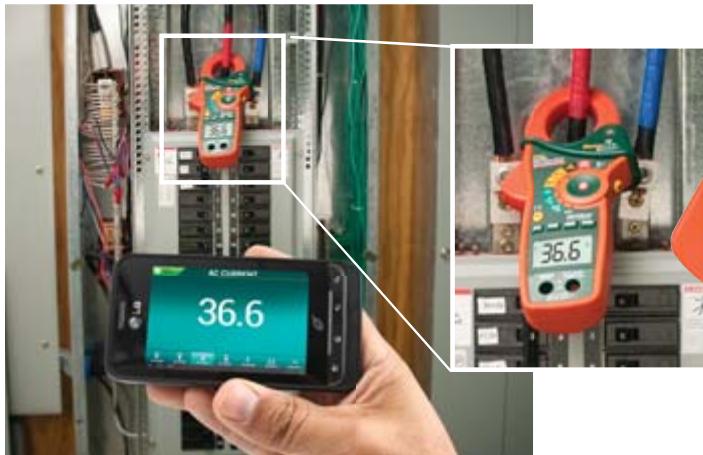
Professional grade, 1000A True RMS AC or AC/DC Clamp Meters with 1.7" (43mm) jaw size. Built-in non-contact IR Thermometer. Models available with CAT IV rating for measurements in high current/voltage areas, plus Bluetooth connectivity to Android mobile devices.
p. 25

High Current Clamp Series

Powerful clamp meters that measure high current with models that go up to 2000A. Large jaw sizes range from 1.6" (40mm) to 2.2" (50mm) fit conductors up to 1000MCM. Choose from AC or AC/DC measurements, power quality diagnostics, True RMS accuracy, and much more.
p. 34-35

NIST traceable certificate with data is available when you order your meter with Certificate Traceable to NIST. Look for this symbol  on products that offer NIST.

EX850 Monitor Readings via Bluetooth®



Clamp meter transmits readings to Android smartphones and tablets. View key electrical readings taken by the EX850 at a safe distance on your Android device. Power up equipment from remote switches or use your Android to show readings to a customer/manager. Download the Extech ExView™ EX850 App at play.google.com.



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 Watch the Video
www.extech.com/video

SPECIFICATIONS

True RMS
Display counts
Jaw size/Cable size
AC Current (Max Res.)
DC Current (Max Res.)
Basic ACA Accuracy (% rdg)
AC/DC Voltage (Max Res.)
Resistance (Max Res.)
Capacitance (Max Res.)
Frequency (Max Res.)
Temperature (Type K)
Temperature (IR)/ Field of View
Diode (2.8V)/ Continuity
Wireless Communication
UL, ETL, CE, Category Rating
Dimensions/Weight
Warranty

ACCESSORIES (SEE P. 40-43 FOR TEST LEAD ACCESSORIES)

TP873	Replacement Bead wire Temperature probe (-22 to 572°F/-30 to 300°C)
TL841	Test Lead Kit
TL833	Industrial Test Lead Kit
TL831	Master Test Lead Kit
TL803	Standard Test Leads





EX820 1000A True RMS AC Clamp Meter + IR Thermometer

True RMS AC clamp-on multimeter gives you accurate readings of non-sinusoidal waveforms

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



EX830 1000A True RMS AC/DC Clamp Meter + IR Thermometer

True RMS AC clamp-on multimeter and DC Current function

- DC Current function to 1000A
- True RMS AC Voltage and Current measurements provide accurate readings regardless of waveforms
- Built-in non-contact IR Thermometer design with laser pointer for locating hot spots
- Diode open circuit voltage of 2.8V DC
- Peak hold captures inrush currents and transients
- Data Hold, Min/Max, and Auto Power off
- Complete with test leads, 9V battery, general purpose Type K probe, and case



EX850 with Bluetooth connectivity to most Android devices



EX840/EX850 CAT IV 1000A True RMS AC/DC Clamp Meters + IR and Bluetooth®

CAT IV 600V approval rating assures maximum safety and functionality

- AC/DC Voltage to 1000V and AC/DC Current to 1000A
- 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, 9V battery, Professional test lead set, general purpose Type K probe, and case
- **Model EX850** - Integrated Bluetooth® connects with most Android devices to transmit readings for remote viewing; Works with free Android App; Download the Extech EX850 ExView™ App at play.google.com

EX820 ■

Yes	Yes	Yes
4000 count backlit LCD	4000 count backlit LCD	4000 count backlit LCD
1.7" (43mm); 750MCM	1.7" (43mm); 750MCM	1.7" (43mm); 750MCM
1000A (0.1A)	1000A (0.1A)	1000A (0.1A)
—	1000A (0.1A)	1000A (0.1A)
±2.5% (AC)	±2.5% (AC); ±2.5% (DC)	±2.5% (AC); ±2.5% (DC)
600V (0.1mV)	600V (0.1mV)	1000V (0.1mV)
40MΩ (0.1Ω)	40MΩ (0.1Ω)	40MΩ (0.1Ω)
40mF (0.001nF)	40mF (0.001nF)	40mF (0.001nF)
4kHz (1Hz)	4kHz (1Hz)	4kHz (1Hz)
-4 to 1400°F (-20 to 760°C)	-4 to 1400°F (-20 to 760°C)	-4 to 1400°F (-20 to 760°C)
-58 to 518°F (-50 to 270°C) / 8:1 ratio	-58 to 518°F (-50 to 270°C) / 8:1 ratio	-58 to 518°F (-50 to 270°C) / 8:1 ratio
Yes	Yes	Yes
—	—	■ No ▲ BlueTooth
UL, CE, CAT III-600V	UL, CE, CAT III-600V	ETL, CE, CAT IV-600V; CAT III-1000V
10.6x4.3x2" (270x110x50mm)/ 13.6oz (386g)	10.6x4.3x2" (270x110x50mm)/ 13.6oz (386g)	10.6x4.3x2" (270x110x50mm)/ 13.6oz (386g)
1 year	1 year	3 years

EX830 ■

Yes	Yes	Yes
4000 count backlit LCD	4000 count backlit LCD	4000 count backlit LCD
1.7" (43mm); 750MCM	1.7" (43mm); 750MCM	1.7" (43mm); 750MCM
1000A (0.1A)	1000A (0.1A)	1000A (0.1A)
—	1000A (0.1A)	1000A (0.1A)
±2.5% (AC)	±2.5% (AC); ±2.5% (DC)	±2.5% (AC); ±2.5% (DC)
600V (0.1mV)	600V (0.1mV)	1000V (0.1mV)
40MΩ (0.1Ω)	40MΩ (0.1Ω)	40MΩ (0.1Ω)
40mF (0.001nF)	40mF (0.001nF)	40mF (0.001nF)
4kHz (1Hz)	4kHz (1Hz)	4kHz (1Hz)
-4 to 1400°F (-20 to 760°C)	-4 to 1400°F (-20 to 760°C)	-4 to 1400°F (-20 to 760°C)
-58 to 518°F (-50 to 270°C) / 8:1 ratio	-58 to 518°F (-50 to 270°C) / 8:1 ratio	-58 to 518°F (-50 to 270°C) / 8:1 ratio
Yes	Yes	Yes
—	—	■ No ▲ BlueTooth
UL, CE, CAT III-600V	UL, CE, CAT III-600V	ETL, CE, CAT IV-600V; CAT III-1000V
10.6x4.3x2" (270x110x50mm)/ 13.6oz (386g)	10.6x4.3x2" (270x110x50mm)/ 13.6oz (386g)	10.6x4.3x2" (270x110x50mm)/ 13.6oz (386g)
1 year	1 year	3 years

■ EX840 ■ | ▲ EX850

Yes	Yes	Yes
4000 count backlit LCD	4000 count backlit LCD	4000 count backlit LCD
1.7" (43mm); 750MCM	1.7" (43mm); 750MCM	1.7" (43mm); 750MCM
1000A (0.1A)	1000A (0.1A)	1000A (0.1A)
—	1000A (0.1A)	1000A (0.1A)
±2.5% (AC)	±2.5% (AC); ±2.5% (DC)	±2.5% (AC); ±2.5% (DC)
600V (0.1mV)	600V (0.1mV)	1000V (0.1mV)
40MΩ (0.1Ω)	40MΩ (0.1Ω)	40MΩ (0.1Ω)
40mF (0.001nF)	40mF (0.001nF)	40mF (0.001nF)
4kHz (1Hz)	4kHz (1Hz)	4kHz (1Hz)
-4 to 1400°F (-20 to 760°C)	-4 to 1400°F (-20 to 760°C)	-4 to 1400°F (-20 to 760°C)
-58 to 518°F (-50 to 270°C) / 8:1 ratio	-58 to 518°F (-50 to 270°C) / 8:1 ratio	-58 to 518°F (-50 to 270°C) / 8:1 ratio
Yes	Yes	Yes
—	—	■ No ▲ BlueTooth
UL, CE, CAT III-600V	UL, CE, CAT III-600V	ETL, CE, CAT IV-600V; CAT III-1000V
10.6x4.3x2" (270x110x50mm)/ 13.6oz (386g)	10.6x4.3x2" (270x110x50mm)/ 13.6oz (386g)	10.6x4.3x2" (270x110x50mm)/ 13.6oz (386g)
1 year	1 year	3 years

Ideal for HVACR, And Much More...

The Extech EX623 enables HVACR technicians to check circuits, sensors and controllers, perform amperage load tests without interrupting current flow, measure both system and surface temperatures using dual Type K thermocouple inputs and the built-in IR thermometer, as well as identify energized components using the NCV detector.


www.extech.com/video

ACCESSORIES (SEE P. 40-43 FOR DETAILS)

TP200	Type K Pipe Clamp Probe (212°F/100°C)
TP400	Type K Pipe Clamp Probe (450°F/232°C)
480172	AC Line Splitter (see p. 32)



See p. 40, 42 for test lead kits



TP200

TP400



EX613 HVAC AC/DC TRMS 400A Clamp Meter+NCV

Dual thermocouple inputs plus Non-contact Voltage Detector (NCV)

- Dual type K thermocouple input with Differential Temperature function (T1, T2, T1-T2)
- Built-in non-contact Voltage detector
- DC μ A multimeter function for HVAC flame rod Current measurements
- Data Hold plus fast Peak Hold of current surges during motor startup
- Measures motor capacitors to 40,000 μ F
- Auto off with disable function
- Autoranging (manual override)
- Includes double molded test leads, 9V battery, two general purpose Type K bead wire probes, and carrying case



EX623 HVAC AC/DC TRMS 400A Clamp Meter+NCV+IR

Built-in IR Thermometer, AC/DC function, dual thermocouple inputs and Non-contact Voltage Detector (NCV)

- DC Current with Zero function
- Built-in non-contact IR Thermometer with laser pointer
- Dual type K thermocouple input with Differential Temperature function (T1, T2, T1-T2)
- DC μ A function for HVAC flame rod Current measurements
- Data Hold plus fast Peak Hold of current surges
- Measures motor capacitors to 40,000 μ F
- Auto off with disable function
- Autoranging (manual override)
- Includes double molded test leads, 9V battery, two general purpose Type K bead wire probes, and carrying case

SPECIFICATIONS

EX613 N

EX623 N

True RMS	Yes	Yes
Jaw size/Cable size	1.25" (32mm); 500MCM	1.25" (32mm); 500MCM
AC/DC Current	400.0A AC/DC	400.0A AC/DC
Max resolution	10mA	10mA
Basic ACA accuracy	$\pm 1.5\%$	$\pm 1.5\%$
AC/DC Voltage (Max Res.)	600V (0.1mV)/600V (0.01mV)	600V (0.1mV)/600V (0.01mV)
DC μ A Current	4000 μ A (0.01 μ A)	4000 μ A (0.01 μ A)
Resistance (Max Res.)	40.000M Ω (0.01 Ω)	40.000M Ω (0.01 Ω)
Capacitance (Max Res.)	40mF (0.01nF)	40mF (0.01nF)
Frequency (Max Res.)	40MHz (0.001Hz)	40MHz (0.001Hz)
Temperature (Type K)	-58 to 1832°F (-50 to 1000°C)	-58 to 1832°F (-50 to 1000°C)
Temperature (IR)	—	-58 to 518°F (-50 to 270°C)
Diode (2.8V)/ Continuity	Yes	Yes
Duty Cycle	0.5 to 99.0%	0.5 to 99.0%
UL, ETL, CE, Category Rating	ETL, CE, CAT III-600V	ETL, CE, CAT III-600V
Dimensions/Weight	9x3.1x1.9" (229x80x49mm)/ 10.7oz (303g)	9x3.1x1.9" (229x80x49mm)/ 10.7oz (303g)
Warranty	1 year	1 year



EX710 800A AC Clamp Meter

Ergonomically designed in rugged double molded housing

- Data Hold and Auto power off
- Peak Hold for inrush currents
- AC/DC Voltage, Resistance, Capacitance, and Frequency
- Includes test leads, 9V battery, and belt holster



EX720 800A True RMS AC Clamp Meter with Type K Temperature

- True RMS clamp meter with Type K surface Temperature measurements
- True RMS measurements
 - Type K thermocouple temperature function
 - Data Hold and Auto power off
 - Peak Hold for inrush currents
 - AC/DC Voltage, Resistance, Capacitance, and Frequency
 - Includes test leads, 9V battery, general purpose Type K bead wire probe, and belt holster



EX730 800A True RMS AC/DC Clamp Meter with Type K Temperature

True RMS AC/DC Current clamp meter with Type K surface Temperature measurements

- DC Current with Zero function
- True RMS measurements
- Type K thermocouple temperature function
- Data Hold and Auto power off
- Peak Hold for inrush currents
- AC/DC Voltage, Resistance, Capacitance, and Frequency
- Includes test leads, 9V battery, general purpose Type K bead wire probe, and belt holster

EX710 ■

—	Yes	Yes	True RMS
1.2" (30mm); 500MCM	1.2" (30mm); 500MCM	1.2" (30mm); 500MCM	Jaw size/Cable size
40.00A, 400.0A, 800A AC/ —	40.00A, 400.0A, 800A AC/ —	40.00A, 400.0A, 800A AC/DC	AC/DC Current
0.01A (AC)	0.01A (AC)	0.01A AC/DC	Max resolution
±2.8%	±2.5%	±2.8%	Basic ACA accuracy
600V (0.1mV)	600V (0.1mV)	600V (0.1mV)	AC/DC Voltage (Max Res.)
—	—	—	DC μ A Current
40M Ω (0.1 Ω)	40M Ω (0.1 Ω)	40M Ω (0.1 Ω)	Resistance (Max Res.)
40mF (0.001nF)	40mF (0.001nF)	40mF (0.001nF)	Capacitance (Max Res.)
4kHz (1Hz)	4kHz (1Hz)	4kHz (1Hz)	Frequency (Max Res.)
—	-4 to 1400°F (-20 to 760°C)	-4 to 1400°F (-20 to 760°C)	Temperature (Type K-dual input)
—	—	—	Temperature (IR)
Yes	Yes	Yes	Diode (2.8V)/ Continuity
—	—	—	Duty Cycle
UL, CE, CAT III-600V 9x3.1x1.9" (229x80x49mm) / 10.7oz (303g)	UL, CE, CAT III-600V 9x3.1x1.9" (229x80x49mm) / 10.7oz (303g)	UL, CE, CAT III-600V 9x3.1x1.9" (229x80x49mm) / 10.7oz (303g)	UL, ETL, CE, Category Rating Dimensions/Weight
1 year	1 year	1 year	Warranty

EX720 ■

—	Yes	Yes	True RMS
1.2" (30mm); 500MCM	1.2" (30mm); 500MCM	1.2" (30mm); 500MCM	Jaw size/Cable size
40.00A, 400.0A, 800A AC/ —	40.00A, 400.0A, 800A AC/ —	40.00A, 400.0A, 800A AC/DC	AC/DC Current
0.01A (AC)	0.01A (AC)	0.01A AC/DC	Max resolution
±2.8%	±2.5%	±2.8%	Basic ACA accuracy
600V (0.1mV)	600V (0.1mV)	600V (0.1mV)	AC/DC Voltage (Max Res.)
—	—	—	DC μ A Current
40M Ω (0.1 Ω)	40M Ω (0.1 Ω)	40M Ω (0.1 Ω)	Resistance (Max Res.)
40mF (0.001nF)	40mF (0.001nF)	40mF (0.001nF)	Capacitance (Max Res.)
4kHz (1Hz)	4kHz (1Hz)	4kHz (1Hz)	Frequency (Max Res.)
—	-4 to 1400°F (-20 to 760°C)	-4 to 1400°F (-20 to 760°C)	Temperature (Type K-dual input)
—	—	—	Temperature (IR)
Yes	Yes	Yes	Diode (2.8V)/ Continuity
—	—	—	Duty Cycle
UL, CE, CAT III-600V 9x3.1x1.9" (229x80x49mm) / 10.7oz (303g)	UL, CE, CAT III-600V 9x3.1x1.9" (229x80x49mm) / 10.7oz (303g)	UL, CE, CAT III-600V 9x3.1x1.9" (229x80x49mm) / 10.7oz (303g)	UL, ETL, CE, Category Rating Dimensions/Weight
1 year	1 year	1 year	Warranty

EX730 ■

—	Yes	Yes	True RMS
1.2" (30mm); 500MCM	1.2" (30mm); 500MCM	1.2" (30mm); 500MCM	Jaw size/Cable size
40.00A, 400.0A, 800A AC/ —	40.00A, 400.0A, 800A AC/ —	40.00A, 400.0A, 800A AC/DC	AC/DC Current
0.01A (AC)	0.01A (AC)	0.01A AC/DC	Max resolution
±2.8%	±2.5%	±2.8%	Basic ACA accuracy
600V (0.1mV)	600V (0.1mV)	600V (0.1mV)	AC/DC Voltage (Max Res.)
—	—	—	DC μ A Current
40M Ω (0.1 Ω)	40M Ω (0.1 Ω)	40M Ω (0.1 Ω)	Resistance (Max Res.)
40mF (0.001nF)	40mF (0.001nF)	40mF (0.001nF)	Capacitance (Max Res.)
4kHz (1Hz)	4kHz (1Hz)	4kHz (1Hz)	Frequency (Max Res.)
—	-4 to 1400°F (-20 to 760°C)	-4 to 1400°F (-20 to 760°C)	Temperature (Type K-dual input)
—	—	—	Temperature (IR)
Yes	Yes	Yes	Diode (2.8V)/ Continuity
—	—	—	Duty Cycle
UL, CE, CAT III-600V 9x3.1x1.9" (229x80x49mm) / 10.7oz (303g)	UL, CE, CAT III-600V 9x3.1x1.9" (229x80x49mm) / 10.7oz (303g)	UL, CE, CAT III-600V 9x3.1x1.9" (229x80x49mm) / 10.7oz (303g)	UL, ETL, CE, Category Rating Dimensions/Weight
1 year	1 year	1 year	Warranty

Compact, Capable CAT III Safety Rated

Great for accessing tight spots, the compact MA430 Series of professional clamp meters are easy to use and easy on your wallet. Offering an ample 1.2" (30mm) jaw opening to access conductors up to 350MCM, these clamp meters have large easy-to-read screens, and ergonomic thumb-dials allow one-handed operation.



Watch the
Video



www.extech.com/video

MA620/MA340 only

ACCESSORIES (SEE P. 40-43)

480172 AC Line Splitter (see p. 32)

TP873 Replacement Bead wire Temperature probe (-22 to 572°F/-30 to 300°C)

TL803 Replacement Test Leads



See Special Value Kits
on p. 22-23.



MA250 200A AC Clamp Meter + NCV

20A and 200A Current ranges plus built-in Non-Contact Voltage (NCV) detector with LED alert

- 1.2" (30mm) jaw size for conductors up to 350MCM
- Relative Mode for Capacitance Zero and Offset Adjustment
- Type K temperature function
- Data Hold
- Auto Power Off
- Complete with test leads, general purpose Type K bead wire probe, two AAA batteries, and carrying case



MA430/MA430T 400A AC Clamp Meters + NCV

2A, 20A, 200A, and 400A Current ranges plus built-in Non-Contact Voltage (NCV) detector with LED alert

- 1.2" (30mm) jaw size for conductors up to 350MCM
- Backlit LCD display
- Data Hold
- Low battery indication and Auto Power Off
- **Model MA430T** takes True RMS measurements for accurate readings of non-sinusoidal waveforms
- Complete with test leads, 9V battery, and soft case

See Special Value
Kits on p. 22-23

SPECIFICATIONS	MA250 N	MA430 N ▲ MA430T N
True RMS	—	■ No ▲ Yes
Display counts	4000 count LCD	2000 count LCD (backlit)
Jaw size/Cable size	1.2" (30mm); 350MCM	1.2" (30mm); 350MCM
AC Current	20A, 200A	2A, 20A, 200A, 400A
DC Current	—	—
Max Resolution	0.01A (AC)	0.001A
Basic ACA Accuracy (% rdg)	±2.5%	±2.5%
AC/DC Voltage (Max Res.)	600V (0.1mV)	600V (0.1mV)
Resistance (Max Res.)	40.00MΩ (0.1Ω)	20MΩ (0.1Ω)
Capacitance (Max Res.)	100µF (0.01nF)	—
Frequency (Max Res.)	10kHz (1Hz)	—
Temperature	-4 to 1400°F (-20 to 760°C)	—
Duty Cycle	0.1 to 99.9%	—
Diode/Continuity	Yes	Yes
Data Hold	Yes	Yes
Min/Max	Min/Max	Max only
UL, ETL, CE, Category Rating	ETL, CE, CAT III-600V	ETL, CE, CAT III-600V
Dimensions/Weight	7.9x2.6x1.5" (200x66x37mm)/ 7.2oz (205g)	7.8x2.8x1.6" (197x70x40mm)/ 6.5oz (183g)
Warranty	1 year	1 year



MA435T True RMS 400A AC/DC Clamp Meter + NCV

40A and 400A Current ranges and True RMS for accurate readings of non-sinusoidal waveforms

- DC Current function
- Built-in Non-Contact Voltage (NCV) detector with LED alert
- 1.2" (30mm) jaw size for conductors up to 350MCM
- Backlit LCD display
- Type K temperature function
- Data Hold
- Low battery indication and Auto Power Off
- Complete with test leads, general purpose Type K bead wire temperature probe, 9V battery, and soft case

See Special Value Kits on p. 22-23



MA620 True RMS 600A AC Clamp Meter + NCV

60A and 600A Current ranges and True RMS for accurate readings of non-sinusoidal waveforms

- Built-in Non-Contact Voltage (NCV) detector with LED alert
- 1.5" (40mm) jaw size for conductors up to 500MCM
- Backlit LCD with bargraph
- Type K temperature function
- Relative Mode for Capacitance Zero and Offset Adjustment
- Data Hold, MIN/MAX, and Auto Power Off
- Complete with test leads, general purpose Type K bead wire probe, 9V battery and carrying case

See Special Value Kits on p. 22-23



MA640 True RMS 600A AC/DC Clamp Meter + NCV

60A and 600A Current ranges and True RMS for accurate readings of non-sinusoidal waveforms

- DC Current function
- Built-in Non-Contact Voltage (NCV) detector with LED alert
- 1.5" (40mm) jaw size for conductors up to 500MCM
- Backlit LCD with bargraph
- Type K temperature function
- Relative Mode for Capacitance Zero and Offset Adjustment
- Data Hold, MIN/MAX, and Auto Power Off
- Complete with test leads, general purpose Type K bead wire probe, 9V battery and carrying case

See Special Value Kits on p. 22-23

MA435T <small>N</small>	MA620 <small>N</small>	MA640 <small>N</small>	SPECIFICATIONS
Yes	Yes	Yes	True RMS
4000 count LCD (backlit)	6000 count LCD (backlit)	6000 count LCD (backlit)	Display counts
1.2" (30mm); 350MCM	1.5" (40mm); 500MCM	1.5" (40mm); 500MCM	Jaw size/Cable size
40A, 400A	60A, 600A	60A, 600A	AC Current
40A, 400A	—	60A, 600A	DC Current
0.01A	0.01A	0.01A	Max Resolution
±2.5%	2.8%	2.8%	Basic ACA Accuracy (% rdg)
600V (0.1mV)	600V (1mV)	600V (1mV)	AC Voltage (Max Res.)
40MΩ (0.1Ω)	60MΩ (0.1Ω)	60MΩ (0.1Ω)	Resistance (Max Res.)
100µF (0.01nF)	4000.0µF (0.01nF)	4000.0µF (0.01nF)	Capacitance (Max Res.)
10Hz to 10kHz (0.01Hz)	10kHz (0.001Hz)	10kHz (0.001Hz)	Frequency (Max Res.)
-4 to 1400°F (-20 to 760°C)	-4 to 1400°F (-20 to 760°C)	-4 to 1400°F (-20 to 760°C)	Temperature
Yes	0.1 to 99.9%	0.1 to 99.9%	Duty Cycle
Yes	Yes	Yes	Diode/Continuity
Yes	Yes	Yes	Data Hold
Max only	Min/Max	Min/Max	Min/Max
ETL, CE, CAT III-600V	ETL, CE, CAT III-600V	ETL, CE, CAT III-600V	UL, ETL, CE, Category Rating
7.8x2.8x1.6" (197x70x40mm)/ 6.5oz (183g)	9.1x3x1.5" (232x77x39mm)/ 9.6oz (271g)	9.1x3x1.5" (232x77x39mm)/ 9.6oz (271g)	Dimensions/Weight
1 year	1 year	1 year	Warranty

The Choice for Technical Education

"My son used these meters (MA200) in college and I was impressed when I got a chance to use one. If it was good enough for the college to teach their students, it must be a quality product. I haven't been disappointed."

Dave H., Minnesota



MA150 200A AC Mini Clamp Meters+ Voltage Detector

Clamp meters with built-in AC Voltage detector + flashlight

- Functions include AC Current, AC/DC Voltage, and Resistance
- MAX Hold
- Backlit LCD
- Non-Contact AC Voltage (NCV) detector via clamp tip
- Built-in white LED flashlight
- Auto power off
- Complete with pouch case and two AAA batteries

ACCESSORIES (SEE P. 40-43)

480172	AC Line Splitter (see p. 32)
TP873	Replacement Bead wire Temperature probe (-22 to 572°F/-30 to 300°C)
TL803	Replacement Test Leads

SPECIFICATIONS	MA150 <small>N</small>
True RMS	—
Display counts	2000 count backlit LCD
Jaw size/Cable size	0.7" (18mm); 300MCM
AC Current	200A
DC Current	—
Max Resolution	0.1A
Basic ACA Accuracy (% rdg)	±3%
AC Voltage (Max Res.)	NCV, 600V (0.1mV)
DC Voltage (Max Res.)	600V (0.1mV)
Resistance (Max Res.)	20MΩ (0.1Ω)
Capacitance (Max Res.)	—
Frequency (Max Res.)	—
Temperature	—
Duty Cycle	—
Diode/Continuity	Yes
Data Hold	—
Min/Max	Max
UL, ETL, CE, Category Rating	CE, CAT III-300V
Dimensions/Weight	6.5x2.6x1.3" (164x65x32mm) /6.2oz (176g)
Warranty	1 year





MA120 200A AC/DC Mini Clamp Meter+ Voltage Detector

Clamp meter with built-in
AC Voltage detector + flashlight

- Functions include AC/DC Current and Frequency
- Data Hold
- Zero Function
- Backlit LCD
- Non-Contact AC Voltage (NCV) detector via clamp tip
- Built-in white LED flashlight
- Auto power off
- Complete with pouch case and two AAA batteries



MA200/MA220 400A AC or AC/DC Clamp Meters

Easy-to-use, economical
clamp meters

- AC Current measurement
- Compact size allows measurements in tight locations
- Auto power off
- Complete with test leads, case and two AAA batteries (MA220 also includes general purpose Type K bead wire probe)

MA220 additional features

- AC/DC Current measurement
- Capacitance, Frequency, Temperature and Duty Cycle
- One touch "Auto Zero"



MA410/MA410T 400A AC Clamp Meter + NCV

40A and 400A Current ranges plus built-in non-contact Voltage detector with LED alert

- 1.2" (30mm) jaw size for conductors up to 350MCM
- Relative Mode for Capacitance Zero, and Offset Adjustment
- Data Hold and MIN/MAX
- Auto Power Off
- Complete with test leads, general purpose Type K bead wire probe, two AAA batteries, and carrying case

MA410T additional features

- True RMS

MA120

—	—
2000 count backlit LCD	—
0.7" (18mm); 300MCM	■ 2000 count LCD ▲ 4000 count LCD
200A	0.9" (23mm); 300MCM
200A	2.000A, 20.00A, 200.0, 400A
0.1A	■ No ▲ 2.000A, 20.00A, 200.0, 400A
±3%	■ 0.001A AC ▲ 0.01A AC/DC
NCV	■ ±2.5% ▲ ±3%
—	600V (0.1mV)
—	600V (0.1mV)
—	■ 20MΩ (0.1Ω) ▲ 40MΩ (0.1Ω)
—	■ No ▲ 100µF (0.01nF)
—	■ No ▲ 150kHz (0.001Hz)
1kHz (0.01Hz)	■ No ▲ -58 to 1832°F (-50 to 1000°C)
—	■ No ▲ 0.5% to 99.0%
—	Yes
Yes	Yes
—	Max ▲ —
CE, CAT III-300V	UL, CE, CAT III-600V
6.5x2.6x1.3" (164x65x32mm) /6.2oz (176g)	7.9x2x1.4" (200x50x35mm)/7oz (200g)
1 year	1 year

■ MA200 | ▲ MA220

—	—
2000 count backlit LCD	—
0.7" (18mm); 300MCM	■ 2000 count LCD ▲ 4000 count LCD
200A	0.9" (23mm); 300MCM
200A	2.000A, 20.00A, 200.0, 400A
0.1A	■ No ▲ 2.000A, 20.00A, 200.0, 400A
±3%	■ 0.001A AC ▲ 0.01A AC/DC
NCV	■ ±2.5% ▲ ±3%
—	600V (0.1mV)
—	600V (0.1mV)
—	■ 20MΩ (0.1Ω) ▲ 40MΩ (0.1Ω)
—	■ No ▲ 100µF (0.01nF)
—	■ No ▲ 150kHz (0.001Hz)
1kHz (0.01Hz)	■ No ▲ -58 to 1832°F (-50 to 1000°C)
—	■ No ▲ 0.5% to 99.0%
—	Yes
Yes	Yes
—	Max ▲ —
CE, CAT III-300V	UL, CE, CAT III-600V
6.5x2.6x1.3" (164x65x32mm) /6.2oz (176g)	7.9x2x1.4" (200x50x35mm)/7oz (200g)
1 year	1 year

■ MA410 | ▲ MA410T

■ No ▲ True RMS
4000 count LCD
1.2" (30mm); 350MCM
40A, 400A
—
0.01A (AC)
±2.5%
600V (0.1mV)
600V (0.1mV)
40.00MΩ (0.1Ω)
100µF (0.01nF)
10kHz (1Hz)
-4 to 1400°F (-20 to 760°C)
0.1 to 99.0%
Yes
Yes
Min/Max
ETL, CE, CAT III-600V
7.9x2.6x1.5" (200x66x37mm)/ 7.2oz (205g)
1 year

Small Size, Big Performance

"The Extech mini-clamp was perfect for reaching tight spaces due to the narrower design and thinner clamps. And where the Fluke only offered four functions, Extech offered six."

Ilya K., United States Marine Corps,
North Carolina



480172

ACCESSORIES (SEE P. 40-43 FOR TEST LEADS)

480172 AC Line Splitter



380942 30A AC/ 40A DC True RMS Mini Clamp Meter with 0.1mA Resolution

Highest resolution and accuracy at low currents

- Low AC/DC Current measurements with high resolution to 0.1mA AC and 1mA DC
- Fast 40 segment bargraph
- One touch Auto Zero for DC Current measurements
- Auto power off with disable feature
- Data Hold
- Complete with test leads, wrist strap, 2 AA batteries and case

Take Easy AC Current Measurements without Separating the Conductors!

Buy an AC Current 480172 AC Line Splitter

- Enables users of a clamp meter to measure AC current on a 2-wire or 3-wire power cord to 15A
- Fits clamp jaw size 0.75" (19mm) and above
- Provides easy and safe measurements of current without the need to separate the conductors
- Plugging the power connector into the Line Splitter separates the hot/live conductor from the neutral (and ground)
- Also features voltage check function
- Dimensions: 5.25x2x1" (133x51x25mm), Weight: 5.8oz (164.4g)

SPECIFICATIONS

380942 N

True RMS	True RMS
Display counts	4000 count LCD
Jaw size/Cable size	0.9" (23mm); 4/0 AWG
AC Current	400mA, 4A, 30A
DC Current	4A, 40A
Max Resolution	AC: 0.1mA, DC: 0.001A
Basic ACA Accuracy (% rdg)	±1.5%
AC Voltage (Max Res.)	400V (0.1V)
DC Voltage (Max Res.)	400V (0.1V)
Resistance (Max Res.)	—
Frequency (Max Res.)	—
Diode/Continuity	—
Data Hold	Yes
Min/Max/Peak	Min/Max
UL, CE, Category Rating	UL, CE, CAT III-300V
Dimensions	7x1.8x1.3" (178x45x32mm)
Weight	8oz (225g)
Warranty	1 year

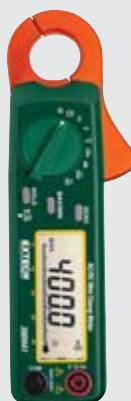




380950 80A AC/DC Mini Clamp Meter

Small jaw size (0.5"/12mm)
fits into tight spaces

- 1mA resolution
- Voltage, Resistance, Frequency and Duty Cycle measurement
- Auto power off
- CAT III-600V
- Complete with test leads, carrying case and two 1.5V AAA batteries



380941 200A AC/DC Mini Clamp Meter

High resolution mini clamp with
Voltage, Frequency, and Resistance

- High resolution to 10mA AC/DC
- Fast 40 segment bargraph
- One touch Auto Zero for DC Current measurements
- Complete with test leads, wrist strap, 2 AA batteries and carrying case



380947 400A AC/DC True RMS Mini Clamp Meter

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

- Non-contact Frequency measurements to 10kHz through the clamp jaws
- Fast 40 segment bargraph
- One touch Auto Zero
- Complete with wrist strap, 2 AA batteries and carrying case

380950

—	—
4000 count LCD	4000 count LCD
0.5" (12mm); 3/0 AWG	0.9" (23mm); 4/0 AWG
4.000A, 80.0A	40A, 200A
4A, 80A	40A, 200A
1mA	0.01A AC/DC
±2.5%	±1.0%
600V (0.1mV)	400V (0.1V)
600V (0.1mV)	400V (0.1V)
40MΩ (0.1Ω)	400Ω (0.1Ω)
10MHz (0.001Hz)	100kHz (0.001Hz)
Continuity	Continuity
Yes	Yes
Max	Min/Max
CE, CAT III-600V	UL, CE, CAT III-300V
8.2x2.7x1.4" (210x70x37mm)	7x1.75x1.25" (178x45x32mm)
7oz (200g)	8oz (225g)
1 year	1 year

380941 N

—	—
4000 count LCD	4000 count LCD
0.5" (12mm); 3/0 AWG	0.9" (23mm); 4/0 AWG
4.000A, 80.0A	40A, 200A
4A, 80A	40A, 200A
1mA	0.01A AC/DC
±2.5%	±1.0%
600V (0.1mV)	400V (0.1V)
600V (0.1mV)	400V (0.1V)
40MΩ (0.1Ω)	400Ω (0.1Ω)
10MHz (0.001Hz)	100kHz (0.001Hz)
Continuity	Continuity
Yes	Yes
Max	Min/Max
CE, CAT III-600V	UL, CE, CAT III-300V
8.2x2.7x1.4" (210x70x37mm)	7x1.75x1.25" (178x45x32mm)
7oz (200g)	8oz (225g)
1 year	1 year

380947 N

True RMS	4000 count LCD
0.9" (23mm); 4/0 AWG	0.9" (23mm); 4/0 AWG
4A, 40A	40A, 400A
40A, 400A	AC: 0.001A, DC: 0.01A
AC: 0.001A, DC: 0.01A	AC: ±1.5%, DC: ±1.0%
—	—
—	—
—	—
10kHz (0.01Hz)	100kHz (0.01Hz)
—	—
Yes	Yes
Min/Max	Min/Max
UL, CE, CAT III-300V	UL, CE, CAT III-300V
7x1.75x1.25" (178x45x32mm)	7x1.8x1.3" (178x45x32mm)
8oz (225g)	8oz (225g)
1 year	1 year

Power Clamp Powerhouse

The PQ2071's broad capabilities as a power clamp meter enable modern industrial and commercial facilities to trace many electrical and power-quality problems. The PQ2071 can also datalog 50,000 readings on a USB-connected PC running the included software, which enables technicians to analyze various power issues and realize actionable insights.



More Power Clamps

See Extech's complete line of power clamps on pages 60-61



ACCESSORIES (SEE P. 40-43 FOR TEST LEADS)

480172 AC Line Splitter (see p. 32)

SPECIFICATIONS

	MA1500 <small>N</small>
True RMS	Yes
Display counts	40,000/4000 count dual LCD with bargraph (backlit)
Jaw size/Cable size	2.0" (52mm); 500MCM
AC Current	1500A
DC Current	1500A
Max resolution	0.01A
Basic ACA Accuracy (% rdg)	±2.8%
AC Voltage (Max Res.)	750V (0.01mV)
DC Voltage (Max Res.)	1000V (0.01mV)
Resistance (Max Res.)	40MΩ (0.01Ω)
Capacitance (Max Res.)	40mF (0.01nF)
Frequency (Max Res.)	40MHz (0.001Hz)
Temperature	-148 to 1832°F (-100 to 1000°C)
Diode/Continuity	Yes
Data Hold	Yes
Min/Max/Peak	Yes
Category Rating	CAT IV-600V
UL/CE	CE
Dimensions/ Weight	11.57x4.13x1.85" (294x105x47mm)/ 18.9oz (536g)
Warranty	1 year


CAT IV

MA1500 CAT IV 1500A 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 transients during 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, 9V battery and carrying case



380926 CAT IV 2000A AC/DC Clamp Meter

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

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



Includes CAT IV Test Lead Kit

380976-K 1-Phase and 3-Phase 1000A AC Power Clamp Meter

Functions include Power, Current, High Resistance, and Type K Temperature

- True Power, Apparent Power and Reactive Power, plus Horsepower, Power Factor, and Phase Angle with Lead/Lag indicator (see p. 61 for details)
- AC+DC µA Current with 10nA resolution for flame rod tests
- Auto power off with disable
- 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



NEW

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

Functions including Power, Current, and Frequency plus USB interface

- True Power, Apparent Power and Reactive Power, plus Power Factor, Active Power and Phase Angle (see p. 61 for details)
- AC+DC µA Current with 10nA resolution for flame rod tests
- Dual backlit LCD display with bargraph
- Built-in non-contact Voltage Detector with LED alert
- Manually store/recall up to 99 data sets
- Data Hold, Max/Min and Auto power off
- USB interface with cable and software included for further data analysis
- Complete with test leads, USB cable, PC software, 9V battery, and carrying case

380926 N

Yes	Yes	Yes
5000 count LCD (backlit)	9999 count LCD	9999 count LCD with bargraph (backlit)
2" (50mm); 750MCM	1.6" (40mm); 500MCM	2.2" (55mm); 1000MCM
400.0A, 2000A (Clamp); 400mA (DMM)	100.0A, 1000.0A	1000A
400.0A, 2000A Clamp; 400mA (DMM)	—	—
0.1A (Clamp); 0.1µA (DMM)	0.010A (Clamp); 0.01µA (DMM)	100mA
±2%	±2% (Clamp), ±1% (DMM)	±3%rdg
1000V (1mV)	600V (0.1mV)	750V (0.1V)
1000V (0.1mV)	600V (0.1mV)	—
40MΩ (0.1Ω)	100MΩ (0.1Ω)	—
50µF (10pF)	7000µF (1nF)	—
100kHz (0.001Hz)	1kHz (0.1Hz)	50Hz to 200Hz (1Hz)
—	-58 to 1000°F (-50 to 900°C)	—
Yes	Yes	—
Yes	Yes	—
—	Min/Max	Yes
CAT IV-600V	CAT III-600V	CAT III-1000V; CAT IV-600V
CE	UL/CE	CE
10x2.9x1.5" (255x73x38mm)/ 14oz (380g)	9x3x1.6" (228x76x39mm)/ 16.4oz (465g)	11.5x3.75x1.5" (292x95x38mm)/18.4oz (522g)
1 year	1 year	1 year

380976-K N

Yes	Yes	Yes
9999 count LCD	—	—
1.6" (40mm); 500MCM	—	—
100.0A, 1000.0A	—	—
—	—	—
0.010A (Clamp); 0.01µA (DMM)	—	—
±2% (Clamp), ±1% (DMM)	—	—
600V (0.1mV)	—	—
600V (0.1mV)	—	—
100MΩ (0.1Ω)	—	—
7000µF (1nF)	—	—
1kHz (0.1Hz)	—	—
-58 to 1000°F (-50 to 900°C)	—	—
Yes	—	—
Yes	—	—
—	Min/Max	Yes
CAT IV-600V	CAT III-600V	CAT III-1000V; CAT IV-600V
CE	UL/CE	CE
9x3x1.6" (228x76x39mm)/ 16.4oz (465g)	11.5x3.75x1.5" (292x95x38mm)/18.4oz (522g)	—
1 year	1 year	—

PQ2071 N

Yes	Yes	Yes
9999 count LCD with bargraph (backlit)	—	—
2.2" (55mm); 1000MCM	—	—
1000A	—	—
—	—	—
100mA	—	—
±3%rdg	—	—
750V (0.1V)	—	—
—	—	—
—	—	—
—	—	—
100mA	—	—
—	—	—
50Hz to 200Hz (1Hz)	—	—
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—
11.5x3.75x1.5" (292x95x38mm)/18.4oz (522g)	—	—
1 year	—	—

PRT200 Non-Contact Phase Rotation Tester

- Checks phase sequence and phase status and tests up to 1000VAC with LED and audible indication
- Fully insulated non-contact alligator clips with wide jaws
 - 75 to 1000VAC input voltage with 45 to 65Hz 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-600V safety rating
 - Dimensions: 4.7 x 2.7 x 1.5" (118 x 69 x 38mm); Weight: 13oz (370g)
 - 1 year warranty
 - Complete with three built-in 30" (76cm) 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
- 1 year warranty
- Complete with cable and 3 large color-coded alligator clips, case, and 9V 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 600V	40 to 600V
Frequency	15 to 400Hz	2 to 400Hz
Motor Rotation	—	Yes
CE/Category Rating	CE, CAT III-300V	CE, CAT III-600V
Dimensions	5.1x2.7x1.25" (130x69x32mm)/ 4.5oz (130g)	

ORDERING480400 3-Phase Rotation Tester
480403 Motor Rotation and 3-Phase Tester

DL150 True RMS AC Voltage/Current Datalogger



Supplied with a
protective hard case

CE

Datalog up to 100,000 readings with user programmable sample rate from 1 second to 24 hours

- Measure True RMS AC Voltage (600V) or Current (200A)
- 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
- Normal, Peak and Capture (user-specified trigger level) recording modes
- Auto Power off and battery check
- 1 year warranty
- Complete with current clamp, test leads, alligator clips, USB cable, Windows® compatible software, universal AC adaptor, and 4 AAA batteries

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
AC Current	10 to 200A	0.1A	±(2% rdg ± 1A)
AC Voltage	10 to 600V	0.1V	±(1.5% rdg ± 1V)
Memory	16,350 points		
Sampling Rate	1 second to 24 hours		
PC Interface	USB includes software		
Dimensions	4.5 x 2.5 x 1.3" (114 x 63 x 34mm)		
Weight	8.7oz (248g)		

ORDERING

DL150 True RMS AC Voltage/Current Datalogger

DL160 Dual Input True RMS AC Voltage/Current Datalogger



Supplied with a
protective hard case

CE

Datalog up to 256,000 readings with user programmable sample rate from 1 second to 24 hours

- 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
- 1 year warranty
- 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, 4 AAA batteries and two 2032 button batteries

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
AC Current	10 to 200A	0.1A	±(2% rdg ± 1A)
AC Voltage	10 to 600V	0.1V	±(2% rdg ± 1V)
Memory	256,000 points		
Sampling Rate	1 second to 24 hours		
PC Interface	USB includes software		
Dimensions	4.5 x 2.5 x 1.3" (114 x 63 x 34mm)		
Weight	8.7oz (248g)		

ORDERING

DL160 Dual Input True RMS AC Voltage/Current Datalogger

40130 AC Voltage Detector with On/Off Audible Beeper Button



Non-contact detection

of AC Voltage up to 600VAC

- Detects AC Voltage from 100V to 600V
- For use on 50/60Hz circuits
- Tip fits into outlets or against wire insulation
- Flashing red LED light and push button ON/OFF Audible beeper indicator
- Locate breaks in power cables
- CAT III-600V
- Dimensions: 6x0.75x1" (152x19x25mm)
Weight: 2oz (57g)
- 1 year warranty
- Complete with pocket clip and two AAA batteries

ORDERING

40130 AC Voltage Detector

DV20/DV24 AC Voltage Detectors with Flashlight and CAT IV Option



Rugged double molded housing

- Suitable for outlets or against wire insulation testing
- For use on 50/60Hz circuits
- Built-in bright flashlight
- Dimensions: 6.25x1" (159x25mm)
Weight: 1.5oz (42g)
- 1 year warranty
- Complete with pocket clip and two AAA batteries
- **Model DV20** - CAT III-600V;
100V to 600V AC Voltage
- **Model DV24** - CAT IV-1000V;
50V to 1000V AC Voltage

ORDERING

DV20 AC Volt Detector with Flashlight

DV24 CAT IV AC Volt Detector with Flashlight

DV25 Dual Range AC Voltage Detector with Flashlight



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

- 2 ranges: 24 to 1000VAC and 100 to 1000VAC
- CAT IV-1000V 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: 6.25 x 1" (159 x 25mm)
Weight: 1.48oz (42g)
- 1 year warranty
- Complete with pocket clip and two AAA batteries

ORDERING

DV25 Dual Range AC Volt Detector

DV30 Adjustable AC Voltage Detector with Sensitivity Adjustment



Non-contact detection of AC Voltage down to 12VAC

- Detects AC Voltage from 12V to 600V
- Audible and visible voltage indication
- Sensitivity adjustment increases or reduces sensor trigger threshold
- Self test function
- CAT III-600V
- Dimensions: 6.1x1.1x1" (155x28x25mm)
Weight: 1.5oz (42g)
- 1 year warranty
- Complete with pocket clip and four LR44 button batteries

ORDERING

DV30 Adjustable AC Voltage Detector

DA30 Non-Contact Current Detector with Sensitivity Adjustment



Locates current in hidden wires and cables up to 1000A

- Detects AC Current (200mA to 1000A) through shielded wires, conduit, and metal circuit breaker or junction boxes
- Audible and visible indication
- Sensitivity adjustment increases or reduces sensor trigger threshold
- CAT III-600V
- Dimensions: 5.7x1.1x1" (145x28x25mm)
Weight: 1.6oz (45g)
- 1 year warranty
- Complete with pocket clip and four LR44 button batteries

ORDERING

DA30 Non-Contact Current 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 (200mA to 1000A) and AC Voltage (12V to 600V) 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-600V
- Dimensions: 7.6x1.2x0.9" (192x31x24mm)
Weight: 2.1oz (60g)
- 1 year warranty
- Complete with pocket clip and four LR44 button batteries

ORDERING

DVA30 Non-Contact Volt/Current Detector



All products on this page are UL and CE approval

DV26 CAT IV Non-contact Voltage Detector + Flashlight**NEW**

Flashing Red LED with audible beeper indicate presence of live wires.



Built-in bright flashlight allows for viewing in dimly lit areas.



Rugged CAT IV rated non-contact Voltage (NCV) Detector displays a Green LED light when it is powered on and ready for use

- Non-contact detection of AC Voltage from 100 to 1000VAC
- For use on 50/60Hz circuits
- CAT IV-600V, CAT III-1000V safety rating
- Rugged double-molded housing
- Green LED indicator lights up when powered on and ready to use
- Tip fits into outlets or against wire insulation testing
- Flashing Red LED indicator light with audible beeper indicates presence of live wires
- Built-in bright flashlight with On/Off button
- Compact size with pocket clip
- Dimensions/Weight: 6.25 x 1" (159 x 25mm); 1.5oz (42g)
- Complete with two AAA batteries; 1 year warranty

ORDERING

DV26

CAT IV AC Voltage Detector + Flashlight

DV40 AC Voltage Detector + IR Thermometer

Non-contact Voltage Detection



Non-contact InfraRed Temperature measurement



Non-contact Voltage detector that measures non-contact temperature

- Detects AC Voltage from 50V to 1000V
- Tip fits into outlets or against wire insulation
- Low battery indicator and Auto power off feature
- CAT III-1000V
- Built-in InfraRed Thermometer function
 - Range: -20 to 445°F (-30 to 230°C)
 - Resolution: 0.1°
 - Field of View: 1:1
 - Emissivity: Fixed 0.95
- Dimensions: 6.25x1" (159x25mm); Weight: 1.48oz (42g)
- Complete with pocket clip and three LR44 batteries; 1 year warranty

ORDERING

DV40

AC Voltage Detector with IR Thermometer

VT30 Multi-function Voltage Tester

Voltage, Continuity and Phase Testers with Flashlight;

- Large LCD display with digital bargraph
- AC Voltage (0 to 480V) and DC Voltage (0 to 690V)
- Meets EN61010-1 CAT IV-600V and CAT III-600V 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" (240x78x40mm); Weight: 8.4oz (237g)
- Complete with 2 AAA batteries, protective cap, and soft case; 1 year warranty

ORDERING

VT30

Digital Voltage Tester with bargraph



Multifunction Voltage Tester measure Voltage in outlets and conduct a 3-Phase sequence test. Features include a built-in flashlight.

TL810 Electrical Test Lead Kit



Double Insulated with CAT III-1000V

Rating for your protection

- Two 40" (1m) PVC lead extensions (1000V rating) with shrouded banana plugs on both ends; CE
- Two very sharp 0.16" (4mm) long stainless steel tipped plug-on test probes with removable category control tip covers
- Two stainless steel flat tip test probes (0.6"/15mm long)
- Two plunger activated retractable jaw clips with a wide 0.75" (19mm) jaw opening; CE

ORDERING

TL810 Electrical Test Lead Kit

TL805 Double Injected Test Leads



Non-slip comfort grip

- Professional grade test leads. Double coated silicon lead wire with white inner layer. Heavy duty chromium plated brass tips, 0.16" (4mm) long with removable category control tip covers
- Shrouded, non-twist banana plugs for reduced socket wear. "Superflex" molded strain reliefs for improved cable flexibility. "D" shaped finger guards. Compatible with most multimeters. 10A capacity. CAT IV-1000V rating. UL listed
- Optional accessory — Insulated Alligator Clip (TL807C), shown above

ORDERING

TL805 Double Injected Test Leads



TL809 Electronic Test Lead Kit



Ideal for testing digital circuitry

- Two 42" (1m) PVC lead extensions with shrouded banana plugs at both ends. CAT III-1000V rating, UL/CE
- Two modular 4" (102mm) Heavy Duty test probe handles with 0.16" (4mm) long banana plug tip with removable category control tip covers, CAT III-1000V, 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

TL806/7 Alligator Clips for Test Lead Tips



Add convenience to your test leads

- TL806 — Extra large, double insulated, CAT III-1000V clips mate with banana plug patch cords. Jaw opens to 0.8" (20mm) with sharp teeth for piercing insulated wire. IEC1010 compliant. Optional accessory to TL810 or TL809
- TL807C — Alligator clips with insulated rubber boot fit onto test leads, CAT IV-600V, CAT III-1000V; 10A UL listed. Compatible with TL803 and TL805 test leads

ORDERING

TL806 Extra Large Alligator Clips for TL810 or TL809

TL807C Insulated Alligator Clips for TL803

TL803 Standard Test Leads



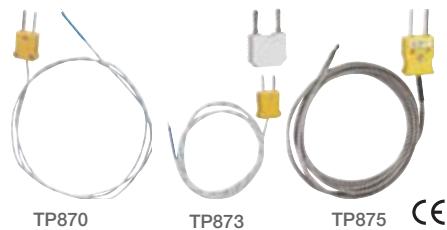
Protective tip covers for safe storage

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

ORDERING

TL803 Standard Test Leads

TP870/3/5 Type K Temperature Probes



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

ORDERING

TP870 Bead wire with Type K connector (-40 to 482°F/-40 to 250°C)

TP873 Bead wire with Type K connector and with banana adaptor (-22 to 572°F/-30 to 300°C); CE approved

TP875 High Temperature bead wire probe with Type K connector and banana adaptor; -58 to 1000°F (-50 to 538°C); CE approved

CA200 200A AC Clamp-on Adaptor



AC Current measurements, no battery required

- 0.62" (16mm) clamp jaw
- 1mV AC output per Amp
- $\pm 2\%$ basic accuracy
- CAT II-600V, CAT III-300V
- Dims: 4.3x1.9x1.3" (111x50x33mm)
- Weight: 4.5 oz (129g)
- Complete with built-in 5.3ft (163cm) cable with banana plugs; one year warranty

ORDERING

CA200 200A AC Clamp Adaptor

CA250 400A AC/DC Clamp-on Adaptor + NCV



Built-in non-contact AC voltage detector

- 1.2" (30mm) clamp jaw
- Measures AC/DC Current in two ranges: 0 to 40A (10mV per Amp output) and 0 to 400A (1mV per Amp output)
- $\pm 2.5\%$ basic accuracy; CAT III-600V;
- DC zero adjust
- Optional CA250-NIST available
- Dims: 5.8x2.3x1.3" (146x60x32mm)
- Weight: 8oz (226g)
- Complete with built-in 3.8ft (1.1m) cable with banana plugs and two AAA batteries; one year warranty

ORDERING

CA250 400A AC/DC Clamp Adaptor + NCV

Protective Soft Cases



409992



409996



409997



CA500



CA899



CA900

TP400 High Temperature Type K Pipe Clamp Probe



Hands-free temperature measurement to 450°F without the use of tape or Velcro®

- Spring-loaded jaw for secure grip on pipes from 0.25" (6.35mm) to 1.5" (38mm) diameter
- For use with any Thermometer or MultiMeter with a Type K input
- Measurement range: -4 to 450°F (-20 to 232°C)
- Basic accuracy: $\pm 3.6^{\circ}\text{F}$ (1.8°C)
- Complete with attached 36" (0.9m) cable and Type K connector

ORDERING

TP400 Type K High Temperature
Pipe Clamp Probe

TP200 Type K Pipe Clamp Temperature Probe



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

- Spring-loaded jaw for secure grip on pipes; 0.25" (6.35mm) to 1.5" (38mm) diameter
- For use with any Thermometer or MultiMeter with a Type K input
- Measurement range: -4 to 200°F (-20 to 93°C)
- Basic accuracy of $\pm 5\%$ FS
- Complete with attached 36" (0.9mm) cable and Type K connector

ORDERING

TP200 Type K Temperature
Pipe Clamp Probe

ORDERING

- | | |
|--------|--|
| 409992 | Small carrying case
6.25x4.5x1"
(159x114x25mm) |
| 409996 | Medium carrying case
7.8x5.3x1.6"
(197x133x41mm) |
| 409997 | Large carrying case
9.5x7x2"
(243x178x51mm) |
| CA500 | Case w/shoulder strap,
side pockets 7.4x3.5x2.5"
(188x89x64mm) |
| CA899 | Large case with shoulder
strap 10x5x3"
(254x127x76mm) |
| CA900 | Wide carrying case for
DMM Kits 9.8x8x2"
(248x203x51mm) |

TL841 Professional 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 Professional Test Lead Kit

TL741 Heavy Duty Plunger Style Hook Clips



Spring loaded clip ideal for gripping component lead or wire

- 1000V, 10A
- 0.08" (2mm) gripping diameter
- 5.5" (140mm) overall length
- CAT III-1000V/3A max; CAT III-1000V

ORDERING

TL741 Heavy Duty Plunger Style Hook Clips

TL833 Industrial Test Lead Kit



11-piece kit with CAT III-1000V rating

- TL726 Double Molded Silicone Test Leads; CE
- TL740 Industrial Plunger Style Test Clips; CE
- TL741 Heavy Duty Plunger Style Hook Clip Set; CE
- TL708 Large Alligator Clip Set
- TL743 Slim Reach Test Probe Set; CE
- Type K Bead Probe with Banana Adaptor
- Conveniently stored in a pouch case

ORDERING

TL833 Industrial Test Lead Kit

TL831 Master Electrical Test Lead Kit



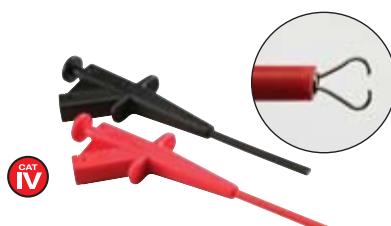
12-piece kit industrial grade test leads

- 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

TL742 Heavy Duty Plunger Style Pincer Grip Set



Insulated, flexible silicon shaft with good heat resistance

- 1000V, 4A
- 0.2" (5mm) jaw opening
- 6" (152mm) overall length
- CAT IV-600V; CAT III-1000V

ORDERING

TL742 Heavy Duty Plunger Style Pincer Grip Set

TL743/TL744 Sharp or Flat Blade Test Probe Set



TL743 Sharp Point for piercing insulation

- 1000V, 16A; CAT IV-600V/10A max; CAT III-1000V
- 0.16" (4mm) long tip and sharp 0.08" (2mm) diameter with removable category control tip covers; 4.5" (115mm) overall length

TL744 Flat Blade fit outlet receptacles

- 1000V, 10A; CAT III-1000V
- 0.16" (4mm) long x 0.1" (2.5mm) flat tip with removable category control tip covers; 4.9" (124mm) overall length

ORDERING

TL743 Slim Reach Test Probe Set

TL744 Flat Blade Test Probe Set



N Indicates products that are available with optional calibration traceable to **NIST**. See page 156 for a complete listing.

PQ500/PQ1000 CAT IV Test Lead Kits



Set of Four Test Lead Kit for Power Quality Analyzers and set of 2 Test Lead Kit for other Test Equipment

- 10 ft test leads (Banana-to-Banana)
- Test probes, Alligator clips, long reach spring loaded clips, and Ergonomic over mold grip
- CAT IV-600V/CAT III-1000V

PQ500 Test Lead Set

- 2φ 2-wire test lead kit (Black and Red ONLY)

PQ1000 Test Lead Set

- 3φ 4-wire test lead kit (Black, Red, Blue, Yellow)

ORDERING

PQ500 Test Leads

PQ1000 Test Leads

TL747 Electronic Sharp Test Probe Set



For use on high density components and boards and for piercing insulation

- 1000V, 6A max
- 0.16" (4mm) long tip with sharp 0.08" (2mm) diameter
- 4" (102mm) overall length
- CAT III-1000V

ORDERING

TL747 Electronic Sharp Test Probe Set

TL708/TL709 Alligator Clip Sets



CAT IV TL708 CE TL709

Toothed jaws for solid gripping of fine wires

TL708 Heavy Duty Large Alligator Clips

- 1000V, 6A, CAT IV-600V; CAT III-1000V
- 1" (26mm) jaw length; 1.6" (40mm) jaw opening; 4.2" (107mm) overall length

TL709 Medium Alligator Clips

- 1000V, 10A, CAT III-1000V
- 1.4" (37mm) jaw length; 0.8" (20mm) opening; 3.9" (98mm) overall length

ORDERING

TL708 Large Heavy Duty Alligator Clips

TL709 Medium Alligator Clips

TL740 Industrial Plunger Style Test Clip Set



CE

Spring loaded clip with steel jaws

- 1000V, 10A
- 0.6" (15mm) jaw opening
- 6.1" (155mm) overall length
- CAT III-1000V

ORDERING

TL740 Industrial Plunger Style Test Clip Set

TL748 Spring Loaded Hook Tip Probes



Ideal for gripping a component lead or fine wire

- 1000V, 5A max
- 0.04" (1mm) gripping diameter
- 4.7" (120mm) overall length
- CAT IV-600V; CAT III-1000V

ORDERING

TL748 Spring Loaded Hook Tip Probes

TL726 Double Molded Silicone Test Lead Set



CE CAT IV

Right angle and straight end flexible leads with shrouded banana plugs

- 63" (1.6m) long
- Protective collar and insulated sleeve
- 1000V, 10A
- CAT IV-600V; CAT III-1000V

ORDERING

TL726 Double Molded Silicone Test Lead Set

CT70/CT80 AFCI, GFCI, and AC Circuit Analyzers



NEW

**Reduced
Price!**



Both models Test 3-wire standard & GFCI receptacles. Display turns red when a problem is detected. CT80 also has AFCI function.



CT70 only



Check for correct wiring of AFCI/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 240.0V)
 - Calculates and displays 0.1 to 99.9% Voltage Drop and Line Impedance
 - Displays Peak Line Voltage (350.0V) and Frequency (45.0 to 65.0Hz)
- Outlet Tester functions
 - AFCI (Model CT80 only)
 - 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: 8 x 2.8 x 2" (203.2 x 71.1 x 50.8mm)/ 11.2oz (317.5g)
- Complete with AC test cord (standard North American 3-prong plug); 1 year warranty

ORDERING

CT70	AC Circuit Analyzer with GFCI
CT80	AC Circuit Analyzer with GFCI and AFCI
CT70-AC	Replacement AC Power/Tester Cord

NOTE: Both models are supplied with a standard North American 3-prong plug

RT30/RT32 Wireless Remote AC Circuit Identifier



**Reduced
Price!**



FC CE

Patent Pending

Virtual electrician's helper remotely identifies/confirms correct circuit for mid-run wiring

- Simplify mid-run wiring jobs by easily identifying the correct circuit powering the cable to be spliced or repaired
- The innovative RT30 combines non-contact voltage detection with wireless signals to monitor and remotely report the presence of voltage on a wire
- Clamped onto a live wire, the transmitter signals the user at the breaker panel with LED and audible alerts on the receiver (up to 100m range); The alerts stop when the correct circuit breaker is switched and work can then be performed safely
- Eliminates the need for an assistant or back-and-forth trips to confirm the correct circuit is powered down
- The RT30's clamp-style probe accessory is ideal for wires that are hard to isolate or reach
- Easily identify lighting and outlet circuits
- 1 year warranty
- Includes transmitter, receiver, remote clamp-style probe, 4 "AAA" batteries and pouch case

ORDERING

RT30	Wireless AC Circuit Identifier (914MHz)
RT32	Wireless AC Circuit Identifier (869MHz)

(NOTE: USA, Mexico, and Canada use 914MHz model and majority of other countries use 869MHz model)



CALIBRATION TRACEABLE TO **NIST**

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
- **CT20** Continuity Tester/Wire Tracer (p. 46) — 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 (p. 38) — Non-Contact Detection of AC Voltage from 100VAC to 600VAC
- Supplied in a soft carrying case that provides protection and organization for the meters and accessories; 1 year warranty

ORDERING

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" (162x55x38mm)/ 4oz (113g); Transmitter: 3.25x1.75x1" (83x44x25mm)/1.6oz (45g)
- Complete with one Receiver, one Transmitter tester, and 9V battery for the Receiver; 1 year warranty

ORDERING

CB10 Circuit Breaker Finder

CB20 Circuit Breaker Finder/Receptacle Tester**NEW****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
- Microprocessor-based automatic sensitivity adjustment
- Ergonomic design
- Audible/visual indication and Low battery indicator
- 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: 7.7x2.2x1.4" (196x55x36mm)/4.8oz (136g); Transmitter: 4.6x2.4x1.4" (118x60x35mm)/3.2oz (91g)
- Complete with one Receiver, one Transmitter tester, and 9V battery for the Receiver; 1 year warranty

ORDERING

CB20 Circuit Breaker Finder/Receptacle Tester

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 10,000ft (3000m); cable size of 26AWG 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" (90x57x29mm); Wt: 9.2oz (260g)
- 1 year warranty
- Includes Remote probe with bi-colored LED for wire identification highlight

ORDERING

CT20 Continuity Tester Pro

CT40 16-Line Cable Identifier/Tester Kit



Electrical/electronic circuits — identify up to 16 local or remote lines

- CAT III-600V MultiMeter with 7 functions
- Transmitter/Receiver enables one person to remotely identify up to 16 wires
- Transmitter displays two red LED lamps and Receiver two digit blue LED display
- Includes 17 built-in alligator clips with the Transmitter and 2 built-in alligator clips with the Receiver
- Cable resistance of 30kΩ max
- Wire voltage check from 5 to 16VDC
- Data Hold, Max Hold, Auto power off; Low battery indicator (transmitter/receiver)
- 1 year warranty
- Complete with 16-line Transmitter, MultiMeter/Receiver, batteries, and case

MULTIMETER SPECIFICATIONS

DC/AC Voltage (Basic DCV Accuracy)	0.1mV to 600VDC/ 1mV to 600VAC ($\pm 1.0\%$ DCV)
DC/AC Current	0.1µA to 200mA
Resistance	0.1Ω to 20MΩ
Diode/Continuity	Yes
Dimensions/Wt	6.3x2.9x1.7" (162x74.5x44mm)/ 10.8oz (308g)

ORDERING

CT40 16-Line Cable Identifier/Tester 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" (228x57x25mm); Generator - 2.5x2.5x1.5" (64x64x38mm)/ Weight: 0.6lbs (272g)
- 1 year warranty
- Complete with Amplifier probe and Tone Generator with alligator clips and modular RJ11 phone and RJ45 digital connector cables, 9V batteries and case

ORDERING

40180 Tone Generator and Amplifier Probe Kit



MD10 Non-contact Magnet Detector + Flashlight

NEW


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: 63H, 98H, 401H, 810H
- 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: 6.25 x 0.8x 1" (159 x 21 x 25mm); Weight: 1.7oz (48g)
- Complete with two AAA batteries; 1 year warranty

ORDERING

MD10	Non-contact Magnet Detector + Flashlight
------	--

BT100 Battery Capacity Tester



Includes software with cable, Kelvin alligator clips, Kelvin test leads, and 6 AAA batteries. 1yr warranty

CE


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

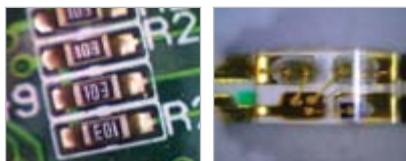
- On-line testing without disconnecting battery
- Datalogger stores up to 999 tests manually or 9600 sets in continuous mode and download readings to your PC with using software (included)
- Simultaneously measures DC Voltage and AC Milliohms
- Long battery life 7 hours; Auto power off to save battery

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Resistance	40mΩ, 400mΩ, 4Ω, 40Ω	10μΩ, 100μΩ, 1mΩ, 10mΩ	±(1% rdg ± 10d)
Voltage	4V, 40V	1mV, 10mV	±(0.1% rdg ± 6d)
Max Input Voltage	50VDC	50VDC	
Dimensions/ Wt	9.75 x 4 x 1.75" (250 x 100 x 45 mm)/ 17.5oz (500g)		

ORDERING

BT100	Battery Capacity Tester
BT102	120V AC Adaptor

MC108 Digital Mini Microscope


FCC CE


PC Board inspection

Soldering check

Color LCD screen with memory and zoom features to capture and download JPEG images to your PC

- 7x to 108x magnification range:
 - Optical Zoom: 7x to 27x
 - Digital Zoom: 4x
- Three white LEDs with adjustable brightness for object illumination
- 5 Image Effect modes: Normal, Gray, Inverse, Emboss, and Dual Window View
- Dual Window View simultaneously displays the magnified image next to the original image
- Real-time imaging on your PC screen via USB interface and included software
- Includes microscope stand for hands-free viewing
- Dimensions: 4.7 x 2.2 x 0.8" (120 x 56 x 20mm)
Weight: 2.5oz (70g) without batteries
- Complete with stand, three AAA Ni-MH rechargeable batteries, 100 to 240VAC (50/60Hz) adaptor/charger, Windows® compatible PC software with mini USB cable, cleaning cloth, and wrist strap

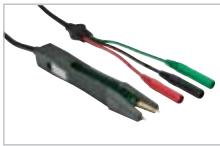
ORDERING

MC108	Mini Microscope (110V)
MC108-2	Mini Microscope (220V)
MC108-4	Mini Microscope (240V)

LCR200 Passive Component LCR Meter



CE



LCR203 — Optional SMD Tweezer for sorting out SMD components



LCR205 — Optional SMD Component Fixture

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

- 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 1kHz 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 9V battery; 1 year warranty
- Optional SMD Tweezer (LCR203) and plug-in SMD Component Fixture (LCR205)

SPECIFICATIONS	RANGE	BASIC ACCURACY
Inductance	20 μ H, 200 μ H, 2000.0 μ H, 20.00mH, 200.0mH, 2000.0mH, 20.00H, 200.0H, 2000.0H	$\pm(0.5\%)rdg$
Capacitance	20pF, 200pF, 2000pF, 20.00nF, 200.0nF, 2000.0nF, 20.00 μ F, 200.0 μ F, 2000.0 μ F	$\pm(0.5\%)rdg$
Resistance	20.00 Ω , 200.0 Ω , 2,000 Ω , 20,000 Ω , 200.0k Ω , 20,000k Ω , 2.000M Ω , 20,000M Ω , 200.0M Ω	$\pm(0.5\%)rdg$
DF (with C)	0.000 to 999	
Q	0.000 to 999	
Phase	$\pm 90^\circ$	
Test Frequency	100Hz/120Hz/1kHz/10kHz/100kHz	
Dimensions/ Weight	7.6 x 3.5 x 1.6" (193 x 88 x 41mm)/ 14.8oz (420g)	

ORDERING

LCR200	Passive Component LCR Meter
LCR203	SMD Tweezer for Model LCR200
LCR205	SMD Component Fixture for Model LCR200

380193 Passive Component LCR Meter



Complete with software, cable, test leads with alligator clip, 9V battery, and protective holster; 1yr warranty

CE

Measures Inductance, Capacitance, and Resistance with secondary parameter

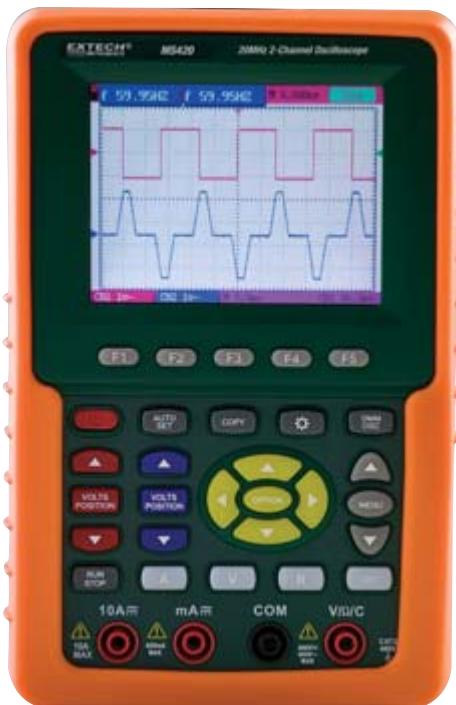
- Simultaneous 20,000/10,000 count backlit display of the primary parameter (L, C or R) with the secondary parameter of Q (quality), D (dissipation) or R (resistance)
- Set Hi/Lo limits using absolute values or percentage limits
- Parallel or Series equivalent circuit
- Max/Min/Avg; Auto power off with disable; Automatic blown fuse indication
- Built-in test fixture or use external test leads
- Open and Short Zero removes unwanted stray impedances from the measurement
- Relative mode, zero, or supplied reference

SPECIFICATIONS	RANGE	BASIC ACCURACY
Inductance	2000.0 μ H, 20,000mH, 200.00mH, 2000.0mH, 20.00H, 200.0H, 2000.0H, 10000H	$\pm(0.7\%)rdg$
Capacitance	2000.0pF, 20,000pF, 200.00nF, 2000.0nF, 20.00 μ F, 200.0 μ F, 2000.0 μ F	$\pm(0.7\%)rdg$
Resistance	20.00 Ω , 200.0 Ω , 2,000 Ω , 20,000 Ω , 200.0k Ω , 20,000k Ω , 2.000M Ω , 20,000M Ω	$\pm(0.5\%)rdg$
DF (with C)	0 to 0.9999	$\pm(0.7\%)rdg$
Q	0 to 9999	$\pm(1.2\%)rdg$
Test Freq.	120Hz and 1kHz	
Dimensions/Weight	7.56x3.58x2.1" (19.2x9.1x5.25cm) / 12.87oz (365g)	

ORDERING

380193	Passive Component LCR Meter
153117	117VAC adaptor
153220	230VAC adaptor

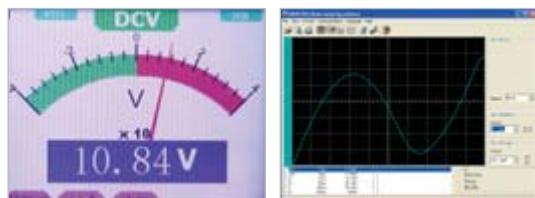


MS420 20MHz 2-Channel Digital Handheld Oscilloscope

CE



Complete with two 1X/10X oscilloscope probes, test leads, Windows[®] compatible software, capacitor measuring module, adjustment screwdriver, universal AC adaptor, and carrying case; 1 year warranty



Software PC screens display analog bargraph and graphical waveform

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

- 20MHz bandwidth
- Auto-set function optimizes the position, range, timebase, and triggering to assure a stable display of virtually any waveform
- Peak Detect function for 50ns 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" (96mm) color LCD; 320 x 240 pixels
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Bandwidth	20MHz
-----------	-------

Real time sample rate	100MS/s
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Risetime	17.5ns
----------	--------

Channels	2
----------	---

Record Length	6K points per channel
---------------	-----------------------

Glitch Capture	50ns
----------------	------

Vertical Sensitivity	5mV to 5V/div
----------------------	---------------

Vertical Resolution	8 bits
---------------------	--------

Timebase Range	5ns to 5s/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	1MΩ/20pF
-----------------	----------

Max Input Voltage	400V (peak)
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Cursor Measurement	Voltage and time
--------------------	------------------

True RMS MultiMeter Functions

AC/DC Voltage	400mV, 4V, 40V, 400V
---------------	----------------------

AC/DC Current	40mA, 300mA, 20A
---------------	------------------

Resistance	400Ω, 4kΩ, 40kΩ, 400kΩ, 40MΩ
------------	------------------------------

Capacitance	51.2nF to 100μF
-------------	-----------------

Diode and Continuity	Yes
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PC Interface	USB cable
--------------	-----------

Power Supply	6 hours Li-ion rechargeable battery; AC Adaptor/charger
--------------	---

Dimensions/Weight	7x4.4x1.6" (180x113x40mm) / 24.3oz (690g)
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ORDERING

MS420	20MHz 2-Channel Oscilloscope
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PWRCORD-MS420	European Power Cord for MS420
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382200/382202 Digital Single Output DC Power Supplies



CE

Adjustable 30V/1A and 18V/3A 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 power cord; 1 year warranty

SPECIFICATIONS	MODEL 382200	MODEL 382202
Display Accuracy (V, A)	±(1.5%rdg); ±(2%rdg)	±(1.5%rdg); ±(2%rdg)
Voltage Output, DC	30.0 Volts	18.0 Volts
Current Output, DC	0 – 1.00 Amp	0 – 3.00 Amps
Ripple and Noise	<0.5mV/<3mA	<0.5mV/<3mA
Line Regulation	< 0.01% + 3mV/< 0.2% + 3mA	< 0.01% + 3mV/< 0.2% + 3mA
Load Regulation	< 0.01% + 2mV/< 0.2% + 3mA	< 0.01% + 2mV/< 0.2% + 3mA
Power	115V/230V; 50/60Hz	115V/230V; 50/60Hz
Dimensions/Weight	9.4x4.25x6" (240x108x154mm)/4.4lbs (2kg)	9.4x4.25x6" (240x108x154mm)/6.6lbs (3kg)

ORDERING

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

382203/382213 Analog or Digital Triple Output DC Power Supply



CE

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

- Adjustable Voltage and Current output
- Easy snap terminals for fixed 5V/0.5A and 12V/1A outputs
- Constant Voltage or Current, Current limiting indicator, Overload and short circuit protection, and Binding post terminals for variable supply
- Complete with power cord; 1 year warranty

SPECIFICATIONS

Display	382203 - Analog or 382213 - Digital (V&A), 3 digit 0.1 res. LCD
DC Voltage/Current Output	0 to 30 Volts/ 0 to 3 Amps
Ripple and Noise	<5mV
Line/Load Regulation	<0.05%+10mV
Fixed Output Voltage	5V/0.5A (cont.), 1A(max); 12V/0.5A (cont.), 1A(max)
Power	110/220VAC 50/60Hz
Dimensions/ Weight	6 x 5.6 x 9.5" (152 x 142 x 242)/ 11lbs. (5kg)

ORDERING

382203	N	Analog DC Power Supply, 115/220 VAC
382213	N	Digital DC Power Supply, 115/220 VAC

382260 80 Watt Switching Mode DC Power Supply



Current limited DC supply
for electronic repair and
calibration



CE

3 output ranges perform like 3 power supplies in one

- Constant voltage or current with 3 selectable ranges
- Compact, lightweight design with 4-Digit LED display & Front/Rear output terminals
- Remote sensing for accurate applied voltage at load point
- Complete with AC Power cord; 1 year warranty

SPECIFICATIONS

Voltage Output (3 ranges)	0.10 to 16.40V, 0.10 to 27.60V, 0.10 to 36.80V
Current Output (3 ranges)	0.100 to 5.100A, 0.100 to 3.100A, 0.100 to 2.300A
Basic accuracy	±1%
Ripple & Noise	<30mVpp
Line Regulation/Load Regulation	<4mV/ <20mV
Power	90-264VAC; 47-63Hz
Dimensions/Weight	13 x 5 x 2" (330 x 127 x 53.5mm)/4.2lbs (1.9kg)

ORDERING

382260	80W Switching Mode DC Power Supply
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382270 210 Watt Quad Output DC Power Supply

CE

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

- Selectable Constant Voltage and Constant Current modes
- Two auxiliary outputs with variable voltage and fixed current
- Outputs up to 60V in series mode or 10A in parallel mode
- Includes 4 pairs of test leads (banana plug to alligator clip) & power cord; 1yr warranty

SPECIFICATIONS

Output Voltage (4)/ Output Current (4)	0 to 30V, 0 to 30V, 3 to 6.5V, 8 to 15V/ 0 to 5A, 0 to 5A, 3A (fixed), 1A (fixed)
Basic Accuracy	±(0.5%+2 digits)
Load/ Line Voltage Regulation	≤0.02%+3mV
Ripple and Noise	<0.5mVrms
Power	100 to 240VAC, 50/60Hz
Dimensions/ Weight	10.2x6.3x14.5" (260x160x370mm)/ 26.5lbs (12kg)

ORDERING

382270	Quad Output DC Power Supply
--------	-----------------------------

382280 200 Watt Triple Output Programmable DC Power Supply

CE

40V/5A programmable supply with high resolution output and 200 test setup memories; 1 adjustable and 2 fixed outputs

- Selectable constant Voltage or Current modes
- 0 to 60 second programmable overload delay timer
- Forced air cooling fan and Dual output terminal for source and monitor connections
- Bi-directional PC interface commands allow setup and readback using Windows® HyperTerminal or similar PC communications programs
- Complete with power cord; 1 year warranty

SPECIFICATIONS

Programmable Voltage/ Current Output	0 to 40V (1mV)/ 0 to 5A (1mA)	0.05% ±9mV/ 0.2% ±9mA
Fixed Outputs	5V/2A and 3.3V/3A	
Ripple & Noise	<3mV	
Load Regulation	1mV/A	
Power Source	110 or 220VAC, 50/60Hz	
Dimensions/ Weight	12.2 x 9.9 x 5.3" (310 x 250 x 135mm)/ 8.4lbs (3.8kg)	

ORDERING

382280	Triple Output Programmable 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 13.8V/20A factory preset
- Automatic Constant Current crossover, High RFI immunity and excellent EMI
- Thermostatic Control Fan from zero to full speed
- Complete with power cord; 1 year warranty

SPECIFICATIONS

Output Voltage/Current (Res.)	0 to 30V (100mV)/ 0 to 20A (100mA)
Basic accuracy	±(0.5%+2 digits)
Load/Line Voltage Regulation	50mV/ 20mV
Load/Line Current Regulation	100mA min/ 50mA min
Ripple and Noise	<5mVrms
Dimensions/ Weight	7.9 x 3.5 x 8.5" (200 x 90 x 215mm)/ 5.7lbs (2.6kg)

ORDERING

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

DCP42 160W Single Continuous Switching Power Supply with USB**NEW****CE**

Offers high efficiency electrical power conversion for greater energy conservation and lighter weight

- Constantly calculates and adjusts the Voltage and Current limit points according to available maximum power (160W)
- At maximum current (10A), voltage is limited to 16V; at maximum voltage (42V), current is limited to 3.8A
- Dual action rotary encoder control with push knob for fine and coarse tuning
- Remote control for Programming, Output Voltage/Current, and ON/OFF using supplied software, driver, and USB
- Three on-board user-defined Voltage/Current presets
- Store 20 presets with up to 999 cycles each on a PC via USB and supplied Software
- Software also includes DC Ramp and Waveform Generator
- Complete with power cord, software, and USB cable; 1 year warranty

SPECIFICATIONS

Output Voltage	0 to 42V
Output Current	0 to 10A
Basic Accuracy	$\pm(0.2\%+5 \text{ counts})$
Load Voltage Regulation	$\leq 0.15\%$ (10-100% rated current)
Line Voltage Regulation	$\leq 0.02\%$ (90-264V AC)
Load Current Regulation	$\leq 0.5\%$ (10-90% rated voltage)
Line Current regulation	$\leq 0.1\%$ (90-264V AC)
Ripple and Noise	$\leq 5\text{m Vrms}, \leq 50\text{m Vp-p}$
Dimensions/ Weight	7.9 x 3.7 x 9.5" (200 x 95 x 245mm)/ 5lbs (2.3kg)

ORDERINGDCP42 **N**

160W Single Continuous Switching Power Supply with USB (100-240V)

DCP60 600W Single Output Lab Grade Switching Power Supply**NEW****CE**

High efficiency switching power supply with low ripple and noise is ideal for demanding laboratory applications

- 60V/10A output
- Maximum current can be limited to 5A using front panel auxiliary output on the front panel (10A main output is on the back panel)
- Three user-defined Voltage and Current presets
- Dual action rotary encoder control with push knob for fine and coarse tuning
- Remote control for Output Voltage/Current and On/Off
- USB port for programming and running ramp/soak cycles with 20 programmable sets of Voltage/Current and varying test durations (up to 999 cycles)
- Complete with power cord and software; 1 year warranty

SPECIFICATIONS

Output Voltage	1 to 60V
Output Current	1 to 10A
Basic Accuracy	$\pm(0.2\%+3 \text{ digits})$
Load Voltage Regulation	50mV
Line Voltage Regulation	20mV
Load Current Regulation	100mA
Line Current regulation	50mA
Ripple and Noise	$\leq 5\text{m Vrms}, \leq 100\text{m Vp-p}$
Dimensions/ Weight	7.9 x 3.5 x 8.5" (200 x 90 x 215mm)/ 5.7lbs (2.6kgs)

ORDERINGDCP60 **N**

600W Single Output Lab Grade Switching Power Supply (120V)

DCP60-220 **N**

600W Single Output Lab Grade Switching Power Supply (220V)



DT500 Laser Distance Meter with Bluetooth®**NEW**

Download on the
Mac App Store



Transmits readings to most* Apple® iPhones® and iPads® using free Apple® App up to 30ft (10m) away. Download the Extech DT500 ExView™ app at itunes.apple.com

CE

Laser Distance meter transmits readings to Apple® iPhone® and iPad® devices

- Integrated Bluetooth® connects with iOS devices to transmit readings for remote viewing
- Works with free Apple app to display large easy-to-read values up to 30ft (10m) away
- Measures distance up to 229ft (70m) with a target plate
- Automatically calculates Area and Volume
- Indirect measurement using Pythagorean Theorem
- Continuous measurement function with Min/Max distance tracking updates every 5 seconds
- Displays Sum (+) / Difference (-) of multiple readings, Front or rear edge reference, Low battery indicator, and Auto power off
- Built-in bubble level provides easy visual guidance on determining if a surface is level
- Double molded housing (IP54)
- Tripod mount (tripod available)
- Complete with carrying case and 2 AA batteries; 1 year warranty

SPECIFICATIONS

Measurement Range	2" to 229' (0.05 to 70m) with a target plate 2" to 164' (0.05 to 50m) without a target plate
Accuracy (up to 32'/10m)	±0.06" (±1.5mm)
Resolution	0.0625" (0.001m)
Length Add calculation	99'11" (99.99m)
Area calculation	999.99 sq. ft. (999.99m ²)
Volume calculation	999.99 cu. ft. (999.99m ³)
Historical Storage	20 records (measured or calculated results)
Laser Power Off/ Auto Power Off	after 30 seconds/ after 3 minutes
Dimensions/ Weight	5.3x2.3x1.3" (135 x 58 x 33mm)/ 7.2oz (203g)

ORDERING

DT500	Laser Distance Meter (229ft/70m) with Bluetooth®
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Mac App Store logo, Apple, iPhone, and iPad are trademarks of Apple Inc.

DT200/DT300 Laser Distance Meters

Watch the
Video
www.extech.com/video

DT300 only

DT200 (115ft/35m) DT300 (164ft/50m)

CE

Two models to choose from with laser distance measurement function and Historical Storage feature (measured or calculated results)

- Model DT200 measures up to 115ft (35m) with 0.08" accuracy; Model DT300 measures up to 164ft (50m) with 0.06" accuracy
- Automatically calculates Area and Volume
- Indirect measurement using Pythagorean theorem
- Continuous measurement function with Min/Max distance tracking updates every 0.5 seconds
- Addition/Subtraction, Front or rear edge reference, Low battery indicator, and Auto power off features
- Double molded housing (IP54)
- Complete with carrying case and 2 AAA batteries; 1 year warranty

SPECIFICATIONS

Measurement Range	DT200: 2" to 115' (0.05 to 35m); DT300: 2" to 164' (0.05 to 50m)
Accuracy (up to 32'/10m)	DT200: ±0.08" (±2mm); DT300: ±0.06" (±1.5mm)
Resolution	0.001" (0.001m)
Length Add calculation	99'11" (99.99m)
Area calculation	999.99 sq. ft. (999.99m ²)
Volume calculation	999.99 cu. ft. (999.99m ³)
Historical Storage	Measured or calculated results - DT200: 10 records; DT300: 20 records
Laser Power Off/ Auto Power Off	After 30 seconds / after 3 minutes
Dimensions/ Weight	4.5 x 1.9 x 1.1" (115 x 48 x 28mm)/ 5.3oz (150g)

ORDERING

DT200	Laser Distance Meter (115ft/35m)
DT300	Laser Distance Meter (164ft/50m)

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" (23mm) 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-300V, CAT II-600V
- 1 year warranty
- Complete with 9V battery, Resistance check plate, and durable metal storage case

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Ground Resistance	0.025 to 1500Ω	0.002Ω	±1.5%
AC Leakage Current (Trms)	1mA	0.001mA	±2.5%
AC Current (Trms)	0.3mA to 30.00A	0.01A	±2.0%
Resistance Test Frequency	3.333kHz		
Operating Temperature	32 to 122°F (0 to 50°C)		
Dimensions/Weight	10.2x4.4x1.9" (258x110x47mm) / 1.5lbs (700g) (meter only)		

ORDERING

382357 Clamp-On Ground Resistance Tester

382252 Earth Ground Resistance Tester Kit

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

- 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
- 1 year warranty
- Complete with test leads, two auxiliary earth bars, carrying case, and six 1.5V AA batteries

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Earth Ground Resistance ranges	20Ω/ 200Ω/2000Ω	0.01Ω/ 0.1Ω/1Ω	±(2%rdg)
Test Current (Freq.)	<2.5mA (820Hz)	0.001mA	±2.5%
AC Earth Voltage (Freq.)	0 to 200VAC (50 to 400Hz)		±(3%rdg)
DC Voltage	0 to 1000V	0.1V	±(0.8%rdg)
Resistance	0 to 200kΩ		±(1%rdg)
Continuity	40Ω		
Category rating	CAT III-1000V		
Dimensions/ Weight	7.9x3.6x2" (200x92x50mm)/ 1.5lbs (700g) (meter only)		

ORDERING

382252 Earth Ground Resistance Tester Kit

382253 Replacement Earth Bars (2pk)

382254 Replacement Set of Test Leads

GRT300 4-Wire Earth Ground Resistance Tester Kit



CE



Complete with test leads,
4 auxiliary earth bars, hard
carrying case, and eight
1.5V AA batteries

Includes all hardware necessary to measure earth ground in 4 ranges

- 4-wire, 3-wire, and 2-wire testing
- Large dual line LCD
- Autoranging
- Automatic I (current) spike check and Automatic P (potential) spike check
- Test Hold function for easy operation
- Automatic Zero adjustment
- AC Earth Voltage
- Data Hold and Auto Power off features
- Over-range and low battery indication
- 1 year warranty

SPECIFICATIONS

Earth Ground Resistance ranges	2Ω/20Ω/200Ω/2000Ω
Basic Accuracy	±(2%rdg)
Resolution	0.01Ω/0.1Ω/1Ω/0.01kΩ
Test Current / Frequency	<2mA/820Hz
AC Earth Voltage / Frequency	0 to 300VAC/40 to 500Hz
Power supply	Eight 1.5V 'AA' Batteries
Dimensions	9.8 x 7.8 x 4.3" (250 x 190 x 110mm)
Weight	3.15lbs (1.4kg) - batteries included

ORDERING

GRT300 4-Wire Earth Ground Resistance Tester Kit

UM200 High Resolution Micro-Ohm Meter



CE



Complete with 4-wire
cables with Kelvin clip
connectors, rechargeable
Li-Polymer battery, AC
adapter/charger, software
and USB cable, and
carrying case

Provides resolution down to 1µΩ 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
- High resolution to 1µΩ
- 5-Digit backlit LCD
- Built-in comparator for Hi/Lo/Go resistance testing with 20 sets of pre-stored values
- Store/Recall up to 3000 measurements
- 10A maximum test current
- Cable length measurement (feet or meters)
- RS-232 interface
- 1 year warranty
- 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	60mΩ	1µΩ	10A	±(0.25%)
	600mΩ	10µΩ	1A	±(0.25%)
	6Ω	100µΩ	100mA	±(0.25%)
	60Ω	1mΩ	10mA	±(0.25%)
	600Ω	10mΩ	1mA	±(0.25%)
	6kΩ	100mΩ	100µA	±(0.75%)
Power	Rechargeable Li-Polymer Battery			
Dimensions/Weight	10.1 x 6.1 x 2.2" (257 x 155 x 57mm)/ 2.6lb (1160g)			

ORDERING

UM200 High Resolution Micro-Ohm Meter

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; 1 yr warranty

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	200.0mΩ	0.1mΩ	100mA	±0.5%
	2000mΩ	1mΩ	100mA	±0.5%
	20.00Ω	0.01Ω	10mA	±0.5%
	200.0Ω	0.1Ω	10mA	±0.5%
	2000Ω	1Ω	1mA	±0.5%
Dimensions/ Weight	9.8x7.5x4.3" (250x190x110mm)/ 3.3lbs (1.5kg)			

ORDERING

380580 **N** Battery Powered Milliohm Meter

380565 Test Leads w/Kelvin clips for 380580

380560/380562 High Resolution Milliohm Meter



Benchtop meter provides resolution down to 0.01mΩ

- Automatic zero; 5V test voltage
- Built-in comparator for Hi/Lo/Go resistance testing or selection
- Includes 4-wire cables with Kelvin clip connectors and power cord; 1 year warranty

SPECIFICATIONS	RANGE	RESOLUTION	CURRENT	BASIC ACCURACY
Resistance	20mΩ	0.01mΩ	1A	±0.2%
	200mΩ	0.1mΩ	1A	±0.2%
	2Ω	0.001Ω	100mA	±0.2%
	20Ω	0.01Ω	10mA	±0.2%
	200Ω	0.1Ω	1mA	±0.2%
	2kΩ	0.001kΩ	100μA	±0.2%
	20kΩ	0.1kΩ	10μA	±0.2%
Power	110VAC, 60Hz or 220VAC 50Hz			
Dims/Wt	11x8.3x3.5" (280x210x90mm)/ 4.85lb (2.2kg)			

ORDERING

380560 **N** High Resolution Milliohm Meter, 110VAC

380562 **N** High Resolution Milliohm Meter, 220VAC

380465 Spare Kelvin Clip Test Lead Set

380460/380462 Precision Milliohm Meter



Portable Milliohm meter provides resolution to 0.1mΩ

- 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; 1 year warranty

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

ORDERING

380460 **N** Precision Milliohm Meter, 110VAC

380462 **N** Precision Milliohm Meter, 220VAC

380465 Spare Kelvin Clip Test Lead Set



380320 Analog High Voltage Megohmmeter



CE

Three Insulation Test Ranges with Live Circuit Warning

- Insulation Resistance ranges: 100MΩ, 200MΩ, and 400MΩ
- Basic accuracy ±5% of scale
- Three test voltages 250V, 500V, and 1000V
- Lock Power On feature for extended test times
- Fuse protected and automatic discharge circuit
- Measures continuity to 3Ω, Resistance to 500Ω, and AC Voltage to 600V
- 1.3mA short circuit current
- CAT III-1000V
- Dimensions: 7.9x3.6x2" (200x92x50mm); Weight: 1.2lbs (546g) includes batteries
- 1 year warranty
- Includes heavy duty test leads, alligator clip test lead, 6 x AA batteries, and hard case

ORDERING

380320 Analog High Voltage Megohmmeter

380360 Digital Megohmmeter



CE

1000V digital tester with automatic 3 minute test

- Insulation Resistance ranges: 200MΩ and 2000MΩ with 0.1MΩ max resolution and ±3% of reading basic accuracy
- Three test voltages of 250V, 500V and 1000V
- Safety Power Lock enables "hands free" operation for 3 minute test
- Automatic discharge when "Press to Test" button is released
- Auto power off and Data Hold
- 0.65" (17mm) LCD display
- Automatic zero adjustment
- Continuity measurements to 200Ω and Voltage to 600VAC
- CAT III-600V
- Dimensions: 6.3x3.8x2.3" (160x97x58mm); Weight: 13oz (369g)
- 1 year warranty
- Complete with 6 x AA batteries, heavy duty 2.5ft (0.8m) test leads, alligator clip, large probe, and case with neckstrap

ORDERING

380360 Digital Megohmmeter

380260 Handheld Megohmmeter



CE

1000V digital tester with large dual backlit display

- Double molded housing for added durability
- Dual display of Insulation Resistance and Test Voltage
- Backlit super large display
- Insulation Resistance ranges: 200MΩ and 2000MΩ with 0.1MΩ max resolution and ±3% of reading basic accuracy
- 250V, 500V, and 1000V test voltages
- Auto power off
- Lo Ω function for testing connections
- Lock Power On Function for hands-free operation
- Data Hold
- CAT III-1000V
- Dimensions: 7.8x3.6x1.9" (200x92x50mm); Weight: 24.6oz (700g)
- 1 year warranty
- Complete with heavy duty test leads, alligator clip test lead, hanging strap, carrying case, and 6 x AA batteries

ORDERING

380260 Handheld Megohmmeter

Restore Safety & Eliminate Downtime

Plant and electrical professionals rely on Extech's line of digital and analog insulation testers and megohmmeters for motor-related diagnostics including motor insulation resistance and MCCs as well as transformers. With available capabilities such as continuity test and voltage measurement, Dielectric Absorption Ratio, Polarization Index and CAT-IV ratings, Extech's insulation resistance testers and megohmmeters deliver accurate diagnostic results without compromising safety.



WIRELESS Transmitter

MG300/MG302 CAT IV Insulation Tester/MultiMeter with Wireless PC Interface

Combines a 1000V Insulation Tester with a True RMS MultiMeter

- Wireless USB interface transmits measurement data to a PC
- Large backlit triple display
- Insulation Resistance from 0.001MΩ to 4000MΩ
- Auto discharge
- Lock Power On Function for hands-free operation
- Data Hold, Min/Max and Relative mode
- Waterproof (IP67) rugged design
- Complete with remote receiver with USB cable, Windows® compatible software, heavy duty test leads, alligator clip test lead, Type K bead wire temperature probe, hard case, and 6 x AA batteries

See Special Value Kits on p. 17

Note: USA, Mexico, and Canada use 915MHz model MG300. Most other countries use 433MHz model MG302.


 Special
Value Kit


MG300 & MG302 Kits available.
See p. 17 for details.

SPECIFICATIONS

	■ MG300 (915MHz)	▲ MG302 (433MHz)
Insulation Resistance (max resolution)	4MΩ, 40MΩ, 400MΩ, 4000MΩ (0.001MΩ)	
Basic Accuracy	±3%	
Insulation Test Voltages	125V, 250V, 500V, 1000V	
AC Voltage Test	1000V	
Low Resistance Test	0 to 400Ω	
MultiMeter Functions		
AC/DC Voltage (max resolution)	1000V (0.1mV AC/0.01mV DC)	
AC/DC Current (max resolution)	10A (0.1µA AC/0.01µA DC)	
Resistance (max resolution)	40MΩ (0.01Ω)	
Frequency (max resolution)	100MHZ (0.001Hz)	
Duty Cycle (max resolution)	0.1 to 99.9% (0.01%)	
Temperature (max resolution)	-58 to 2192°F / -50 to 1200°C (0.1°)	
4-20mA% (max resolution)	-25 to 125% (0.01%)	
CE, FCC	CE, (FCC MG300 only)	
Dimensions/Weight	7.8 x 3.6 x 1.9" (200 x 92 x 50mm)/ 20.5oz (582g)	
Warranty	1 year	





380363 Digital Insulation Tester

Autoranging insulation measurements to $10\text{G}\Omega$ plus manual datalogging stores up to 9 data sets

- 250V, 500V and 1000V test voltages
- Large LCD display with analog bargraph
- Low Resistance function for testing connections
- Automatic discharge
- AC/DC voltage measurement up to 999V
- Auto power off
- Manual data record and read function (9 sets)
- Live circuit display warning and beeper
- Complete with carrying case, test leads, and 6 x AA batteries



380395/380396 Digital High Voltage Insulation Tester

High test Voltages up to 5kV with Insulation Resistance to $60\text{G}\Omega$

- Test Voltages of 500V, 1000V, 2500V, and 5000V
- 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 600V 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
- Complete with test leads, 8 x C batteries, and heavy duty carrying case;
- **Model 380395** with 110V AC adaptor
- **Model 380396** with 220V AC adaptor



MG500 Digital High Voltage Insulation Tester

High test Voltages up to 10kV with Insulation Resistance to $500\text{G}\Omega$

- Test Voltages of 500V to 10kV (adjustable in 500V 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-300V category rating
- Complete with built-in heavy duty carrying case with cover, test leads, alligator clips, and 8 x C batteries

380363 ■

4MΩ, 40MΩ, 400MΩ, 4000MΩ, 10GΩ (1kΩ)	6MΩ, 60MΩ, 600MΩ, 6GΩ, 60GΩ (1kΩ)	800kΩ to 500GΩ (1kΩ) Autoranging
±3%	±2.5%	±5%
250V, 500V, 1000V	500V, 1000V, 2500V, 5000V	500V to 10kV (adjustable in 500V steps)
999VAC	600VAC	—
0 to 40Ω	0 to 600Ω	—
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—
CE	CE	CE
9.3x4.6x2.1" (235x116x54mm)/ 1.15lbs (520g)	7.8x5.8x3.4" (198x148x86mm)/ 3.2lbs (1438g)	13x10.2x6.3" (330x260x160mm)/ 7.9lbs (3.6kg)
1 year	1 year	1 year

380395 ■ | 380396 ▲

4MΩ, 40MΩ, 400MΩ, 4000MΩ, 10GΩ (1kΩ)	6MΩ, 60MΩ, 600MΩ, 6GΩ, 60GΩ (1kΩ)	800kΩ to 500GΩ (1kΩ) Autoranging
±3%	±2.5%	±5%
250V, 500V, 1000V	500V, 1000V, 2500V, 5000V	500V to 10kV (adjustable in 500V steps)
999VAC	600VAC	—
0 to 40Ω	0 to 600Ω	—
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—
CE	CE	CE
9.3x4.6x2.1" (235x116x54mm)/ 1.15lbs (520g)	7.8x5.8x3.4" (198x148x86mm)/ 3.2lbs (1438g)	13x10.2x6.3" (330x260x160mm)/ 7.9lbs (3.6kg)
1 year	1 year	1 year

MG500 ■

4MΩ, 40MΩ, 400MΩ, 4000MΩ, 10GΩ (1kΩ)	6MΩ, 60MΩ, 600MΩ, 6GΩ, 60GΩ (1kΩ)	800kΩ to 500GΩ (1kΩ) Autoranging
±3%	±2.5%	±5%
250V, 500V, 1000V	500V, 1000V, 2500V, 5000V	500V to 10kV (adjustable in 500V steps)
999VAC	600VAC	—
0 to 40Ω	0 to 600Ω	—
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—
CE	CE	CE
9.3x4.6x2.1" (235x116x54mm)/ 1.15lbs (520g)	7.8x5.8x3.4" (198x148x86mm)/ 3.2lbs (1438g)	13x10.2x6.3" (330x260x160mm)/ 7.9lbs (3.6kg)
1 year	1 year	1 year

Beyond Compare

"We use the Extech 380976 for power factor correction in commercial and industrial facilities as well as basic trouble shooting. Far more features than other, more expensive meters."

David L., Florida



NIST traceable certificate with data is available when you order your meter with Certificate Traceable to NIST. Look for this symbol **N** on products that offer NIST.



See our Lighting Retrofit Kits (LRK10 and LRK15) on p. 116



380940 400A AC/DC Power Clamp Meter

Measures True Power, Current, and Voltage

- Large LCD with 40 segment analog bargraph
- Data Hold, Max/Min recall, Auto Zero (DC current), plus low battery indication
- Auto power off
- Complete with test leads, 2 AA batteries, and carrying case

SPECIFICATIONS	380940 N
Display counts	4000 count LCD with bargraph
Jaw size/Cable size	0.9" (23mm); 350MCM
True RMS	Yes
True Power (max res.)	40kW, 240kW AC/DC (10W)
Basic Accuracy (ACA)	±1.5%rdg
Apparent Power	—
Reactive Power	—
Power Factor	—
Phase Angle (ϕ)	—
Active Power Energy	—
Horsepower	—
Peak Capture	—
AC/DC Current (max res.)	400.0A AC/DC (0.1A)
μ A AC+DC Current (max res.)	—
AC/DC Voltage (max res.)	600VAC/400VDC (1AC/0.1VDC)
Resistance (max res.)	—
Capacitance (max res.)	—
Frequency (max res.)	10Hz to 10kHz (0.01Hz)
Temperature (max. res.)	—
UL, CE, Category rating	CE, CAT II-600V
Dimensions/Weight	7.2X2.5X1.4" (183X64X36mm)/6.7oz (190g)
Warranty	1 year





380976-K 1000A AC 1-/3-Phase Power Clamp Meter

Includes test lead kit

- AC+DC μ A Current with 10nA resolution for flame rod tests
- Auto Detect AC/DC Voltage measurements with simultaneous Frequency display
- Test Lead Kit includes: two CAT IV-600V 72" (1.8m) lead extensions; two modular test probe handles; two plunger activated retractable jaw clips; two extra large alligator clips
- Complete with test lead kit, general Type K bead wire probe, case, and 9V battery



382075 2000A AC/DC 3-Phase Power Clamp Analyzer

Measures, computes, and displays 3-Phase Power on Balanced or Unbalanced Loads

- Display Lead/Lag Current/Voltage phase shift in degrees
- Store/recall last 4 readings
- DC Current Auto-Zero
- Dual displays: kW+PF, kVA+kVAR, phase-angle+Hz, Volts+Hz, or Amps+Hz
- Advanced Relative and Min/Max functions
- Data Hold
- Complete with test leads, carrying case, and 9V battery



NEW

PQ2071 1000A AC 1-/3-Phase Power Clamp Meter

Measures AC Current, Frequency, and Power including True Power, Apparent Power, Reactive Power and Active Power

- Dual backlit LCD display with bargraph
- Built-in non-contact Voltage Detector with LED alert
- Manually store/recall up to 99 data sets
- Data Hold and Max/Min
- Auto power off
- USB interface
- Complete with test leads, USB cable, PC software, 9V battery, and carrying case

380976-K N

10,000 count LCD	9999 count LCD	9999 count LCD
1.6" (40mm); 500MCM	2.2" (55mm); 1000MCM	2.2" (55mm); 1000MCM
Yes	Yes	Yes
600kW (10W)	1200kW (0.01kW)	750kW (10W)
$\pm 2\%$ rdg	$\pm 1.5\%$ rdg	$\pm 3\%$ rdg
600kVA (10VA)	1200kVA (0.01kVA)	750kVA (10kVA)
600kVAR (10VAR)	1200kVAR (0.01kVAR)	750kVAR (10VAR)
Yes	Yes	Yes
-65 to +60°	-90° to +90° (0.1°)	-180° to 180° (1°)
—	—	9999 kWh (0.001 kWh)
Yes	—	—
—	—	—
100.00A, 1000.0A AC (10mA)	2000A AC/DC (0.1A)	1000A AC (100mA)
1000 μ A Trms (0.01 μ A)	—	—
600V (0.1mV)	600V (0.1V)	750V AC (0.1V)
1000k Ω , 100M Ω (0.1 Ω)	—	—
7000 μ F (0.001 μ F)	—	—
40Hz to 1kHz (0.1Hz)	40 to 400kHz (0.1Hz)	50Hz to 200Hz (1Hz)
-58 to 1000°F or -50 to 900°C (0.1°)	—	—
UL, CE, CAT III-600V	UL, CE, CAT III-600V	CE, CAT III-1000V; CAT IV-600V
9x3x1.6" (228x76x39mm)/16.4oz (465g)	10.7x4.8x1.8" (271x122x46mm)/24.7oz (700g)	11.5x3.75x1.5" (292x95x38mm)/18.4oz (522g)
1 year	1 year	1 year

382075 N

10,000 count LCD	9999 count LCD	9999 count LCD
1.6" (40mm); 500MCM	2.2" (55mm); 1000MCM	2.2" (55mm); 1000MCM
Yes	Yes	Yes
600kW (10W)	1200kW (0.01kW)	750kW (10W)
$\pm 2\%$ rdg	$\pm 1.5\%$ rdg	$\pm 3\%$ rdg
600kVA (10VA)	1200kVA (0.01kVA)	750kVA (10kVA)
600kVAR (10VAR)	1200kVAR (0.01kVAR)	750kVAR (10VAR)
Yes	Yes	Yes
-65 to +60°	-90° to +90° (0.1°)	-180° to 180° (1°)
—	—	9999 kWh (0.001 kWh)
Yes	—	—
—	—	—
100.00A, 1000.0A AC (10mA)	2000A AC/DC (0.1A)	1000A AC (100mA)
1000 μ A Trms (0.01 μ A)	—	—
600V (0.1mV)	600V (0.1V)	750V AC (0.1V)
1000k Ω , 100M Ω (0.1 Ω)	—	—
7000 μ F (0.001 μ F)	—	—
40Hz to 1kHz (0.1Hz)	40 to 400kHz (0.1Hz)	50Hz to 200Hz (1Hz)
-58 to 1000°F or -50 to 900°C (0.1°)	—	—
UL, CE, CAT III-600V	UL, CE, CAT III-600V	CE, CAT III-1000V; CAT IV-600V
9x3x1.6" (228x76x39mm)/16.4oz (465g)	10.7x4.8x1.8" (271x122x46mm)/24.7oz (700g)	11.5x3.75x1.5" (292x95x38mm)/18.4oz (522g)
1 year	1 year	1 year

PQ2071 N

10,000 count LCD	9999 count LCD	9999 count LCD
1.6" (40mm); 500MCM	2.2" (55mm); 1000MCM	2.2" (55mm); 1000MCM
Yes	Yes	Yes
600kW (10W)	1200kW (0.01kW)	750kW (10W)
$\pm 2\%$ rdg	$\pm 1.5\%$ rdg	$\pm 3\%$ rdg
600kVA (10VA)	1200kVA (0.01kVA)	750kVA (10kVA)
600kVAR (10VAR)	1200kVAR (0.01kVAR)	750kVAR (10VAR)
Yes	Yes	Yes
-65 to +60°	-90° to +90° (0.1°)	-180° to 180° (1°)
—	—	9999 kWh (0.001 kWh)
Yes	—	—
—	—	—
100.00A, 1000.0A AC (10mA)	2000A AC/DC (0.1A)	1000A AC (100mA)
1000 μ A Trms (0.01 μ A)	—	—
600V (0.1mV)	600V (0.1V)	750V AC (0.1V)
1000k Ω , 100M Ω (0.1 Ω)	—	—
7000 μ F (0.001 μ F)	—	—
40Hz to 1kHz (0.1Hz)	40 to 400kHz (0.1Hz)	50Hz to 200Hz (1Hz)
-58 to 1000°F or -50 to 900°C (0.1°)	—	—
UL, CE, CAT III-600V	UL, CE, CAT III-600V	CE, CAT III-1000V; CAT IV-600V
9x3x1.6" (228x76x39mm)/16.4oz (465g)	10.7x4.8x1.8" (271x122x46mm)/24.7oz (700g)	11.5x3.75x1.5" (292x95x38mm)/18.4oz (522g)
1 year	1 year	1 year

PQ3450/PQ3470 3-Phase Power Quality Analyzer/Dataloggers



Model PQ3450



Patent Pending

Model PQ3470 with Harmonics

Clamp Probes for PQ3450 & PQ3470

Choose from clamp probes ranging from 200A to 3000A and flexible vs traditional jaw.



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



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



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

Choice of Numerical or Graphical display with Harmonics model

- Large, dot-matrix, sun readable, numerical, backlit LCD
- Optional 200A, 1200A Current Clamps or 3000A Flexible Current Probes
- 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 Microsoft 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 meter, 4 voltage leads with alligator clips, 8 AA batteries, SD memory card, Universal AC adaptor (100 to 240V), and durable hard carrying case. Clamp probes sold separately; 1 year warranty

Model PQ3470 Additional Features

- On-screen Harmonics display (1 to 50th order)
- Simultaneous display of Harmonics and Waveform
- Simultaneous display of Voltage and Current waveforms
- Display of Waveform with peak values
- Analysis of Total Harmonic Distortion (THD)
- Graphic Phase diagram with 3-Phase system parameters
- 3-phase Voltage or Current Unbalanced Ratio (VUR, AUR) and unbalanced factor
- Capture Transient events (including dip, swell, outage) with programmable threshold (%)

SPECIFICATIONS	RANGE	BASIC ACCURACY
AC Voltage (True RMS)	600.0V	±(0.5%rdg)
AC Current	1200A	±(0.5%rdg)
Active Power (MW)	9.999MW	±(1.0%rdg)
Apparent Power (MVA)	9.999MVA	±(1.0%rdg)
Reactive Power (MVAR)	9.999MVAR	±(1.0%rdg)
Power Factor	0.00 to 1.00	±0.04
Frequency Range	45Hz to 65Hz	±0.1Hz
Phase	-180° to +180.0°	±1°
Harmonics (PQ3470)	1 to 50th	±2% (1 to 20); ±4% (21 to 31)
Crest Factor (PQ3470)	1.00 to 99.99	±(5%)
Current Clamp input	200mV, 300mV, 500mV; 1V, 2V, 3V; user-adjustable	±(0.5%rdg)
Active Power Energy (MWH)	0.0kWh to 9.999MWH	±(2.0%rdg)
Apparent Power Energy (MVAH)	0.0KVAh to 9.999MVAH	±(2.0%rdg)
Reactive Power Energy (MVARH)	0.0kVARh to 9.999MVARH	±(2.0%rdg)
Datalogging	30,000 data (2GB SD Card)	
Peak AC Voltage/Current Accuracy		±(5%) PQ3470 only
CE/CAT rating	CE/CAT III-600V	
Dimensions/ Weight	8.86 x 4.92 x 2.52" (225 x 125 x 64mm)/ 2.2lbs (1010g)	

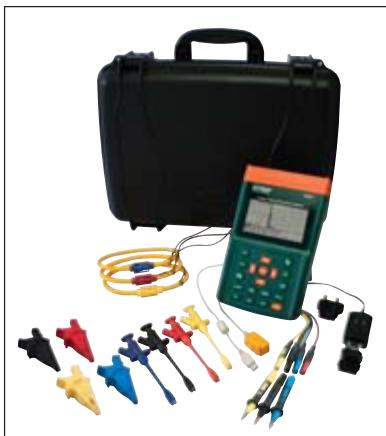
ORDERING

PQ3450	3-Phase Power Analyzer/Datalogger
PQ3470	3-Phase Graphical Power and Harmonics Analyzer/Datalogger
PQ3450 Kits	
PQ3450-2	200A Power Analyzer Kit: PQ3450 with PQ34-2
PQ3450-12	1200A Power Analyzer Kit: PQ3450 with PQ34-12
PQ3450-30	3000A Power Analyzer Kit: PQ3450 with PQ34-30
PQ3470 Kits	
PQ3470-2	200A Power Analyzer Kit: PQ3470 with PQ34-2
PQ3470-12	1200A Power Analyzer Kit: PQ3470 with PQ34-12
PQ3470-30	3000A Power Analyzer Kit: PQ3470 with PQ34-30
Accessories	
PQ1000	Voltage Test Leads with Alligator and Plunger Clips (4 leads)
PQ34-2	200A Current Clamp Probes (Set of 3)
PQ34-12	1200A Current Clamp Probes (Set of 3)
PQ34-30	3000A, Flexible Current Probes (Set of 3)



PQ3350-1/PQ3350-3 3-Phase Power Quality & Harmonics Analyzers

CE



Includes (3) flexible current clamps, (4) voltage leads with alligator clips and retractable plunger clips, 8 AA batteries, universal AC adaptor, software, USB interface cable, and case; 1 year warranty.

Power Measurements and Analysis + Datalogging of single and 3-phase/3-wire or 3-phase/4-wire systems

- Model **PQ3350-1** (1200A 12" flexible current clamp probes)
- Model **PQ3350-3** (3000A 24" flexible current clamp probes)
- Large backlighting LCD displays up to 35 parameters in one screen
- Clamp-on True RMS power measurements with on-screen Harmonics display
- Simultaneous display of Voltage and Current waveforms
- Analysis of Total Harmonic Distortion (THD-F)
- Maximum Demand (MDkW, MW, kVA, MVA) with programmable period
- Adjustable CT ratio (1 to 600) and VT ratio (1 to 3000)
- Graphic Phase diagram with 3-Phase system parameters
- 3-phase Voltage or Current Unbalanced Ratio (VUR, AUR) and unbalanced factor
- Calculated Unbalanced Current through Neutral Line (I_n)
- Capture 28 Transient events (including Dip, Swell and Outage) with programmable threshold (%)
- Optically isolated USB interface with software to download Waveforms, Power Parameters and Harmonics

SPECIFICATIONS	RANGES	BASIC ACCURACY
AC Voltage (True RMS)	600V	±0.5%rdg
AC Current (True RMS)	100A, 1000A, 3000A*	±0.5%rdg
Active Power (kW)	9.999MW	±1%rdg
Apparent Power (kVA)	9999kVA	VA=Vrms x Arms
Reactive Power (kVAR)	9999kVAR	VAR=sqr (VA ² -W ²)
Power Factor	0.0 to +1.00	±1.5%rdg
Frequency	45-65Hz	0.1Hz
Phase	-180.0°~ 0°~ +180.0°	±1°
Harmonics	1 to 99	±2%
Crest Factor	1.00 to 99.99	±5%
Peak AC Voltage accuracy	±(5%rdg+30d)	
Peak AC Current accuracy	±(5%rdg+30d)	
Active Power Energy (kWh)	0mWh to 999,999kWh	
Reactive Power Energy (kVARh)	0.0kVARh to 1000MWh	
Datalogging	52428 records (1P2W)/17476 records (3P4W)	
CAT rating	CAT III-600V	
Dimensions/ Weight	Meter: 10.1 x 6.1 x 2.3" (257 x 155 x 57mm)/ 2.5 lbs (1160g) Clamp: 2.2" (55mm), 2.5" x 1.0" (64x24mm) busbar/ 1.3 lbs (600g)	

* Using PQ3220 Current Probe (included with PQ3350-3 kit)

ORDERING

PQ3350-1	N	1200A 3-Phase Power Harmonics Analyzer Kit (includes PQ3210)
PQ3350-3	N	3000A 3-Phase Power Harmonics Analyzer Kit (includes PQ3220)
PQ3350		3-Phase Power Harmonics Analyzer (Meter, Test Leads, and Case)
PQ1000		Voltage Test Leads with Alligator and Plunger Clips (4 leads)
PQ3110		100A Current Clamp Probes (Set of 3)
PQ3120		1000A Current Clamp Probes (Set of 3)
PQ3210		1200A, Flexible Current Probes (Set of 3)
PQ3220		3000A, Flexible Current Probes (Set of 3)

OPTIONAL CLAMP PROBES FOR MODEL PQ3350 POWER ANALYZER

Model PQ3110
100A Current Clamp Probes
with 1.2" (30mm) jaw opening

Model PQ3120
1000A Current Clamp Probes
with 2.2" (55mm) jaw opening

Model PQ3210 (1200A)
Model PQ3220 (3000A)
1200A (12"/304mm) or 3000A (24"/609mm) Flexible Current Clamp Probes for wrapping around busbars

380820 Universal AC Power Source + AC Power Analyzer



CE



Software included

Front (1000W) and Rear (2000W max) universal output sockets for testing products from 85 to 250VAC, 45 to 65Hz

- Standby Power Measurement for desktop and notebook PCs, LCD TVs, AC adaptor/chargers, and other products that consume power when not in use
- Power Quality Measurement (Watts, Power Factor, Voltage, Current, Harmonics)
- Cost Function calculates cost per day, month, and year
- 99 memory locations for preset voltage and frequency output settings
- Standby and Operation button
- User-programmable Over Current Protection (current limiting)
- Programmable through the built-in RS-232 interface
- Data acquisition mode captures readings to your PC with a user-programmable sampling rate of 2 to 65,535 seconds
- Complete with AC power cord, RS-232 to USB cable and software; 1 year warranty

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Front Panel			
Output Voltage	85 to 250V	0.1V	±1%
Output Frequency	45 to 65Hz	0.01Hz	±0.1Hz
Power	10mW to 100W	0.1mW	±1%
AC Current	5mA to 1.5A	0.1mA	±1%
Power Factor	0 to 1	0.001	±0.04
Rear Panel			
Output Voltage	85 to 250V	0.1V	±1%
Output Frequency	45 to 65Hz	0.01Hz	±0.1Hz
Power	100mW to 2000W	0.1mW	±1%
AC Current	5mA to 10A	0.1mA	±1%
Power Factor	0 to 1	0.001	±0.04
Harmonics (in amps)	1 to 50th order	0.1mA	±1.4% (1-10th)
THD	0.0 to 999.9%	0.1%	±3%
Input Power Source	110V or 220V; 45 to 65Hz		
Dimension/ Weight	12 x 10.2 x 5.9" (305 x 260 x 151mm)/ 21.8lbs (9.9kg)		

ORDERING

380820 Universal AC Power Source/Analyzer

380803 True RMS Power Analyzer Datalogger



Software included

Compact, battery operated device for analyzing AC power loads — with PC interface plus datalogging

- Four simultaneous displays of Power, Power Factor or VA, Voltage or Hz, Current
- True RMS Voltage & Current measurements of sine, square, triangular and distorted waveforms with a crest factor < 5
- Datalogger stores up to 1,012 readings (Single record storage or continuous log)
- Max, Data Hold and Overload Protection
- Battery power provides line isolation
- Plug device to be tested directly into the Power Analyzer
- Sampling (update) rate is 2.5 times/second
- Complete with Windows® compatible software, cable, 8 x AA batteries, power cord, 117 VAC adaptor and protective hard case; 1 year warranty

SPECIFICATIONS	RANGE	RESOLUTION	ACCURACY (%RDG)	INPUT SIGNAL RANGE
Watt (AC)	200, 2000W	0.1W, 1W	±0.9%	300V, 20A, 50 - 400Hz
Power Factor (Watt/VA)	0 to 1.00	0.001	±4 digits	250V, 20A, 50/60Hz
Voltage	200V, 750V	0.1V, 1V	±0.9%	±0.2%
Current	2/20A via terminals 2/15A via sockets		±0.9%	(Fuse Protected)
Frequency	2kHz, 20MHz	1Hz to 10kHz	±0.5%	
Dimensions/Weight	13.9x11.8x3.9" (352x300x100mm)	/ 3.6lbs (1.6kg)		

ORDERING

 380803 **N** True RMS Power Analyzer Datalogger

USB100 RS-232 to USB Adaptor



401014 Indoor/Outdoor Thermometer**Built-in memory stores Minimum and Maximum Temperature readings**

- Large LCD displays 1" (25mm) 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" (112x102x22mm); Weight: 6.5oz (186g)
- 1 year warranty
- Complete with weatherproof temperature sensor with 9.6ft (3m) thin cable, stand, AAA battery, and wall mounting bracket

ORDERING

401014 Big Digit Indoor/Outdoor Thermometer

39240 Waterproof Thermometer**Pocket-size with MAX/MIN recording**

- 2.75" (70mm) 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" (150x20x18mm); Weight: 0.7oz (20g)
- 1 year warranty
- Complete with one LR44 button battery and protective cover

ORDERING

39240 Waterproof Thermometer

TM20/TM25 Waterproof Temperature Indicators**Choice of model with stainless steel short probe or long penetration probe**

- TM20: 0.78" (20mm) probe, 9.6ft (2.9m) cable; -40 to 158°F (-40 to 70°C)
- TM25: 4.1" (105mm) penetration probe, 5ft (1.5m) cable; -40 to 392°F (-40 to 200°C)
- Audible/visual alarm with High/Low set points
- ±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" (86x57x30mm)
Weight: 3.2oz (90g)
- Complete with magnetic back, foot stand, probe, and one CR2032 3V button battery; 1 yr warranty

ORDERING

TM20 Waterproof Temperature Indicator

TM25 Waterproof Temperature Indicator with Penetration Probe

392050 Penetration Dial Thermometer**Sharp stainless steel probe measures temperature in air, liquids & semi-solids**

- 5" (130mm) probe with 2" (54mm) dial
- Range: -58 to 302°F (-50 to 150°C)
Basic accuracy: ±2°F/1°C
Resolution: 0.1°/1°
- ON/OFF switch saves battery life
- Auto Power off after 1 hour
- Weight: 1oz (29g)
- 1 year warranty
- Complete with 1.5V LR44 battery

ORDERING

392050 Penetration Dial Thermometer

TM55 NSF Pocket Fold-Up Food Thermometer**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" (61mm) stainless steel probe
- Fast response time at < 5 secs in moving liquid
- Large LCD display with 0.1° resolution
- Basic accuracy: ±1°F/0.5°C
- Probe can be positioned from 0° (storage) to 180°; Auto off when probe is stored
- Built-in magnetized strip
- Dimensions: 4.6x1.5x0.8" (116 x 38 x 20mm); Weight: 1.5oz (41.2g)
- Complete with CR2032 battery; 1 yr warranty

ORDERING

TM55 Pocket Fold-Up Food Thermometer

TM40 Corkscrew Stem Thermometer**T-shaped design for easy grip to twist the screw tip into solid/semi-solid materials**

- Rugged 4" (101mm) stainless steel probe
- Range: -58 to 302°F (-50 to 150°C)
Basic accuracy: ±1.8°F/1°C
Resolution: 0.1°/1°
- Auto power off conserves battery life
- Dimensions: 6.3x4x1.2" (160x107x30mm); Weight: 3.2oz (91g)
- Complete with SR44 (G13) button battery and protective sheath; 1yr warranty

ORDERING

TM40 Corkscrew Stem Thermometer

480846 8GHz RF EMF Strength Meter



CE

High frequency radiation measurement from 10MHz to 8GHz

- For electromagnetic field strength measurement including mobile phone base station antenna radiation, RF power measurement for transmitters, WAN detection/installation, wireless communication applications (CW, TDMA, GSM, DECT) and microwave leakage
- 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
- 1 year warranty
- Complete with 9V battery and carrying case

SPECIFICATIONS	RANGE
Frequency range	10MHz to 8GHz
Directional Characteristic	Isotropic, 3-dimensional
Measurement Ranges	20mV/m to 108.0 V/m 53µA/m to 286.4mA/m 1µW/m ² to 30.93 W/m ² 0µW/cm ² to 3.093 mW/cm ²
Audible Alarm	Adjustable threshold with On/Off
Memory	Manual save/recall of 99 sets
Dimensions/Weight	2.6x2.4x9.7" (67x60x247mm)/ 8.8oz (250g)

ORDERING

480846 RF EMF Strength Meter (8.0GHz)

480836 3.5GHz RF EMF Strength Meter



CE

Radiation measurement in the 50MHz to 3.5GHz frequency range

- For electromagnetic field strength measurement of mobile phones, cell phone and base stations, microwave leakage
- Non-directional (isotropic) measurement with 3-channel (triaxial) measurement probe
- User selectable alarm threshold
- Max Hold and Average functions
- 1 year warranty
- Complete with 9V battery and carrying case

SPECIFICATIONS	RANGE
Frequency range	50MHz to 3.5GHz
Directional Characteristic	Isotropic, 3-dimensional
Measurement Ranges	20mV/m to 108 V/m 53µA/m to 286mA/m 1µW/m ² to 30.93mW/m ² 0µW/cm ² to 3.093mW/cm ²
Audible Alarm	Adjustable threshold with On/Off
Memory	Manual save/recall of 99 sets
Dimensions/Weight	2.4x2.4x9.3" (60x60x237mm)/ 7.1oz (200g)

ORDERING

480836 RF EMF Strength Meter (3.5GHz)



480826 Triple Axis EMF Tester



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

- Designed to provide user a quick, reliable and easy way to measure EMF radiation levels around power lines, electrical appliances and industrial devices
- Wide ranges (3 ranges measured in μ Tesla or mGauss)
- Calibrated to measure EMF radiation at wide bandwidths from 30Hz to 300Hz
- Big digit LCD display with Data hold
- Easy to use remote probe
- 1 year warranty
- Complete with sensor with 3ft (930mm) cable, 9V battery, and hard carrying case

SPECIFICATIONS	RANGE	MAX. RESOLUTION	BASIC ACCURACY
μ Tesla	20 μ Tesla	0.01 μ Tesla	\pm 4%
	200 μ Tesla	0.1 μ Tesla	\pm 5%
	2000 μ Tesla	1 μ Tesla	\pm 10%
mGauss	200mGauss	0.1mGauss	\pm 4%
	2,000mGauss	1mGauss	\pm 5%
	20,000mGauss	10mGauss	\pm 10%
Number of Axis	3-axis X, Y, Z direction		
Bandwidth	30Hz to 300Hz		
Sampling Time	Approx. 0.4 second		
Power Current	Approx. DC 2.7mA		
Dimensions/Weight	2.6x1.2x 7.6" (68x30x195mm)/16.2 oz (460g) including probe and battery		

ORDERING

480826 Triple Axis EMF Meter

480823 EMF/ELF Meter



Measure electromagnetic field radiation levels from fans, electrical appliances, wiring, and power lines

- ELF frequency bandwidth of 30 to 300Hz
- Single axis - sampling 2.5 times per second
- Large 1/2" LCD (1999 count) display of Electromagnetic Field (EMF) level in milliGauss or microTesla
- Accurate measurements to 4% over a measuring range of 0.1 to 199.9mGauss (0.01 to 19.99 μ Tesla)
- Dims: 5.2x2.8x1" (132x71x25mm); Weight: 6oz (170g)
- Complete with 9V battery; 1 year warranty

ORDERING

480823 Electromagnetic Field Meter

409992 Soft pouch carrying case

EMF300 Microwave Leakage Detector



Designed to measure high frequency radiation levels emitted from household and commercial microwave ovens

- 0 to 1.999mW/cm² measurement range
- <2db accuracy (1mW/cm² @ 2.45GHz \pm 50MHz)
- Audible alarm if level is >1mW/cm²
- 2.45GHz calibration frequency
- EMF values from 30MHz to 3GHz can also be measured for reference only
- Peak Hold function captures highest value
- Overrange indicator
- Dimensions: 6x2.7x1.4" (152x69x36.3mm); Weight: 7oz (202g)
- Complete with 9V battery; 1 year warranty

ORDERING

EMF300 Microwave Leakage Detector

Tough, Reliable and Accurate

Extech infrared thermometers provide non-contact, point-and-shoot temperature measurements ensuring safety and accuracy on the job. With unrivaled distance ratios, temperature ranges, and laser targeting options, Extech offers IR thermometers for every application.



IR Thermometers

Choose the best InfraRed Thermometer to fit your application needs by selecting the proper measurement range, field of view, resolution, and accuracy. Applications include industrial plant maintenance, HVAC/R, electrical contracting, boiler/steam systems, automotive, foodservice, laboratory, metallurgy & more.

SPECIFICATIONS

IR Temperature (Non-contact)	-4 to 518°F (-20 to 270°C)
Basic Accuracy	±(2.5%rdg±3.6°F/2°C)
Max. Resolution	0.1°F/°C
Emissivity	0.10 to 1.0 adjustable
Field of view (Distance to Target)	6:1
CE approved	Yes
Dimensions	3.7x2x1" (94x51x25mm)
Weight	2.7oz (76g)
Warranty	1 year

IR201A

**IR201A 518°F
(270°C), 6:1,
Pocket Laser
IR Thermometer**

Handy troubleshooting thermometer with laser pointer

- Measures non-contact surface temperature up to 518°F (270°C)
- Adjustable high alarm
- Economical small pocket size design for convenience
- Built-in laser pointer identifies target area
- Data Hold and Min/Max Hold
- Lock mode for continuous scanning
- Auto power off
- Adjustable emissivity for better accuracy on different surfaces
- Complete with two AAA batteries and pouch case



**42500 500°F
(260°C), 6:1,
Compact Laser
IR Thermometer**

Compact thermometer measures up to 500°F (260°C)

- Built-in laser pointer identifies target area
- Backlighting
- Automatic Data Hold when trigger released
- Fixed 0.95 emissivity covers 90% of surface applications
- Auto power off
- Complete with 9V battery and pouch case

42500 **N**

-4 to 500°F (-20 to 260°C)
±2% of rdg or ±4°F/±2°C (whichever is greater)
1°F/°C
0.95 fixed
6:1
Yes
3.2x1.7x6.7" (82x44x170mm)
4.9oz (140g)
1 year





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

Compact thermometer measures up to 630°F (332°C) with MIN/MAX readings

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



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

Compact thermometer measures up to 1200°F (650°C) with high accuracy

- 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
- Backlighting
- Over-range indicator
- Automatic Data Hold when trigger released
- Auto power off
- Complete with 9V battery and pouch case



Special Offer

42515-T includes
FREE Type K
Pipe Clamp (TP200)
Temperature probe

42515/42515-T 1472°F (800°C), 13:1, IR Thermometer Type K Input, Memory

Automatic Emissivity
Adjustment allows accurate measurement of virtually any surface

- Wide temperature range for IR temperature and type K thermocouple measurements
- Automatic emissivity adjustment (for temperatures 212°F or higher)
- Stores up to 20 data points
- Adjustable high/low visual and audible alarm
- MAX/MIN/AVG/DIF display highest, lowest, average, and MAX minus MIN values
- LCD display with backlight
- Built-in laser pointer
- Data Hold, Auto power off, and Low battery indication
- **42515:** Includes 9V battery, general purpose type K bead wire probe, and soft case

Special offer 42515-T:
Includes 42515 and TP200 pipe clamp temperature probe
(-4 to 200°F/-20 to 93°C)

IR400 ■

-4 to 630°F (-20 to 332°C)

±2% of reading +4°F/2°C

0.1°F/C

0.95 fixed

8:1

Yes

3.2x1.6x6.3" (82x42x160mm)

6.3oz (180g)

1 year

42510A ■

-58 to 1200°F (-50 to 650°C)

±(1% of reading + 2°F/1°C)

0.1°F/C; 1°F/C

0.1 to 1.00 Adjustable

12:1

Yes

3.2x1.6x6.3" (82x42x160mm)

6.4oz (180g)

3 years

■ 42515 ■ ▲ 42515-T ■

IR: -58 to 1472°F (-50 to 800°C);
Type K: -58 to 2498°F (-50 to 1370°C)

IR: ±2%rdg or 4°F(2°C);
Type K: ±1.5%rdg + 2°F/1°C

0.1°F/C

0.1 to 1.00 Adjustable

13:1

Yes

3.2 x1.6x6.3" (82x42x160mm)

6.4oz (180g)

3 years

SPECIFICATIONS

IR Temperature (Non-contact)

Basic Accuracy

Max. Resolution

Emissivity

Field of view (Distance to Target)

CE approved

Dimensions

Weight

Warranty

Set Yourself Apart from the Competition

Dual-laser IR temp gun accurately detects temperatures at farther distances, and the 100-millisecond response time enables faster hot spot scanning. Advanced features include a Type K probe and continuous data transfer to a PC via the USB connection and included software.



Watch the Video
www.extech.com/video



For a variety of Type K Thermocouple temperature probes for products with Type K input, see pages 40, 41, & 74



Display color changes indicating if reading is within range



42509 Dual Laser, 950°F (510°C), 12:1, IR Thermometer with Color Alert

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

- Great for processes that require temperature control and monitoring
- Fast, accurate measurements at 12" where the two lasers converge with 12:1 field of view
- Blue backlit dual LCD display changes to Red when reading exceeds High or Low set points
- Fast 150 millisecond instantaneous response for capturing spikes in temperature
- Max Hold
- Lock function for continuous readings
- Adjustable emissivity
- Adjustable High/Low set points with audible alarm
- 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 9V battery

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" 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 9V battery

SPECIFICATIONS	42509 <small>N</small>	42512 <small>N</small>
Range	-4 to 950°F (-20 to 510°C)	-58 to 1832°F (-50 to 1000°C)
Basic Accuracy	±(1% of rdg + 2°F/1°C)	±(1% of rdg + 2°F/1°C)
Repeatability	±0.5% or 1.8°F/1°C	±0.5% or 1.8°F/1°C
Max. Resolution	0.1°F/C	0.1°F/C
Emissivity	0.10 to 1.00 Adjustable	0.10 to 1.00 Adjustable
Field of View (Distance to Target)	12:1	30:1
CE approved	Yes	Yes
Dimensions/ Weight	5.7x4x1.6" (146x104x43mm)/ 5.7oz (163g)	5.7x4x1.6" (146x104x43mm)/ 5.7oz (163g)
Warranty	3 years	3 years





42540 1400°F (760°C), 16:1, with Alarm, IR Thermometer

**16:1 distance to target ratio,
rugged thermometer**

- High Temperature range from -58° to 1400°F (-50 to 760°C)
- 16 to 1 distance to target ratio
- 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 9V battery and hard carrying case



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 9V battery and hard carrying case



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

Fast response (100mS) with highest 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 0.10 second response time
- Tripod mounting feature and Lock function for continuous measurements
- Stores up to 100 readings
- White 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, 9V battery and case

Type K Thermometer

42540 N

-58 to 1400°F (-50 to 760°C)

±2%rdg or 4°F (2°C) whichever is greater<932°F (500°C); ±(2.5%rdg + 5°)>932°F (500°C)

±0.5% or ±1.8°F/1°C

0.1°F/C

0.1 to 1.00 Adjustable

16:1

Yes

3.9x2.2x9" (100x56x230mm)/ 10.2oz (290g)

3 years

42545 N

-58 to 1832°F (-50 to 1000°C)

2%rdg + 4°F/2°C<932°F (500°C); 3% + 9°F/4°C>932°F (500°C)

±0.5% or ±1.8°F/1°C

0.1°F/C

0.1 to 1.00 Adjustable

50:1

Yes

3.9x2.2x9" (100x56x230mm)/ 10.2oz (290g)

3 years

42570 N

IR: -58 to 3992°F (-50 to 2200°C)
Type K: -58 to 2498°F (-50 to 1370°C)

±(1%rdg + 2°F/1°C)

±0.5% or ±1.8°F/1°C

0.1°F/C

0.1 to 1.00 Adjustable

50:1

Yes

8x6.1x2" (204x155x52mm)/ 11.3oz (320g)

3 years

SPECIFICATIONS

Range

Basic Accuracy

Repeatability

Max. Resolution

Emissivity

Field of View (Distance to Target)

CE approved

Dimensions/ Weight

Warranty

IRT500 Dual Laser IR Thermal Scanner



CE

Three-color LED Indicators. Any readings above (Red) and below (Blue) user set points (Green) will trigger the LED color alert

Five preset threshold settings and 3 color LED indicators make it easy to locate hot and cold spots quickly by scanning the area being tested

- Three-color LED indicates High (red), Normal (green), or Low (blue) when scanning for temperature irregularities
- Audible alarm increases as temperature increases or decreases
- 5 user-programmable threshold settings
- A dual laser system indicates ideal measuring distance by converging at 20" (50.8cm) to confirm a 1" (2.5cm) target spot
- Fast-response, 150 millisecond sampling rate
- Tilt adjustable LCD display with bright white backlit feature and dual bargraphs
- Min/Max and easy keypad operation
- Trigger lock for continuous use
- Complete with 9V battery and carrying case; 1 year warranty

SPECIFICATIONS

Laser Convergence Distance	20" (50.8cm)
Range	-58 to 500°F (-50 to 260°C)
Max Resolution	0.1°F/°C
Basic Accuracy	±(1% of rdg + 3.3°F/1.5°C)
Emissivity	Fixed at 0.95
Threshold for color transition	1°, 5°, 10°, set Min, set Max
Field of View (Distance to Target)	20:1
Dimensions	6.6x3.2x2.3" (168x82x58mm)
Weight	5.7oz (163g)

ORDERING

IRT500 **N** Dual Laser IR Thermal Scanner

IRT600 Dual Laser IR Thermal Condensation Scanner



CE

Large, bright LED indicator changes color to show the mildew potential for the current environmental conditions: Green LED indicates a very low potential; Yellow LED indicates a moderate potential; Red LED indicates a high probability for mildew formation

Measures Temperature and Humidity then calculates Dew Point and warns when conditions for mold growth exist

- Great for processes that require surface temperature control and monitoring
- Green LED changes to Yellow and then to Red as the surface temperature reading gets closer to and then equals the calculated Dew Point reading
- Dual lasers indicate ideal measuring distance where the two lasers converge to a 1" target spot
- 12:1 Distance to Target ratio
- 150 millisecond IR Temperature response time
- Switchable backlight and laser
- Max hold
- Complete with case and 9V battery; 1 year warranty

SPECIFICATIONS

IR Temperature Range	-22 to 662°F (-30 to 350°C)
Basic Accuracy	±(1% of rdg + 2.7°F/1.5°C)
Air Temperature	32 to 122°F (0 to 50°C)
Max resolution	0.1°F/°C
Distance to Target	12:1
Emissivity	0.95 fixed
Humidity	20 to 80%RH
RH accuracy	±3.5%RH
Dew Point	-22 to 212°F (-30 to 100°C)
Dimensions	6.6x3.2x2.3" (168x82x58mm)
Weight	5.7oz (163g)

ORDERING

IRT600 **N** Dual Laser IR Thermal Condensation Scanner

VIR50 Digital Laser Video IR Thermometer

2.2" Color TFT LCD and Built-in Camera with a microSD card for capturing images (JPEG) and video for viewing on your PC

- Dual laser indicates ideal measuring distance where the two laser points converge to a 1" target spot
- Fast 150 millisecond response time
- Color LED bargraph for viewing trends
- Type K Thermocouple input
- Air Temperature and Relative Humidity measurement
- Adjustable emissivity increases measurement accuracy for different surfaces
- Adjustable High/Low set points with audible alarm alerts user when temperature exceeds the programmed set points
- MAX/MIN/AVG/DIF functions
- Trigger lock function for continuous readings
- USB interface
- Auto power off
- Double molded housing
- Complete with microSD card, general purpose Type K bead wire probe, USB cable, rechargeable 3.7V battery, and carrying case; 3 year warranty
(See p. 40, 41, and 74 for additional optional Type K Thermocouple probes)

SPECIFICATIONS

Laser Convergence Distance	50" (127cm)
IR Temperature Range	-58 to 3992°F (-50 to 2200°C)
Repeatability	±0.5% or 1.8°F/1°C
Basic Accuracy	±(1% of rdg + 2°F/1°C)
Max resolution	0.1°F/°C
Emissivity	0.10 to 1.00 Adjustable
Field of View (Distance to Target)	50:1
Type K Temperature Range	-58 to 2498°F (-50 to 1370°C)
Air Temperature Range	32 to 122°F (0 to 50°C)
Relative Humidity	0 to 100%RH
Dimensions	7.4x6.0x2.2" (189x152x57mm)
Weight	17.4oz (494g)

ORDERING

VIR50 N	Dual Laser Video IR Thermometer
BATT-37V	Rechargeable 3.7V battery



Large 2.2" color video LCD displays measurement area with temperature/humidity, min/max/avg, date, and time stamp



Upload images and videos to a PC or laptop for further analysis or use for report documentation.

More Capabilities for Better Diagnostics

Our thermocouple thermometers deliver accurate temperature readings and easy, one-button Delta-T calculations. With high/low alarms, dual and triple displays, data functions, and datalogging, Extech expands your problem-solving capabilities.



ACCESSORIES

TP200	Type K Clamp Probe (-4 to 200°F)
TP400	Type K High Temperature Clamp Probe (-4 to 450°F)
TP870	Type K Bead wire Probe (-40 to 482°F)
TP882	Type K Penetration Probe (-50 to 1000°F)
871515	Type K, 4" (100mm) General Purpose Probe (-32 to 1292°F/-200 to 700°C)
881605	Type K, 8" (203mm) General Purpose Probe (-328 to 1292°F/-200 to 700°C)
881603	Type K, 6" (150mm) Immersion Probe (-58 to 1292°F/-50 to 700°C)
881602	Type K, 6" (100mm) Surface Probe (-58 to 1472°F/-50 to 800°C)
872502	Type J Bead Wire Probe (-328 to 392°F)
801515	Type J, 4" (100mm) General Purpose Temperature Probe (-328 to 842°F)
409996	Soft Vinyl Pouch Carrying Case (for EA15)

See p. 40-41 for additional temperature probes.



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 9V battery. (Optional temperature probes available on left accessories chart and pages 40-41)

TM300 Type J/K Dual Input Thermometer

Dual inputs allow for calculation of differential temperature readings

- Dual inputs and displays T1, T2, T1-T2 differential, plus Min, Max, Avg
- 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 two Type K bead wire temperature probes, three AAA batteries, and case. (Optional temperature probes available on left accessories chart and pages 40-41)



See desktop or Pocket style Temperature Indicators on p. 65

SPECIFICATIONS

	TM100 <small>N</small>	TM300 <small>N</small>
Single or Dual Input	Single	Dual
Type K °F (°C)	-328 to 2501°F (-200 to 1372°C)	-328 to 2501°F (-200 to 1372°C)
Type J °F (°C)	-346 to 2012°F (-210 to 1100°C)	-346 to 2012°F (-210 to 1100°C)
Basic Accuracy	±0.15% rdg	±0.15% rdg
Resolution	0.1°/1°	0.1°/1°
Datalogging	—	—
CE approved	Yes	Yes
Dimensions	8.7x2.5x1.1" (220x 63 x 28mm)	8.7x2.5x1.1" (220x 63 x 28mm)
Weight	7oz (200g)	7oz (200g)
Warranty	1 year	1 year





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. 40, 41, and 74)



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. 40, 41, and 74)



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, RS-232 cable, protective holster, case, and 6 AAA batteries. (Optional temperature probes available on p. 40, 41, and 74)

EA11A

Single	Dual	Dual	Single or Dual Input
-58 to 1999°F (-50 to 1300°C)	-200 to 1999°F (-200 to 1360°C)	-200 to 1994°F (-150 to 1090°C)	Type K °F (°C)
—	—	-200 to 1999.9°F (-150 to 1370°C)	Type J °F (°C)
±0.3% rdg	±0.3% rdg	±0.05% rdg	Basic Accuracy
0.1°/1°	0.1°/1°	0.1°	Resolution
—	—	8800 readings	Datalogging
Yes	Yes	Yes	CE approved
5.9x2.8x1.3" (150x72x35mm)	6x2.8x1.5" (152x72x37mm)	5.91x2.83x1.38" (150x72x35mm)	Dimensions
8.3oz (235g)	8.3oz (235g)	8.3oz (235g)	Weight
1 year	1 year	1 year	Warranty

EA10

Single	Dual	Dual	Single or Dual Input
-58 to 1999°F (-50 to 1300°C)	-200 to 1999°F (-200 to 1360°C)	-200 to 1994°F (-150 to 1090°C)	Type K °F (°C)
—	—	-200 to 1999.9°F (-150 to 1370°C)	Type J °F (°C)
±0.3% rdg	±0.3% rdg	±0.05% rdg	Basic Accuracy
0.1°/1°	0.1°/1°	0.1°	Resolution
—	—	8800 readings	Datalogging
Yes	Yes	Yes	CE approved
5.9x2.8x1.3" (150x72x35mm)	6x2.8x1.5" (152x72x37mm)	5.91x2.83x1.38" (150x72x35mm)	Dimensions
8.3oz (235g)	8.3oz (235g)	8.3oz (235g)	Weight
1 year	1 year	1 year	Warranty

EA15

Single	Dual	Dual	Single or Dual Input
-58 to 1999°F (-50 to 1300°C)	-200 to 1999°F (-200 to 1360°C)	-200 to 1994°F (-150 to 1090°C)	Type K °F (°C)
—	—	-200 to 1999.9°F (-150 to 1370°C)	Type J °F (°C)
±0.3% rdg	±0.3% rdg	±0.05% rdg	Basic Accuracy
0.1°/1°	0.1°/1°	0.1°	Resolution
—	—	8800 readings	Datalogging
Yes	Yes	Yes	CE approved
5.9x2.8x1.3" (150x72x35mm)	6x2.8x1.5" (152x72x37mm)	5.91x2.83x1.38" (150x72x35mm)	Dimensions
8.3oz (235g)	8.3oz (235g)	8.3oz (235g)	Weight
1 year	1 year	1 year	Warranty

SPECIFICATIONS

Track Temperature Trouble with Extech

Extech's thermocouple thermometers and dataloggers make it easier than ever to monitor and record up to 12 channels of temperature with easy to read displays and flexible datalogging options.



ACCESSORIES

TP200	Type K Clamp Probe (-4 to 200°F)
TP400	Type K High Temperature Clamp Probe (-4 to 450°F)
TP870	Type K Bead wire Probe (-40 to 482°F)
TP882	Type K Penetration Probe (-50 to 1000°F)
872502	Type J Bead Wire Probe (-328 to 392°F)
801515	Type J, 4" (100mm) General Purpose Temperature Probe (-328 to 842°F)
850185	RTD Temperature Probe for SDL200 (86 to 482°F)
409997	Soft Vinyl Pouch Carrying Case (for 421502, 421509)
UA100-240	100-240V AC Adaptor with 4 plugs (US, EU, UK, AU)

See p. 40, 41, and 74 for details and additional temperature probes.



See desktop or Pocket style Temperature Indicators on p. 65



421502 Type J/K, Dual Input Thermometer with Alarms

Dual J or K input with dual display, relative and programmable High/Low audible alarms

- Widest range with highest 0.05% accuracy
- Rugged design for field use
- Large dual LCD displays T1, T2 or T1-T2, plus Elapsed Time
- Differential temperature between Type J, Type K, or both Type J and K
- MIN/MAX/AVG readings
- Data Hold and Relative functions
- Programmable Hi/Lo audible alarms
- Complete with two general purpose Type K bead wire temperature probes, protective holster with stand, and 9V battery
- Seven Thermocouple type selections: K, J, T, E, R, S, N
- Large backlit LCD with two secondary displays for simultaneous T1, T2, T1-T2, Time and advanced readouts
- T/C offset adjustment
- REC, MAX, MIN, MAX-MIN, AVG and °C/F switchable
- Data Hold and Relative function
- Bi-directional RS-232 PC interface
- Programmable Hi/Lo alarm with Real time clock with calendar
- Auto power off with disable feature
- Complete with two general purpose Type-K bead wire temperature probes, Windows® 95/98/ME/NT/2000/XP compatible software, RS-232 cable, protective holster, and 9V battery



421509 7 Thermocouple Datalogger with Alarm

Memory stores up to 16 data sets, 1024 maximum data capacity

- Seven Thermocouple type selections: K, J, T, E, R, S, N
- Large backlit LCD with two secondary displays for simultaneous T1, T2, T1-T2, Time and advanced readouts
- T/C offset adjustment
- REC, MAX, MIN, MAX-MIN, AVG and °C/F switchable
- Data Hold and Relative function
- Bi-directional RS-232 PC interface
- Programmable Hi/Lo alarm with Real time clock with calendar
- Auto power off with disable feature
- Complete with two general purpose Type-K bead wire temperature probes, Windows® 95/98/ME/NT/2000/XP compatible software, RS-232 cable, protective holster, and 9V battery

SPECIFICATIONS	421502	421509
Number of Inputs	Dual	Dual
Type K °F (°C)	-328 to 2498°F (-200 to 1370°C)	-328 to 2501°F (-200 to 1372°C)
Type J °F (°C)	-328 to 1922°F (-200 to 1050°C)	-346 to 2192°F (-210 to 1200°C)
Basic Accuracy	±0.05% rdg	±0.05% rdg
Max. Resolution	0.2°F/0.1°C	0.1°
Datalogging	—	—
PC Interface	—	—
CE approved	Yes	Yes
Dimensions/Weight	7.63x3.6x2.1" (192x91x53mm)/13oz (365g)	7.5x3.6x2.0" (192x91x53mm)/12.8oz (365g)
Warranty	1 year	1 year



Indicates products that are available with optional calibration traceable to NIST. See page 156 for a complete listing.



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, 2G SD card, Universal AC Adaptor, (3) Type-K bead temperature probes, and mounting bracket



SDL200 4-Channel Datalogging Thermometer

4-Channel datalogging with 6 Thermocouple types (J, K, E, T, R,S) and 2-Channel datalogging with Pt100Ω probes

- Displays [T1, T2, T3, T4] or [T1-T2]
- Datalogs up to 20M records using a 2G SD card
- 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
- Built-in RS-232 interface
- Includes 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)



NEW

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 20M readings via 2G SD card
- 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

SD200 N

Triple	Quad	Twelve	Number of Inputs
-58 to 2372°F (-100 to 1300°C)	-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)
±(0.5% + 1°F/ 0.5°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°	0.1°/1°	0.1°/1°	Resolution
20M readings using 2G SD memory card	20M readings using 2G SD memory card	20M data records using a 2G SD card	Datalogging
Optional 407001 Software (see p. 106)	Optional 407001 Software (see p. 106)		PC Interface
Yes	Yes	Yes	CE approved
5.2x 3.1x1.3" (132x80x32mm)/10oz (285g)	7.2x2.9x1.9" (182X73X48mm)/ 17.6oz (500g)	8.9x4.9x2.5" (225x125x64mm)/ 2.1lbs (944g)	Dimensions
1 year	3 years	1 year	Warranty

SDL200 N

TM500 N

SPECIFICATIONS

RHT50 Humidity/Temperature/Pressure Datalogger



CE



Monitors Humidity, Temperature and Air Pressure levels in clean rooms, warehouses, storage rooms, freezers, shipping vans, and water damage restoration. USB connector easily plugs into a computer for data analysis

Records up to 10,000 readings of Humidity, Temperature and Pressure

- USB interface for easy set-up and data download
- Selectable data sampling rate from 1 minute to 18 hours
- User-programmable Min/Max alarm thresholds
- Manual and Programmable start modes
- Status Indication via Red/Yellow LED and Green LED
- Includes 3.6V Lithium battery, mounting bracket, and Windows® compatible analysis software; 1yr warranty

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY
Temperature	-40 to 158°F (-40 to 70°C)	0.1°F/°C	±1.8°F/ ±1.0°C
Humidity	0 to 100%RH	0.1%RH	±3.5%RH
Air Pressure	13.7 to 15.2psi, 950 to 1050hPa, 95 to 105kPa, 0.9 to 1.0bar	0.1	±0.25% FS
Datalogging interval	1 second to 18 hours		
Memory	10,000 points		
Dimensions/Weight	5.1x1.1x0.98" (130x30x25mm)/ 1oz (20g)		

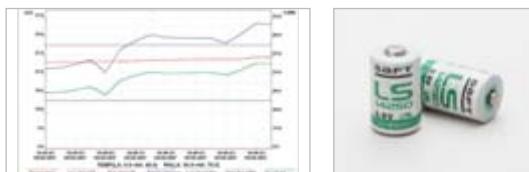
ORDERING

RHT50	Humidity/Temperature/Pressure Datalogger
42299	3.6V Lithium Battery (pk of 2)

RHT10/TH10 Humidity and Temperature USB Dataloggers



CE



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

42299 — Replacement long lasting Lithium batteries

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 via Windows® compatible software; Optional RHT10-SW software for RHT10 to calculate Grains Per Pound (grams per kilogram) to 1120GPP (160g/kg)
- 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°F/0.5°C
- 1yr battery life; Dimensions: 5.1x1.1x0.9" (130x30x25mm)/Wt: 1oz (20g)
- Includes 3.6V Lithium battery, protective USB cap, mounting bracket, and Windows® compatible software for analysis; 1yr warranty

ORDERING

RHT10	Humidity and Temperature USB Datalogger
RHT10-SW	GPP (g/kg) Software for RHT10
TH10	Temperature USB Datalogger
42299	3.6V Lithium Battery (pk of 2)

RHT20 Humidity and Temperature Datalogger



Monitors Humidity & Temperature levels in warehouse, storage rooms, freezers, shipping vans, and offices. USB connector easily plugs into a computer for data analysis.

CE

CALIBRATION TRACEABLE TO NIST

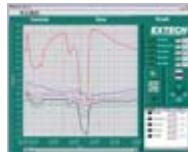
Datalogs 16,000 Humidity and 16,000 Temperature readings

- USB interface for easy setup and data download to a PC
- Dew point indication via Windows® compatible software (included)
- Selectable data sampling rate: 2 seconds 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" (94.4x48.9x31.2mm)/Wt: 3.2oz (90.7g)
- Complete with 3.6V Lithium battery, mounting bracket with combination lock, and Windows® compatible analysis software; 1 year warranty

ORDERING

RHT20	Humidity and Temperature Datalogger
-------	-------------------------------------

RH520A Humidity and Temperature Chart Recorder



CE

LabView based PC software included

Best value graphical datalogger in the market that's easy to set up & operate

- Simultaneous numerical & graphical display of Humidity (10.0 to 95.0%) and Temperature (-20.0 to 140.0°F / -28.0 to 60.0°C) readings, plus Time and Date
- Basic Accuracy: ±3% Relative Humidity; ±1.8°F (±1°C)
- Includes LabView™-based software calculates and graphs Dew Point, Wet Bulb, and GPP (grains per pound)
- Large dual graphical LCD displays with adjustable vertical and horizontal resolution
- Internal memory records up to 49,000 data points and can be transferred to a PC
- Audible and visual alarm with Hi/Low setpoints
- Output socket used with optional external alarm module
- Dimensions: 5x7.7x0.9" (129x195x22mm); Weight: 12.6oz (357g)
- Complete with built-in stand, detachable probe with 3ft (1m) cable, RS-232 cable, RS-232 to USB adaptor, LabView-based PC software, 100-240VAC 50/60Hz adaptor, and 3 AA batteries; 1 year warranty

ORDERING

RH520A	N	Humidity+Temperature Chart Recorder (110V adaptor)
RH520A-220	N	Humidity+Temperature Chart Recorder (220V adaptor)
RH520A-240	N	Humidity+Temperature Chart Recorder (240V adaptor)
RH522		Replaceable Humidity/Temperature Probe
SL123		AC Alarm Relay Module 9ft (3m) cable
SL124		DC Alarm Relay Module 9ft (3m) cable

42280 Humidity and Temperature Datalogger



CE

Records up to 16,000 readings with USB interface for downloading to a PC

- Programmable from keypad or PC, Selectable data sampling rate, and User programmable audible and visual alarms
- Measurement ranges: 0 to 100% RH and -4 to 144°F(-20 to 70°C); Resolution: 0.1%RH, 0.1°F/°C; Basic accuracy: ±3% RH, ±1°F /0.6°C
- Dimensions/Weight: 4.75x3.5x1.5" (120.7x88.9x38.1mm)/ 5.7oz (163g)
- Complete with Windows® compatible software, USB cable, 110V AC adaptor, and four AA batteries; 1 year warranty

ORDERING

42280		Temperature and Humidity Datalogger
RH300-CAL		33% and 75%RH Calibration Kit

42265/42275 Humidity and Temperature Datalogger Kits



42299 — Replacement long lasting Lithium batteries

CE

Kits Include Windows® XP, Win 7, and Win 8 compatible software and docking station
 42265 — includes one 42260 datalogger.
 42275 — includes one 42270 datalogger.

Compact, powerful and easy to use with USB interface

- 42265 Water proof (IP65) Temperature (-40 to 185°F / -40 to 85°C) Datalogger Kit records up to 8000 readings
- 42275 Water resistant Humidity (0 to 100% RH) and Temperature (-40 to 185°F / -40 to 85°C) Datalogger Kit records up to 16,000 readings (8,000 readings/parameter)
- Resolutions: 0.1%RH, 0.1°F/°C; Basic accuracy: ±3%RH, ±1°F (±0.6°C)
- Real time clock with date and time and Logs data for days, weeks or months
- Three start methods: Scheduled, immediate or magnetic
- Multiple Dataloggers (42260 or 42270) can be programmed and data downloaded from one single docking station
- Programmable sampling rate from 1sec to 2hrs plus Hi/Lo limits with alarm indication
- 42265 or 42275 — 4.9x3.8x2" (123.8x95.3x51mm); 9oz (254g)
- 1 year warranty

ORDERING

42275		Humidity/Temperature Datalogger Kit with PC Interface
42270		Humidity/Temperature Datalogger for 42275
42265		Temperature Datalogger Kit with PC Interface
42260		Temperature Datalogger for 42265
42299		Replacement 3.6V Lithium batteries (2pk)

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.



HD500 only

ACCESSORIES

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

RH350-CAL 33% and 75%RH Calibration Kit for RH350

TP890 Thermistor Temperature Probe for RH300

589250 RS-232 PC cable for RH350

USB100 RS-232 to USB Adaptor

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

SPECIFICATIONS

Sensor Type

RH300 **N** | RH305 **N**

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 ($\pm 3\%$ RH)

Mixing Ratio

-

Internal Temperature (Basic Accuracy)

 -4 to 122°F /-20 to 50°C ($\pm 1.8^{\circ}\text{F}/\pm 1^{\circ}\text{C}$)

External Temperature (Basic Accuracy)

Thermistor: -4 to 158°F/-20 to 70°C

IR Temperature (Basic Accuracy)

-

Emissivity

-

Field of View

-

PC Interface

-

Memory/Datalogging

-

CE Approved

Yes

Dimensions/Weight

7x1.9x1" (178.5x48.4x24.7mm)/ 3.3oz (95g)

Warranty

1 year

RH350 **N**

Capacitance

-90.4 to 122°F (-68.0 to 49.9°C)

-6.9 to 122°F (-21.6 to 49.9°C)

 0 to 100%RH ($\pm 3\%$ RH)

-

 -4 to 122°F/-20 to 50°C ($\pm 1.8^{\circ}\text{F}/\pm 1^{\circ}\text{C}$)

Type K: -328 to 2498°F/-200 to 1370°C

 ($\pm 0.3\%$ or $\pm 1^{\circ}\text{F}$ or $\pm 1^{\circ}\text{C}$)

Optional software & cable (589250)

99 readings

Yes

9x2.2x1.7" (230x57x44)/ 5.3oz (153g)

1 year

CALIBRATION TRACEABLE TO NIST



RH305 kit

RH300/RH305 Hygro- Thermometer 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
- Model RH300** includes 2 AAA batteries
- Model RH305** kit includes RH300, TP890 external temperature probe, RH300-CAL calibration bottles and carrying case
- 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



RH350 Dual Input Hygro- Thermometer 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
- RS232 interface – 407752 software available for download at www.extech.com and optional cable 589250 sold separately
- 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



NIST traceable certificate with data is available when you order your meter with Certificate Traceable to NIST. Look for this symbol **N** on products that offer NIST.



CALIBRATION TRACEABLE TO NIST



RH390/RH490 Precision Hygro- Thermometer 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 1120GPP (160g/kg)
- Complete with carrying case and 9V battery



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
- 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 9V battery



SDL500 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. 40, 41, and 74 for optional Type K and J Thermocouple probes

■ RH390 N | ▲ RH490 N

Capacitance	Capacitance
-22 to 199°F (-30 to 100°C)	-90.4 to 140°F (-68 to 60°C)
32 to 176°F (0 to 80°C)	-6.88 to 140°F (-21.6 to 60°C)
0 to 100%RH (±2%RH)	0 to 100% (±2%RH)
■ No ▲ 0 to 1120 GPP (grains per pound); 0 to 160 g/kg (grams per kilogram)	—
-22 to 199°F/-30 to 100°C (±1.8°F/1°C)	-14 to 140°F/-10 to 60°C (±4°F/±2°C)
—	Type K: -148 to 2501°F/-100 to 1372°C (±3%)

HD500 N

Capacitance	Capacitance
-90.4 to 140°F (-68 to 60°C)	-13.5 to 120.1°F (-25.3 to 48.9°C)
-6.88 to 140°F (-21.6 to 60°C)	-6.9 to 122°F (-21.6 to 50°C)
0 to 100% (±2%RH)	5% to 95% (±3%RH)
—	—
-14 to 140°F/-10 to 60°C (±4°F/±2°C)	32 to 122°F/0 to 50°C (±1.8°F/±1°C)
Type K: -148 to 2501°F/-100 to 1372°C (±3%)	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)

SDL500 N

Capacitance	Capacitance
-13.5 to 120.1°F (-25.3 to 48.9°C)	Dew Point
-6.9 to 122°F (-21.6 to 50°C)	Wet Bulb
5% to 95% (±3%RH)	Humidity (Basic Accuracy)
—	Mixing Ratio
32 to 122°F/0 to 50°C (±1.8°F/±1°C)	Internal Temperature (Basic Accuracy)
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)	External Temperature (Basic Accuracy)
—	IR Temperature (Basic Accuracy)
—	Emissivity
—	Field of View
—	PC Interface
20M readings using 2G SD memory card	Memory/Datalogging
Yes	CE approved
7.8x1.7x1.3" (200x45x33mm)/7oz (200g)	Dimensions/Weight
1 year	Warranty

SPECIFICATIONS

Improve Indoor Air Quality with Extech

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.



ACCESSORIES

RH300-CAL 33% & 75% RH Calibration Kit for 445580

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



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-C)
- Complete with meter, pocket clip and 3V 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" (1m) coiled cable measures both humidity and ambient temperature
- Over-range indication
- Complete with built-in stand, holster, Humidity/ Temperature probe, 9V battery, and carrying case

SPECIFICATIONS	445580	RH101
Sensor Type	Capacitance	Capacitance
Humidity	10 to 90%	10 to 95%
Dew Point	—	—
Temperature (Air)	14 to 122°F (-10 to 50°C)	-4 to 140°F (-20 to 60°C)
Temperature (IR)	—	-58 to 932°F (-50 to 500°C)
Barometric Pressure	—	—
Basic Accuracy	±5%, ±1.5°	±3.5%RH; ±2% or ±4°F/2°C (IR); ±3°F/2°C (Air)
Max. Resolution	0.1%, 0.8°	0.1%, 0.1°
PC Interface	—	—
Datalogging	—	—
CE approved	Yes	Yes
Dimensions	5.7x1.2x1" (145x30x25mm)/ 2.3oz (65g)	5.9x2.95x1.57" (150x75x40mm)/ 7oz (200g)
Warranty	1 year	1 year



Indicates products that are available with optional calibration traceable to NIST. See page 156 for a complete listing.



EA20/EA25 **EasyView® Hygro-** **Thermometer and** **Datalogger**

Stores up to 99 or 15,000 readings

- Dual display of Relative Humidity, Temperature, Dew Point and Wet Bulb
- Data Hold, Relative, & MAX/MIN
- Programmable power off timer
- Complete with stand, holster, probe with 39" (1m) cable, 6 AAA batteries, and carrying case; Model EA25 includes Windows® compatible software and cable
- **Model EA20** - Stores up to 99 manual readings for display recall
- **Model EA25** - Stores up to 15,000 readings for PC download; Programmable Start/Stop datalogging time and sample rate of 1 to 86,000 seconds



SD500 Humidity/ Temperature 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, 2G SD card, Universal AC Adaptor, and mounting bracket



SD700 Humidity/ Temperature 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, 2G SD card, Universal AC Adaptor, and mounting bracket

■ EA20 ■ | ▲ EA25 ■

SD500

SD700

SPECIFICATIONS

Capacitance 10 to 95%	Capacitance 10 to 95%RH	Capacitance 10 to 90%RH	Sensor Type Humidity
-4 to 140°F (-20 to 60°C)	—	—	Dew Point
-4 to 140°F (-20 to 60°C)	32 to 122°F (0 to 50°C)	32 to 122°F (0 to 50°C)	Temperature (Air)
—	—	—	Temperature (IR)
—	—	10 to 1100hPa; 7.5 to 825mmHg; 0.29 to 32.48 inHg	Barometric Pressure
±3%RH, ±1.8°F (±1°C)	±4%RH, ±1.8°F (±0.8°C)	±4%RH, ±1.8°F (±0.8°C)	Basic Accuracy
0.1%, 0.1°	0.1%, 0.1°	0.1%, 0.1°, 0.1 hPa, 0.1mmHg, 0.01inHg	Max. Resolution
■ No ▲ Yes	Optional 407001 software (see p. 112)	Optional 407001 software (see p. 112)	PC Interface
99 readings / 15,000 readings	20M readings using 2G SD memory card	20M readings using 2G SD memory card	Datalogging
Yes	Yes	Yes	CE approved
6x2.8x1.4" (152x72x35mm)/ 8.3oz (235g)	5.2x3.1x1.3" (132x80x32mm)/ 9.9oz (282g)	5.2x3.1x1.3" (132x80x32mm)/ 9.9oz (282g)	Dimensions / Weight
1 year	1 year	1 year	Warranty

RH30/RHM15 Hygro-Thermometers



RH30 - alert users to conditions that can cause mold

CE

RHM15 - mini-sized housing is ideal for monitoring Humidity/ Temperature levels in musical instrument cases, humidors, computer server rooms, labs, office areas, and wine cellars

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 (and Dew Point for RH30)
- Basic Accuracy: $\pm 1.8^{\circ}\text{F}/1^{\circ}\text{C}$ and $\pm 5\%$ RH
- MAX/MIN with reset function
- **Model RH30** measures from 14 to 122°F/-10 to 50°C and 10 to 99% RH; Beeper sounds and bright LED flashes when humidity level exceeds user preset (50, 60, or 65 % RH); Dims: 3.7x3.7x0.9" (94x94x23mm); Wt: 4.8oz (136g); Complete with stand and 2 AA batteries
- **Model RHM15** measures from 14 to 140°F and 10 to 99% RH; Dims: 2x1.5x0.63" (51x38x16mm); Wt: 0.8oz (24g)
- Includes stand and 2 AA batteries (RH30) or LR44 battery (RHM15); 1 year warranty

ORDERING

RH30	Humidity Alert
RHM15	Mini Hygro-Thermometer Monitor (%RH and °F only)

445703/445715 Big Digit Hygro-Thermometers



445703

445715 with remote probe

CE

Optional NIST 445715-NISTL includes certificate of Traceability to NIST at 75%. For Certificate of Traceability to NIST at 2 points (33% and 75%), order 445715-NIST (see p. 156 for ordering information)

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 $\pm 1.8^{\circ}\text{F}/1^{\circ}\text{C}$ and $\pm 5\%$ RH basic accuracy
- **Model 445715** includes remote probe with 18" (457mm) cable and probe with $\pm 1.8^{\circ}\text{F}/1^{\circ}\text{C}$ and $\pm 4\%$ RH basic accuracy; probe clips on side of meter; certificate of calibration traceable to NIST available; Rear calibration adjustment pot
- Dims: 4.3x3.9x0.78" (109x99x20mm); Wt: 6oz (169g); 1 year warranty
- 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

CE

Optional NIST 445815-NISTL includes Certificate of Traceability to NIST at 75%. For Certificate of Traceability to NIST at 2 points (33% and 75%), order 445815-NIST (see p. 156 for ordering information)

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: $\pm 1.8^{\circ}\text{F}/1^{\circ}\text{C}$ and $\pm 4\%$ 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" (109x99x20mm); Wt: 6oz (169g); 1 year warranty
- 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" (457mm) cable and probe clip on side of meter and offers certificate of calibration traceable to NIST

ORDERING

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



WB200 Wet Bulb Hygro-Thermometer Datalogger



Combines traditional dry/wet bulb operation with modern electronic circuitry to provide accurate readings and trouble-free operation especially in dusty environments such as greenhouses and paint booths

- Audible and visual alarm alerts when temperature and humidity level is higher or lower than the user programmed High/Low set points
- LCD displays Wet Bulb, Dew Point, and Air Temperature readings (41°F to 122°F /5°C to 50°C) and % Relative Humidity (0.0 to 99.9%RH)
- Resolution: 0.1°F/°C and 0.1%RH; Basic accuracy: ±1°F/±0.6°C; ±3%RH
- Two thermistors provide fast and accurate readings
- Built-in fan provides fast response time
- Datalogger stores 100 records that can easily be Recalled on meter display
- Display update rate: 120 seconds
- User programmable datalogging sampling rate from 15 to 60 minutes in 5 minute increments
- Dual color LED indicator for datalogging (Green) and alarm (Red) modes
- Water and Dust resistant construction
- Maximum/Minimum function and Low battery indicator
- Dimensions: 2.8 x 3.1 x 7.0" (71 x 78 x 177mm); Weight: 8.0oz (250g)
- Complete with four AAA batteries and 100-240V Universal AC adaptor; 1yr warranty

ORDERING

WB200

Wet Bulb Hygro-Thermometer Datalogger

445702 Hygro-Thermometer Clock



Combines three displays for Time, Temperature, and Humidity

- Clock display 12/24 hour time
- MAX/MIN with "reset" function
- Simultaneous display of Time, Temperature (14 to 140°F/-10 to 60°C) and Humidity (10 to 85% RH)
- Max resolution: 0.1°, 1%
- Basic Accuracy: ±1.8°F/1°C and ±6%RH
- Temperature is °C/F switchable
- Programmable clock alarm
- Dimensions: 4.3x2.8x0.8" (109x71x20mm); Weight: 4oz (113g)
- 1 year warranty
- Complete with stand, wall mounting bracket, and one AAA battery

ORDERING

445702

Hygro-Thermometer Clock

44550 Humidity and Temperature Pen



Pocket size for quick and reliable measurements at any location

- Built-in sensors provide simultaneous readings of Relative Humidity (20 to 90%) and Temperature (14 to 122°F/-10 to 50°C) on dual LCD
- Max resolution: 1°, 1%
- Basic Accuracy: ±2°F/1°C and ±5%RH
- Temperature is °C/F switchable
- Max/Min memory functions for display of highest and lowest readings for both Temperature & Relative Humidity
- "Clear" function key to erase stored Max/Min readings to record new values
- Dimensions: 5.9x0.8x0.7" (150x20x18mm); Weight: 0.7oz (20g)
- 1 year warranty
- Complete with pocket clip and one LR44 button battery

ORDERING

44550

Humidity and Temperature Pen

Extech Redefines Heat Index Meters



Extech's meters monitor Heat Index during hot humid days to prevent heat stroke during outdoor activities, sporting events or, indoor workplace. Heat Index measures how hot it feels when Humidity is combined with temperature, air movement, and radiant heat. Wet Bulb Globe Temperature (WBGT) considers the effects of temperature, humidity, and direct or radiant sunlight.

ACCESSORIES

407752 Software and Cable for HT30



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" (1m) lanyard and one 3V CR2032 battery
- HW30-NISTL - Limited NIST available for time function only

SPECIFICATIONS	HW30 <small>N</small>
Heat Index	70 to 122°F (22 to 50°C)
Temperature	14 to 122°F (-10 to 50°C)
Humidity	1 to 99%
Dew Point	—
Wet Bulb	—
Wet Bulb Globe Temperature (WBGT)	—
Air Velocity	—
ft/min	—
m/s	—
km/h	—
mph	—
knots	—
Windchill	—
Timing capacity	9hrs, 59mins, and 59secs
Basic Accuracy	±5 seconds/day, ±5% RH, ±3°F (1.5°C)
CE approved	Yes
Dimensions/Weight	7.6x0.8x1.8" (192x30x45mm)/ 3.8oz (108g)
Warranty	1 year



NEW



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

NEW



AN25 Heat Index Anemometer

Convenient pen style Anemometer monitors Airflow and Heat Index during hot humid days

- Built-in multiparameter sensors measure Air Velocity, Heat Index, WBGT, Humidity, Ambient Temperature, Dew Point, Wet Bulb, Temperature, and Windchill
- Mini low friction vane measures air velocity
- 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 (5sec/10sec/13sec)
- 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 WBGT value with or without direct sun exposure
- Auto power off with override
- Built-in RS-232 interface with optional PC software (407752)
- Complete with two AAA batteries

RH25	AN25	HT30
-50.8 to 401°F (-46 to 205°C)	-31 to 401°F (-35 to 205°C)	—
-4 to 122°F (-20 to 50°C)	5 to 122°F (-15 to 50°C)	32 to 176°F (0 to 80°C) - Black Globe
0 to 99.9%RH	5.0 to 95.0%RH	0 to 100% RH
-108.4 to 122°F (-78 to 50°C)	-103 to 122°F (-75 to 50°C)	—
5 to 122°F (-15 to 50°C)	5 to 122°F (-15 to 50°C)	—
-20.2 to 130°F (-29 to 54.5°C)	-20.2 to 130°F (-29 to 54.5°C)	32 to 122°F (0 to 50°C)
—	80 to 4920ft/min	—
—	0.4 to 25m/s	—
—	1.4 to 90.0km/h	—
—	0.9 to 55.9mph	—
—	0.8 to 48.6 knots	—
—	5 to 122°F (-15 to 50°C)	—
—	—	—
±3%RH, ±1°F/0.6°C	±3%RH, ±2°F/1°C, ±3%FS	±3%RH, ±1.8°F/1.0°C (TA), ±4°F/2°C (TG)
Yes	Yes	Yes
5.5x1.4x0.7" (140x35x18mm)/ 1.8oz (50g)	6x1.6x0.7" (152x40x18mm) / 2.1oz (60g)	10x1.9x1.1" (254x49x30mm)/4.8oz (136g) Ball: 1.6" (40mm) dia, 1.4" (35mm) high
1 year	1 year	1 year

Find Moisture Problems Fast

Extech offers moisture meters for a variety of industries. For wood and building trades, professionals use Extech pin and pin-less meters. For accurate soil testing as well as agricultural crop testing, trust Extech for specialized moisture meters.



ACCESSORIES

MO200-PINS	Replacement pins for MO210 (50 pins)
MO220-PINS	Replacement pins for MO220 (50 pins)
MO750-P	Replacement Moisture Probe for MO750
UA100-240	100-240V AC Adaptor with 4 plugs (US, EU, UK, AU)



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



MO220 Wood Moisture Detector

Specifically designed for monitoring moisture in wood

- Memory contains 8 wood groups with calibrations for approximately 170 species of wood
- Measurements can be taken using the integral pin electrodes or a heavy duty remote probe (included)
- Automatically temperature compensated (ATC) readings when used with the temperature probe (included)
- Built-in calibration check
- Replaceable measurement electrode pins
- User adjustable Auto power off (1 to 9 minutes) with disable
- Low battery indication
- Includes remote moisture probe, Temperature probe, protective cap, replacement pins, pouch case, and 2 AA batteries

SPECIFICATIONS	MO210	MO220
Sensor Type	Contact Pins	Contact Pins
Moisture Content	6 to 44% (Wood); 0.2 to 2.0% (Materials)	6 to 44% (Wood)
Humidity Content	—	—
Max. Resolution	1% (Wood) / 0.1% (Materials)	±1% (Wood)
Temperature (Air)	—	-31 to 176°F (-35 to 80°C)
Temperature (Type K)	—	—
Dew Point	—	—
PC Interface	—	—
Datalogging	—	—
CE approved	Yes	Yes
Dimensions	5.1x1.6x1.0" (130x40x25mm)	7x1.9x1.2" (180x50x31mm)
Weight	3.5oz (100g)	6.1oz (175g)
Warranty	1 year	1 year



N Indicates products that are available with optional calibration traceable to **NIST**. See page 156 for a complete listing.



MO257 Pinless Moisture Meter

Fast response pinless moisture readings on tiles, building materials and wood from depth of 0.78" to 1.6"

- Relative pinless moisture reading for non-invasive measurement
- Multifunction backlit triple LCD display
- Pinless measurement depth from 0.78" (20mm) to 1.6" (40mm) 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 case



M0750 Soil Moisture Meter

Integrated 8" (20cm) Heavy Duty Moisture Probe monitors the moisture level in soil

- Soil moisture content measurement from 0 to 50%
- Easy one-hand operation
- Min/Max records minimum and maximum moisture readings
- Data hold to freeze reading on display
- Water resistant housing
- Replaceable Heavy Duty Moisture Probe (M0750-P)
- Complete with moisture probe, 4 x AAA batteries and sensor cap



Includes SD memory card

SDL550 Humidity Content Meter

23.7" (600mm) Heavy Duty Stainless Steel Probe measures Humidity in Grain, Corn, Rice, Cotton, Paper, and other materials

- Measures Humidity Content, Air Temperature, Dew Point and Type J/K Temperature
- Humidity content: 10 to 95%
- 1sec to 3600sec sampling rate (approx.)
- Date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC
- Dual display simultaneously displays Humidity Content and Temperature
- Min/Max and Data hold
- Auto power off with disable
- Complete with Humidity Content Probe with 4.9ft (1.5m) cable, sensor cap, SD card and 6 AA batteries; Optional AC Adaptor UA100-240, also see p. 40, 41, & 74 for optional Type K and J Thermocouple probes)

M0257

Pinless	Integrated Contact Probe	Stainless Steel	Sensor Type
0.0 to 100.0	0 to 50%	—	Moisture Content
—	—	10 to 95%RH	Humidity Content
0.1	0.1%	0.1%	Max. Resolution
—	—	32 to 122°F (0.50°C)	Temperature (Air)
—	—	Type J: -148 to 2192°F (-100 to 1200°C) Type K: -148 to 2372°F (-100 to 1300°C)	Temperature (Type J/K)
—	—	-13.5 to 120.1°F (-25.3 to 49.9°C)	Dew Point
—	—	Optional 407001 software (see p. 112)	PC Interface
—	—	20M readings using 2G SD memory card	Datalogging
Yes	Yes	Yes	CE approved
9.25x2.5x1.1" (235x63x28mm)	14.7x1.6x1.6" (374x40x40mm)	Meter: 7.2x2.9x1.9" (182X73X48mm) Probe: 23.7" (600mm) x 0.4" (10mm) dia	Dimensions
7.7oz (218g)	9.4oz (267g)	Meter: 23.1oz (655g); Probe: 16.3oz (461g)	Weight
1 year	1 year	3 years	Warranty

M0750

Pinless	Integrated Contact Probe	Stainless Steel	Sensor Type
0.0 to 100.0	0 to 50%	—	Moisture Content
—	—	10 to 95%RH	Humidity Content
0.1	0.1%	0.1%	Max. Resolution
—	—	32 to 122°F (0.50°C)	Temperature (Air)
—	—	Type J: -148 to 2192°F (-100 to 1200°C) Type K: -148 to 2372°F (-100 to 1300°C)	Temperature (Type J/K)
—	—	-13.5 to 120.1°F (-25.3 to 49.9°C)	Dew Point
—	—	Optional 407001 software (see p. 112)	PC Interface
—	—	20M readings using 2G SD memory card	Datalogging
Yes	Yes	Yes	CE approved
9.25x2.5x1.1" (235x63x28mm)	14.7x1.6x1.6" (374x40x40mm)	Meter: 7.2x2.9x1.9" (182X73X48mm) Probe: 23.7" (600mm) x 0.4" (10mm) dia	Dimensions
7.7oz (218g)	9.4oz (267g)	Meter: 23.1oz (655g); Probe: 16.3oz (461g)	Weight
1 year	1 year	3 years	Warranty

SDL550 N

Pinless	Integrated Contact Probe	Stainless Steel	Sensor Type
0.0 to 100.0	0 to 50%	—	Moisture Content
—	—	10 to 95%RH	Humidity Content
0.1	0.1%	0.1%	Max. Resolution
—	—	32 to 122°F (0.50°C)	Temperature (Air)
—	—	Type J: -148 to 2192°F (-100 to 1200°C) Type K: -148 to 2372°F (-100 to 1300°C)	Temperature (Type J/K)
—	—	-13.5 to 120.1°F (-25.3 to 49.9°C)	Dew Point
—	—	Optional 407001 software (see p. 112)	PC Interface
—	—	20M readings using 2G SD memory card	Datalogging
Yes	Yes	Yes	CE approved
9.25x2.5x1.1" (235x63x28mm)	14.7x1.6x1.6" (374x40x40mm)	Meter: 7.2x2.9x1.9" (182X73X48mm) Probe: 23.7" (600mm) x 0.4" (10mm) dia	Dimensions
7.7oz (218g)	9.4oz (267g)	Meter: 23.1oz (655g); Probe: 16.3oz (461g)	Weight
1 year	1 year	3 years	Warranty

Measure Moisture And Much More

Extech's advanced moisture meters offer much more than moisture readings: Non-invasive, pin-less technology protects work surfaces. Environmental readings (RH, air and surface temperatures, dew point, GPP, vapor pressure, condensation levels) add extensive insight without extra meters. Remote specialty probes expand versatility. And available MeterLink™ technology transmits readings wirelessly to a FLIR infrared camera for accelerated diagnostics.



www.extech.com/video

MO260/MO265 and MO290/
MO295 only.



ACCESSORIES

MO-P1	Replacement Moisture pin probe with 30" (76.2cm) cable & RJ45 Connector (for MO265 & MO270)
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MO200-PINS	50 Replacement pins
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UA100-240	100-240V AC Adaptor with 4 plugs (US, EU, UK, AU)
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Specialty Probes for MO290, MO295, & MO300 (see p. 92)

MO290-P	Replacement Moisture pin probe with 30" (76.2cm) cable & RJ45 Connector
---------	---

MO290-EP	Extension Probe with 30" (76.2cm) cable and RJ45 connector. Includes 4 pins
----------	---

MO290-HP	Hammer Probe with 30" (76.2cm) cable & RJ45 connector. Includes 4 pins (1.6"/4cm pin depth)
----------	---

MO290-BP	Moisture Baseboard Probe (Dual fixed flat pins, 4.1"/10.5cm pin length), 30" (76.2cm) cable & RJ45 connector
----------	--

Telescoping Handles for MO265 & MO270 (see p. 93)

EXT-1	4ft (1.2m) Telescoping Handle
-------	-------------------------------

EXT-3	9.8ft (3m) Telescoping Handle
-------	-------------------------------

EXT-5	16.4ft (5m) Telescoping Handle
-------	--------------------------------



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 0.75" (19mm) below the surface
- Automatic internal test and calibration
- Electro-magnetic testing technology
- Low battery indication
- Complete with 9V battery and case



Optional 1m (EXT-1), 3m (EXT-3), or 5m (EXT-5) telescoping handle for MO265

SPECIFICATIONS

	MO280
Pinless Moisture	0 to 99% (limited by wood type)
Pin-type Moisture (remote probe)	—
Relative Humidity	—
Temperature (Air)	—
Temperature (IR)	—
Max Resolution	0.1%
Memory	—
CE approved	Yes
Dimensions/Weight	7.6x0.8x1.8" (192x30x45mm)/ 3.8oz (108g)
Warranty	1 year





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" (22mm) 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 9V battery, replacement pins (MO200-PINS), protective cap, and case



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" (22mm) below the surface
- Electro-magnetic sensing technology
- Built-in calibration check
- Low battery indication
- Storage cap protects pins
- Optional Telescoping Handle extends to 4ft (1.2m), 9.8ft (3m), or 16.4ft (5m) for easy reach (see p. 93)
- Complete with 9V battery, replacement pins (MO200-PINS), protective cap, remote pin probe (MO-P1) and case



MO290/MO295 Pinless Moisture Meters + IR Thermometer

Multi-parameter Moisture meters with built-in IR Thermometer

- Pinless measurement depth to 0.75" (19mm) below the surface
- Remote Pin probe measures moisture in hard to reach areas
- IR thermometer measures non-contact surface temperature; 8:1 distance to spot ratio with 0.95 fixed emissivity
- Programmable high/low Moisture and Humidity alarms
- Calculation of differential Temperature (IR - DP) to determine condensation point
- Min/Max, Data Hold, Auto power off and low battery indication
- Complete with remote pin moisture probe (MO290-P), 9V battery, and case; Optional Universal AC adaptor UA100-240. (See p. 92 for specialty moisture probes)

Model MO295 Additional Features

- Memory stores 20 readings
- Displays trending bargraph of moisture levels

See p. 92 for Moisture Meter with Bluetooth® feature compatible with Android devices

MO260

0 to 99 (relative)	0 to 99 (relative)	0 to 99.9 (Relative)
6.0 to 94.8% WME	6.0 to 94.8% WME	0 to 99.9%
—	—	0 to 99.9% RH
—	—	-20 to 170°F (-29 to 77°C)
—	—	-4 to 392°F (-20 to 200°C)
0.1/0.1%	0.1/0.1%	0.1%, 0.1°F/°C
—	—	■ No ▲ 20 readings
Yes	Yes	Yes
8x2.3x1.7" (203x58.4x43.2mm)/ 7.2oz (204g)	8x2.3x1.7" (203x58.4x43.2mm)/ 7.2oz (204g)	6.5x2.8x1.5" (165x70x38mm)/ 7.4oz (210g)
1 year	1 year	1 year

MO265

0 to 99 (relative)	0 to 99 (relative)	0 to 99.9 (Relative)
6.0 to 94.8% WME	6.0 to 94.8% WME	0 to 99.9%
—	—	0 to 99.9% RH
—	—	-20 to 170°F (-29 to 77°C)
—	—	-4 to 392°F (-20 to 200°C)
0.1/0.1%	0.1/0.1%	0.1%, 0.1°F/°C
—	—	■ No ▲ 20 readings
Yes	Yes	Yes
8x2.3x1.7" (203x58.4x43.2mm)/ 7.2oz (204g)	8x2.3x1.7" (203x58.4x43.2mm)/ 7.2oz (204g)	6.5x2.8x1.5" (165x70x38mm)/ 7.4oz (210g)
1 year	1 year	1 year

■ MO290 ■ | ▲ MO295 ■

0 to 99.9 (Relative)	0 to 99.9 (Relative)
0 to 99.9%	0 to 99.9%
0 to 99.9% RH	0 to 99.9% RH
-20 to 170°F (-29 to 77°C)	-20 to 170°F (-29 to 77°C)
-4 to 392°F (-20 to 200°C)	-4 to 392°F (-20 to 200°C)
0.1%, 0.1°F/°C	0.1%, 0.1°F/°C
■ No ▲ 20 readings	■ No ▲ 20 readings
Yes	Yes
6.5x2.8x1.5" (165x70x38mm)/ 7.4oz (210g)	6.5x2.8x1.5" (165x70x38mm)/ 7.4oz (210g)
1 year	1 year

MO300 Moisture Hygro-Thermometer for Android™



Transmit readings to user's Android smartphones & tablets. Download the Extech MO300 ExView™ App at play.google.com.



Measure moisture with non-invasive pinless technology or with remote pin probe and non-contact surface temperature with built-in IR Thermometer

View key environmental readings taken by the MO300 remotely on your Android device and datalog using the free Extech Android app.

- Integrated Bluetooth® connects with user's own Android devices to transmit readings for remote viewing
- Works with free Android App to display large, easy-to-read values for: Moisture, Humidity, Temperature, Grains Per Pound (GPP)/(g/kg), Dew Point, Vapor Pressure, and condensation point, up to 30' (10m) away
- Quickly indicates the moisture content of multiple wood types and other building materials with Pinless technology without damaging the surface; Remote Pin-type probe allows for contact moisture readings
- Manually store/recall up to 20 labeled readings or datalog up to 50K readings using the Android app
- Easy to read, large dual display with automatic backlight feature and Fast Analog Bargraph
- Pinless moisture measurement depth to 0.75" (19mm) below the surface
- Programmable high/low Moisture/Humidity alarms
- Designed with an IR circuit to measure non-contact surface temperature
- Automatic calculation of differential Temperature (IR - DP) to determine condensation point
- Min/Max, Data Hold, and Auto power off
- Complete with pin moisture probe (MO290-P) with 3ft/0.9m cable, 9V battery and pouch case; 1 year warranty

SPECIFICATIONS

Pinless Moisture (Non-Penetrating)	0 to 99.9 (Relative); Depth up to 0.75" (19mm)
Pin-type Moisture (probe included)	0 to 99.9%
Max Resolution	0.1, 0.1°F/°C
Humidity	0 to 100%RH
Temperature (Air) / (InfraRed)	Air: -20 to 170°F (-29 to 77°C)/ IR: -4 to 392°F (-20 to 200°C)
Vapor Pressure	0 to 20.0kPa
Dew Point	-22 to 199°F (-30 to 100°C)
Mixing ratio	0 to 999GPP (0 to 160g/kg)
Field of View	8:1 Distance to Target ratio
Emissivity	0.95 fixed
Dimensions/Weight	6.5x2.8x1.5" (165x70x38)/7.4oz (210g)

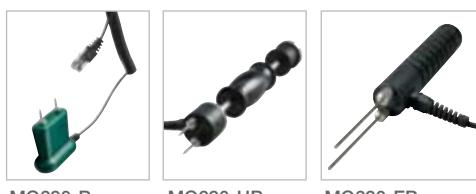
ORDERING

MO300  Moisture Hygro-Thermometer for Android™

See below for specialty Moisture Probes

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Moisture Probes and Pins



MO290-P

MO290-HP

MO290-EP



MO290-EXT

MO290-BP

Penetrating Moisture Probes for use with select Extech Moisture Meters

- Specialty Moisture probes with RJ45 connector compatible with Extech Moisture Meters MO290, MO295, and MO300

ORDERING (Below Probes for MO290, MO295, and MO300)

MO290-P	Replacement Moisture pin probe with 30" (76.2cm) cable & RJ45 Connector
MO290-BP	Moisture Baseboard Probe (Dual fixed flat pins with 4.1"/10.5cm pin length) with 30" cable
MO290-EP	Extension Probe with 30" (76.2cm) cable and 4 pins
MO290-PINS-EP	12 Replacement pins (6) 3.5"/8.9cm & (6) 6.5"/16.5cm pin depth) and 2 lock nuts for MO290-EP probe
MO290-EXT	11.8" (30cm) Extenders (set of 2) for MO290-EP probe
MO290-HP	Hammer Probe for Model MO290/295 Moisture Meter includes 4 pins (1.6"/4cm pin depth)
MO290-PINS-HP	20 Replacement pins (1.6"/4cm pin depth), 2 lock nuts for MO290-HP probe

M0270 Wireless Pin/Pinless Moisture Meter with BlueTooth®

Detachable pin/pinless sensors transmit data to the display that can be viewed from a remote location up to 65ft (20m)

- Full color graphical display
- Detachable sensors transmit data to the display that can be viewed from a remote location up to 65ft (20m) from the measurement point
- Connect to multiple sensors on individual channel
- Trending Mode allows for recording and datalogging while showing graphical representation of live reading for fast scanning of large areas
- Wireless sensor affixes to telescoping handle (4ft/1.2m) for measurements in ceilings or in hard to reach areas; Optional 9.8ft (3m) and 16.4ft (5m) handles available
- %WME (wood moisture equivalent) pin moisture reading
- Visual and audible High/Low alarm modes
- Pinless measurement depth to 0.75" (22mm) below the surface
- 2 point calibration check built into protective cap
- Cap protects pins during storage and snaps on to the side when in use
- Complete with 3.7V rechargeable Li-Polymer battery, wireless moisture sensor, external pin probe, replacement pins, telescoping handle (4ft/1.2m), AC adaptor, protective cap, 2G SD card, and hard case; 1 year warranty



CE FC

Watch the
Video
www.extech.com/video



MO-P1



Wireless sensor affixes to telescoping handle

SPECIFICATIONS

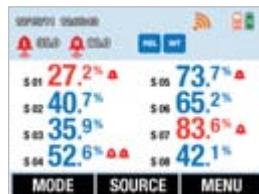
Pinless Range/ Depth	0 to 99.9 (relative)/ 0.75" (22mm)
Pin Range	6.0 to 99.9%
Transmission Frequency	2.4GHz (pin/pinless sensor to display)
Transmission Range	65ft (20m) unobstructed view
Dimensions/ Weight	8x2.3x1.7" (203x58.4x43.2mm)/ 7.2oz (204g)

ORDERING

MO270	Combination Pin/Pinless Moisture Meter and wireless sensor
MO270-X	Optional Wireless Moisture Sensor
EXT-1	4ft (1.2m) Telescoping Handle
EXT-3	9.8ft (3m) Telescoping Handle
EXT-5	16.4ft (5m) Telescoping Handle
MO200-PINS	50 Replacement Pins
MO-P1	Moisture pin probe



Trend Mode Display



Multi-Sensor Mode



Sensor Selection Menu



Optional 1m (EXT-1), 3m (EXT-3), or 5m (EXT-5) telescoping handle

MO290-RK Water Restoration Contractor Kit



Special
Value Kit

A complete solution for the Restoration Contractor

- Use combination moisture meter/thermal hygrometer to capture all ambient conditions as well as moisture levels in one meter. Includes essential probes to measure moisture levels under baseboards, in between walls, and in hard wood and plywood subfloors. Use USB Humidity/ Temperature datalogger for GPP calculations
- Kit includes: MO290, Pin Probe, Hammer Probe, Deep Wall Probe, and Baseboard Probe for contact moisture readings (see p. 90 for details)
- Supplied in a rugged hard carrying case
- **Model MO290** Pinless Moisture Psychrometer + IR Thermometer monitors moisture in wood and building materials with no surface damage. Built-in IR Thermometer for non-contact temperature; Fixed probe measures Air Temperature, RH, Grains Per Pound (GPP), Dew Point (DP), & Vapor Pressure (see p. 91)
- **Model RHT10/RHT10-SW** Humidity/Temperature USB Datalogger + GPP (g/kg) Calculation datalogs 16,000 data (RH and Temperature) USB interface and software included (see p. 78).

ORDERING

MO290-RK Water Restoration Contractor Kit

MO260-RK Restoration Kit



Special
Value Kit

Diagnose the amount of moisture content in buildings and measure accurate Humidity readings of ambient room conditions and GPP calculations

- Kit includes MO260 and RH490 meters and is supplied in a hard carrying case that provides protection and organization for the meters and accessories whenever they are needed
- **Model MO260** Combination Pin/Pinless Moisture Meter monitors moisture in wood and other building material with virtually no surface damage (see p. 91 for details)
- **Model RH490** Precision Hygro-Thermometer measures Temperature, Humidity, Dew Point, Wet Bulb, and Mixing Ratio in GPP (grains per pound/grains per kilogram) - (see p. 81 for details)

ORDERING

MO260-RK Restoration Kit

MO280-RK Restoration Contractor's Kit



Special
Value Kit

A complete solution for the Restoration Contractor

- Use pin and pinless meters to better diagnose the amount of moisture content. Thermal Hygrometer provides fast, accurate readings of ambient room conditions and GPP (g/kg) calculations
- Supplied in a rugged hard carrying case
- **Model MO280** Pinless Moisture Meter displays 0 to 99% moisture (select from 10 wood types). Measurement surface depth to 0.75" (22mm) with virtually no surface damage (see p. 90).
- **Model MO220** Wood Moisture Meter with integral pins or remote pin probe displays 6 to 99.9% moisture level (8 wood types with calibrations for approx. 170 species of wood) (see p. 88).
- **Model RH490** Precision Hygro-Thermometer with 2%RH accuracy and fast 30sec RH response time. Measures Humidity, Temperature, Dew Point, Wet Bulb, GPP and g/kg (see p. 81).
- **Model RHT10/RHT10-SW** Humidity/Temperature USB Datalogger + GPP (g/kg) Calculation datalogs 16,000 data (RH and Temperature). USB interface and software included (see p. 78).

ORDERING

MO280-RK Restoration Contractor's Kit

CALIBRATION
TRACEABLE TO
NIST

M0290-EK Environmental Test Kit



Special Value Kit

Specifically designed for Energy and Weatherization Auditors

- Helps monitor airflow, moisture levels, and provides inspection equipment to find energy loss in hard to see places
- Supplied in a rugged hard carrying case
- **Model MO290** Pinless Moisture Psychrometer + IR Thermometer monitors moisture in wood and building materials with no surface damage. Built-in IR Thermometer for non-contact temperature; Fixed probe measures Air Temperature, RH, Grains Per Pound (GPP), Dew Point (DP), & Vapor Pressure (see p. 91)
- **Model AN200** CFM/CMM Thermo-Anemometer + IR designed with large backlit LCD to display Airflow or Air velocity reading plus built-in IR Thermometer for non-contact temperature measurements (see p. 98)
- **Model CO250** Indoor Air Quality CO₂ Meter measures Carbon Dioxide, Temperature, Humidity, Dew Point and Wet Bulb and calculates statistical 8hr and 15 minute time weighted averages. RS-232 interface, data acquisition software and cable included to analyze data on your PC (see p. 106)
- **Model BR200** Video Borescope/Wireless Inspection Camera with 17mm camera and 39" (1m) waterproof (IP67) flexible gooseneck. Wireless 3.5" Color Monitor can be viewed from up to 32ft (10m) from the measurement point. MicroSD memory card included for storing images (JPEG) or video (AVI) to view on your PC (see p. 130)

ORDERING

MO290-EK	Environmental Kit
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M0280-KH Home Inspector Kits



Special Value Kit

Aids in identification of moisture, HVAC, electrical & hot water system issues

- Specifically designed for home inspection professionals
- Supplied in an attractive storage case
- Dims: 9.5x6.8x2.8" (241x173x71mm); Wt: 1.8lbs (0.7kg)
- **Model MO280** Pinless Moisture Meter displays 0 to 99% moisture (select from 10 wood types). Measurement surface depth to 0.75" with virtually no surface damage (see p. 90).
- **Model 42500** IR Thermometer for testing HVAC system. Measures from -4 to 500°F (-20 to 260°C) (see p. 68)
- **Model ET10** GFCI Receptacle Tester tests for faulty wiring in 3 wire receptacle and GFCI Circuits and detects 5 wiring faults (not included in M0280-KH2 kit)
- **Model 39240** Waterproof Stem Thermometer for testing hot water heaters. Measures temperature from -40 to 392°F (-40 to 200°C) (see p. 65)

ORDERING

MO280-KH	Home Inspector Kit
MO280-KH2	Home Inspector Kit (without ET10 Receptacle Tester)

M0280-KW Water Damage Restoration Kit



Special Value Kit

To monitor job site conditions, progress, and insurance company reporting

- Specifically designed for water damage restoration contractors
- Supplied in an attractive storage case
- Dims: 9.5x6.8x2.8" (241x173x71mm); Wt: 1.8lbs (0.7kg)
- **Model MO280** Pinless Moisture Meter displays 0 to 99% moisture (select from 10 wood types). Measurement surface depth to 0.75" (22mm) with virtually no surface damage (see p. 90).
- **Model RH490** Precision Hygro-Thermometer with 2%RH accuracy and fast 30sec RH response time. Measures Humidity, Temperature, Dew Point, Wet Bulb, GPP and g/kg (see p. 81).
- **Model MO210** Pocket Moisture Meter measures moisture of wood or other building materials displaying both digital and graphical readings (see p. 88).

ORDERING

MO280-KW	Water Damage Restoration Kit
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Go Beyond Airflow Measurements

Extech's compact multi-function environmental meters couple all-in-one versatility with accurate diagnostics. From solving HVAC problems to checking outdoor UV conditions, Extech helps you get results with fewer tools.



ACCESSORIES

45116	Mini Impeller (2pk) for 45118
45156	Mini Impeller (2pk) for 45158
EN100-TP	RTD Temperature probe 14 to 212°F/-10 to 100°C
EN100-V	Mini impeller (2 pk) for EN100 and EN150
TR100	Tripod
CA895	Small Vinyl Pouch Case for 45118, 45158
UA100-240	100-240V AC Adaptor w/ 4 plugs (US, EU, UK, AU)



Using optional tripod TR100



45118 45158

Mini Thermo-Anemometers

3-in-1 or 5-in 1 meters

- Replaceable low friction vane
- Measure air velocity, temperature, and windchill
- Adjustable averaging function of 5, 10, or 13 second intervals
- Housing extends to 9" (229mm)
- Tripod mount (optional TR100 Tripod — sold separately)
- Data Hold with Auto power off
- Water resistant housing floats
- Complete with CR2032 lithium battery and 43" (1.09m) lanyard

45158 Additional Features

- Measures %RH and Dew Point

NEW


AN25 Heat Index Anemometer

7-in-1 meter

- Heat Index measures how hot it feels when Humidity is combined with temperature, air movement, and radiant heat; Wet Bulb Globe Temperature (WBGT) considers the effects of temperature, humidity, and direct or radiant sunlight
- Min/Max/Average (5sec/10sec/13sec)
- Data Hold and Auto power off
- Low friction mini vane
- Complete with CR2032 battery

SPECIFICATIONS	■ 45118 ▲ 45158	AN25
ft/min (res.)	100 to 5500 (20)	80 to 4920 (1)
m/s (res.)	0.5 to 28 (0.1)	0.4 to 25 (0.1)
km/h (res.)	1.8 to 100.6 (0.7)	1.4 to 90.0 (0.1)
MPH (res.)	1.1 to 62.5 (0.2)	0.9 to 55.9 (0.1)
knots (res.)	1.0 to 54.3 (0.3)	0.8 to 48.6 (0.1)
Beaufort Force (res.)	1 to 17 (1)	—
Air Volume CFM/CMM	—	—
Temperature	0 to 122°F (0.1°), -18 to 50°C (0.1°)	5 to 122°F, -15 to 50°C (0.1°)
Relative Humidity (res.)	■ No ▲ 10% to 95% (1%)	5.0 to 95.0% (0.1%)
Heat Index	—	-31 to 401°F (-35 to 205°C)
Wet Bulb	—	5 to 122°F (-15 to 50°C)
Dew Point	■ No ▲ 32 to 122°F (0 to 50°C)	-103 to 122°F (-75 to 50°C)
Light Level	—	—
UV Level	—	—
Sound Level (res.) - A weighting	—	—
Basic Accuracy		
Airflow	±3% of reading	±3% FS
Temperature/Relative Humidity	■ ±1.8°F, ±1°C ▲ ±1.8°F, ±1°C/±5%RH	±2°F, ±1°C/ ±3%RH
Light/Sound	—	—
CE approved	Yes	Yes
Dimensions/Weight	5.25x2.75x0.75" (133x70x19mm)/ 3oz (95g)	6x1.6x0.7" (152x40x18mm) / 2.1oz (60g)
	Vane: 1" (26mm)D	Vane: 1" (25.4mm)D
Warranty	1 year	1 year



N Indicates products that are available with optional calibration traceable to NIST. See page 156 for a complete listing.



EN100 EN150

EN100/EN150 Environmental Meters with UV*

11-in-1 meters

- Replaceable low friction vane
- Barometric Pressure and Altitude functions
- Data Hold and Auto power off
- Complete with built-in sensors, wrist strap, and CR2032 battery. (Optional EN100-TP probe measures to 212°F/100°C)

EN100 Additional Features

- Measures light level with Auto-rotating display

*EN150 Additional Features

- Measures UV light level



Type K input

45170 Environmental Meter

4-in-1 meter

- Auto-rotating display
- Low friction vane wheel
- Capacitance humidity sensor
- Type K input (Probe sold separately - see p. 40, 41, & 74)
- Utilizes precision photo diode and correction filter
- MAX/MIN and Data hold
- Complete with wrist strap and 9V battery

Auto-rotating
display

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. 40, 41, & 74)
- Utilizes precision photo diode and 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 & software 407001

■ EN100 | ▲ EN150

45170

EN300

SPECIFICATIONS

80 to 3940 (1)	80 to 5910 (10)	80 to 5910 (1)	ft/min (res.)
0.4 to 20 (0.1)	0.4 to 30 (0.1)	0.4 to 30 (0.1)	m/s (res.)
1.4 to 72 (0.1)	1.4 to 108.0 (0.1)	1.4 to 108.0 (0.1)	km/h (res.)
0.9 to 45 (0.1)	0.9 to 67.0 (0.1)	0.9 to 67.0 (0.1)	MPH (res.)
0.8 to 38.8 (0.1)	0.8 to 58.3 (0.1)	0.8 to 58.3 (0.1)	knots (res.)
—	—	—	Beaufort Force (res.)
0.847 to 1,271,300CFM/0.024 to 36,000CMM	—	—	Air Volume (CFM/CMM)
32 to 122°F (0 to 50°C)/15 to 111°F (-9 to 44°C)	32 to 122°F (0.1°), 0 to 50°C (0.1°)	32 to 122°F (0.1°), 0 to 50°C (0.1°)	Temperature
10 to 95% (0.1%)	10 to 95% (0.1%)	10 to 95% (0.1%)	Relative Humidity (res.)
32 to 212°F (0 to 100°C)	—	—	Heat Index
22.3 to 120.2°F (-5.4 to 49.0°C)	—	—	Wet Bulb
-13.5 to 120.2°F (-25.3 to 49.0°C)	—	—	Dew Point
■ 0 to 1860Fc (0 to 20,000Lux) ▲ No	0 to 1860 (0.1Fc)/0 to 20,000 (1Lux)	0 to 1860 (0.1Fc)/ 0 to 20,000 (1Lux)	Light Level
■ No ▲ 0 to 1999µW/cm² (2 to 20mW/cm²)	—	—	UV Level
—	—	35 to 130dB (0.1dB)	Sound Level (res) - A weighting
±3% FS	±3% FS	±3% FS	Basic Accuracy
±2.5°F, ±1.2°C/±4%RH	±2.5°F, ±1.2°C/±4%RH	±2.5°F, ±1.2°C/±4%RH	Airflow/ Temperature/Relative Humidity
■ No ▲ Light: ±5% of reading	Light: ±5% of reading	Light: ±5% of reading/ Sound: ±1.4dB	Light/Sound
Yes	Yes	Yes	CE approved
6.1x2.4x1.3" (156x60x33mm)/ 5oz (160g)	6.1x2.4x1.3" (156x60x33mm)/ 5oz (160g)	6.1x2.4x1.3" (156x60x33mm)/ 5oz (160g)	Dimensions/Weight
Vane: 1.2" (30.5mm)D	Vane: 1.2" (30.5mm)D	Vane: 1.2" (30.5mm)D	
1 year	1 year	1 year	Warranty

Versatile and Durable Tools for HVAC/R

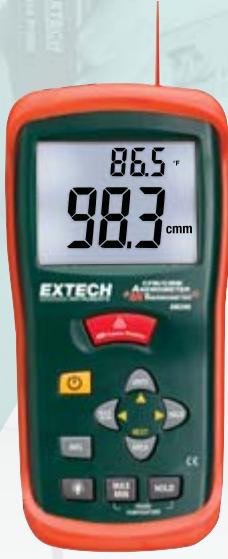
Extech equips HVAC/R professionals with rugged, accurate tools for measuring airflow, air velocity and air/surface temperatures. Extech's thermo-anemometers are available with vane/propeller probes as well as telescoping, hot-wire probes for small openings or hard-to-reach areas.



AN200/HD300 only.



NIST traceable certificate with data is available when you order your meter with Certificate Traceable to NIST. Look for this symbol **N** on products that offer NIST.



AN100/AN200 CFM/CMM Thermo- Anemometers

Large backlit display of Airflow or Air Velocity plus model with built-in InfraRed Thermometer

- Simultaneous display of Ambient Temperature and Air Flow or Air Velocity
- Up to 8 easy to set Area dimensions stored in internal memory (ft^2 or m^2)
- 20 point AVG for Air Flow
- Low friction 2.83"D (72mm) ball bearing vane wheel
- Data Hold, MIN/MAX, Auto off
- Complete with vane sensor on 3.9ft (120cm) cable, 9V battery, protective rubber holster, and case
- **Model AN200** also features built-in IR Thermometer



HD300 CFM/ CMM Thermo- Anemometer + IR Thermometer

Built-in IR Thermometer for quick troubleshooting of ceiling vents, duct work, and other remote surfaces

- IR Thermometer has 30:1 distance to target ratio and Laser pointer
- Simultaneous display of Air Flow in CFM/ CMM or Air Velocity Plus Ambient Temperature
- Up to 8 easy to set Area dimensions stored in memory
- Large backlit LCD
- Air Flow displayed in 2 modes as an instantaneous value or up to 20 point average
- USB port includes PC software
- Includes PC software, cable, vane sensor on 3.9ft (120cm) cable, built-in stand, case, and 9V battery

SPECIFICATIONS

■ AN100 **N** | ▲ AN200 **N**

HD300 **N**

Air Velocity (Max Res.)	80 to 5900 (1)	80 to 5900 (1)
ft/min	0.4 to 30.00 (0.01)	0.4 to 30.00 (0.01)
m/sec	1.4 to 108.0 (0.1)	1.4 to 108.0 (0.1)
km/h	0.9 to 67.0 (0.1)	0.9 to 67 (0.1)
MPH	0.8 to 58.0 (0.1)	0.8 to 58.0 (0.1)
knots		
Temperature (Max Res.)	14 to 140°F/-10 to 60°C (0.1°)	14 to 140°F/-10 to 60°C (0.1°)
Temperature (IR)	■ No ▲ -58 to 500°F/-50 to 500°C (0.1°/1°)	-58 to 932°F/-50 to 500°C (0.1°/1°)
Air Flow (CFM = ft^3/min)	■ 0 to 9999CFM (1) ▲ 0 to 999,999CFM (0.1)	0 to 999,900CFM (0.001)
Air Flow (CMM = m^3/min)	■ 0 to 9999CMM (1) ▲ 0 to 999,999CMM (0.1)	0 to 999,900CMM (0.001)
Basic Accuracy	±3%rdg; ±2°F (±1°C)	±3%rdg; ±4°F (2°C)
PC Interface	—	Yes
Datalogger	—	Directly to PC using software
CE approved	Yes	Yes
Dimensions/Weight	7x2.9x1.3" (178x74x33mm)/1.6lbs (700g)	8x3x1.9" (203x75x50mm)/12.2oz (350g)
Warranty	1 year	3 years



407113 High Temperature CFM Metal Vane Anemometer

Withstands temperatures to 175°F (80°C) and airspeed to 6890ft/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 - see details on p. 112
- Includes metal vane sensor with 3.9ft (120cm) cable, 9V battery, holster with stand, and hard case; Optional 117V (156119) or 220V (156221) AC adaptors (see p. 134 for ordering).



407119 Hot Wire CFM/CMM Anemometer

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

- Air velocity measurements as low as 40ft/min
- Telescoping probe extends up to 3ft (940mm) long
- Measures air volume in CFM (ft³/min) and CMM (m³/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 - see details on p. 112
- Complete with telescoping probe with 5.5ft (167.6cm) cable, and four AA batteries



AN500 Hot Wire CFM/ CMM Thermo-Anemometer

New sensor technology with ATC for accurate in-duct Air Velocity measurements with changing air temperatures

- Reads Air Velocity and Temperature on dual display
- Calculates CMM/CFM based on adjustable duct shape and size
- Slim sensor (8mm diameter) fits easily in 3/8" holes and Telescoping probe extends to 7ft (2.1m)
- Sensor cover for Zero Adjustment and storage
- Adjustable parameters for Altitude and GAIN
- Memory stores 36 readings
- Min/Max/Ave, Data hold and Auto Power off with disable
- Includes probe with cable, 100V-240V AC Universal Adaptor w/4 plugs, 6 x 1.5V AA batteries, and hard case

407113 N

407119 N

AN500 N

SPECIFICATIONS

			Air Velocity (Max Res.)
100 to 6890 (1)	40 to 3346 (1)	40 to 3940 (1)	ft/min
0.5 to 35 (0.1)	0.2 to 17 (0.1)	0.2 to 20 (0.01)	m/sec
1.8 to 126.0 (0.1)	0.7 to 61.2 (0.1)	0.7 to 75 (0.1)	km/h
1.1 to 78.3 (0.1)	0.9 to 38.0 (0.1)	0.5 to 45 (0.1)	MPH
1.0 to 68.0 (0.1)	0.4 to 33.0 (0.1)	0.4 to 40 (0.1)	knots
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 140°F (0.1°)/ 0 to 60°C (0.1°)	Temperature (°F/°C)
—	—	—	Temperature (IR)
0 to 999,900CFM (0.001)	0 to 999,900CFM (0.001)	0 to 999,999CFM (0.01)	Air Flow (CFM = ft ³ /min)
0 to 999,900CMM (0.001)	0 to 999,900CMM (0.001)	0 to 999,999CMM (0.01)	Air Flow (CMM = m ³ /min)
±2%rdg; ±1.5°F (±0.8°C)	±2%rdg; ±1.5°F (±0.8°C)	±3%rdg; ±2°F (±1°C)	Basic Accuracy
Optional 407001 Software (see p. 112)	Optional 407001 Software (see p. 112)	—	PC Interface
—	—	—	Datalogger
Yes	Yes	Yes	CE approved
7x2.9x1.3" (178x74x33mm)/1.35lbs (612g)	7x2.9x1.3" (178x74x32mm)/1.1lbs (482g)	7.1x2.8x1.3" (180x72x32mm)/12.5oz (355g)	Dimensions/Weight
3 years	3 years	1 year	Warranty

SDL300/SDL310/SDL350 Thermo-Anemometer/Dataloggers



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 an 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
- Complete with 6 x AA batteries, SD card, sensor with 3.9ft (120cm) cable, and hard carrying case; (See p. 40, 41, and 74 for optional Type K and J Thermocouple probes); 3 year warranty

SDL300 Vane Additional Functions

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

SDL310 Metal Vane Additional Functions

- 2% velocity accuracy via low friction ball bearing vane wheel on 39" (1m) cable
- Measures Air Temperature to 122°F (50°C) and air velocity to 4930ft/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 40ft/min
- Probe extends up to 7.05ft (215cm) maximum length with cable

SPECIFICATIONS	SDL300	SDL310	SDL350
ft/min	60 to 6900ft/min	80 to 4930ft/min	40 to 3940ft/min
m/sec	0.3 to 35m/s	0.4 to 25m/s	0.2 to 25m/s
km/h	1.0 to 126.0km/h	1.4 to 90.0km/h	0.7 to 72km/h
MPH	0.7 to 78.2MPH	0.9 to 55.9MPH	0.5 to 45MPH
knots	0.6 to 68knots	0.8 to 48.6knots	1 to 31knots
Air Flow (CFM = ft³/min)	—	—	0 to 1,907,000CFM
Air Flow (CMM = m³/min)	—	—	0 to 54,000CMM
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)		
PC Interface	Optional 407001 Software (see p. 112)		
Datalogging	20M readings using 2G SD memory card		
Dimensions/Weight	7.2x2.9x1.9" (182X73X48mm)/17.2oz (487g)		

ORDERING

SDL300 N	Metal Vane Thermo-Anemometer/Datalogger
SDL310 N	Vane Thermo-Anemometer/Datalogger
SDL350 N	Hot Wire CFM/CMM Thermo-Anemometer/Datalogger
UA100-240	100-240V AC Adaptor with 4 plugs (US, EU, UK, AU)



Vane Versus Hot Wire

HVAC and mechanical contractors often contact us to ask whether they should purchase a vane (propeller) or hot wire anemometer. 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/AN320 Large Vane CFM/CMM Thermo-Anemometers + CO₂***NEW**

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

- 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 measurements for these common duct sizes; Adaptor size: Round 8.26" (210mm) and Square 13.6" (346mm)
- Complete with four AAA batteries and hard case; 1 year warranty

AN310 Additional Functions:

- Measures Relative Humidity, Wet Bulb and Dew Point

***AN320 Additional Functions:**

- Measures Relative Humidity, Wet Bulb and Dew Point
- Carbon Dioxide (CO₂) measurement

SPECIFICATIONS	AN300	ANL310	AN320
m/s	0.2 to 30m/s	0.2 to 30m/s	0.2 to 30m/s
ft/min	40 to 5900ft/min	40 to 5900ft/min	40 to 5900ft/min
Basic Accuracy	±1.5%	±1.5%	±1.5%
CFM/CMM	0 to 99999	0 to 99999	0 to 99999
Temperature	-4 to 140°F (-20 to 60°C)	-4 to 140°F (-20 to 60°C)	-4 to 140°F (-20 to 60°C)
Basic Accuracy	± (0.6°C)	± (0.6°C)	± (0.6°C)
Humidity	—	0.1 to 99.9%RH	0.1 to 99.9%RH
Basic Accuracy	—	±3%RH	±3%RH
Wet Bulb	—	-4 to 140°F (-20 to 60°C)	-4 to 140°F (-20 to 60°C)
Dew Point	—	23 to 140°F (-5 to 60°C)	23 to 140°F (-5 to 60°C)
Carbon Dioxide (CO ₂)	—	—	0 to 9999ppm
Dimensions/ Weight	10.6x4.2x2" (269x106x51mm) / 7oz (200g)		

ORDERING

AN300 N	Large Vane CFM/CMM Thermo-Anemometer
AN310 N	Large Vane CFM/CMM Anemometer/Psychrometer
AN320 N	Large Vane CFM/CMM Anemometer /Psychrometer + CO ₂
AN300-C	Airflow Cone and Funnel Adapters

AN340 CMM/CFM Anemometer/ Psychrometer Datalogger**NEW**

Telescoping probe with 18mm diameter mini vane sensor easily fits into air vents and can extend length of probe to 3.3ft (1m) 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 12000 readings (2000 readings for each parameter) with 12/24 hour time and date stamp
- Select data sampling rate from 1s to 4hr: 59 min: 59s
- Min/Avg/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; 1 year warranty

SPECIFICATIONS

m/s	0.5 to 20m/s	±3%
ft/min	100 to 3940ft/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 99999	

ORDERING

AN340 N	Mini Vane CMM/CFM Anemometer/ Psychrometer Datalogger
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VPC300 Certified Video Particle Counter with built-in Camera

CE

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 (3GP) and photo images (JPEG) and records them in internal 74MB 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
- Meter is NIST calibrated
- Tripod mount for continuous recording
- Mini-USB port connection
- microSD card slot in battery compartment (memory card not included; max size 8GB)
- Complete with NIST-traceable calibration certificate, Universal AC Adapter/Charger with multiple plugs, USB cable, PC software, tripod, filter, 7.4V NiMH battery and hard case; 1 year warranty

SPECIFICATIONS

Particle Size Channels	0.3, 0.5, 1.0, 2.5, 5.0, 10µm
Flow Rate	0.1ft3 (2.83L/min) controlled by internal pump
Count Modes	Cumulative, Differential, Concentration
Counting Efficiency	50% @ 0.3µm; 100% for particles >0.45
Coincidence Loss	5% @ 2,000,000 particles per ft3
Air Temperature	-14 to 140°F (-25 to 60°C); Accuracy: ±2°F/1°C
Relative Humidity	0 to 100%RH; Accuracy: ±3%RH (40% to 60%RH)
Dew Point/ Wet Bulb	32 to 122°F (0 to 50°C)
Dimensions/Weight	9.4 x 3 x 2.2" (240 x 75 x 57mm)/1.26lbs (570g)

ORDERING

VPC300 Video Particle Counter



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

RD300 Refrigerant Leakage Detector


NEW

Ideal for detecting leakages from air-conditioning units and cooling systems that use all standard refrigerants

- Detects all standard refrigerants using a heated diode sensor
- LED light at probe tip (with on/off switch) for working in dimly lit areas
- LEDs display user-selectable High/Medium/Low levels with sensitivity of 0.25/0.50/0.99 oz per year
- Audible and Visual alert with mute button; Low battery indicator
- Field replaceable sensor (SD300-S) and LED light tip (RD300-L)
- Dimensions: 7.2x2.8x1.6" (184x70x40mm); Weight: 10oz (280g)
- Complete with sensor tip and LED light, leak test bottle, 9V battery, and hard case; 1yr warranty

ORDERING

RD300	Refrigerant Leakage Detector
RD300-S	Replacement Heated Diode Sensor Tip
RD300-L	Replacement LED Light Tip



EZ40 EzFlex™ Combustible Gas Detector



Quickly Identifies and Pinpoints gas leaks

- 16" (406mm) 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; 1 year warranty

SPECIFICATIONS

Pump driven field calibration range	10ppm
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	8.7 x 2.83 x 1.8" (221 x 72 x 46mm)/ 18.4oz (520g)

ORDERING

EZ40	ExFlex™ Combustible Gas Detector
------	----------------------------------

FG100 Combustible Gas Leak Detector



CE

Fast response detection of flammable gas leakage from 500 to 6500ppm

- Detects flammable gases: Liquefied Natural Gas (LNG) and Liquefied Propane Gas (LPG)
- 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: 6.5 x 0.8" (164mm x 21mm)/ 0.9oz (25g)
- Complete with pocket clip and two AAA batteries; 1 year warranty

ORDERING

FG100	Combustible Gas Leak Detector
-------	-------------------------------

FM300 Desktop Formaldehyde (CH_2O or HCHO) Monitor


NEW

	>0.8ppm CH ₂ O
	>0.08ppm, <0.80ppm CH ₂ O
	<0.08ppm CH ₂ O

Three facial icons indicating CH₂O concentration level for indoor air quality

CE

Measures Formaldehyde (CH_2O or HCHO) concentration, Air Temperature & Humidity with user settable audible alarm

- Simultaneously displays Formaldehyde concentration, Air Temperature, and Relative Humidity readings with date (Year, Month, Day) and time
- Visibly bright LED (green & red) and three facial icons indicate CH₂O warning levels
- Audible beeping alarm default at 0.08ppm (adjustable)
- Min/Max CH₂O value recall function
- Calculates statistical weighted averages of TWA (8-hour Time Weighted Average) and STEL (15-minute Short Term Exposure Limit)
- Internal memory for manually storing up to 99 readings with recall function
- Complete with Universal AC adapter (UA100-240) & multiple plug types; 1yr warranty

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Formaldehyde (HCHO & CH ₂ O)	0.00 to 5.00ppm	0.01ppm	±5%
Temperature	32 to 122°F (0 to 50°C)	0.1°F/°C	±2°F/1°C
Humidity	10 to 90%RH	0.1%RH	±5%RH
Dimensions/Wt	6.1 x 3.4 x 3.2" (155 x 87 x 81mm)/ 5.8oz (165g)		

ORDERING

FM300 Desktop Formaldehyde Monitor

C050 Desktop Carbon Monoxide (CO) Monitor


NEW
CE

Measures Carbon Monoxide (CO) concentration, Air Temperature & Humidity with extra loud beeping alarm (>85dB sound level at 3 meters away)

- Visibly bright LED (green & red) indicates indoor CO warning level
- Extra loud audible beeping alarm level meets UL2013 Standard (>85dB @ 3 meters); defaults alarm threshold at 30ppm CO level (user adjustable)
- Displays Date (Year, Month, Day) and time; Max function for CO readings
- Internal memory for manually storing up to 99 readings with easy recall function
- Complete with Universal AC adapter (UA100-240) & multiple plug types; 1yr warranty

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Carbon Monoxide (CO)	0 to 999ppm	1ppm	±2ppm
Temperature (Air)	14 to 140°F (-10 to 60°C)	0.1°F/°C	±1.2°F/0.6°C
Relative Humidity	10 to 90%RH	0.1%RH	±5%RH @ 25°C
Dimensions/Wt	6.1 x 3.4 x 3.2" (155 x 87 x 81mm)/ 5.8oz (165g)		

ORDERING

C050 Desktop Carbon Monoxide CO Monitor

C010 Carbon Monoxide (CO) Meter


CE

Check CO level in all environments up to 1000ppm

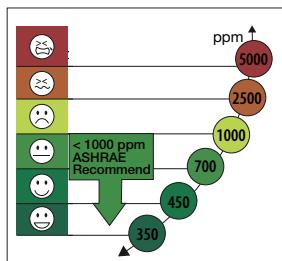
- Auto Zero at start up
- Displays CO levels from 0 to 1000ppm
- 1ppm resolution with ±5% or ±10ppm basic accuracy (whichever is greater)
- Utilizes a stabilized electrochemical gas specific (CO) fast response sensor
- Audible alarm starts at 35ppm
- Memory stores 10 readings
- Ergonomic pocket size housing
- Max Hold, Data hold buttons, and Auto Power off features
- Dimensions/Weight: 6.3x2.2x1.57" (160x56x40mm)/6.35oz (180g)
- Complete with 9V battery, protective holster, and case; 1 year warranty

ORDERING

C010 Carbon Monoxide Meter



CO220 Desktop Indoor Air Quality CO₂ Monitor


NEW

 Six facial icons indicating CO₂ concentration level for indoor air quality

CE

Measures Carbon Dioxide (CO₂), Air Temperature and Humidity with user-adjustable visual and audible alarm plus calculates Dew Point and Wet Bulb

- Checks for Carbon Dioxide (CO₂) concentrations (0 to 9,999ppm) and displays Temperature (14 to 140°F / -10 to 60°C) and Relative Humidity (0.1 to 99.9%) readings, plus Calculates Dew Point and Wet Bulb values
- Maintenance free NDIR (non-dispersive infrared) CO₂ sensor
- Six facial icons indicate indoor quality levels
- Audible CO₂ warning alarm when concentration level exceeds high/low user set point
- Displays Year, Month, Date, and Time
- Min/Max CO₂ value recall function plus 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
- Complete with Universal AC adapter (UA100-240) & multiple plug types; 1yr warranty

ORDERING

CO220

 Desktop Indoor Air Quality CO₂ Monitor

CO200/CO210 Desktop Indoor Air Quality CO₂ Monitor



Model CO200

CE

Model CO210 - Datalogger

Measures Carbon Dioxide (CO₂), Air Temperature and Humidity with user-adjustable high/low alarms and choice of datalogging model

- Checks for Carbon Dioxide (CO₂) concentrations (0 to 9,999ppm) 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) CO₂ sensor
- Indoor Air Quality displayed in ppm with Good, Normal, Poor indication
- Displays Year, Month, Date, and Time
- Max/Min CO₂ value recall function
- Auto Baseline Calibration (minimum CO₂ level over 7.5 days) or manual calibration in fresh air
- Dimensions/Weight: 4.6x4x4" (117x102x102mm)/ 7.2oz (204g)
- Complete with Universal AC adaptor; 1 year warranty
- **Model CO200** - Visible and Audible CO₂ warning alarm with relay output for ventilation control

Model CO210 - Datalogs up to 5333 points for each parameter and can be downloaded to a PC using included Windows® compatible software and cable

ORDERING

CO200

 Desktop Indoor Air Quality CO₂ Monitor

CO210

 Desktop Indoor Air Quality CO₂ Monitor/Datalogger

CO100 Desktop Indoor Air Quality CO₂ Monitor


CE

Measures Carbon Dioxide (CO₂), Air Temperature and Humidity with user-adjustable visual and audible alarm

- Checks for Carbon Dioxide (CO₂) concentrations (0 to 9,999ppm) 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) CO₂ sensor
- Indoor Air Quality displayed in ppm with Good, Normal, Poor indication
- Visible and Audible CO₂ warning alarm
- Displays Year, Month, Date, and Time
- Max/Min CO₂ value recall function
- Complete with Universal AC adaptor; 1 year warranty

ORDERING

CO100

 Desktop Indoor Air Quality CO₂ Monitor

CO250 Portable Indoor Air Quality CO₂ Meter



Measure CO₂ level
in office buildings
to insure proper
ventilation.

CE

Measures Carbon Dioxide (CO₂) , Temperature, Humidity, Dew Point, and Wet Bulb and calculates statistical 8 hour and 15 minute time weighted averages

- Checks for Carbon Dioxide (CO₂) 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) CO₂ sensor
- Backlit triple LCD display and user programmable audible alarm
- RS-232 interface, software and cable included to analyze data on a PC
- Optional 33% and 75% RH calibration bottles (RH300-CAL)
- 1 year warranty
- Complete with software and cable, 4 AA batteries, and carrying case

SPECIFICATIONS	RANGE	RESOLUTION
Carbon Dioxide (CO ₂)	0 to 5,000ppm	1ppm
Temperature	14 to 140°F (-10 to 60°C)	0.1°F/°C
Humidity	0.0 to 99.9%	0.1%
Wet Bulb and Dew Point	Calculated	
Dimensions	7.9x2.7x2.3" (200x70x57mm)	
Weight	6.7 oz. (190g)	

ORDERING	
CO250	Portable Indoor Air Quality CO ₂ Meter
RH300-CAL	33% and 75%RH Calibration Kit

EA80 Indoor Air Quality CO₂ Meter/Datalogger



CE

Measures Carbon Dioxide (CO₂), Temperature, Humidity, Dew Point and Wet Bulbs

- Checks for Carbon Dioxide (CO₂) concentrations, measures Temperature and Relative Humidity, and displays calculated Dew Point and Wet Bulb
- Maintenance free dual wavelength NDIR (non-dispersive infrared) CO₂ 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
- 1 year warranty
- Complete with (6) AAA batteries, RS-232 cable, and Windows® compatible software

SPECIFICATIONS	RANGE	RESOLUTION
Carbon Dioxide (CO ₂)	0 to 6,000ppm	1ppm
Temperature	-4 to 140°F (-20 to 60°C)	0.1°F/°C
Humidity	10 to 95%	1%
Datalogging	Continuous: 20,000 sets/Manual 99 sets	
Dimensions	5.3 x 2.8 x 1.2" (135 x 72 x 31mm)	
Weight	8.2oz (235g)	

ORDERING	
EA80	Indoor Air Quality CO ₂ Meter/Datalogger


CALIBRATION TRACEABLE TO NIST

SD800 CO₂/Humidity/Temperature Datalogger

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

- Checks for Carbon Dioxide (CO₂) concentrations
- Maintenance free dual wavelength NDIR (non-dispersive infrared) CO₂ sensor
- Triple LCD simultaneously displays CO₂, Temperature and Relative Humidity
- Selectable data sampling rate: 5, 10, 30, 60, 120, 300, 600 seconds or Auto
- 1 year warranty
- Complete with (6) AAA batteries, 2G SD memory card, Universal AC adaptor, and mounting bracket

SPECIFICATIONS	RANGE	MAX. RESOLUTION	BASIC ACCURACY
CO ₂	0 to 4,000ppm	1ppm	±40ppm (<1000ppm); ±5% rdg (>1000ppm)
Temperature	32 to 122°F (0 to 50°C)	0.1°F/°C	±1.8°F/0.8°C
Humidity	10 to 90%	0.1%	±4%RH
Datalogging/PC Interface	20M data using 2G SD memory card/ Optional 407001 software (see p. 106)		
Dimensions/ Weight	5.2 x 3.1 x 1.3" (132 x 80 x 32mm)/ 9.9oz (282g)		

ORDERING

SD800 CO₂/Humidity/Temperature Datalogger

SD750 3-Channel Pressure Meter/Datalogger

NEW



Records data on an SD card in Excel® format for easy transfer to a PC for analysis plus the 3-Channel feature allows technicians to easily monitor and record pressure levels from three sources using one meter instead of three

- Triple LCD simultaneously displays 3 pressure channels
- Connect to installed transducers (up to 5000psi with 4-20mA output) or optional 30psi, 150psi or 300psi transducers listed below
- 4-20mA input with readout in 9 units of measure
- Datalogger date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC
- User can select the data sampling rate: 5, 10, 30, 60, 120, 300, 600 seconds or Auto
- 1 year warranty
- Complete with six AAA batteries, 2G SD card, Universal AC Adaptor, three connectors, and mounting bracket
- Optional transducers sold separately (choose 30psi, 150psi or 300psi range)

SPECIFICATIONS	30 PSI	150 PSI	300 PSI
bar	0.002 to 2 bar	0.01 to 10 bar	0.02 to 20 bar
psi	0.02 to 30 psi	0.2 to 150 psi	0.2 to 300 psi
kg/cm ²	0.002 to 2.040 kg/cm ²	0.01 to 10.19 kg/cm ²	0.02 to 20.40 kg/cm ²
mmHg	2 to 1500 mmHg	10 to 7500 mmHg	20 to 15000 mmHg
inHg	0.05 to 59.05 inHg	0.2 to 295.2 inHg	0.5 to 590.5 inHg
mH ₂ O	0.02 to 20.40 mH ₂ O	0.1 to 101.9 mH ₂ O	0.2 to 204.0 mH ₂ O
inH ₂ O	1 to 802 inH ₂ O	5 to 4010 inH ₂ O	10 to 8020 inH ₂ O
atm	0.002 to 1.974 atm	0.01 to 9.87 atm	0.02 to 19.74 atm
kPa	0.2 to 200.0 kPa	1 to 1000 kPa	2 to 2000 kPa
Memory	2M data using 2G SD memory card		
Dimensions/ Weight	5.2x3.1x1.3" (132x80x32mm)/7oz (199g)		

ORDERING

SD750 **N** 3-Channel Pressure Datalogger

Accessories (Meter not included)

- | | |
|----------|--|
| PT30-SD | Pressure Transducer for SD750 (30psi) |
| PT150-SD | Pressure Transducer for SD750 (150psi) |
| PT300-SD | Pressure Transducer for SD750 (300psi) |



Applications include pressure measurements from hydraulic, pneumatic, air compressor, and process gas systems, as well as other industrial applications.



Optional Universal Pressure Transducers available in three ranges (30psi, 150psi, and 300psi). Purchase the transducer with the range that best fits your application needs or call our tech support hotline if you need guidance.

HD350 Pitot Tube Anemometer + Differential Manometer



Includes Windows® compatible software with cable, 9V battery, pitot tube with two 33.5" (85cm) connection hoses, 100V-240V universal AC Adaptor, and hard carrying case; 3 year warranty

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
- Max/Min/Avg, 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	0.7252psi	0.0001psi	±0.3%FS
mbar	50.00mbar	0.01mbar	±0.3%FS
inH ₂ O	20.07inH ₂ O	0.01inH ₂ O	±0.3%FS
mmH ₂ O	509.8mmH ₂ O	0.01mmH ₂ O	±0.3%FS
Pa	5000Pa	1Pa	±0.3%FS
Linearity/Hysteresis	±0.29FS		
Maximum Pressure	10psi		
Air Velocity/Flow			
ft/min	200 to 15733	1	±1% FS
m/s	1 to 80.00	0.01	±1% FS
km/h	3.5 to 288.0	0.1	±1% FS
MPH	2.25 to 178.66	0.01	±1% FS
knots	2.0 to 154.6	0.1	±1% FS
CFM/CMM	0 to 99,999	0.001	±1% FS
Temperature	32.0 to 122.0°F (0 to 50°C)	0.1°	±3°F/1.5°C
Dimensions/Weight	Meter: 8.2 x 2.9 x 1.9" (210 x 75 x 50mm) / 12oz (340g); Pitot Tube: 15.4 x 7.7" (390 x 195mm); Diameter 0.32" (8mm) / 7.2oz (204g)		

ORDERING

HD350

Pitot Tube Anemometer + Differential Manometer

PS100 Series Differential Pressure Manometers

NEW



PS101 - (1psi)

PS106 - (6psi)

PS115 - (15psi)

Three models offer ranges for various applications: 1psi, 6psi, 15psi. Each model displays readings in 11 units with high resolution

- Three models to choose from: Model PS101 ($\pm 1\text{psi}$ range), Model PS106 ($\pm 6\text{psi}$ range), and Model PS115 ($\pm 15\text{psi}$ range)
- 11 units of measure to choose from
- Manually store/recall 99 readings; Max/Min recording and Relative time stamp
- Data Hold and Auto power off with disable
- Large LCD display with backlighting
- Zero function for offset correction or measurement
- Complete with six AAA batteries, two connection hoses and case; 1 year warranty

SPECIFICATIONS	PS101	PS106	PS115
psi (max res.)	1psi (0.001psi)	6psi (0.001psi)	15psi (0.001psi)
kPa (max res.)	6.89kPa (0.01kPa)	41.37kPa (0.01kPa)	103.42kPa (0.01kPa)
mmHg (max res.)	51.7mmHg (0.1mmHg)	310.3mmHg (0.1mmHg)	775.7mmHg (0.1mmHg)
kgcm ² (max res.)	0.07kgcm ² (0.001kgcm ²)	0.422kgcm ² (0.001kgcm ²)	1.055kgcm ² (0.001kgcm ²)
mbar (max res.)	68.9mbar (0.1mbar)	413.7mbar (0.1mbar)	1034.2mbar (0.1mbar)
bar (max res.)	0.069bar (0.001bar)	0.414bar (0.001bar)	1.034bar (0.001bar)
inH ₂ O (max res.)	27.68inH ₂ O (0.01inH ₂ O)	166.08inH ₂ O (0.01inH ₂ O)	415.20inH ₂ O (0.01inH ₂ O)
mmH ₂ O (max res.)	703mmH ₂ O (1mmH ₂ O)	4218mmH ₂ O (1mmH ₂ O)	10546mmH ₂ O (1mmH ₂ O)
inHg (max res.)	2.036inHg (0.001inHg)	12.216inHg (0.001inHg)	30.5inHg (0.001inHg)
ftH ₂ O (max res.)	2.307ftH ₂ O (0.001ftH ₂ O)	13.840ftH ₂ O (0.001ftH ₂ O)	34.6ftH ₂ O (0.001ftH ₂ O)
ozin ² (max res.)	16.00ozin ² (0.01ozin ²)	96.00ozin ² (0.01ozin ²)	240.00ozin ² (0.01ozin ²)
Dimensions/Wt	6.7 x 3.1 x 1.4" (169 x 78.3 x 34.4mm)/7oz (200g)		

ORDERING

PS101 **N** Differential Pressure Manometer (1psi)

PS106 **N** Differential Pressure Manometer (6psi)

PS115 **N** Differential Pressure Manometer (15psi)



HD700 Series Differential Pressure Manometers



Low Range/High Resolution Gauge or Differential Pressure

- Three models to choose from: Model HD700 ($\pm 2\text{psi}$ range), Model HD750 ($\pm 5\text{psi}$ range), and Model HD755 ($\pm 0.5\text{psi}$ 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
- 3 year warranty
- Complete with 9V battery, Windows® compatible software with USB cable, 100-240V Universal AC adaptor, connection hose, built-in stand, and hard carrying case

SPECIFICATIONS	HD700	HD750	HD755
psi	2psi (0.001psi)	5psi (0.001psi)	0.5psi (0.001psi)
inH ₂ O	55.40inH ₂ O (0.01inH ₂ O)	138.3inH ₂ O (0.1inH ₂ O)	13.85inH ₂ O (0.01inH ₂ O)
mbar	137.8mbar (0.1mbar)	344.7mbar (0.1mbar)	34.47mbar (0.01mbar)
kPa	13.78kPa (0.01kPa)	34.47kPa (0.01kPa)	3.447kPa (0.001kPa)
inHg	4.072inHg (0.001inHg)	10.18inHg (0.01inHg)	1.018inHg (0.001inHg)
mmHg	103.4mmHg (0.1mmHg)	258.5mmHg (0.1mmHg)	25.85mmHg (0.01mmHg)
ozin ²	32ozin ² (0.01ozin ²)	80ozin ² (0.01ozin ²)	8.00ozin ² (0.01ozin ²)
ftH ₂ O	4.616ftH ₂ O (0.001ftH ₂ O)	11.53ftH ₂ O (0.01ftH ₂ O)	1.154ftH ₂ O (0.001ftH ₂ O)
cmH ₂ O	140cmH ₂ O (0.1cmH ₂ O)	350.1cmH ₂ O (0.1cmH ₂ O)	2.59cmH ₂ O (0.01cmH ₂ O)
kgcm ²	0.140kgcm ² (0.001kgcm ²)	0.351kgcm ² (0.001kgcm ²)	0.035kgcm ² (0.001kgcm ²)
bar	0.137bar (0.001bar)	0.344bar (0.001bar)	0.034bar (0.001bar)
Basic Accuracy	$\pm 0.3\%$ FS	$\pm 0.3\%$ FS	$\pm 0.3\%$ FS
Dimensions/Weight	Meter: 8.2x2.9x1.9" (210x75x50mm)/ 9.8oz (280g)		

ORDERING

- | | | |
|-------|---|--|
| HD700 | N | Differential Pressure Manometer (2psi) |
| HD750 | N | Differential Pressure Manometer (5psi) |
| HD755 | N | Differential Pressure Manometer (0.5psi) |

407910 Heavy Duty Differential Pressure Manometer

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 RS-232 PC interface — optional 407001 Data Acquisition software (see p. 112 for details)
- 3 year warranty
- Complete with 2 quick-disconnect fittings, 9V battery, protective holster with stand, and case



SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
psi	$\pm 29\text{psi}$	0.02psi	$\pm 1\%$ FS
mbar	$\pm 2000\text{mbar}$	1mbar	$\pm 2\%$ FS
kg/cm ²	$\pm 2.040\text{kg}/\text{cm}^2$	0.001kg/cm ²	$\pm 1\%$ FS
mmHg	$\pm 1500\text{mmHg}$	1mmHg	$\pm 1\%$ FS
inHg	$\pm 59.05\text{inHg}$	0.05inHg	$\pm 1\%$ FS
mH ₂ O	$\pm 20.40\text{mH}_2\text{O}$	0.01mH ₂ O	$\pm 1\%$ FS
inH ₂ O	$\pm 802.0\text{inH}_2\text{O}$	0.5inH ₂ O	$\pm 1\%$ FS
Atmosphere	$\pm 1.974\text{atm}$	0.001atm	$\pm 1\%$ FS
Dimensions/Weight	Meter: 7x2.9x1.3" (178x74x33mm)/12oz (350g)		

ORDERING

- | | | |
|--------|---|--|
| 407910 | N | Heavy Duty Differential Pressure Manometer |
| 156119 | | 117VAC Adaptor |
| 409997 | | Soft Vinyl Pouch Carrying Case |

SDL700 Pressure Meter/Datalogger



SD memory card



Optional Pressure Transducers available in:
30psi (PT30)
150psi (PT150)
300psi (PT300)

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

- Accepts interchangeable transducers with ranges of 30, 150, 300psi (Transducers sold separately)
- Meter automatically senses plug-in transducer's range and calibration
- Selectable data sampling rate: 1 to 3600 seconds
- Stores 99 readings manually and 20M readings via 2G SD card
- Large backlit dual LCD
- MIN/MAX, Data Hold, and Auto power functions
- Complete with 6 x AA batteries, SD memory card, and hard carrying case; 3 year warranty. Optional AC adaptor.

SPECIFICATIONS	30psi	150psi	300psi
bar	0.002 to 2	0.01 to 10	0.02 to 20
psi	0.02 to 29	0.2 to 145	0.2 to 290
kg/cm ²	0.002 to 2.040	0.01 to 10.19	0.02 to 20.40
mmHg	2 to 1500	10 to 7500	20 to 15000
inHg	0.05 to 59.05	0.2 to 295.2	0.5 to 590.5
mH ₂ O	0.02 to 20.40	0.1 to 101.9	0.2 to 204.0
inH ₂ O	1 to 802	5 to 4010	10 to 8020
atm	0.002 to 1.974	0.01 to 9.87	0.02 to 19.74
hPa	2 to 2000	10 to 10000	20 to 20000
kPa	0.2 to 200.0	1 to 1000	2 to 2000
Dimensions/Weight	Meter: 7.2x2.9x1.9" (182X73X48mm)/ 17.3oz (490g)		

ORDERING

SDL700	Pressure Meter/Datalogger
PT30	30psi Pressure Transducer
PT150	150psi Pressure Transducer
PT300	300psi Pressure Transducer
UA100-240	100-240V AC Adaptor with 4 plugs (US, EU, UK, AU)



www.extech.com/video



Extech's SD series Dataloggers

Extech's SD series Dataloggers measure, display and record various industrial parameters, such as Pressure level for hydraulics, pneumatics, air compressors, and process gas systems to Environmental conditions such as Humidity, Temperature, Carbon Dioxide, and Barometric Pressure. Featuring date/time stamps and selectable data sampling rates, all SD series models record in Excel® format on included SD cards so users can transfer files to a PC for further analysis and reporting.



SD750 3-Channel Pressure Meter/Datalogger (p. 107)



SD700 Barometric Pressure/Humidity/Temperature Datalogger (p. 83)



SD200 3-Channel Temperature Datalogger (p. 77)



SD800 CO₂/Humidity/Temperature Datalogger (p. 107)
SD500 Humidity/Temperature Datalogger (p. 83)

475055 High Capacity Force Gauge with PC Interface

Complete with tension and compression adaptors, six AA 1.5V batteries, and case; Optional AC Adaptors available 153117 or UA100-240, see below for ordering; 1 year warranty

CE

220lbs (100kg), 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 software

SPECIFICATIONS

Range	220 lbs, 100kg, 980 Newtons
Basic Accuracy (23°C)	±(0.5%rdg)
Resolution	0.05lbs, 0.05kg, 0.2 Newtons
Overload capacity	150kg
Update Rate	Fast mode 0.2 seconds; Slow mode 0.6 seconds
Full scale deflection	<1mm
Transducer type	Load cell
Dimensions/ Weight	Meter: 8.5 x 3.5 x 1.8" (215 x 90 x 45 mm)/ 1 lb (450g)

ORDERING

475055	N	High Capacity Force Gauge with PC Interface
407001		Data Acquisition Software and Serial Cable
407001-USB		USB adaptor for 407001

475040/475044/-SD Digital Force Gauges

NEW



CE

475040
475040-SD475044
475044-SD**Push/Pull measurements in kg, lbs, oz and Newton units**

- 5 digit 0.4" (10mm) 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
- 1 year warranty
- Complete with hook adaptor for tension, compression adaptors (flat, cone and chisel head), 5" (127mm) extension rod, 6 AA batteries, and case; 475040-SD and 475044-SD also include SD memory card

SPECIFICATIONS

	475040/475040-SD	475044/475044-SD (HIGH CAPACITY)
Datalogging	— / SD memory card for 475040-SD	— / SD memory card for 475044-SD
Range	176oz, 5000g, 49 Newtons	44lbs, 20kg, 196 Newtons
Basic Accuracy (23°C)	±(0.4%)	±(0.5%)
Resolution	0.05oz, 1g, 0.01 Newtons	0.01lbs, 0.01kg, 0.05 Newtons
Overload capacity	10kg	30kg
Update Rate	Fast mode 0.2secs; Slow mode 0.6secs	
Full scale deflection	2.00mm	
Transducer type	Load cell	
Dimensions/ Weight	8.5x3.5x1.8" (215x90x45mm)/ 1.4 lbs (650g)	

ORDERING

475040	N	Digital Force Gauge
475040-SD	N	Digital Force Gauge/Datalogger
475044	N	High Capacity Force Gauge
475044-SD	N	High Capacity Force Gauge/Datalogger
479097		Accessory Kit (2ea.- hook, flat, cone, & chisel head adaptors)
UA100-240		100-240V AC Adaptor with 4 plugs (US, EU, UK, AU)



475040-SD & 475044-SD include SD memory card to conveniently datalog readings

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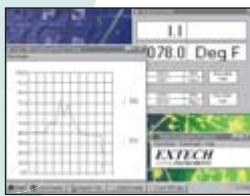
"I use my Extech 407026 Heavy Duty Light Meter with PC Interface for measuring foot candles on LEED certification jobs. The Extech has impressive durability and battery life. Do a good comparison; Extech will come out on top."

Gregg S., New York



ACCESSORIES

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



407001 Data Acquisition Software

- Enables users of specific Extech meters to capture, display and store readings on a PC
- Sampling time: 1sec - 60 mins
- Import data into Excel
- Includes Windows® 95/98/2000/NT/XP/7 compatible software and serial cable
- Optional USB Adaptor — 407001-USB



401027 Pocket Foot Candle Light Meter

Measures up to 2,000Fc for basic lighting applications

- Easy to operate Foot candle light meter with 2 ranges
- Convenient pocket size design
- Over-range indication
- Complete with 9V battery, light sensor with protective cover and 45" (1.1m) cable, and built-in stand

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 (1 second) or slow (2 seconds) response time
- Analog output of 1mV per count for capturing readings to a recorder
- Complete with 9V battery, light sensor with protective cover and 47" (1.2m) cable, and built-in stand

SPECIFICATIONS	401027 N	401025 N
Fc Range	200, 2000Fc	200, 2000, 5000Fc
Lux Range	—	2000, 20000, 50000Lux
Max. Resolution	0.1Fc	0.1Fc/1Lux
Basic Accuracy	±5% FS	±5% FS
Temperature (Type J/K)	—	—
Cosine & Color Corrected	Yes	Yes
Analog output	—	Yes
PC Interface	—	—
Datalogging	—	—
CE approved	Yes	Yes
Dimensions/ Weight	5.2x2.8x1" (131x70x25mm)/ 6.9oz (195g)	6.4x2.8x1.2" (163x70x30mm)/ 8.3oz (220g)
Warranty	1 year	1 year



LT300 Light Meter

Digital and Analog display of light in Fc or Lux

- Wide range to 20,000 Foot-Candles or 200,000 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" (305mm) coiled cable — expandable to 24" (609mm)
- Utilizes precision photo diode and color correction filter
- Cosine and color corrected measurements
- MIN/MAX and Data Hold
- Large LCD display with analog bargraph
- Backlight for readings in low light levels
- Complete with 9V battery, light sensor with protective cover, protective holster, and pouch case



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
- Built-in PC serial interface with optional 407001 Data Acquisition software (see p. 112 for details)
- Complete with 9V battery, light sensor, and protective cover with 45" (1.1m) cable, and protective holster with stand. Optional 117V (156119) or 220V (156221) AC adaptors.



Includes SD memory card

SDL400 Light Meter/Datalogger

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

- Wide range: 10,000Fc/100kLux
- Cosine and color-corrected measurements
- Utilizes precision photo diode and spectral response filter
- Selectable data sampling rate: 1 to 3600 seconds (1 hour)
- Manually store/recall up to 99 readings
- 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 & light sensor with protective cover; Optional Universal AC Adaptor UA100-240 also see p. 40, 41, and 74 for optional Type K and J Thermocouple probes

LT300 N

20,000Fc	200, 2000, 5000Fc	200, 2000, 10kFc	Fc Range
200,000Lux	2000, 20000, 50000Lux	2000, 20k, 100kLux	Lux Range
0.01Fc/Lux	0.1Fc/1Lux	0.1Fc/1Lux	Max. Resolution
±5% rdg	±4%FS	±4%rdg	Basic Accuracy
—	—	J: -148 to 2192°F (-100 to 1200°C) K: -148 to 2372°F (-100 to 1300°C)	Temperature (Type J/K)
Yes	Yes	Yes	Cosine & Color Corrected
—	—	—	Analog output
—	Optional 407001 Software (see p. 112)	Optional 407001 software (see p. 112)	PC Interface
—	—	Manual: 99 readings Continuous: 20M readings w/2GB SD card	Datalogging
Yes	Yes	Yes	CE approved
5.9x2.95x1.57" (150x75x40mm/ 7oz (200g)	7x2.9x1.3" (178x74x33mm)/ 1.6lbs (726g)	7.2x2.9x1.9" (182X73X48mm)/16.8oz (475g)	Dimensions/ Weight
1 year	3 years	3 years	Warranty

407026 N

200,000Fc	200, 2000, 5000Fc	200, 2000, 10kFc	Fc Range
200,000Lux	2000, 20000, 50000Lux	2000, 20k, 100kLux	Lux Range
0.01Fc/Lux	0.1Fc/1Lux	0.1Fc/1Lux	Max. Resolution
±5% rdg	±4%FS	±4%rdg	Basic Accuracy
—	—	J: -148 to 2192°F (-100 to 1200°C) K: -148 to 2372°F (-100 to 1300°C)	Temperature (Type J/K)
Yes	Yes	Yes	Cosine & Color Corrected
—	—	—	Analog output
—	Optional 407001 Software (see p. 112)	Optional 407001 software (see p. 112)	PC Interface
—	—	Manual: 99 readings Continuous: 20M readings w/2GB SD card	Datalogging
Yes	Yes	Yes	CE approved
5.9x2.95x1.57" (150x75x40mm/ 7oz (200g)	7x2.9x1.3" (178x74x33mm)/ 1.6lbs (726g)	7.2x2.9x1.9" (182X73X48mm)/16.8oz (475g)	Dimensions/ Weight
1 year	3 years	3 years	Warranty

SDL400 N

200,000Fc	200, 2000, 10kFc	Fc Range	
200,000Lux	2000, 20k, 100kLux	Lux Range	
0.01Fc/Lux	0.1Fc/1Lux	Max. Resolution	
±5% rdg	±4%rdg	Basic Accuracy	
—	J: -148 to 2192°F (-100 to 1200°C) K: -148 to 2372°F (-100 to 1300°C)	Temperature (Type J/K)	
Yes	Yes	Cosine & Color Corrected	
—	—	Analog output	
—	Optional 407001 Software (see p. 112)	PC Interface	
—	—	Datalogging	
Yes	Yes	CE approved	
5.9x2.95x1.57" (150x75x40mm/ 7oz (200g)	7x2.9x1.3" (178x74x33mm)/ 1.6lbs (726g)	Dimensions/ Weight	
1 year	3 years	Warranty	

Bright Solutions from Extech

Extech light meters deliver accurate, repeatable readings for users in a range of industries. Along with available calibration traceable to N.I.S.T., Extech light meters stand out with big-digit displays, wide-range models, ruggedized designs, as well as memory and datalogging capabilities.



NIST traceable certificate with data is available when you order your meter with Certificate Traceable to NIST. Look for this symbol **N** on products that offer NIST.



EA31 EasyView® Big Digit Light Meter

Measures light intensity up to 20,000Fc/Lux

- Compact and rugged design with large display and bargraph
- Data Hold and MIN/MAX readings
- Auto power off
- Complete with built-in stand, light sensor and protective cover with 39" (1m) coiled cable, protective holster, 6 AAA batteries, and carrying case

EA30 EasyView® Big Digit, Wide range Light Meter

Measures high intensity light up to 40,000Fc and 400,000Lux, 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 100µSeconds
- Data Hold and MIN/MAX readings
- Auto power off, Zero function
- Complete with built-in stand, light sensor and protective cover with 39" (1m) coiled cable, protective holster, 6 AAA batteries, and carrying case

SPECIFICATIONS	EA31 N	EA30 N
Display counts	2000 count LCD	4000 count LCD
Fc Range	20, 200, 2000, 20,000Fc	40, 400, 4000, 40,000Fc
Lux Range	20, 200, 2000, 20,000Lux	40, 400, 4000, 40,000, 400,000Lux
Max. Resolution	0.01Fc/Lux	0.01Fc/Lux
Basic Accuracy	±3%rdg + 0.5%FS	±3%rdg + 0.5%FS
Cosine & Color Corrected	Yes	Yes
PC Interface	—	—
Datalogging	—	—
CE approved	Yes	Yes
Dimensions	5.9x2.8x1.4" (150x72x33mm)	5.9x2.8x1.4" (150x72x33mm)
Weight	8.3oz (235g)	8.3oz (235g)
Warranty	1 year	1 year





EA33 EasyView® Light Meter with Memory

Advanced illuminance functions and features

- Wide measurement range to 99,990Fc (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
- Includes built-in stand, light sensor and protective cover with 36" (0.9m) coiled cable, protective holster, 6 AAA batteries, and case



HD400 Light Meter

Large backlit display with fast, 40-segment bar graph for capturing trends

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



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

EA33 N

999,999 count LCD	4000 count backlit LCD	4000 count backlit LCD	Display counts
9,999, 99.99, 999.9, 9999, 99,990Fc	40, 400, 4000, 40kFc	40, 400, 4000, 40kFc	Fc Range
99.99, 999.9, 9999, 99,990, 999,900Lux	400, 4000, 40k, 400kLux	400, 4000, 40k, 400kLux	Lux Range
0.001Fc/0.01Lux	0.01Fc/0.1Lux	0.01Fc/0.1Lux	Max. Resolution
±3%	±5%	±5%	Basic Accuracy
Yes	Yes	Yes	Cosine & Color Corrected
—	USB with software included	USB with software included	PC Interface
—	Directly to PC using software	16,000 data (continuous)/ 99 data (manual)	Datalogging
Yes	Yes	Yes	CE approved
5.9x2.8x1.4" (150x72x33mm)	6.7x 3.1x1.6" (170x80x40mm)	6.7x 3.1x1.6" (170x80x40mm)	Dimensions
11.29oz (320g)	13.7oz (390g)	13.7oz (390g)	Weight
1 year	3 years	3 years	Warranty

HD400 N

999,999 count LCD	4000 count backlit LCD	4000 count backlit LCD	Display counts
9,999, 99.99, 999.9, 9999, 99,990Fc	40, 400, 4000, 40kFc	40, 400, 4000, 40kFc	Fc Range
99.99, 999.9, 9999, 99,990, 999,900Lux	400, 4000, 40k, 400kLux	400, 4000, 40k, 400kLux	Lux Range
0.001Fc/0.01Lux	0.01Fc/0.1Lux	0.01Fc/0.1Lux	Max. Resolution
±3%	±5%	±5%	Basic Accuracy
Yes	Yes	Yes	Cosine & Color Corrected
—	USB with software included	USB with software included	PC Interface
—	Directly to PC using software	16,000 data (continuous)/ 99 data (manual)	Datalogging
Yes	Yes	Yes	CE approved
5.9x2.8x1.4" (150x72x33mm)	6.7x 3.1x1.6" (170x80x40mm)	6.7x 3.1x1.6" (170x80x40mm)	Dimensions
11.29oz (320g)	13.7oz (390g)	13.7oz (390g)	Weight
1 year	3 years	3 years	Warranty

HD450 N

999,999 count LCD	4000 count backlit LCD	4000 count backlit LCD	Display counts
9,999, 99.99, 999.9, 9999, 99,990Fc	40, 400, 4000, 40kFc	40, 400, 4000, 40kFc	Fc Range
99.99, 999.9, 9999, 99,990, 999,900Lux	400, 4000, 40k, 400kLux	400, 4000, 40k, 400kLux	Lux Range
0.001Fc/0.01Lux	0.01Fc/0.1Lux	0.01Fc/0.1Lux	Max. Resolution
±3%	±5%	±5%	Basic Accuracy
Yes	Yes	Yes	Cosine & Color Corrected
—	USB with software included	USB with software included	PC Interface
—	Directly to PC using software	16,000 data (continuous)/ 99 data (manual)	Datalogging
Yes	Yes	Yes	CE approved
5.9x2.8x1.4" (150x72x33mm)	6.7x 3.1x1.6" (170x80x40mm)	6.7x 3.1x1.6" (170x80x40mm)	Dimensions
11.29oz (320g)	13.7oz (390g)	13.7oz (390g)	Weight
1 year	3 years	3 years	Warranty

LRK10/LRK15 Lighting Retrofit Kits



CE

Applications:

- Lighting System Audits
- Post-retrofit Verification Testing
- Construction Audits
- Project Installation

NEW

Designed for professionals who routinely audit existing and replacement lighting systems for energy efficiency and lighting performance

- Successful lighting retrofit contractors need tools to comprehensively assess lighting infrastructure: from light levels for a given space to energy usage. Older technology such as incandescent lights or aging ballasts can impact the bottom line with added energy costs. Insufficient or excessive lighting can impact productivity or worker health with eyestrain from dim lighting or glare. As you work with clients to evaluate newer, high efficiency fluorescent and LED lighting retrofits, get the tools that deliver accurate, actionable information.
- Both LRK10 and LRK15 kits include:
 - Model LT300 Light Meter: Quickly measure lighting levels with this ergonomic, easy to use light meter (see p. 113)
 - Model DT200 Compact Laser Distance Meter - Quickly calculate area even in hard-to-measure spots (see p. 53)
- LRK15 kit also includes:
 - Model 380940 400A AC/DC Power Clamp Meter: Versatile electrical test tool with built-in wattage measurement (see p. 60)

ORDERING

LRK10

Lighting Retrofit Kit

LRK15

Lighting Retrofit Kit with Power Clamp Meter



Quickly measure lighting levels with this ergonomic, easy to use light meter.



Laser distance meter with built-in tools to quickly calculate area even in hard-to-measure spots.



Versatile electrical test tool with built-in wattage measurement.

SDL470 UVA/UVC Light Meter/Datalogger



CE

NEW

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; 1yr warranty

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 365nm UV irradiance measurements under a UVA (black light) source
- UVC probe captures short-wave 254nm UV irradiance measurements under a UVC light source
- Cosine correction filter and metal housing
- Datalogger date/time stamps and stores readings onto an SD memory card in MS Excel® format for offline data analysis
- Offset adjustment used for zero function or to make relative measurements
- Adjustable data sampling rate: 1 to 3600 seconds
- Type K/J Thermocouple input for temperature measurements (probes sold separately)
- Large backlit LCD display
- Record/Recall MIN, MAX readings, Data Hold, and Auto power off functions

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY
UVA Range	2mW/cm ² , 20mW/cm ²	0.001mW/cm ²	±4% FS
UVC Range	2mW/cm ² , 20mW/cm ²	0.001mW/cm ²	±4% FS
Frequency Bandwidth	365nm (UVA); 254nm (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)
Memory	Manual: 99 data readings; 2GB SD memory card: 20M readings		
Dimensions/ Weight	7.2 x 2.9 x 1.9" (182 x 73 x 47.5mm)/ 16.2oz (475g)		

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



NEW



CE

LED Light meters are used for monitoring and optimizing environmental light levels in 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
- 4000 count display
- Min/Max Average
- Cosine and color corrected measurements
- Auto Power off
- Complete with built-in sensor with protective cover, 2 AAA batteries, and pouch
- 1 year warranty

SPECIFICATIONS

Foot-candle (Fc) Range	40, 400 4000, 40000
Lux Range	400, 4000, 40000, 400000
LED Type	white
Basic Accuracy	±3%
Dimensions	5.2x1.9x1" (133x48x23mm)
Weight	8.8oz (250g)

ORDERING

LT40 LED Light Meter

LT45 Color LED Light Meter

NEW



CE

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

- Measure white, red, yellow, green, blue, and purple LED lights and Standard Lighting in Lux or Foot-Candle (Fc) units
- Manually store/recall up to 99 readings
- 4000 count display
- Min/Max Average
- Cosine and color corrected measurements
- Auto Power off
- Complete with light sensor with protective cover and coiled cable expandable to 59" (1.5m), 9V battery, and hard case; 1 year warranty

SPECIFICATIONS

Foot-candle (Fc) Range	40, 400 4000, 40000
Lux Range	400, 4000, 40000, 400000
LED Type	white, red, yellow, green, blue, purple
Basic Accuracy	±3%
Dimensions	5.1x2.2x1.5" (130x55x38mm)
Weight	8.8oz (250g)

ORDERING

LT45 Color LED Light Meter

PLANET EXTECH

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Unrivaled Selection

No one offers a better selection of sound level meters than Extech. With models for every application, capabilities include Type 2 compliance, calibration traceable to N.I.S.T., PC connectivity, datalogging, octave band analyzer, ultra compact and wall-mounted designs, and personal dosimeters.



ACCESSORIES

TR100	Tripod (for meters with Tripod mount feature)
40705X	AC/DC Recorder Output Cable
407744 N	94dB Sound Calibrator (0.5", 1" microphones)
407766 N	94/114dB Sound Calibrator (0.5", 1" microphones)



Sound Level Calibrators

- Calibrate and verify Sound Meter operation
- 1kHz sine wave at 94dB/114dB (407766) or 94dB (407744) is generated to an accuracy of $\pm 5\%$ (frequency) and $\pm 0.5\text{dB}$ (94dB); $\pm 0.8\text{dB}$ (114dB)
- For use with both 0.5" to 1.0" microphones
- For use with all Extech Sound Level Meters
- Includes screwdriver, batteries, and case



407730 Digital Sound Level Meter

Analog bargraph with 30dB range updates every 40ms

- $\pm 2\text{dB}$ accuracy with 0.1dB 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" (12.7mm) condenser microphone
- Tripod mount for field use (optional TR100 Tripod — sold separately)
- Complete with microphone wind screen and four AAA batteries

SPECIFICATIONS

407730 **N**

Range	40 to 130dB
Basic Accuracy	$\pm 2\text{dB}$
Weighting (A&C)	Yes
Response Time (Fast/Slow)	Yes
Condenser Microphone	0.5" (12.7mm)
Analog Output	AC
CE approved	Yes
Dimensions	9x2.2x1.7" (230x57x44mm)
Weight	5.6oz (160g)
Warranty	1 year





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 wind screen and 9V battery
- Optional 407732-NISTL includes Certificate of Calibration Traceable to NIST at single point calibration to 94dB



407732-KIT Type 2 Sound Meter Kit

Digital sound level meter with 94dB 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)
- Model 407722 Calibrator calibrates and verifies sound level meter operation
- Durable double molded housing
- Total Harmonic Distortion (THD) <2% at 94dB
- Complete with 407732 Sound Meter, 407722 Sound Calibrator, and protective hard carrying case (Optional NIST traceable certificate available for kit: 407732-KIT-NIST includes 407732-NISTL and 407722-NIST) - see p. 156 for ordering info



407736 Type 2 Sound Meter with Calibration Check

Two range meter with analog outputs

- High accuracy meets Type 2 standards (ANSI S1.4-1983, IEC 60651, EN 60651)
- High and Low measuring ranges
- MAX Hold with reset button
- Built-in calibration check (94dB)
- Analog AC/DC outputs for connection to an analyzer or recorder
- Tripod mount for field use (optional TR100 Tripod — sold separately)
- Complete with microphone wind screen, 9V battery, and carrying case

407732 N

Low: 35 to 100dB, High: 65 to 130dB

±1.5dB (Type 2)

Yes

Yes

0.5" (12.7mm)

—

Yes

8.2x2.1x1.25" (210x55x32mm)

8.1oz (230g)

1 year

407732-KIT N

Low: 35 to 100dB, High: 65 to 130dB

±1.5dB (Type 2)

Yes

Yes

0.5" (12.7mm)

—

Yes

Meter: 8.2x2.1x1.25" (210x55x32mm)

Meter: 8.1oz (230g)

1 year

407736 N

Low: 35 to 90dB; High: 75 to 130dB

±1.5dB (Type 2)

Yes

Yes

0.5" (12.7mm)

AC/DC

Yes

9.5x2.7x1" (241x69x25mm)

7.6oz (215g)

1 year

Sound Investment for University

"We switched to Extech because of the price and the availability of many different models. I use the sound meter to measure ambient noise in our college's laboratories. I like the quality of the meter and its documentation. Extech offers a large line of products and the prices are reasonable."

Abbie T., California



ACCESSORIES

407744	N	94dB Sound Calibrator (0.5", 1" microphones)
407766	N	94/114dB Sound Calibrator (0.5", 1" microphones)
TR100		Tripod (for meters with Tripod mount feature)
40705X		AC/DC Recorder Output Cable (3ft/0.9m)
407764-EXT		15ft (4.7m) Microphone Extension Cable (for 407780A)
USB100		RS-232 to USB adaptor
AC Adaptors for 407780A and 407790		
144118		110V AC Adaptor
144220		220V AC adaptor
144240		240V AC adaptor
UA100-240		100-240V AC Adaptor with 4 plugs (US, EU, UK, AU)



NIST traceable certificate with data is available when you order your meter with Certificate Traceable to NIST. Look for this symbol **N** on products that offer NIST.



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
- PC interface for capturing data to PC, optional Windows® compatible software (407752)
- Large backlit display with analog bargraph
- Auto/Manual ranging and MIN/MAX readings
- Analog AC/DC outputs for connection to a recorder
- Tripod mount (optional TR100 Tripod — sold separately)
- Complete with microphone wind screen, 9V battery and case

SPECIFICATIONS

407750 **N**

Range	30 to 130dB
Basic Accuracy	±1.5dB (Type 2)
Weighting (A & C)	Yes
Response Time (Fast/Slow)	Yes
Condenser Microphone	0.5" (12.7mm)
Analog Output	AC/DC
PC Interface	Yes
Datalogging	—
CE approved	Yes
Dimensions/Weight	10x3.1x1.5" (256x80x38mm)/8.5oz (240g)
Warranty	1 year



HD600 20,000 Point Datalogging Sound Level Meter

Double Molded housing with USB port

- $\pm 1.4\text{dB}$ accuracy
- Meets ANSI and IEC 61672-1 Type 2 standards
- Capture up to 10 readings/sec when connected to a PC
- Datalogging capability up to 20,000 records at speeds from 1/sec to 1/59sec
- Records readings with real date and time stamp
- MIN/MAX and Data Hold
- USB port includes PC software
- Tripod included for convenient field use
- Auto power off with disable capability
- Complete with AC Adaptor, Windows® compatible software with USB cable, wind screen, tripod, built-in stand, hard carrying case, and 9V battery



SDL600 Data Logging Sound Level Meter with SD Card

Datalogging capability up to 20M records using a 2G SD card

- $\pm 1.4\text{dB}$ accuracy
- Meets ANSI and IEC 61672-1 Type 2 standards
- Auto or Manual ranging
- User programmable sampling rate from 1 to 3600 seconds
- Records readings with date and time stamp
- Manual store/recall of up to 99 records
- Min/Max, Peak Hold, and Data Hold functions
- Auto power off with disable capability
- Complete with SD Card, wind screen, 6 AA batteries, and hard carrying case; Optional AC Adaptor UA100-240


NEW

407780A Integrating Sound Level Datalogger with USB Interface

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

- Meets Type 2 standards (ANSI S1.4-1983, IEC 60651, EN 60651)
- Datalogging function records up to 32,000 records
- Programmable integrating time; Real time calendar/clock
- Linearity over wide range (100dB)
- Display modes: SPL, SPL MIN/MAX, SEL, and Leq
- Impulse/Fast/Slow response time
- Built-in USB interface with included datalogging software
- Analog and alarm output features can be used to connect with Frequency analyzers, chart recorders, external dataloggers, and sound level alarms
- Tripod mount ideal for field use (optional TR100 Tripod — sold separately)
- Complete with windscreens, adjustment screwdriver, USB cable, Windows® compatible software, battery, and case; (Optional AC Adaptor - see p. 120)

HD600 N

30 to 130dB	30 to 130dB (3 ranges)	30 to 130dB
$\pm 1.4\text{dB}$	$\pm 1.4\text{dB}$	$\pm 1.5\text{dB}$
Yes	Yes	Yes
Yes	Yes	Yes
0.5" (12.7mm)	0.5" (12.7mm)	Detachable 0.5" (12.7mm)
AC/DC	AC	AC/DC
Yes	Yes	Yes
20,000 Records	20M Records on 2G Memory Card	32,000 Records
Yes	Yes	Yes
10.9x3x2" (278x76x50mm)/12.3oz (350g)	9.8x2.9x1.9" (250x73x48mm)/18.3oz (520g)	10.4x2.8x0.8" (265x72x21mm)/10.9oz (310g)
3 years	3 years	1 year

SDL600 N

30 to 130dB	30 to 130dB (3 ranges)	30 to 130dB
$\pm 1.4\text{dB}$	$\pm 1.4\text{dB}$	$\pm 1.5\text{dB}$
Yes	Yes	Yes
Yes	Yes	Yes
0.5" (12.7mm)	0.5" (12.7mm)	Detachable 0.5" (12.7mm)
AC/DC	AC	AC/DC
Yes	Yes	Yes
20,000 Records	20M Records on 2G Memory Card	32,000 Records
Yes	Yes	Yes
10.9x3x2" (278x76x50mm)/12.3oz (350g)	9.8x2.9x1.9" (250x73x48mm)/18.3oz (520g)	10.4x2.8x0.8" (265x72x21mm)/10.9oz (310g)
3 years	3 years	1 year

407780A N

30 to 130dB	30 to 130dB
$\pm 1.5\text{dB}$	$\pm 1.5\text{dB}$
Yes	Yes
Yes	Yes
Detachable 0.5" (12.7mm)	Detachable 0.5" (12.7mm)
AC/DC	AC/DC
Yes	Yes
32,000 Records	32,000 Records
Yes	Yes
10.4x2.8x0.8" (265x72x21mm)/10.9oz (310g)	10.4x2.8x0.8" (265x72x21mm)/10.9oz (310g)
1 year	1 year

407355/SL355 Personal Noise Dosimeter Dataloggers and Kits



407355



Each meter includes a belt clip, clip-on 0.5" microphone with 2.6ft (0.8m) cable, software, mini screwdriver, batteries, and case; 1yr warranty.
407355 also includes 9 pin to 25 pin adaptor, and RS-232 cable; **SL355** also includes USB cable.
407355-KIT-5 Dosimeter Kit includes five 407355 Dosimeters, 407766 Sound level calibrator (see p. 118), and case



407355-KIT-5



Measure total sound exposure over an 8-hour period

- Perform OSHA and IEC Noise accumulation surveys (meet ANSI and IEC *standards)
- Adjustable Criterion Level, Exchange Rate, and Threshold
- Includes Windows® compatible software to control setup and retrieve stored events or analyze real time measurements
- Dosimeter mode: data includes Start/Stop Time, %Dose, TWA, and Peak flags

Model 407355 Additional Features

- RS-232 interface (compatible with USB100 adaptor)
- Datalogs up to 4500 readings when used as a sound level meter
- 407355-KIT-5 available (see left caption for details)

Model SL355 Additional Features

- USB interface; Datalogs up to 12,000 readings when used as a sound level meter
- SL355-KIT-3 available - includes three SL355, 407766 calibrator, and case

SPECIFICATIONS

Sound Level Range/Resolution	407355: 70 to 140dBA / 0.1dB SL355: 60 - 130 dB / 70 to 140dB (A/C Weighting); 60 to 130dB / 93 to 133dB (C or Z (Linear) Peak); 70 to 140dB / 103 to 143dB (C or Z (Linear) Peak)
Digital Display	LCD 0.01-9999%
Criterion/Threshold Level	80, 84, 85 or 90dB/ 70-90 (1db steps)
Response Rate/Exchange Rate	Fast or Slow/ 3, 4, 5 or 6 dB
High Level Detector/Peak Flag	115dB / 140dB (also 130db for SL355)
Battery Life	approx 34 hrs
Event Storage	407355: 5 surveys; SL355: 20 surveys
Dimensions/Weight	407355: 4.2x2.5x1.3" (106x64x34mm)/ 8oz (227g) incl. batteries SL355: 3.8x2x1.4" (97x51x35mm) 4.2oz. (120g) incl.batteries

ORDERING

407355 N	Noise Dosimeter/Datalogger
407355-KIT-5	Noise Dosimeter/Datalogger Kit
SL355 N	Noise Dosimeter/Datalogger
SL355-KIT-3	Noise Dosimeter/Datalogger
USB100	RS-232 to USB Adaptor

* Visit the product page at www.extech.com for a list of ANSI and IEC standards

407760 USB Sound Level Datalogger



CE



Features Record and Alarm LEDs, tripod, and USB connectivity



High accuracy datalogging of up to 129,920 records

- Designed to meet ANSI and IEC 61672 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 feature
- Complete with 3.6V Lithium battery, Windows® compatible software, USB cover, tripod, and windscreens; 1 year warranty

SPECIFICATIONS

Condenser Microphone	0.5" (12.7mm)
Range	30 to 130dB
Frequency Range	31.5 to 8kHz
Basic accuracy	±1.4dB
Weighting	A and C
Response Time	Fast (125ms)/Slow (1s)
Datalogging / PC Interface	129,920 points / USB
Dimensions/Weight	5.1x1.1x0.9" (130x30x25mm)/ 1 oz (20g)

ORDERING

407760 N	USB Sound Level Datalogger
42299	3.6V Lithium Battery (pk of 2)
TR100	Tripod



SL130G Sound Level Alert with Alarm

CE

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 30m (100ft)
- 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 (optional TR100 tripod — sold separately)
- Adjustable high/low limit indication with output to drive user's external relay module
- Microphone rotates 180° for desired placement. Optional 15ft (5m) microphone extension cable (SL125) for remote monitoring
- 1 year warranty
- Complete with universal AC adaptor and microphone wind screen

SPECIFICATIONS

Display	4.6 x 3.125" (117x79mm) multifunction LCD
Frequency bandwidth	31.5 Hz to 8 kHz
Microphone	0.5" Electret Condenser Microphone (detachable)
Measurement ranges	30 to 80dB, 60 to 110dB, 80 to 130dB
Frequency weighting	'A' and 'C'
Response time	Fast: 125ms / Slow: 1s
Resolution	0.1dB
Alarm output	3.5mm Mono Phone Plug, Maximum: 3.4mA @ 5 VDC
Minimum Output	Voltage: 2.5 VDC
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. (22x18x3.2cm / 285g)

ORDERING

SL130G <small>N</small>	Sound Level Alert
SL125	Remote Microphone cable 15' (5m)
TR100	Tripod
407766 <small>N</small>	Sound Level Calibrator, 94/114dB

407790 Real Time 1/3 Octave Band Analyzer

Type 2 integrating sound level meter with Octave and 1/3 Octave Band Real Time display on 160x160 dot matrix backlit LCD

- Stores 12,280 records in SLM mode and 1024 points in 1/1 or 1/3 octave mode
- Transferred data to a PC to be analyzed using software and cable provided
- A, C, Flat weighting; Fast/Slow response time
- Detachable 0.52" (13.2mm) 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

SPECIFICATIONS

Applicable standards	ANSI S1.4 Type 2, EN IEC 60651, EN IEC 60804, and EN IEC 1260-1995
Accuracy	±1.5dB (ref 94dB @ 1kHz)
Measurement range/function	30dB to 130dB / La, Lc, Lp, Leq, LE, Lmax, Lmin
Frequency range	25Hz ~ 10kHz
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	30 to 130dB
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: 2 Vrms (at full scale); DC output: 10mVDC/dB
Dimensions/Weight	13.6x3.9x2.4" (345x100x60mm)/ 33.5oz (950g)

ORDERING

407790 <small>N</small>	Octave Band Sound Analyzer
407764-EXT	15ft (4.7m) Microphone Extension Cable
USB100	RS-232 to USB Adaptor



Complete with Windows® compatible software, Serial cable, 4 x C batteries, microphone wind screen, mini screwdriver, 120V AC adaptor, and case. See p. 120 for 220-240V Adaptor; 1 yr warranty; Optional 94/114dB calibrator (see 407766 on p. 118)

CE

Rev Up Your Diagnostics

Measure RPM, surface speed, and revolution counts with Extech's wide range of tachometers. Models include contact, non-contact and combination models, as well as compact, stroboscope and panel-mount versions.



461337



461990



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 1.5V AA batteries, and carrying case

461893 Non-contact Photo Tachometer

Non-contact RPM measurements using visible light

- Make non-contact rpm measurements of rotating objects
- Use reflective tape on object to be measured and point the integral light beam
- Integral light beam has an ideal measurement range up to 6" (152mm) distance
- Readings updated every second
- Recalls Last/MAX/MIN values
- Complete with 23" (0.6m) reflective tape, four 1.5V AA batteries, and carrying case

ACCESSORIES

461937 Reflective Tape - Ten reflective tape strips: 23x0.25" (584x6mm) ea. strip

461990 Contact Wheels - 2 sets of cone tip, flat tip, and spare wheel



NIST traceable certificate with data is available when you order your meter with Certificate Traceable to NIST. Look for this symbol **N** on products that offer NIST.



SPECIFICATIONS

461891 **N**

461893 **N**

rpm	0.5 to 20,000	5 to 99,999
ft/min	0.2 to 6560	—
m/min	0.05 to 1999.9	—
Basic Accuracy	±0.05%rdg	±0.05%rdg
Max rpm Resolution	0.1rpm	0.1rpm
Laser	—	—
Temperature (IR)	—	—
CE approved	Yes	Yes
Dimensions	6.7x2.8x1.5" (170x27x37mm)	6.7x2.8x1.5" (170x27x37mm)
Weight	9.2oz (260g)	8.8oz (250g)
Warranty	1 year	1 year



461895 Combination Contact/Photo Tachometer

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

- Characters on display reverse direction depending on contact or photo mode
- Uses visible light to read up to 6" (150mm) from target
- 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 1.5V AA batteries, 23" (0.6m) reflective tape, and carrying case



461995 Combination Contact/Laser Photo Tachometer

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

- Characters on display reverse direction depending on contact or photo mode
- Laser guided for greater distance non-contact measurements up to 6.5ft (2m)
- 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 1.5V AA batteries, 23" (0.6m) 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 6.5ft (2m)
- 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 1.5V AA batteries, reflective tape, and carrying case

461895 N

Photo: 5 to 99,999 / Contact: 0.5 to 19,999	Photo: 10 to 99,999 / Contact: 0.5 to 19,999	Photo: 10 to 99,999 / Contact: 0.5 to 20,000	SPECIFICATIONS
0.2 to 6560	0.2 to 6560	0.2 to 6560	rpm
0.05 to 1999.9	0.05 to 1999.9	0.05 to 1999.9	ft/min
±0.05%rdg	±0.05%rdg	±0.05%rdg	m/min
0.1rpm	0.1rpm	0.1rpm	Basic Accuracy
—	Yes	Yes	Max. rpm Resolution
—	—	-4 to 600°F (-20 to 315°C)	Laser
Yes	Yes	Yes	Temperature (IR)
8.5x2.6x1.5" (216x66x38mm)	8.5x2.6x1.5" (216x66x38mm)	8.5x2.6x1.5" (216x66x38mm)	CE approved
10.6oz (300g)	10.6oz (300g)	10.6oz (300g)	Dimensions
1 year	1 year	1 year	Weight
			Warranty

461995 N

Photo: 5 to 99,999 / Contact: 0.5 to 19,999	Photo: 10 to 99,999 / Contact: 0.5 to 19,999	Photo: 10 to 99,999 / Contact: 0.5 to 20,000	SPECIFICATIONS
0.2 to 6560	0.2 to 6560	0.2 to 6560	rpm
0.05 to 1999.9	0.05 to 1999.9	0.05 to 1999.9	ft/min
±0.05%rdg	±0.05%rdg	±0.05%rdg	m/min
0.1rpm	0.1rpm	0.1rpm	Basic Accuracy
—	Yes	Yes	Max. rpm Resolution
—	—	-4 to 600°F (-20 to 315°C)	Laser
Yes	Yes	Yes	Temperature (IR)
8.5x2.6x1.5" (216x66x38mm)	8.5x2.6x1.5" (216x66x38mm)	8.5x2.6x1.5" (216x66x38mm)	CE approved
10.6oz (300g)	10.6oz (300g)	10.6oz (300g)	Dimensions
1 year	1 year	1 year	Weight
			Warranty

RPM10 N

Photo: 5 to 99,999 / Contact: 0.5 to 19,999	Photo: 10 to 99,999 / Contact: 0.5 to 19,999	Photo: 10 to 99,999 / Contact: 0.5 to 20,000	SPECIFICATIONS
0.2 to 6560	0.2 to 6560	0.2 to 6560	rpm
0.05 to 1999.9	0.05 to 1999.9	0.05 to 1999.9	ft/min
±0.05%rdg	±0.05%rdg	±0.05%rdg	m/min
0.1rpm	0.1rpm	0.1rpm	Basic Accuracy
—	Yes	Yes	Max. rpm Resolution
—	—	-4 to 600°F (-20 to 315°C)	Laser
Yes	Yes	Yes	Temperature (IR)
8.5x2.6x1.5" (216x66x38mm)	8.5x2.6x1.5" (216x66x38mm)	8.5x2.6x1.5" (216x66x38mm)	CE approved
10.6oz (300g)	10.6oz (300g)	10.6oz (300g)	Dimensions
1 year	1 year	1 year	Weight
			Warranty

461920 Mini Laser Photo Tachometer Counter



CE



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
- 1 year warranty
- Complete with 9V battery and reflective tape

SPECIFICATIONS

RPM range	2 to 99,999 rpm
Count range	1 to 99,999 rev (revolution)
Target Distance	1.6ft (500mm)
Basic Accuracy	±0.05%
Resolution	0.1rpm, 1 count
Dimensions/Weight	6.2x2.3x1.6" (160x60x42mm)/5.3oz (151g)

ORDERING

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

RPM33 Mini Combination Contact/Laser Photo Tachometer

Quickly measure RPM, surface speed and length with one tool. Use the contact wheel for up-close readings or laser mode for safer, non-contact measurements up to 1.6ft (0.5m) away.

- Large 5 digit backlit LCD display
- Microprocessor based with quartz crystal oscillator to maintain high accuracy
- Store/recall 10 data sets in memory with 4 parameters (measurement, max, min and average)
- Provides wide RPM (photo and contact) and Linear Surface Speed/Length (contact) measurements
- Laser guided for greater distance non-contact measurements up to 1.6ft (500mm)
- Complete with contact wheel for rpm or linear surface speed/length, 9V battery, reflective tape and soft case; 1 year warranty

SPECIFICATIONS

Range (rpm)	2 to 99,999 rpm	2 to 20,000 rpm
Surface Speed	—	0 to 78,720 inches/min
	—	0 to 6560 ft/min
	—	0 to 2186 yards/min
	—	0 to 2000 m/min
Length	—	3.9 to 39370 inches
	—	0.3 to 3280 feet
	—	0.1 to 1093 yards
	—	0.1 to 1000 meters
Frequency (Hz)	—	333 Hz
Accuracy	0.05% rdg + 1 digit	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	6.2 x 2.3 x 1.6" (160 x 60 x 42 mm)	/ 5.3oz (151g)

ORDERING

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



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" (10mm) 5 digit LCD display and memory stores Last/MAX/MIN readings
- Complete with four 1.5V AA batteries, reflective tape, and case; 1 year warranty

SPECIFICATIONS	PHOTO TACHOMETER (RPM)	STROBOSCOPE (FPM/RPM)
Range	5 to 99,999	100 to 100,000
Accuracy	±0.1%rdg	±0.1%rdg
Sampling Time	1 Sec ≥ 60rpm;	1 Sec ≥ 60rpm;
Resolution	0.1rpm (<1,000rpm), 1rpm (≥1,000rpm)	0.1fpm (<1,000fpm), 1fpm (≥1,000fpm)
Dimensions/Weight	8.5x2.6x1.5" (215x65x38mm) / 10.6oz (300g)	±0.1%rdg

Ordering

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

461830/461831 Digital StroboTach



461834

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 10,000fpm/rpm; Basic accuracy of ±0.05% rdg
- Duty Cycle of 5 to 30mins
- Tripod mount for stationary use
- Dimensions/Weight: 8.3x4.8x4.8" (211x122x122mm)/2.2lbs (1kg)
- Complete with 6ft (1.9m) power cord and handle; 1 year warranty

ORDERING

461830	N	Digital StroboTach 115VAC, 60Hz
461831	N	Digital StroboTach 220VAC, 50Hz
461834		Spare Xenon Lamp (est life 300hrs), 2pk

461950 1/8 DIN Panel Tachometer


 461957
Photoelectric
461955
Proximity


CE

Continuous & accurate readings from 5 to 99,990rpm

- 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
- Choice of two sensor pickup types (both include 6ft/1.8m cable): Proximity sensor: 0.1" (3mm) target distance, range up to 36,000rpm (600Hz); Photoelectric sensor: 0.4" (10mm) target distance, range up to 6000rpm (100Hz)
- 1 year warranty

SPECIFICATIONS

rpm	5 to 99,990rpm
Basic accuracy	±0.05%
Resolution	0.1rpm (5 to 1000rpm), 1rpm (1000 to 9999rpm), 10rpm (10,000rpm to 99,990rpm)
Power	115V or 230V AC; 50/60Hz
Dimensions/Weight	Bezel 3.8x1.9x2.4" (96x48x60mm); Panel cutout 3.6x1.8" (92x45mm) Meter 3.6x3.5x1.7" (92x90x42mm) 14oz (397g)
Sampling Time	1sec>60rpm, >1sec>10 to 60rpm
Dimensions/ Weight	4.9x2x1.3" (124x50x33mm)/ 4oz (114g)

ORDERING

461950	N	1/8 DIN Panel Mount Tachometer
461955		Proximity Sensor, max. 36,000rpm
461957		Photoelectric Sensor, max. 6000rpm

HDV600 Series High Definition VideoScope Inspection Cameras



Narrow diameter cameras with 5.7" High Definition Color LCD Monitor deliver high image and video resolution on large color display

- The HDV600 Series VideoScope has various camera probes to fit your application needs. Choose from a range of sizes with articulating or wireless features.
- 5.7" color LCD TFT — high definition 640x480 pixels resolution
- Waterproof (IP67) meter and camera head (IP57) with cable
- Bright white LED lamps with dimmer to illuminate viewed object
- Glare-free close-up field of view and 6" (15.2cm) minimum focus distance
- 2G SD memory card included to store >14,600 images
- Video recording (up to 4 hours) with Voice annotation
- Video and images can be transferred via the SD card, USB output or AV out
- An optional wireless transmitter (HDV-WTX) connects to your camera cable and allows you to transmit video up to 100ft (30m)
- 1 year warranty
- Complete with SD memory card, 3.7V rechargeable Li-Polymer battery, AC adaptor, USB and AV cables, camera with cable, and case



Camera Tip features built-in LED lights



HDV-WTX Wireless Transmitter allows measurements up to 100ft (30m) away

Model HDV610

- VideoScope with 5.5mm diameter camera head (1m flexible cable)

MODEL HDV620

- VideoScope with 5.8mm diameter camera head (1m semi-rigid cable retains configured shape)

Model HDV640 & HDV640W

- VideoScope with 6mm diameter camera head (1m semi-rigid cable retains configured shape)

- Easy knob control of the articulating camera tip facilitates viewing in obstructed areas where standard camera tips cannot access.

- 240° camera probe rotation (from straight position, 120° left and 120° right)

MODEL HDV640W

- Built-in wireless transmitter in camera cable controller allows you to transmit video up to 100ft (30m) from the measurement point to your monitor



HDV650 Series — High Definition Plumbing VideoScope Inspection Cameras

Plumbing VideoScope Kits utilized the HDV600 color LCD monitor. From drains to pipe runs, these kits reveal problems with its large, waterproof, rugged, high definition color display and a 10m or 30m snake with 25mm diameter camera head. Built-in bright lights help illuminate the problem area deep within the pipe runs. The camera probe is rugged enough to dislodge small clogs. Ideal for inspecting P-traps, 90s, drains, pipe runs, sewers, vent stacks and more. Available in a wireless kit that allows you to transmit video up to 100ft (30m) from the measurement point to your monitor.

HDV650 Kits:

- **HDV650-10G** includes HDV600 and 10m fiberglass cable spool assembly
- **HDV650W-10G** includes HDV600, 10m fiberglass cable spool assembly and wireless transmitter
- **HDV650-30G** includes HDV600 and 30m fiberglass cable spool assembly
- **HDV650W-30G** includes HDV600, 30m fiberglass cable spool assembly and wireless transmitter



NEW



Articulating (6mm diameter) camera tip adjusts up to 240° viewing angle.

Watch the
Video
www.extech.com/video



Drop-proof and Waterproof housing meets IP67 standards.

Macro (Short Focal Length) Lenses permit you to examine features and attributes that are up-close to the optical camera tip as illustrated above. **Long Focus Lenses** permit you to see further in confined areas.



Unlimited Inspection Uses:

- Home:** Mold, insect infestation, electrical wire or plumbing
- HVAC:** Ducts, motors, compressors, air movers, and chillers
- Automotive:** Engines, transmissions, motors, electronics

Government: Safety and security

Industrial: Welding, process equipment, gears, molding machines

Aerospace: Aircraft, debris, cracks or other damages

And more...

ORDERING

Video Inspection Camera Kits

HDV610	High Definition VideoScope (5.5mm diameter camera/1m flexible cable)
HDV620	High Definition VideoScope (5.8mm diameter camera/1m semi-rigid cable)
HDV640	High Definition Articulating VideoScope (6mm diameter camera/1m semi-rigid cable)
HDV640W	High Definition Wireless Articulating VideoScope (6mm diameter camera /1m semi-rigid cable)
HDV650-10G	Plumbing VideoScope Kit (25mm camera head w/10m Fiberglass Cable)
HDV650W-10G	Wireless Plumbing VideoScope Kit (25mm camera head w/10m Fiberglass Cable)
HDV650-30G	Plumbing VideoScope Kit (25mm camera head w/30m Fiberglass Cable)
HDV650W-30G	Wireless Plumbing VideoScope Kit (25mm camera head w/30m Fiberglass Cable)

Video Inspection Monitor (order camera head separately from accessories list below)

HDV600	High Definition VideoScope (meter only)
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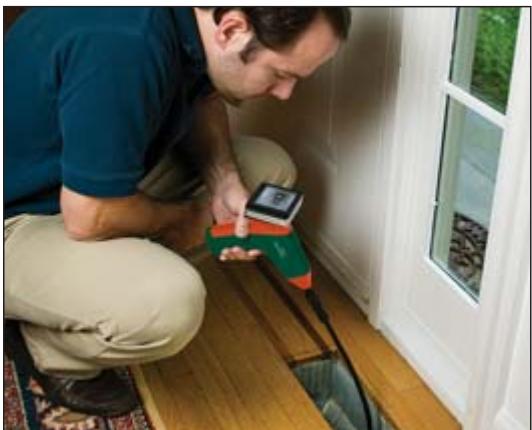
Optional Camera Heads

HDV-TX1	6mm Articulating VideoScope Camera Head with Macro lens and 1m Semi-Rigid Cable
HDV-TX1L	6mm Articulating VideoScope Camera Head with Long Focus lens and 1m Semi-Rigid Cable
HDV-WTX1	6mm Wireless Articulating VideoScope Camera Head w/Macro lens and 1m Semi-Rigid Cable
HDV-WTX1L	6mm Wireless Articulating VideoScope Camera Head w/Long Focus lens and 1m Semi-Rigid Cable
HDV-TX2	6mm Articulating VideoScope Camera Head w/Macro lens and 2m Semi-Rigid Cable
HDV-TX2L	6mm Articulating VideoScope Camera Head w/Long Focus lens and 2m Semi-Rigid Cable
HDV-WTX2	6mm Wireless Articulating VideoScope Camera Head w/Macro lens and 2m Semi-Rigid Cable
HDV-WTX2L	6mm Wireless Articulating VideoScope Camera Head w/Long Focus lens and 2m Semi-Rigid Cable
HDV-4CAM-5FM	4mm VideoScope Camera Head with Macro lens and 5m Flexible Cable
HDV-5CAM-1FM	5.5mm VideoScope Camera Head with Macro lens and 1m Flexible Cable
HDV-5CAM-3F	5.5mm VideoScope Camera Head with long depth of field and 3m Flexible Cable
HDV-5CAM-3FM	5.5mm VideoScope Camera Head with Macro lens and 3m Flexible Cable
HDV-5CAM-30FM	5.5mm VideoScope Camera Head with Macro lens and 30m Flexible Cable
HDV-5CAM-10F	5.5mm VideoScope Camera Head with long depth of field and 10m Flexible Cable
HDV-25CAM-10G	25mm VideoScope Camera Head with long depth of field and 10m Fiberglass Cable
HDV-25CAM-30G	25mm VideoScope Camera Head with long depth of field and 30m Fiberglass Cable
HDV-WTX	Wireless Transmitter
HDV-PC	Spare Patch Cable for HDV Series
ADPTR-HDV	Replacement AC Adaptor
BRD10	Wireless USB Video Receiver



BRD10 - Optional Wireless USB Video Receiver allows user to stream live video to a PC and it can also be remotely viewed via VOIP connection.

BR200/BR250 Video Borescope/Wireless Inspection Cameras



3.5" Color Detachable Wireless LCD Monitor can be viewed from a remote location up to 32ft (10m) from measurement point

- Captured video with date/time stamp can be played back on the wireless monitor or on any monitor with a video input jack
- Video and images can be transferred to a PC via microSD card or USB cable and viewed using Windows® Multimedia Player
- Waterproof (IP67) flexible gooseneck retains configured shape
- NTSC operation with menus in 10 languages
- Close-up field of view; 1 year warranty
- Includes 4 AA batteries, rechargeable display battery, memory card with adaptor, USB cable, extension tools (mirror, hook, magnet) video interconnect cable, AC adaptor, magnetic base stand, and hard case
- **Model BR200** —17mm diameter camera head with built-in two bright LED lamps with dimmer and 39" (1m) flexible gooseneck cable
- **Model BR250** — 9mm diameter camera head with built-in four bright LED lamps with dimmer and 36" (0.9m) flexible gooseneck cable



BRD10 Wireless USB Video Receiver
Optional Wireless USB Video Receiver allows user to stream live video from your Video Borescope to a PC and it can also be viewed remotely via VOIP connection.



Detachable wireless 3.5" color display can be viewed remotely from up to 32ft (10m). Camera features built-in LED lights.

SPECIFICATIONS

Camera Pixels	BR200: 712x486 (NTSC) / BR250: 640 x 480 (NTSC)
Transmission Frequency/ Range	2468MHz/ 32ft (10m) unobstructed view
Camera Viewing direction	BR200: Viewing Angle 50° / BR250: Viewing Angle 45°
Camera Viewing distance	5.9 to 9.8" (15 to 25cm)
LCD Screen Type/ Pixels	3.5" TFT/ 320 x 240
Monitor Video Output Level	0.9 to 1.3V@75Ω
Monitor Video/Image Resolution	960 x 240 (AVI format)/640 x 480 (JPEG format)
Operating/Charge Time	1.5hrs/3hrs
Dimensions/Weight	Camera: 7.3x5.7x1.6" (186x145x41mm)/18.7oz (530g) Monitor: 3.9x2.7x1" (100x70x25mm)/4.9oz (140g)

ORDERING

BR200	Flexible Video Borescope (17mm diameter/1m cable)
BR250	Flexible Video Borescope (9mm diameter/1m cable)
BRD10	Wireless USB Video Receiver
BR200-EXT	Borescope Extension Cable (19mm diameter/0.9m cable)
BR-4CAM	4.5mm Borescope Camera Head with 1m Cable
BR-5CAM	5.8mm Borescope Camera Head with 1m Cable
BR-9CAM	9mm Borescope Camera Head with 1m Cable
BR-9CAM-2M	9mm Borescope Camera Head with 2m Cable
BR-9CAM-5M	9mm Borescope Camera Head with 5m Cable
BR-17CAM	17mm Borescope Camera Head with 1m Cable
BR-17CAM-2M	17mm Borescope Camera Head with 2m Cable
BR-17CAM-5M	17mm Borescope Camera Head with 5m Cable
UA100-BR	Universal AC Adaptor

Note: Recommended up to two BR200-EXT connected to a Borescope to maintain resolution)



BR100/BR150 Video Borescope Inspection Cameras



9mm or 17mm camera diameter and 2.4" Color TFT LCD Monitor with video output for viewing on any monitor with a video input jack

- 39" (1m) flexible gooseneck cable retains configured shape
- Mini water-proof (IP67) camera head for high resolution viewing
- Display detaches for easy storage
- 1 year warranty
- Complete with camera head with cable, 4 AA batteries, extension tools (mirror, hook, magnet), video output jack, and hard case
- Optional BR200-EXT extension cable & accessories available

Model BR100 Additional Features

- 17mm camera diameter with 2 bright LED lamps and dimmer feature

Model BR150 Additional Features

- 9mm camera diameter with 4 bright LED lamps with and dimmer feature

SPECIFICATIONS

Camera

Viewing direction	BR100: Viewing Angle 50°; BR150: Viewing Angle 45°
Focus distance from object	5.9" to 9.8" (15 to 25cm)
Minimum bend radius	2.36" (60mm)
Dimensions/Weight	7.3 x 5.7 x 1.6" (186 x 145 x 41mm)/18.7oz (530g)

Monitor

LCD Screen Type	2.4" TFT
Pixels	480 x 234
Operating	1.5 hours
Dimensions/ Weight	3.9 x 2.7 x 1.8" (100 x 70 x 30mm)/ 4.9oz (140g)

ORDERING (SEE P. 124 FOR CAMERA HEADS WITH LONGER CABLE LENGTHS)

BR100	Flexible Video Borescope (17mm diameter/1m cable)
BR150	Flexible Video Borescope (9mm diameter/1m cable)
BR-5CAM	5.8mm Borescope Camera Head with Cable
BR-9CAM	9mm Borescope Camera Head with Cable
BR-17CAM	17mm Borescope Camera Head with Cable
BR200-EXT	Borescope Extension Cable (19mm diameter/0.9m cable)

(Note: Recommended up to two BR200-EXT connected to a Borescope to maintain resolution)



CE

BR80 Video Borescope Inspection Camera



17mm camera diameter with 39" (1m) flexible gooseneck cable retains configured shape and 2.4" Color TFT LCD Monitor

- Water-proof (IP67) camera head and cable with lightweight, handheld design housing to easily find, diagnose, and solve problems
- Four bright LED lamps with dimmer to illuminate viewed object
- Glare-free close-up field of view
- Vivid 2.4" color LCD monitor for detailed images plus 180° image rotation feature
- Optional BRC-EXT extension cable available for increasing viewing depth; 19mm diameter connector and 37.5" (0.95m) cable length (including connectors); maximum 2 extension cables can be connected to the borescope
- Complete with 17mm camera probe with cable, 4 AA batteries, and extension tools (mirror, hook, and magnet); 1 year warranty

ORDERING

BR80	Video Borescope Inspection Camera
BRC-17CAM	17mm Borescope Camera Head with Cable
BRC-EXT	Borescope Extension Cable (19mm diameter/0.9m cable)

(Note: Recommended up to two BRC-EXT connected to a Borescope to maintain resolution)

BR300/BR350 Waterproof Borescope/Inspection Cameras



Waterproof IP67

Waterproof (IP67), completely submersible in water down to 1 meter for 1hr plus built-in bright LED lamps illuminate dimly lit areas

- Lightweight, handheld design for quick, easy, on-the-spot viewing in small openings
- **Model BR300** — Borescope with 8mm diameter camera head with four bright LED lamps with dimmer
- **Model BR350** — Borescope with 5.5mm diameter camera head with two bright LED lamps with dimmer
- Built-in waterproof 39" (1m) flexible gooseneck cable retains configured shape
- 2.7" (68mm) color TFT LCD monitor for detailed images
- 2x digital zoom for close-up viewing
- 180° image rotation on screen
- Glare-free, close-up field of view
- Complete with camera probe and 39" (1m) flexible cable, 4 AA batteries, and case; 1 year warranty

SPECIFICATIONS	BR300	BR350
Camera Shaft Diameter;	0.31" (8mm) diameter;	0.22" (5.5mm) diameter;
Cable Length	39" (1m) cable	39" (1m) cable
Focus Distance from Object	0.8 to 2.75" (2 to 7cm)	0.4 to 1.6" (1 to 4cm)
LED lamps	4 LEDs with dimmer	2 LEDs with dimmer
Camera resolution	640 x 480 pixels	320 x 240 pixels
COMMON FEATURES		
Camera Viewing Direction	Viewing Angle 60°	
Minimum Bend Radius	1.2" (30mm)	
Camera Zoom	2x Digital	
LCD Screen Type / Pixels	2.7" (68mm) color TFT / 960 x 240 pixels	
Waterproof	IP67 rating (1 meter for 30 minutes)	
Battery life (continuous use)	Approx 3-4 hours (low battery indication)	
Dimensions/Weight (w/o batteries)	9.8x3.7x1.7" (249x94x43mm) / 13.4oz (380g)	

ORDERING

BR300	Waterproof Borescope/Inspection Camera (8mm diameter/1m cable)
BR350	Waterproof Borescope/Inspection Camera (5.5mm diameter/1m cable)



BR50 Video Borescope/Camera Tester



17mm camera diameter and 2.4" Color TFT LCD Monitor also tests installed surveillance cameras for correct target alignment

- 39" (1m) flexible gooseneck cable retains configured shape
- Mini water-proof (IP57) camera head for high resolution viewing
- Four LED lamps with five brightness levels illuminate the viewed object
- Close-up field of view with 480 x 234 pixel display
- Automatically detects NTSC and PAL cameras
- Switches to standby mode when no input is connected
- Battery can be recharged via the built-in USB port using the included AC adaptor/charger or a USB port on your PC
- Complete with rechargeable Lithium battery and Universal AC adapter/charger with USB cable; 1 year warranty

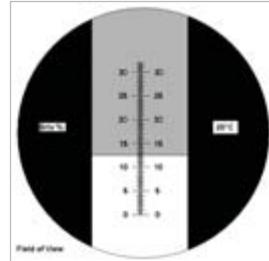
ORDERING

BR50	Video Borescope/Camera Tester
BRC-17CAM	17mm Borescope Camera Head with Cable
BCR-EXT	Borescope Extension Cable (19mm diameter/0.9m cable)

(Note: Recommended up to two BRC-EXT connected to a Borescope to maintain resolution)



RF Series Portable Brix Refractometers



Scale view through eyepiece

Measure the concentration of Sugar, Salt or industrial cutting/cooling lubricants

- Accurate, easy to operate refractometers with simple to read scales
- Automatic Temperature Compensation (RF11, RF12, RF15 and RF20 models)
- Requires only 2 or 3 drops of solution
- The prism and lens with a simple focus adjustment provide repeatable results
- Complete with case, calibration screwdriver, and calibration solution; 1 yr warranty

Sucrose (RF10, RF11, RF15, RF16, and RF18)

- Measure the concentration of sugar in fruit juice and industrial fluids

Brix (RF12 and RF18)

- Maintain proper lubricant cooling concentration to extend equipment life

Salinity (RF20)

- Measures the concentration of dissolved salt in water

General Purpose Brix (RF30)

- Triple Range: 0 to 42% Brix, 42 to 71% Brix, 71 to 90% Brix

SPECIFICATIONS	TYPE	RANGES	RESOLUTION	ACCURACY
RF10	Sucrose	0 to 32% Brix	0.2	±0.2%
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%
RF16	Sucrose	0 to 10% Brix	0.1	±0.1%
RF18	Brix (Lubricants)	0 to 18% Brix	0.1%	±0.2%
RF20	Salt (ATC)	0 to 100ppt (10 to 30°C) 1.000 to 1.070 Specific Gravity	1ppt 0.001	±0.1% ±0.001
RF30	Triple Range General Service	0 to 42% Brix, 42 to 71% Brix, 71 to 90% Brix	0.2	±0.2%

ORDERING

RF10	0 to 32% Brix Refractometer - Dims/Wt: 6.6x1.3x1.3" (168x32x32mm)/ 3.2oz (91g)
RF11	0 to 10% Brix Refractometer with ATC - Dims/Wt: 7.5x1.6x1.2" (190x40x30mm)/ 6.5oz (185g)
RF12	0 to 18% Brix Refractometer with ATC - Dims/Wt: 6.7x1.6x1.2" (170x41x31mm)/ 3.2oz (91g)
RF15	0 to 32% Brix Refractometer with ATC - Dims/Wt: 6.3x1.4x1.4" (159x35x35mm)/ 7oz (200g)
RF16	0 to 10% Brix Refractometer - Dims/Wt: 7.5x1.6x1.2" (190x40x30mm)/ 6.5oz (185g)
RF18	0 to 18% Brix Refractometer - Dims/Wt: 6.7x1.6x1.2" (170x41x31mm)/ 3.2oz (91g)
RF20	Salinity Refractometer with ATC - Dims/Wt: 7.6x1.5x1.5" (194x38x38mm)/ 8oz (227g)
RF30	Triple Range General Service (0 to 90% Brix) Refractometer - Dims/Wt: 7.9x1.5x1.1" (200x38x28mm)/ 21.86oz (620g)

RF40/RF41 Battery Coolant/ Glycol Refractometer



Measure the % of Ethylene Glycol and Propylene Glycol

- Measures the freezing point of automotive coolants plus battery charge condition
- Provide accurate and repeatable measurements of % Ethylene Glycol and Propylene Glycol and °F on easy to read scale
- Automatic Temperature Compensation
- Requires only 2 or 3 drops of solution
- Complete with case, calibration screwdriver, and calibration solution; 1 yr warranty

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" (165x38x38mm)/ 7oz (200g)		

ORDERING

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

VB500 4-Channel Vibration Meter/Datalogger



Includes 4 remote vibration sensors with magnetic adapter on 39" (1m) cable, 8 x AA batteries, SD card, 100-240V Universal AC Adaptor and durable hard case; 1 yr warranty

CE

Simultaneously displays four channels

- Adjustable data sampling rate: 5 to 600 seconds
- Wide frequency range of 10Hz to 1kHz
- RMS or Peak Value measurement modes
- Datalogs 20 Million readings with date/time stamps via a 2G SD card in Excel® format for easy transfer to a PC
- Data Hold and Auto power off functions

SPECIFICATIONS

Acceleration	656ft/s ² , 200m/s ² , 20.39g (peak)
Velocity	7.87in/s, 200mm/s, 19.99cm/s (peak)
Displacement	0.078in, 2mm (peak-to-peak)
Resolution	1ft/s ² , 0.1m/s ² , 0.01g; 0.01in/s, 0.1mm/s, 0.01cm/s; 0.001in, 0.001mm
Basic accuracy	±5%
Dimensions/ Weight	Meter: 8 x 3 x 1.5" (203 x 76 x 38mm)/ Meter: 1.13lbs (515g)

ORDERING

VB500	N	4-Channel Vibration Meter/Datalogger
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SDL800 Vibration Meter/Datalogger



Includes remote vibration sensor with magnetic adapter on 47.2" (1.2m) cable, 6 x AA batteries, SD card, and hard case; 3 year warranty. Optional AC Adaptor UA100-240 and PC software 407001 (see p. 112)

CE

Datalogs 20 Million readings with date/time stamps via 2G SD card in Excel® format for easy transfer to a PC

- Adjustable data sampling rate: 1 to 3600 second (1 hour)
- Wide frequency range of 10Hz to 1kHz
- RMS, Peak Value or Max Hold measurement modes
- Min/Max, Zero, Data Hold and Auto power off functions

SPECIFICATIONS

Acceleration	656ft/s ² , 200m/s ² , 20.39g
Velocity	7.87in/s, 200mm/s, 19.99cm/s
Displacement	0.078in, 2mm (peak-to-peak)
Resolution	1ft/s ² , 0.1m/s ² , 0.01g; 0.01in/s, 0.1mm/s, 0.01cm/s; 0.001in, 0.001mm
Basic accuracy	±5%
Dimensions/ Weight	Meter: 7.2x2.9x1.9" (182X73X48mm)/Meter: 1.3lbs (599g)

ORDERING

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

407860 Heavy Duty Vibration Meter



Includes remote sensor with 3.9ft (1.2m) cable, magnetic mount, 9V battery, holster with stand and case; Optional PC software 407001 (see p. 112). 3 year warranty.

CE

Measure Velocity, Acceleration and Displacement plus built-in PC interface

- Frequency range: 10Hz to 1kHz
- RMS or Peak Value measurement modes
- Auto/Manual store/recall up to 500 readings
- Max/Min, Data Hold and Auto Power off functions

SPECIFICATIONS

Acceleration	656ft/s ² or 200m/s ²
Velocity	7.87in/s or 200mm/s
Displacement	0.078in or 1.999mm
Resolution	2ft/s ² , 0.5m/s ² , 0.05g; 0.02in/s, 0.5mm/s, 0.05cm/s; 0.001in, 0.001mm
Basic accuracy	±5%
Dimensions/ Weight	Meter: 7.1x2.9x1.3" (180x72x32mm)/Meter: 0.87lbs (395g)

ORDERING

407860	Vibration Meter/Datalogger
156119	117VAC Adapter
156221	220VAC Adapter



461880 Vibration Meter + Laser Combination Tachometer



CE

Measures Acceleration, Velocity, Displacement, RPM and Surface Speed

- Unique large LCD displays characters on reverse direction depending on function
- Windows® compatible software (included) to analyze data on your PC
- Basic accuracy: Tachometer: $\pm(0.05\% \text{ rdg})$, Vibration: $\pm(5\% \text{ rdg})$
- Dimensions/Weight with Probe: 7.4x3x1.8" (188x75.5x46.8mm)/ 1.12lbs (507g)
- Include vibration sensor with 39" (1m) cable, magnetic mount, wheels (cone & flat tips), reflective tape, 4 AA batteries, software with cable, and hard case; 1yr warranty

Vibration Meter Functions and Features:

- Velocity (max res.): 7.87in/s (0.01in/s), 200mm/s (0.1mm/s), 19.99cm/s (0.01cm/s); Acceleration (max res.): 656ft/s² (1ft/s²), 200m/s² (0.1m/s²), 20.39g (0.01g)
- Displacement: 0.078in (0.001in), 2mm (0.001mm); Frequency: 10Hz to 1kHz
- RMS or Peak Value measurement modes
- Manual/Auto store/recall up to 1000 readings, Data Hold and Auto power off features

Tachometer Functions and Features:

- RPM ranges — Photo: 10 to 99,999rpm / Contact: 0.5 to 19,999rpm; Surface Speed: 0.2 to 6,560ft/min (0.05 to 1,999.9m/min)
- Uses a laser for greater distance non-contact measurements up to 4.9ft (1.5m)
- Stores Last, Max, and Min readings

ORDERING

461880

Vibration Meter + Laser Combination Tachometer

VB400 Pen Vibration Meter



Includes both test pin tip and magnetic base

CE

Measures RMS Acceleration and Velocity with metric and imperial units

- Ranges — Acceleration (RMS): 656ft/s², 20.39g, 200m/s²; Velocity (RMS): 7.87in/s, 2.00cm/s, 200mm/s; Frequency: 10Hz to 1kHz
- Resolution to 1ft/s²; 0.01g; 0.1m/s² and 0.02in/s; 0.01cm/s; 0.1mm/s
- Basic accuracy of $\pm 5\%$
- Zero adjustment, Data Hold, and Low battery indicator
- Water and dust resistant to IP65
- Dimensions: Meter: 6.9 x 1.6 x 1.3" (175 x 40 x 32mm); Weight: 0.53lbs (240g) Sensing Head: 0.4" dia x 1.9" (9mm dia x 30mm)
- 1 year warranty
- Complete with test pin tip, magnetic base, 4 x AAA batteries, and case

ORDERING

VB400

Pen Vibration Meter

VB300 3-Axis G-Force Datalogger



CE

Magnetized/Bolt-on
Mounting BaseUSB 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: 200Hz, Range: $\pm 18g$, Resolution: 0.00625g, Accuracy: $\pm 0.5g$; Bandwidth: 0 to 60Hz
- 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: 50mSec to 24 hours
- Manual/Programmable start modes and user-programmable alarm threshold
- Dimensions/ Weight: 3.7 x 1.1 x 0.8" (95 x 28 x 21mm)/ 1oz (20g)
- Complete with Magnetized/Bolt-on Mounting Base, 3.6V Lithium battery and Windows® compatible analysis software; 1 year warranty

ORDERING

VB300

3-Axis G-Force Datalogger

42299

3.6V Lithium Battery (pk of 2)

PRC30 Multifunction Process Calibrator



CE



NIST traceable certificate with data is available when you order your meter with Certificate Traceable to NIST. Look for this symbol **N** on products that offer NIST.

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
- 24V 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
- 1 year warranty
- Complete with test leads, alligator clips, Thermocouple calibration cable with subminiature connector, universal calibration cable with subminiature terminal, 100V-240V AC Universal Adaptor with 4 plugs, six 1.5V AA batteries, and hard carrying case

SPECIFICATIONS	DC SOURCE	DC MEASURE	BASIC ACCURACY
Current	0 to 24mA, -25% to +125%	0 to 50mA, -25% to +230%	±(0.01%+1d)
Voltage	0 to 2000mV, 0 to 20V	0 to 1999mV, 2 to 20V	±(0.01%+1d)
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	24V		±(10µV ± 1d)
Max. Load	1000Ω @ 24mA		
Dimensions/Wt	6.3x3.2x1.7" (159x80x44mm)/ 8.4oz (236g) - not including battery weight		

ORDERING

PRC30 **N** Multifunction Process Calibrator

PRC20 Multi-Type Calibrator Thermometer



CE

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
- 1 year warranty
- Complete with Thermocouple calibration cable with subminiature connectors, standard calibration cable with subminiature connectors, 100V-240V AC Universal Adaptor with 4 plugs, 6 x 1.5V 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	-10.00mV to +60.00mV	10µV ±1d
Dimensions/Wt	6.3x 3.2x 1.7" (159x80x44mm)/ 8oz (225g) - not including battery weight	

ORDERING

PRC20 **N** Calibrator Thermometer



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
- 1 year warranty
- Each meter includes test leads, alligator clips, 100V-240V AC Universal Adaptor with 4 plugs, six 1.5V AA batteries, and hard carrying case

PRC10 Additional Features

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

PRC15 Additional Features

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

SPECIFICATIONS

Source	Output 0 to 24mA current for loads up to 1000 ohms; Output 0 to 20V (PRC15 only)
Measure	0 to 50mA current signal; 0 to 19.99V (PRC15 only)
Power/Measure	Provides power (24VDC) to loop & measures current (PRC10 only)
Input/Output	Ranges and Display Resolution
	-25.0 to 125.0% (representing 0 to 24mA) 0.1%
	0 to 19.99mA 0.01mA
	0 to 24.0mA 0.1mA
	0 to 1999mV 1mV
	0 to 20.00V 10mV
Accuracy	± 0.01% ±1 digit
Dimensions/Weight	6.3x3.2x1.7" (159x80x44mm)/ 8.2oz (232g) - not including battery weight

ORDERING

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

412440-S Calibration Source Checker



Easy to use pocket checker for simulating Current Loops

- Pocket Checkers are easy to use and provide a quick and easy way for checking calibration of meters or controllers
- Instantly determine if your device needs calibration or if sensor needs to be replaced
- Sources three discrete current levels: 4mA, 12mA and 20mA
- Bright red LEDs indicate simulation output or battery status
- Accurate to 0.1mA
- Overload indication when load exceeds 240Ω
- Compact case features push button output selector switch
- Ideal for checking calibration and as a current source for setting up engineering units on a process indicator or controller
- Dimensions/ Weight: 3.5x2.3x1" (89x58.4x25.4mm)/ 10oz (283.5g)
- 1 year warranty

ORDERING

412440-S	N	Calibration Source Checker
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Perfect Timing

When is a stopwatch more than a stopwatch? When it is helping protect the lives of athletes.

Extech's exclusive HeatWatch with built-in heat index alarm is fast becoming standard-issue safety equipment for high school and college athletics coaches around the U.S. as a key part of new policies to monitor against heatstroke. Trust Extech for sports timing, industrial process optimization—and keeping cool.



HW30 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" (1m) lanyard and one 3V CR2032 battery



NIST traceable certificate with data is available when you order your meter with Certificate Traceable to NIST. Look for this symbol **N** on products that offer NIST.

SPECIFICATIONS

	HW30 N
Timing capacity	9hrs, 59mins, and 59secs
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" (79x66x21mm)
Weight	3oz (85g)
Warranty	1 year





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 hourly chime
- Split time and two competitor timer
- Calendar displays day, month, and date
- Water resistant housing is complete with LR44 battery and 39" (1m) neckstrap



365515 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 date
- Programmable alarm and hourly chime setting
- Water resistant housing is complete with LR44 battery and 39" (1m) neckstrap



365535 Decimal Stopwatch/Clock

User-selectable resolution of 1/100th of a second, 1/1000th of a minute and 1/100,000th of an hour
Large triple display with adjustable contrast

- 1/100th second precision
- 500 memory records of Split and Lap times
- Calendar displays day, month and date
- Time of day with daily alarm
- 12 or 24 hour clock format
- 3 Mode Countdown timer: count down stop, count down repeat, count down then count up
- Stroke measurement
- Pacer from 5 to 240 beeps per minute
- Water resistant housing
- Complete with CR2032 lithium battery and 39" (1m) neckstrap

365510 N

23hrs, 59mins and 59.99secs

±3 seconds/day

Yes

—

—

—

—

Yes

2.3x2.8x0.5" (57x70x15mm)

2oz (50g)

1 year

365515 N

23hrs, 59mins and 59.99secs

±3 seconds/day

Yes

—

—

—

—

Yes

2.3x2.8x0.5" (57x70x15mm)

2oz (50g)

1 year

365535 N

19hrs, 59mins and 59.99secs

±5 seconds/day

Yes

3 Modes

500 laps

—

—

Yes

2.5x3.2x0.8" (64x81x20mm)

2.7oz (77g)

1 year

TKG Series Ultrasonic Thickness Testers



TKG250 Color Screen displays



All models include 2oz bottle of couplant, 2 AA batteries, Transducer (5MHz, 0.375" diameter) with potted cable, and hard case, plus a certificate of calibration to NIST. TKG150 and TKG250 also include protective holster, USB cable, and Extech XPorter software.; 2 year warranty



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

- Wide measurement range: 5MHz probe: 0.040" to 20" of steel; 10MHz probe: 0.020" to 20" of steel (optional)
- 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
- On screen display of 8 languages
- 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

Model TKG250 Additional Features

- Color LCD display shows red, yellow and green visual alarm indication
- Live Waveform (A-scan for thickness verification)
- File compare feature as a real time corrosion monitor
- Dynamic change of waveform color on alarm
- Grid review of saved readings
- Echo to Echo option to ignore coatings
- 100K internal datalogger with export to Excel
- B-scan (visual cross section of test piece)
- Vibrating alarm indication

SPECIFICATIONS

Thickness (Steel)	5MHz probe: 0.040 to 20" (1.0 to 508mm); 10MHz probe: 0.020 to 20" (0.50 to 508mm)		
Material velocity calibration range	0.200 to 0.7362 in/ μ s (0.508 to 18.699mm/ μ s)		
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; illuminates flashing display and keypad; and vibration feedback (only on the TKG150/TKG250 models)		
Illuminating Keypad	F1 = Red, F2 = Yellow, F3 = Green for easy, go/no-go testing		
Additional Functions	TKG100	TKG150	TKG250
Gain - Variable adjustment	—	Low, Standard, High	In 1dB steps from 20-90dB or Automatic Gain Control (AGC) for waveform
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.	
Range	—	—	Adjustment of manual range control or auto zoom tracking to center echoes independent of selected range
Rectification Modes	—	—	RF, Half Wave Positive, Half Wave Negative and Full Wave Rectification
Live Waveform (A-Scan)	—	—	Full adjustments for gain in 1dB step or AGC, main bang blank, blank after first received echo, range including zoom auto tracking to center echoes independent of material and rectification
Battery Life	Up to 50 hrs (20hrs with backlighting)		8 to 14hrs (depends on operating conditions)

ORDERING

TKG100	Digital Ultrasonic Thickness Gauge
TKG150	Digital Ultrasonic Thickness Gauge/Datalogger
TKG250	Color Waveform Ultrasonic Thickness Gauge/Datalogger

CG204 Coating Thickness Tester



CE



Measuring the thickness of automotive paint

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
- 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
- 1 year warranty
- Complete with two AAA batteries, USB cable, software, Calibration Iron, Calibration Aluminum, Reference Films, and carrying case

SPECIFICATIONS	FERROUS PROBE	NON-FERROUS PROBE
Working Principle	Magnetic Induction	Eddy Current
Measuring Range	0 to 1250µm; 0 to 49mils	0 to 1250µm; 0 to 49mils
Basic Accuracy	±3%	±3%
Resolution	0.1µm (0.004mils)	0.1µm (0.004mils)
Minimum Curvature Radius	1.5mm (59.06mils)	3mm (118.1mils)
Minimum Diameter	7mm (275.6mils)	5mm (196.9mils)
Minimum Thickness	0.5mm (19.69mils)	0.3mm (11.81mils)
Dimensions/Weight	4.7 x 2.4 x 1.25" (120 x 62 x 32mm)/ 6.17oz (175g)	

ORDERING

CG204	Coating Thickness Tester
CG204-REF	Replacement Reference Films for CG204 (10 sets)

SC600 Electronic Counting Scale/Balance



CE

NEW

Wide capacity measuring single small electronic component weighing 0.005oz (0.1g) or batches up to 21.164oz (600g)

- Gram or Ounce measurement selectable by internal slide switch
- ±0.05% accuracy with 0.01g and 0.0005oz resolution
- LCD display with 0.8" (20.9mm) easy-to-read digits
- Built-in self-calibration system using traceable weights
- High precision counting function with preset counting sampling number selection of 10pcs, 20pcs, 50pcs, or 100pcs
- TARE function to set the scale to zero
- Built-in bubble level with adjustable rubber pads
- RS-232 interface (optional 407001 software with cable)
- Dims: Base: 9.8x7.5x2.8" (250x190x70mm); Platform Diameter: 4.7" (120mm)
- Weight: 2.2lbs (1kg)
- Complete with 6 AA batteries, metal platform, & Universal AC adaptor; 1yr warranty

ORDERING

SC600	Electronic Counting Scale/Balance
407001	Data Acquisition Software with Cable
407001-USB	USB adaptor for 407001



Measure batches of electronic components

WQ500 Series Benchtop Water Quality Meters/Stirrer

Magnetic stirrer with adjustable clamp for hands free testing

NEW



CE



Three models to choose from from 3 measuring parameters to 7 plus they have built-in Stirrer with 30, 60, and 120 minute timer or continuous

- Large backlit dual LCD simultaneously displays measurement and temperature
- 2 or 3 point pH calibration for better accuracy (4, 7, and 10pH)
- Automatic Temperature Compensation
- Memory stores up to 150 readings
- Readings can be captured directly to a PC via the built-in USB interface
- Stirrer with 30, 60 and 120 minute timer or continuous
- Splash-proof keyboard
- 1 year warranty
- Complete with pH glass electrode, pH calibration solutions (4 and 7pH), Temperature probe, electrode clamp and rod, software and USB cable, AC adapter and magnetic stirrer; WQ510/WQ530 also include Conductivity cell, Conductivity calibration solutions (1413µS and 12.88mS); WQ530 also includes DO probe, plastic burette, polishing paper, 4 membrane caps and DO internal fill solution (30mL)

Models WQ510 and WQ530 Additional Features

- One point Conductivity calibration – automatically recognizes 4 calibration solutions
- Adjustable Conductivity to TDS ratio from 0.5 to 1.0

Model WQ530 Additional Features

- Manual salinity (0-50ppt) and altitude (0-20k ft) compensation for DO measurements

SPECIFICATIONS	WQ500	WQ510	WQ530
pH	-2.00 to 16.00pH	-2.00 to 16.00pH	-2.00 to 16.00pH
ORP	-1999 to + 1999mV	-1999 to + 1999mV	-1999 to + 1999mV
Temperature (for pH)	32 to 212°F (0 to 100°C)	32 to 212°F (0 to 100°C)	32 to 212°F (0 to 100°C)
Conductivity	—	0.0 to 100.0mS	0.0 to 100.0mS
TDS	—	0.0 to 66.0ppt	0.0 to 66.0ppt
Salinity	—	0.0 to 50.0ppt	0.0 to 50.0ppt
Dissolved Oxygen	—	—	Concentration: 0 to 20.00mg/L; Saturation: 0 to 200.0%
Resolution	0.01pH, 0.1mV, 0.1µS, 0.1mS, 0.1°, 0.1ppm, 0.1ppt, 0.01mg/L, 0.1%,		
Accuracy	±0.02pH; ±2mV; ±1.8°F/1°C; ±2%FS for other parameters		
Power	100 to 240V AC adapter with US, EU, UK, and AU plugs		
Dims/Wt (Meter):	4 x 5.7 x 1.3" (103 x 145 x 32mm)/ 1.5lbs (700g)		

ORDERING

WQ500	Water Quality Meter/Stirrer (pH, mV, Temp)
WQ510	Water Quality Meter/Stirrer (EC, TDS, Salinity, pH, mV, Temp)
WQ530	Water Quality Meter/Stirrer (DO, EC, TDS, Salinity, pH, mV, Temp)
60120B	Replacement Mini pH Electrode (10 x 120mm)
601500	Replacement Standard pH Electrode (12 x 160mm)
601100	Replacement Flat Surface pH Electrode (15 x 106mm)



CL500 Free and Total Chlorine Meter


NEW


CE

Complete with all the accessories to conveniently take measurements of both Free and Total Chlorine up to 3.50ppm with 0.01ppm resolution

- The method used is adapted from USEPA Method 330.5 for waste water and Standard Method 4500-Cl-G for drinking water
- Advanced optical system uses a narrow band LED lamp that provides accurate and repeatable readings
- Requires only a 10mL sample size
- Independent 2-point calibration for Free and Total Chlorine
- Splash-proof front panel
- Battery operated for field and on-site testing
- Data Hold and Min/Max record/recall
- Auto power off
- Complete with 1.0ppm Free Chlorine standard solution, 1.0 Total Chlorine standard solution, Zero Chlorine standard solution, (2) test bottles and covers, Free Chlorine DPD powder (10pcs), Total Chlorine DPD powder (10pcs), cleaning cloth, six AAA batteries, and hard carrying case; 1 year warranty

SPECIFICATIONS

Range (ppm)	0.01 to 3.50ppm
Resolution	0.01ppm
Accuracy	±0.02ppm @ 1ppm
Light source	LED, 525nm
Method	Adaptation of USEPA Method 330.5 for waste water and Standard Method 4500-Cl-G for drinking water
Response Time	<10 seconds
Dimensions	6.1 x 3.0 x 2.4" (155 x 76 x 62mm)
Weight	11.3oz (320g)

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

ORDERING

CL500	Free and Total Chlorine Meter
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TB400 Portable Turbidity Meter


NEW


CE

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 10mL sample size
- 2-point calibration
- Splash-proof front panel
- Battery operated for field and on-site testing
- Data Hold and Min/Max record/recall
- 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; 1 year warranty

SPECIFICATIONS

Range (NTU)	0.00 to 50.00 NTU, 50 to 1000 NTU (Nephelometric Turbidity Unit)
Resolution	0.01 NTU
Accuracy	±5% FS or ±0.5 NTU, whichever is greater
Light source	LED, 850nm
Standard	Designed to meet ISO 7027
Response Time	<10 seconds
Dimensions	6.1 x 3.0 x 2.4" (155 x 76 x 62mm)
Weight	11.3oz (320g)

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

ORDERING

TB400	Turbidity Meter
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Tested Tough In the Field

When the U.S. Environmental Protection Agency responded to the Gulf of Mexico oil spill, ExStik dissolved oxygen meters were there helping to ensure marine life was not threatened.



PH100 ExStik® pH Meters

Flat Surface electrode provides on-the-spot pH measurements

- RENEW feature tells you when it's time to replace your pH electrode
- CAL feature tells you when it's time to recalibrate your meter
- Flat Surface pH electrode rugged design measures pH on solid and semi-solid surfaces
- Analog bargraph originates at neutral point (pH 7.00) to view trends in acidity or alkalinity
- 1, 2 or 3 point calibration (order pH buffers separately)
- ATC plus measures Temperature
- Memory stores 15 labeled data
- Waterproof to IP57 protects meter from wet environment
- Includes flat surface pH electrode, protective sensor cap, sample cup with cap, four 3V CR2032 button batteries and 48" (1.2m) neckstrap

RE300 ExStik® ORP Meter

High resolution of 1mV

- Measures ORP/Redox from -999 to 999mV
- 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 3V CR2032 button batteries and 48" (1.2m) neckstrap

ACCESSORIES

PH105	pH ExStik® Electrode Module
RE305	ORP ExStik® Electrode Module
EC405*	ExStik® II Conductivity Cell Module for EC400
EC505*	ExStik® II pH/Conductivity Cell Module for EC500
DO605*	ExStik® II Dissolved Oxygen Module for DO600
DO603	Membrane Kit for DO600/DO605
FL705*	ExStik® II Fluoride Module for FL700
EC-84-P	84µS Conductivity Standard (2 bottles/1 pint ea)
EC-1413-P	1413µS Conductivity Standard (2 bottles/1 pint ea)
EC-12880-P	12880µS Conductivity Standard (2 bottles/1 pint ea)
PH103	Tripak Buffer pouches
FL704	TISAB reagent tablets for FL700 (100 tablets)
EX010	3ft (1m) Extension Cable w/Probe Guard/Weight
EX050	16ft (5m) Extension Cable w/Probe Guard/Weight
CA895	Small vinyl carrying case with belt loop
CA904	Large hard case for meter and accessories

SPECIFICATIONS	PH100	RE300
pH	0.00 to 14.00pH	—
ORP (mV)	—	-999 to 999mV
Conductivity	—	—
TDS/Salinity/Fluoride	—	—
DO saturation/concentration	—	—
Temperature	23° to 194°F (-5 to 90°C)	—
Max. Resolution	0.01pH, 0.1°	1mV
Basic Accuracy	±0.01pH, ±1.8°F/1°C	±4mV
Dimensions	1.4x6.8x1.6" (35.6x172.7x40.6mm)	1.4x6.8x1.6" (35.6x172.7x40.6mm)
Weight	3.8oz (110g)	3.8oz (110g)
Warranty	1yr (meter)/6mo conditional warranty (electrode)	1yr (meter)/6mo conditional warranty (electrode)

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

CE All models are CE approved





EC400/EC500 ExStik® II Conductivity Meters

Autoranging, high accuracy combination electrode measures multi parameters

- 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 electrode, sensor cap, sample cup with cap, four 3V CR2032 batteries, and 48" (1.2m) neckstrap. Order Conductivity standards separately on p. 132.
- **Model EC400** includes Conductivity/TDS cell
- **Model EC500** includes combination pH/Conductivity/TDS cell; RENEW feature tells user to replace electrode



DO600 ExStik® II Dissolved Oxygen Meter

Easy to replace screw-on membrane cap with optional extension cables

- Oxygen level displayed as % Saturation or Concentration (mg/L [ppm])
- Adjustable Altitude Compensation (0 to 20,000ft in 1,000ft increments)
- Adjustable Salinity Compensation from 0 to 50ppt
- Analog bargraph display
- Self calibration on power up
- Memory stores 25 labeled data
- Waterproof to IP57 protects meter from wet environment
- **Model DO600** meter includes DO electrode, sensor cap, spare membrane cap, electrolyte, four 3V CR2032 batteries, and 48" (1.2m) neckstrap
- **Model DO600-K** Kit includes DO600 meter, DO603 membrane kit, 16ft (5m) extension cable, weighted probe guard, and case



FL700 ExStik® II Fluoride Meter

Direct reading of Fluoride down to 0.1ppm with ATC

- First Fluoride meter with built-in Automatic Temperature Compensation
- Fastest response Fluoride meter (<1min)
- Small sample/TISAB volume required for testing (10mL)
- 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
- Waterproof to IP57 protects meter from wet environment
- Includes electrode, TISAB reagent tablets, sensor cap, four 3V button batteries, and 48" (1.2m) neckstrap
- Contact Extech or your local lab supply for Fluoride calibration standards

■ EC400 | ▲ EC500

■ No ▲ 0.00 to 14.00pH	—	—	pH
—	—	—	ORP
0 to 199.9µS, 200 to 1999µS, 2.00 to 19.99mS	—	—	Conductivity
TDS/Salinity: 0 to 99.9ppm (mg/L), 100 to 999ppm (mg/L), 1.00 to 9.99ppt (g/L)	—	Fluoride: 0.1 to 10ppm	TDS/Salinity/Fluoride
—	0 to 200.0% / 0 to 20.00ppm (mg/L)	—	DO saturation/concentration
■ 32° to 149°F (0 to 65°C) ▲ 23° to 194°F (-5 to 90°C)	32° to 122°F (0 to 50°C)	32° to 140°F (0 to 60°C)	Temperature

0.1µS, 0.1ppm (mg/L), 0.01pH, 0.1°F/°C	0.1%, 0.01ppm (mg/L), 0.1°F/°C	0.1ppm, 0.1°	Max. Resolution
±2%FS, ±0.01pH, ±1.8°F/1°C	±2.0% FS, 0.4ppm (mg/L), ±1.8°F/1°C	±3.0% of reading	Basic Accuracy
1.4x6.8x1.6" (35.6x172.7x40.6mm)	1.4x6.8x1.6" (35.6x172.7x40.6mm)	1.4x6.8x1.6" (35.6x172.7x40.6mm)	Dimensions
3.8oz (110g)	3.8oz (110g) Meter only	3.8oz (110g)	Weight
1yr (meter)/6mo conditional warranty (electrode)	1yr (meter)/6mo conditional warranty (electrode)	1yr (meter)/6mo conditional warranty (electrode)	Warranty

■ DO600 | ▲ DO600-K

—	—	—	pH
—	—	—	ORP
—	—	—	Conductivity
—	Fluoride: 0.1 to 10ppm	Fluoride: 0.1 to 10ppm	TDS/Salinity/Fluoride
0 to 200.0% / 0 to 20.00ppm (mg/L)	—	—	DO saturation/concentration
32° to 122°F (0 to 50°C)	32° to 140°F (0 to 60°C)	32° to 140°F (0 to 60°C)	Temperature

FL700

—	—	—	pH
—	—	—	ORP
—	—	—	Conductivity
Fluoride: 0.1 to 10ppm	Fluoride: 0.1 to 10ppm	Fluoride: 0.1 to 10ppm	TDS/Salinity/Fluoride
—	—	—	DO saturation/concentration
32° to 140°F (0 to 60°C)	32° to 140°F (0 to 60°C)	32° to 140°F (0 to 60°C)	Temperature

SPECIFICATIONS

CL200 ExStik® Waterproof Chlorine Meter



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

- Direct reading of Total Chlorine provides fast and easy measurements
- Wide dynamic range to 10ppm and low detection limit down to 0.01ppm
- 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
- 1 year warranty (meter)/ 6 months conditional warranty (electrode)
- Complete with meter and flat surface Chlorine electrode, ExTab™ reagent tablets (50 tests), protective sensor cap, sample cup with cap, four 3V button batteries, and 48" (1.2m) neckstrap

SPECIFICATIONS

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

ORDERING

CL200	ExStik® Chlorine Meter
CA895	Small vinyl carrying case with belt loop
CL205	Spare Chlorine electrode
CL207	Chlorine Standard (1ppm) - 3 ampules (20mL ea.)

EX006/EX007 Accessories



Weighted Base & Solution Cups

- Recommended for ExStik® Chlorine
- Complete with weighted base and 5 solution cups with caps to hold meter and solution when taking a measurement to obtain a stable reading

CL203/CL204 ExTab™ Chlorine Reagent tablets

- No messy powder reagents
- 1 tablet per test
- Foil packaging provides very stable environment with long shelf life
- No dosing equipment required
- No messy powder reagents
- Available in 10pk (100 tests) or Value pack 100pk (1000 tests)

CL207 Chlorine Standard

- 1ppm standard for chlorine meter calibration
- Complete with 3 ampules (20mL each) 1ppm calibration standards

ORDERING

EX006	Weighted base with 5 solution cups
EX007	Spare sample solution cups (24pk)
CL203	ExTab™ Reagent tablets (10pk - 100 tests)
CL204	ExTab™ Reagent tablets (100pk - 1000 tests)
CL207	Chlorine Standard (1ppm) - 3 ampules (20mL ea.)



EX900 ExStik® 4-in-1 Kit


Special Value Kit

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

Kit Includes:

- CL200 Chlorine ExStik® meter, flat surface pH electrode, flat surface ORP electrode, ExTab™ reagent tablets (50 tests), pH 4, 7 & 10 buffer solutions (20mL) and rinse solution, weighted base with 6 sample plastic cups with caps, four 3V CR2032 button batteries, 48" (1.2m) neckstrap, and case
- Also available EX800 Kit includes all of the above except for ORP electrode.
- See p. 144-145 for specifications on the ExStik Meters

ORDERING

EX900	ExStik® 4-in-1 Kit Chlorine, pH, ORP, Temperature
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EX800	ExStik® 3-in-1 Kit Chlorine, pH, Temperature
-------	--

EC410 ExStik® II* Conductivity Kit



Highly accurate multi-ranging sensor that measures Conductivity, TDS, Salinity, and Temperature

- EC400 ExStik® II Conductivity/TDS/Salinity/Temperature meter with sensor, protective cap, 84µS, 1413µS and 12880µS standards (30mL bottle each), weighted base, 3 sample plastic cups with caps, four 3V CR2032 button batteries, 48" (1.2m) neckstrap, and carrying case
- See p. 145 for more specifications on the EC400 meter

ORDERING

EC410	ExStik® II Conductivity Kit
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EC510 ExStik® II pH/Conductivity Kit



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

- EC500 ExStik II pH/Conductivity/TDS/Salinity/Temperature meter with combination electrode module, 84µS, 1413µS, 12880µS calibration standards, pH buffer pouches (1 each of 4, 7, 10pH plus rinse solution), weighted base, three sample cups with caps, four 3V CR2032 batteries, neckstrap, and case
- See p. 145 for more details on the EC500 meter

ORDERING

EC510	ExStik® II pH/Conductivity Kit
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DO610 ExStik® II* DO/pH/EC Kit


Special Value Kit

Measures Dissolved Oxygen, pH, Conductivity, TDS, Salinity, and Temperature

- EC500 pH/Conductivity ExStik® II meter with combination high accuracy multi-ranging Conductivity sensor for Conductivity, TDS, Salinity, pH and Temperature measurements
- DO600 Dissolved Oxygen ExStik® II meter with electrode, replacement membrane cap, electrolyte, and polishing paper

Accessories included:

- Sample pH Buffers – Single use pouches for pH4, pH7, pH10, and rinse solution
- Weighted base with 2 cups and caps, four 3V CR2032 batteries and neckstrap with each meter, and case
- See p. 145 for more details on the EC500 and DO600 meters

ORDERING

DO610	ExStik® II DO/pH/Conductivity Kit
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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

PH105	Spare pH ExStik® Electrode Module
PH115	Spare Refillable pH ExStik® Electrode Module
PH113	Reference Refill Solution Kit for PH110
PH305	Spare pH Electrode for PH300, EC600, DO700
6015WC	Waterproof pH Electrode with cable for Palm pH
6012WS	Waterproof Stick Type pH Electrode for Palm pH
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 Temp. Probe for the Oyster
850188	Temperature probe, stainless steel for SDL100
UA100-240	100-240V AC Adaptor with 4 plugs (US, EU, UK, AU)
CA895	Vinyl Pouch Carrying Case for PH100



PH110



PH220-C

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)
- Complete with protective sensor cap, sample cup with cap, four 3V button batteries, and 48" (1.2m) 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; PH113 KCl reference kit sold separately

PH220 Waterproof Palm pH/ORP Meter

Large LCD display in rugged housing with choice of stick or cabled pH Electrode

- Displays pH or mV 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, pH electrode, protective holster, pH 4 & 7 buffers (1 pouch ea.), and 9V battery
- **Model PH220-C** Kit includes ATC pH polycarbonate electrode (12mm diameter) with 39" (1m) cable
- **Model PH220-S** Kit includes ATC pH stick type polycarbonate electrode (12mm diameter) for direct connection to meter

SPECIFICATIONS

	■ PH100 ▲ PH110	■ PH220-C ▲ PH220-S
Type	■ Gel Filled ▲ Refillable	■ Cabled pH Electrode ▲ Stick pH Electrode
pH	0.00 to 14.00pH	0.00 to 14.00pH
mV	—	-999 to 999mV
Temperature	23° to 194°F (-5 to 90°C)	32° to 212°F (0 to 99.9°C)
Max Resolution	0.01pH, 0.1°	0.01pH, 1mV, 0.1°
Basic Accuracy	±0.01pH, ±1.8°F/1°C	±0.01pH, ±2mV, ±0.8°F/0.5°C
Memory	15 readings	—
Dimensions/ Weight	1.4x6.8x1.6" (35.6x172.7x40.6mm)/3.8oz (110g)	4.4x3.1x1.5" (111x79x39mm)/ 9.2 oz (260g)
Warranty	1yr (meter)/6mo conditional warranty (electrode)	1yr (meter)/6mo conditional warranty (electrode)

All models are CE approved.

CALIBRATION TRACEABLE TO NIST

NOTE: It is recommended that you calibrate your conductivity meter to conductivity standards before use.



PH300 Waterproof pH/Temperature Kit

Measures pH, mV, and Temperature

- Automatic calibration (4, 7, and 10pH)
- 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 10pH), 2 AA batteries, and hard carrying case



Oyster™ Series pH/ORP/Temperature Kits

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 (1.68, 4.00, 7.00, 10.00, 12.45) with adjustable buffer values
- Optional Universal AC Adaptor UA100-240
- **Model OYSTER-15** Kit includes Oyster-10 meter, neckstrap, 9V battery, 60120B mini pH electrode, sample buffers (4 and 7pH), and carrying case
- **Model OYSTER-16** Kit includes Oyster-15 plus RTD Temperature probe



SDL100 pH/ORP/Temperature Datalogger

Datalogger date/time stamps and stores 20M readings on a 2G 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 8hrs:59min:59sec
- 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 ▲ OYSTER-16	SDL100 <small>N</small>	SPECIFICATIONS
Cabled pH Electrode	■ Meter+pH electrode+case ▲ Meter+pH electrode+ case+Temp probe	Cabled pH Electrode	Type
-2.0 to 19pH	0.00 to 14.00pH	0 to 14pH	pH
-1999mV to 1999mV	-999 to 999mV	-1999mV to 1999mV	mV
32 to 212°F (0 to 100°C)	32° to 212°F (0 to 99.9°C)	32 to 149°F (0 to 65°C)	Temperature
0.01pH, 1mV, 0.1°	0.01pH, 1mV, 0.1°	0.01pH, 1mV, 0.1°	Max Resolution
±0.02pH, ±0.15mV, ±1°F/0.5°C	±0.02pH, ±2mV, ±0.8°F/0.5°C	±0.02pH, ±0.5% mV, ±1.8°F/1°C	Basic Accuracy
200 readings	25 readings	20M readings on 2G SD card	Memory
4.7x2.6x1.2" (120x65x31mm)/6.3oz (180g)	3.7x4.2x2" (94x107x51mm)/ 12oz (340g)	7.2x2.9x1.9" (182X73X48mm)/16oz (455g)	Dimensions/ Weight
1yr (meter)/6mo conditional warranty (electrode)	1yr (meter)/6mo conditional warranty (electrode)	3yr (meter)/6mo conditional warranty (electrode)	Warranty

EC100/EC150/EC170 Conductivity/TDS/Salinity Meters



Complete with sensor with cap and four LR44 button batteries; 1 year warranty. Order Conductivity standards separately (required for calibration)

Waterproof meters with one high accuracy multi-ranging sensor

- Units of measure (model dependent) include $\mu\text{S}/\text{cm}$, mS/cm , ppm, ppt, $^{\circ}\text{F}$, and $^{\circ}\text{C}$
- Large 3-1/2 digit (2000 count) LCD display
- Data Hold, Low battery indication, and Auto Power off with disable
- Adjustable Automatic Temperature Compensation
- Waterproof design to withstand wet environment – meets IP65 standard

Model EC100 Additional Features

- Measures Conductivity and Temperature with simultaneous readout display
- Two ranges for Conductivity with one point calibration per range

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 (EC100/EC150)	0 to 1999 $\mu\text{S}/\text{cm}$ (0 to 19.99 mS/cm)	1 $\mu\text{S}/\text{cm}$ (0.01 mS/cm)	$\pm 1\%$ FS
TDS (EC150 only)	0 to 1999 ppm (0 to 19.99 ppt)	1 ppm (0.01 ppt)	$\pm 1\%$ FS
Salinity (EC170 only)	0 to 10.00 ppt (10.1 to 70.0 ppt)	0.01 ppt (0.1 ppt)	$\pm 2\%$ FS
Temperature	32° to 122°F (0 to 50°C)	0.1°F/C	$\pm 0.9\text{°F}/0.5\text{°C}$
Dimensions/Wt	6.5 x 1.4 x 1.3" (165 x 35 x 32mm)/ 3.8oz (110g)		

ORDERING

EC100	Conductivity Meter
EC150	Conductivity/TDS Meter
EC170	Salinity Meter
EX006	Weighted base with 5 solution cups
EX007	Spare sample solution cups (24pk)
EC-1413-P	1413 μS Conductivity Standard (2 bottles - 1 pint each)
EC-12880-P	12880 μS Conductivity Standard (2 bottles - 1 pint each)
CA895	Small vinyl carrying case with belt loop

PH50/PH60 pH Pens



Easy-to-use, low cost waterproof pH pens

- Model PH50 — Measures pH
- Model PH60 — Measures pH and Temperature Automatic Temperature Compensation Waterproof housing
- Easy to calibrate single CAL key with automatic pH buffer recognition (4, 7, and 10pH calibration buffers sold separately)
- Data hold, Low battery indicator, and Auto power off with disable feature
- Complete with built in electrode, sensor cap, inner pH electrode protection cap, and four LR44 button batteries; 1 year warranty

SPECIFICATIONS

pH	2.0 to 12.0 pH	0.0 to 14.0 pH
Temperature	—	32 to 122°F (0 to 50°C)
Resolution	0.1 pH, 0.1°	0.1 pH, 0.1°
Accuracy	$\pm 0.3\text{pH}$	$\pm 0.2\text{pH}; \pm 1\text{°F}/\pm 0.5\text{°C}$
Dimensions/Wt	6x1.5x0.9" (152x37x24mm)/ 2.3oz (65g)	

ORDERING

PH50	Waterproof pH Pen
PH60	Waterproof pH Meter with Temperature
PH103	Tripak buffers (6ea - 4,7,10pH+2 Rinse solutions)



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 5sec)**

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 14pH), 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 14pH), operating temperature (5 to 80°C).

ORDERING

60120B	Mini pH Electrode (10 x 120mm)
601500	Standard pH Electrode (12 x 160mm)
601100	Flat Surface pH Electrode (15 x 106mm)

ExStik® Replacement pH, ORP, and Chlorine Electrode Modules


 PH105 CL205 RE305
 Flat surface pH, Chlorine, and ORP electrode modules


PH113

Reference Refilling Solution Kit for PH115 Refillable pH electrode module

Interchangeable pH, ORP, and Chlorine sensor modules for ExStik® series meters featured on (p. 144 and 146)

- ATC via built-in Pt-100Ω sensor (PH105, PH115 & CL205)
- Refillable pH electrode (PH115) provides an economical way to refill your electrode, eliminates the problem of limited electrode shelf life, contamination, and usage life in aggressive applications
- Note: The PH105, CL205 and RE305 replacement modules are not interchangeable with ExStik® II meters shown on p. 145
- 6 month conditional warranty

ORDERING

PH105	pH ExStik® Electrode Module
PH115	Refillable pH ExStik® Electrode Module
PH113	Reference Refilling Solution Kit for PH115
CL205	Chlorine ExStik® Electrode Module
RE305	ORP ExStik® Electrode Module

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, 10pH, 2 Rinse solutions)

Ensuring Water Quality

Extech offers must-have 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	84µS Conductivity Standard (2 bottles - 1 pint each)
EC-1413-P	1413µS Conductivity Standard (2 bottles - 1 pint each)
EC-12880-P	12880µS Conductivity Standard (2 bottles - 1 pint each)
EC405*	Spare ExStik® II Conductivity Cell Module for EC400
EC505*	Spare ExStik® II pH/Conductivity Cell Module for EC500
EC605	Spare Conductivity Cell for EC600 and DO700
804010A	Polymer Conductivity Cell for 341350A-P
PH305	Spare pH Electrode for PH300, EC600, DO700
60120B	Spare Mini pH Electrode for 341350A-P
CA895	Small vinyl case with belt loop for EC400, EC500
UA100-240	100-240V AC Adaptor with 4 plugs (US, EU, UK, AU)
850190	Thermistor Probe (32 to 194°F/0 to 90°C) for 341350A-P

SPECIFICATIONS

Conductivity

■ EC400 | ▲ EC410

0 to 199.9µS, 200 to 1999µS, 2.00 to 19.99mS

TDS/Salinity

0 to 99.9ppm (mg/L), 100 to 999ppm (mg/L), 1.00 to 9.99ppt (g/L)

pH

—

mV

—

Temperature

32° to 149°F (0 to 65°C)

Max. Resolution

0.1µS, 0.1ppm (mg/L), 0.1°F/°C

Basic Accuracy

±2%FS, ±1.8°F/1°C

Dimensions

■ Meter: 1.4x6.8x1.6" (36x173x41mm)/3.8oz (110g)

Warranty

▲ Kit: 9.5x6.8x2.8" (241x173x71mm)/1.56lbs (708g)

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

All models are CE approved

CALIBRATION TRACEABLE TO NIST

NOTE: It is recommended that you calibrate your conductivity meter to conductivity standards before use.



EC410 kit

EC400/EC410

ExStik® II Conductivity/TDS/ Salinity/ Temperature Meter

High accuracy multi-range sensor measures all four parameters

- 8 units of measure include: µS, mS, ppm, ppt, mg/L, g/L, °C, °F
- Simultaneous display of Conductivity or TDS plus Temperature and bargraph
- Memory stores up to 25 labeled readings
- Adjustable Conductivity to TDS ratio factor from 0.4 to 1.0
- Self calibration on power up
- Waterproof to IP57
- EC400 meter includes Conductivity cell*, protective sensor cap, sample cup with cap, four 3V CR2032 button batteries, and 48" (1.2m) neckstrap; Calibration standards sold separately
- EC410 kit (p.135) includes EC400, 84µS, 1413µS, 12880µS calibration standards, weighted base, 3 sample cups with caps, and case



EC510 kit

EC500/EC510 ExStik® II pH/ Conductivity/ Temperature Meter

Combination rugged flat surface pH electrode with Conductivity cell

- 9 units of measure: pH, μS , mS, ppm, ppt, mg/L, g/L, °C, °F
- Analog bargraph indicates trends
- Memory stores up to 25 labeled readings
- Adjustable Conductivity to TDS ratio from 0.4 to 1.0; 0.5 fixed Salinity ratio
- RENEW feature alerts user when electrode needs replacement
- Waterproof to IP57
- EC500 meter includes electrode, protective sensor cap, sample cup with cap, four 3V CR2032 batteries, and 48" (1.2m) neckstrap; Calibration standards sold separately
- EC510 Kit includes EC500, 84 μS , 1413 μS , 12880 μS calibration standards, pH buffer pouches (1 each of 4, 7, 10pH plus rinse solution), weighted base, 3 sample cups with caps, and case



Meter and accessories packaged in hard case



Meter and accessories packaged in hard case



EC600 Waterproof Conductivity Kit

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

- Waterproof housing (meets IP57)
- Choice of 3 point pH calibration (4, 7, and 10pH) for better accuracy
- One point Conductivity calibration – automatically recognizes 8 calibration solutions
- Automatic Temperature Compensation (non-linear compensation for purified water <10 $\mu\text{S}/\text{cm}$ 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 10pH), Conductivity calibration solution (1413 μS), 2 AA batteries, and hard carrying case

341350A-P pH/ Conductivity/TDS/ORP/ Salinity Meter

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

- Large dual LCD built into adjustable “flip-up” cover
- Microprocessor based with splash-proof housing and front panel tactile touch pad to slope and calibrate
- Rugged design for handheld or benchtop use
- Convenient neckstrap holds meter while you take measurements
- Memory function stores and recalls 25 labeled readings
- Automatic Temperature Compensation for Conductivity/TDS via thermistor built into conductivity cell
- Manual Temperature Compensation for pH (0 to 100°C)
- Complete with mini pH electrode, thermistor probe (850190), sample buffers, polymer conductivity cell, 9V battery, neckstrap and case; Optional Universal AC adaptor UA100-240

■ EC500 | ▲ EC510

0 to 199.9 μS , 200 to 1999 μS , 2.00 to 19.99mS

0 to 99.9ppm (mg/L), 100 to 999ppm (mg/L), 1.00 to 9.99ppt (g/L); 0 to 100ppt (g/L)

0.00 to 14.00pH

—

32° to 149°F (0 to 65°C)

0.1 μS , 0.1ppm (mg/L), 0.01pH, 0.1°F/°C

±2%FS, ±1.8°F/1°C

■ Meter: 1.4x6.8x1.6" (36x173x41mm)/ 3.8oz (110g)

▲ Kit: 9.5x6.8x2.8" (241x173x71mm)/1.56lbs (708g)

1yr (meter)/6mo conditional warranty (electrode)

EC600

0.00 to 199.9mS

0 to 100g/L

-2 to 19pH

-1999mV to + 1999

pH/mV: 32 to 212°F (0 to 100°C);
Other: 32 to 122°F (0 to 50°C)

0.01pH, 1mV, 0.01 μS , 0.01mg/L, 0.01ppt, 0.1°F/°C

±0.02pH, ±0.15mV, ±1.5%FS, ±1°F/0.5°C

4.7x2.6x1.2" (120x65x31mm)/6.3oz (180g)

1yr (meter)/6mo conditional warranty (electrode)

341350A-P ■

10 to 19,990 $\mu\text{S}/\text{cm}$

TDS range: 10 to 19,990ppm (mg/L)

0.01 to 14.00pH

—

Thermistor probe: 32 to 194°F (0 to 90.0°C)

0.1mS; 0.01pH

±2%, ±0.02pH

3.7x4.2x2" (96x108x45mm)/ 12oz (340g)

1yr (meter)/6mo conditional warranty (electrode)

SDL150 Dissolved Oxygen Meter/Datalogger



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 20.0mg/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 8hrs:59min:59sec
- 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
- 3 year warranty (meter)/ 6 months conditional warranty (electrode)
- 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 8910m	Temp: 0 to 50°C
Datalogging	99 data (manual)/20M data (2G SD card)		
Dimensions/Weight	Meter: 7.2x2.9x1.9" (182x73x48mm)/ 25.6oz(725g) Probe: 0.8Dx4.9" L		

ORDERING

SDL150	Dissolved Oxygen Meter/Datalogger
407510-P	Dissolved Oxygen probe with 13ft (4m) cable
780417A	Replacement Membranes (10/pack)
780418	DO Internal Fill Solution (2pk — 50mL each)
UA100-240	100-240V 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 RS-232 PC interface

- Measures dissolved oxygen, oxygen, plus temperature
- Min/Max/Avg, Data Hold and Auto power off
- Automatic Temperature Compensation
- Large 1.4" (36mm) LCD display
- Built-in PC interface with optional Data Acquisition Software 407001 (see p. 112)
- 3 year warranty (meter)/ 6 months conditional warranty (electrode)

SPECIFICATIONS	DISSOLVED OXYGEN	OXYGEN	TEMPERATURE
Range	0 to 19.9mg/L	0 to 100.0%	32 to 122°F (0 to 50°C)
Accuracy	±0.4mg/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/ Weight	Meter: 7x3x1.3" (178x74x33mm); Probe: 0.8Dx4.9" L		
Weight	17oz (482g)		

ORDERING

407510	Heavy Duty Dissolved Oxygen Kit
407510-P	Dissolved Oxygen probe with 13ft (4m) cable
780417A	Replacement Membranes (10/pack)
780418	DO Internal Fill Solution (2pk — 50mL each)



DO700 Waterproof Series Dissolved Oxygen Kit

Read to use 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
- 1 year warranty (meter)/ 6 months conditional warranty (electrode)
- Complete with Dissolved Oxygen probe with 3 membrane caps and DO internal fill solution (30mL), pH/mV/Temperature electrode, polymer Conductivity cell, pH calibration solutions (4, 7, and 10pH), Conductivity calibration solution (1413µS), 2 AA batteries, and hard carrying case

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Dissolved Oxygen (Concentration)	0 to 40.00mg/L	0.01mg/L	±1.5%FS
Dissolved Oxygen (Saturation)	0 to 200.0%	0.1%	±1.5%FS
pH	-2.00 to 19.99pH	0.01pH	±0.02pH
mV	-1999 to + 1999mV	1mV	±0.15mV
Conductivity	0.00 to 199.9mS	0.01µS	±1.5%FS
TDS	0 to 100g/L	0.01mg/L	±1.5%FS
Salinity	0 to 100ppt	0.01ppt	±1.5%FS
Resistivity	0 to 100M cm	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" (120x65x31mm)/ 6.3oz (180g)		

ORDERING

DO700	Waterproof Series Dissolved Oxygen Kit
DO705	Dissolved Oxygen Electrode
DO703	Replacement Membrane Caps (3 caps)
PH305	Spare pH/mV/Temperature Electrode
EC605	Spare Polymer Conductivity Cell

DO600 ExStik® II Dissolved Oxygen Meter

Bonded membrane cap for easy replacement. DO603 Membrane Kit includes 6 screw on membrane caps, 15mL filling solution and polishing paper.



Choice of optional EX010 3ft (1m) or EX050 16ft (5m) extension cable with probe weight.

Waterproof stick meter with Bonded Membrane Caps

- Simultaneous display of DO and Temperature plus analog bargraph to view trends
- Memory stores up to 25 data readings
- Oxygen level displayed as % Saturation or Concentration (mg/L); ATC
- Adjustable Altitude Compensation (0 to 20,000ft in 1,000ft increments)
- Adjustable Salinity Compensation from 0 to 50ppt
- Data Hold, Auto power off and low battery indicator
- Optional 3ft (1m) or 16ft (5m) Extension Cable for remote measurements
- Complete with DO electrode, protective sensor cap, spare membrane cap, electrolyte, sample cup with cap, four 3V CR2032 batteries, and 48" (1.2m) neckstrap; 1 year warranty (meter)/ 6 months conditional warranty (electrode)

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY
DO (saturation mode)	0 to 200.0%	0.1%	±2% FS
DO (concentration mode)	0 to 20.00ppm (mg/L)	0.01ppm (mg/L)	0.4ppm (mg/L)
Temperature	32 to 122°F (0 to 50°C)	0.1°F/°C	±1.8°F (1°C)
Dimensions/Weight	1.4x6.9x1.6" (36x176x41mm)/ 3.8oz (110g)		

ORDERING

DO600	ExStik® II Dissolved Oxygen Meter
DO605	Spare ExStik® II Dissolved Oxygen Electrode module
DO603	Membrane Kit for DO600 and DO605
EX010	Extension Cable 3ft (1m) with Probe Guard/Weight
EX050	Extension Cable 16ft (5m) with Probe Guard/Weight

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*42515-T-NISTL: Limited NIST for Certificate of Traceability for 42515 meter only

**42570-NISTL: Limited NIST for Certificate of Traceability from -4 to 1500F (-20 to 815°C)

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*NISTL - Limited NIST for Certificate of Traceability to all functions except IR Thermometer
**GRT300-NISTL: Limited NIST for Certificate of Traceability to 4-wire mode only

***HT30-NISTL: Limited NIST for Certificate of Traceability to 33 and 75%RH and 21.0°C only
****HW30-NISTL: Limited NIST for Certificate of Traceability to stopwatch functions only

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NIST-traceable calibration services are available on nearly all Extech product categories. Extech offers fast turnaround, global shipping, and convenient calibration reminder notifications. Look for the [N](#) logo throughout the catalog denoting products available with NIST-traceable certification.

*NISTL - Limited NIST for Certificate of Traceability to %RH, air temperature and IR

**VIR50-NISTL - Limited NIST for Certificate of Traceability to Type K and max IR Temperature of 1500°F (815°C)

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