Measure UP

with Extech

MultiMeters | Clamp Meters
Thermometers | Airflow Meters
Light Meters | Sound Meters
Water Quality Meters | Tachometers
Humidity Meters | Moisture Meters
Video Borescopes and More!

www.extech.com
As Extech celebrates our 45th anniversary, I can’t help but think about the journey we’ve been on for almost five decades. We take pride in making a difference in your world by providing you with the tools you need to get your job done right. We understand that minimizing down time and providing a safe work environment while controlling costs are challenges you face every day.

Our products have always offered unique functionality at affordable prices and we’ve grown significantly because we learned about your application needs and focused on delivering quality and innovative products for professionals like you.

We work hard to earn your trust by offering top quality tools, a comprehensive product selection and proactive customer support so that you always feel confident on the job with your Extech meter.

We ask the question “What do you need to measure today?” because we’re all about test and measurement. Whether your measurement requirements are on the shop floor, in the electrical or HVAC department, the safety department, or the test lab, we’ve got the test equipment you need to get the job done.

TURN TO EXTECH FOR THE TOOLS YOU NEED TO KEEP YOUR BUSINESS RUNNING

One electrical connection, one motor, one belt, one pressure transmitter. All it takes is one failure to slow down or stop a production line. The pressure is always on to have the right troubleshooting tool for the job.

No matter what part of your facility—offices, production floor, engineering, warehouse, employee safety areas—Extech has you covered with an end-to-end selection of meters and testers to get the problem solved ASAP.
Committed To Customers

SINCE 1970, EXTECH HAS COME TO BE TRUSTED BY MILLIONS OF CUSTOMERS FOR OUR COMMITMENT TO QUALITY AND SERVICE.

Dedicated Support and Service
As ambassadors of Extech, our Customer Service and Technical support teams are committed to helping Extech customers around the world with friendly, efficient service.

Have questions about how to use your instruments or how to solve challenging problems on the job? Turn to our support teams.

Our products are backed with a full warranty, up to 3 years, against defects. And when you need help or repairs, we stand by our products for warranty and non-warranty repairs.

Calibration Traceable to NIST
For demanding applications that require compliance with national standards, Certificates of Calibration are available for many Extech products. NIST-traceable calibration certificates come with full before-and-after data.

We know your Extech meters are needed on the job so fast-turnarounds, global shipping, and convenient recertification reminders are hallmarks of our calibration services.

Look for the icon indicating that NIST-traceable certification is available for a product. (See pages 160-165 for a full listing.)

Call or email:
877-4-EXTECH (877-439-8324)
orders@extech.com
Chat with us Online!

Trusted By The Pros
TRADESMEN AND INDUSTRIAL MAINTENANCE PROFESSIONALS TURN TO EXTECH TO HELP THEM GET THE JOB DONE.

Electrical and Facilities Maintenance
Manufacturing and processing plants can represent the most diverse array of systems under one roof. From process equipment requiring calibration, to pumps, motors and compressors at risk for vibration and electrical issues, to wastewater treatment, to sensitive facility environmental factors such as temperature and humidity, Extech has you covered.

HVAC/R Mechanical
Extech tools help you perform simpler residential air conditioning repairs as well as more complex maintenance at a large hospital with a co-generation plant for example. Extech meters identify problems related to electrical, air and water temperature, humidity, airflow, filtration effectiveness, superheat and subcooling, boiler tube corrosion, occupant comfort and so much more.

Safety and Health
Workplace safety and health programs not only improve and protect employee health, they can also boost productivity. Extech meters and dataloggers for effective “industrial hygiene” programs cover air monitoring/ exposure assessments, health and safety audits, noise surveys, indoor air quality (IAQ) and respiratory protection and task lighting compliance tests.
Comprehensive Condition Monitoring
If you’re the eyes and ears of your plant’s MRO program, Extech can help you perform equipment inspections with tools like a compact, go-anywhere vibration meter or a high-definition videoscope with articulating probe.

Go In-Depth
Extech introduces advanced coating thickness testers for automotive, paint and industrial inspections for quality, wear and corrosion. Bluetooth® simplifies data transfer to your laptop.

Electro-Magnetic & RF Testing
From industrial induction and dielectric heaters to mobile devices, to transmitting antennas, Extech’s AC/DC magnetic field meter and datalogger, as well as a multi-field EMF meter, help you measure environmental and occupational EMF exposure.

Power On The Go
Never slow down with mobile devices that need a charge. Quickly recharge smartphones and tablets anytime, anywhere.

Unlock Your Datalogging
Troubleshoot for extended periods with 3-channel voltage or current dataloggers that record in MS Excel® format on an SD card.

Ground Control
4-wire earth ground resistance/resistivity tester ensures effective grounding installations.

Anywhere Access
For current testing challenges large and small, Extech introduces CAT IV rated flex clamp meters to wrap around large conductors, an open jaw clamp meter for quick testing, and a mini jaw clamp to access the tightest spots.

Cut Through the Noise
Extech introduces meters equipped with LoZ and available Low Pass Filter to tackle electrical diagnostics prone to errors from ghost voltages or noisy signals.

EXTECH DELIVERS THE TOOLS YOU NEED TO INSTALL EQUIPMENT, SOLVE PROBLEMS AND TROUBLESHOOT MORE EFFICIENTLY.
What’s Your Environmental Challenge?

TACKLE ENVIRONMENTAL CHALLENGES: FROM HVAC/SICK BUILDING ISSUES TO OUTDOOR HEAT-STRESS WORK CONDITIONS, WATER QUALITY, UV HAZARDS & MORE.

Humidity & Temperature: Measure Your Way
Extech introduces several new hygro-thermometer instruments for a wide range of applications. Focus on heat-stress; measure with your mobile device; add dataloggers to shipments; or use tabletop/wall-mount monitors that use graphical or numerical indicators.

Options for Indoor Air Quality
For ongoing or on-the-spot air quality measurements, Extech’s innovative multifunction meters track carbon dioxide, temperature, humidity as well as calculating dew point and wet bulb. Measure formaldehyde and volatile organic compounds (VOC) hazards from building materials.

Tackle Every Water Quality Challenge
New water quality meters from Extech designed to accurately measure and monitor factors essential to sustaining vibrant ecosystems, preserving public safety and responsibly managing water resources. Measure temperature as well as: Conductivity/TDS; DO; and pH/ORP.

Identify UV Hazards in the Workplace
Monitor UV-A and UV-C in industrial processes, commercial printing, foodservice, archives, as well as in medical practices. Record in MS Excel® format on an SD card.

Check Moisture in Building Materials
Compact go-anywhere moisture meter.

Part# Product Page#
IR267 IR Thermometer + Type K 65
IR300UV IR Thermometer with Leak Detector 69
MO55 Combination Pin/Pinless Moisture Meter 93
45168CP Mini Thermo-Anemometer with Compass 96
45170CM Environmental Meter 97
CO30 Carbon Monoxide (CO) Monitor 104
SL400 Noise Dosimeter/Datalogger 124
40790A Octave Band Sound Analyzer 125
RPM40 Combination Contact/Laser Photo Tachometer 128
PH90 Waterproof pH Meter 148
Digital MultiMeter (DMM) Index Guide

EX300 Series Mini Digital MultiMeters + Voltage Detector

EX300 Series Mini Digital MultiMeters with built-in Non-contact Voltage Detector and numerous electrical functions. Perfect for hobbyists, mechanics and DIYers, students, models. Perfect for looking for this symbol: /L13458

EX300 Series Professional CAT IV True RMS Digital MultiMeters. Features include Low Pass Filter, Low Impedance (LoZ), and Type K and/or built-in IR Thermometer. p. 13

EX305 Series True RMS Digital MultiMeters with LPF and LoZ

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

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

Model EX350

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

Model EX355

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

ORDERING

EX350 5000
EX355 6000

Calibration Traceable to NIST

A NIST traceable certificate with data is available when you order your meter with Certificate Traceable to NIST. Look for this symbol ▲ next to product part numbers.

For the name of your local stocking distributor, visit: www.extech.com
### EX360 Series CAT IV True RMS MultiMeters + NCV + LoZ

Choose a CAT IV-600V multimeter designed for Electrical, HVAC, or Industrial Applications with LoZ function for accurate Voltage readings:
- True RMS for accurate AC measurements
- LoZ prevents false readings caused by ghost voltages
- Built-in Non-contact AC Voltage Detector (NCV) with LED indicator
- Smart Data Hold freezes the displayed reading and automatically updates the reading and alerts user (audibly and visually) if the measurement changes ±50 counts
- Large white LED backlight display with 60-segment analog bargraph for viewing trends
- Peak Hold captures the highest reading
- Relative Mode for Capacitance Zero and offset adjustment
- Continuity beeper with visual alert; Auto Power off with disable

#### Model EX360 — for Electrical applications
- Frequency and Capacitance measurement

#### Model EX363 — for HVAC applications
- µF for HVAC Flame rod measurements
- Type K Temperature
- Frequency and Capacitance measurement

#### Model EX365 — for Industrial/Commercial applications
- 10A AC/DC Current measurement with 11A/1000V high energy fuse
- Relative function

### EX400 Series Professional MultiMeters

Models with or without the built-in Infrared Thermometer, auto or manual ranging, True RMS or averaging:
- Large backlit LCD display with easy-to-read 1” digits
- Type K Thermometer built-in for temperature measurements
- Low current capability: measure down to 0.1µA
- Input fuse protection and mis-connection warnings
- CAT III 600V, CAT II 1000V rating
- Complete with CAT III test leads, multi-position tilt stand and velcro strap for hanging, protective holster with test lead holder, bead wire temperature probe, and 9V battery

#### Model EX410 (Manual Ranging)
- Average multimeter
- Model EX430 (Autoranging)
- True RMS for accurate AC measurements
- Relative function

#### Model EX470 (Autoranging)
- Built-in non-contact Infrared (IR) Thermometer
- True RMS for accurate AC measurements
- Relative function

### EX360 Series Specifications

<table>
<thead>
<tr>
<th>Models</th>
<th>EX360</th>
<th>EX363</th>
<th>EX365</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Electrical CAT IV True RMS MultiMeter + NCV</td>
<td>HVAC CAT IV True RMS MultiMeter + NCV</td>
<td>Industrial CAT IV True RMS MultiMeter + NCV</td>
</tr>
<tr>
<td>Basic Accuracy (DCV)</td>
<td>±0.5%</td>
<td>±0.5%</td>
<td>±0.5%</td>
</tr>
<tr>
<td>NCV Detector</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>DC/AC Voltage</td>
<td>0.1mV to 100V</td>
<td>0.1mV to 1000V</td>
<td>0.1mV to 1000V</td>
</tr>
<tr>
<td>DC/AC Current</td>
<td>—</td>
<td>—</td>
<td>1mA to 15A</td>
</tr>
<tr>
<td>DC/AC µA Current</td>
<td>20mA</td>
<td>—</td>
<td>20mA</td>
</tr>
<tr>
<td>Resistance</td>
<td>0.1Ω to 40MΩ</td>
<td>0.1Ω to 40MΩ</td>
<td>0.1Ω to 40MΩ</td>
</tr>
<tr>
<td>Capacitance</td>
<td>0.1µF to 100µF</td>
<td>0.1µF to 100µF</td>
<td>0.1µF to 100µF</td>
</tr>
<tr>
<td>Frequency</td>
<td>0.01Hz to 150kHz</td>
<td>0.01Hz to 150kHz</td>
<td>0.01Hz to 150kHz</td>
</tr>
<tr>
<td>Temperature (Type K)</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Close Test/Continuity</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Dimensions</td>
<td>5.0x3.0x1.7” (127x76x43mm)</td>
<td>5.0x3.0x1.7” (127x76x43mm)</td>
<td>5.0x3.0x1.7” (127x76x43mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>2.0oz (56g)</td>
<td>2.0oz (56g)</td>
<td>2.0oz (56g)</td>
</tr>
</tbody>
</table>

#### Ordering Information
- EX360, EX363, EX365

### Benefits of LoZ Function

- No LoZ function — picks up readings from ghost voltages
- LoZ function — prevents false readings from ghost voltages
EX500 Series CAT IV Waterproof Industrial MultiMeters

Waterproof (IP67)/drop proof (6.5ft/2m) rugged design for heavy duty use
- True RMS for accurate AC measurements
- 1000V input protection on all functions
- Dual sensitivity frequency functions
- Large backlit LCD
- Diode open circuit voltage of 2.8V DC
- Auto power off with disable feature
- CAT IV-600V safety rating
- Complete with double molded test leads, magnetic hanging strap, general purpose Type K bead wire temperature probe, steel case, and one 9V battery

Model EX505
- 4,000 count
- 0.05% basic accuracy
- Data Hold and Relative
- 10A max current

Model EX520
- 6000 count—high resolution
- 0.09% basic accuracy
- Min/Max/Relative/Data Hold
- 40,000 count—highest resolution

Model EX530
- 0.09% basic accuracy
- 6000 count—high resolution
- Model EX505
- 4,000 count—highest resolution
- 0.06% basic accuracy
- Min/Max/Relative/Data Hold
- 20A max current
- Peak Hold (AC only)

ORDERING
- EX505
- EX520
- EX530

SPECIFICATIONS

<table>
<thead>
<tr>
<th>EX505</th>
<th>EX520</th>
<th>EX530</th>
</tr>
</thead>
<tbody>
<tr>
<td>True RMS</td>
<td>True RMS</td>
<td>True RMS</td>
</tr>
<tr>
<td>Basic Accuracy</td>
<td>±0.05%</td>
<td>±0.04%</td>
</tr>
<tr>
<td>DC Voltage</td>
<td>0.1V to 1000VDC</td>
<td>0.1V to 1000VDC</td>
</tr>
<tr>
<td>AC Voltage</td>
<td>0.1V to 1000VAC</td>
<td>0.1V to 1000VAC</td>
</tr>
<tr>
<td>DC/AC Current</td>
<td>0.025mA to 20mA</td>
<td>0.025mA to 20mA</td>
</tr>
<tr>
<td>Resistance</td>
<td>0.1Ω to 40MΩ</td>
<td>0.1Ω to 40MΩ</td>
</tr>
<tr>
<td>Capacitance</td>
<td>0.1pf to 1000μF</td>
<td>0.1pf to 1000μF</td>
</tr>
<tr>
<td>Frequency (electrical)</td>
<td>0.1Hz to 1MHz</td>
<td>0.1Hz to 1MHz</td>
</tr>
<tr>
<td>Temperature (Type K)</td>
<td>-50 to 1382°F (-45 to 750°C)</td>
<td>-50 to 1382°F (-45 to 750°C)</td>
</tr>
<tr>
<td>Duty Cycle</td>
<td>0.1 to 99.9%</td>
<td>0.1 to 99.9%</td>
</tr>
<tr>
<td>Field of View</td>
<td>30:1 ratio</td>
<td>30:1 ratio</td>
</tr>
<tr>
<td>Temperature (Type K/ non-contact IR)</td>
<td>Type K: -50 to 1382°F (-45 to 750°C) / IR: -22 to 1022°F (-30 to 550°C)</td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td>0.0001Hz to 40MHz</td>
<td>0.001Hz to 100MHz</td>
</tr>
<tr>
<td>Capacitance</td>
<td>0.001nF to 10,000µF</td>
<td>0.001nF to 10,000µF</td>
</tr>
<tr>
<td>Resistance</td>
<td>0.01Ω to 40MΩ</td>
<td>0.01Ω to 40MΩ</td>
</tr>
<tr>
<td>DC/AC Current</td>
<td>0.01µA to 20A</td>
<td>0.01µA to 20A</td>
</tr>
<tr>
<td>DC/AC Voltage</td>
<td>0.01mV to 1000V</td>
<td>0.01mV to 1000V</td>
</tr>
<tr>
<td>Basic Accuracy</td>
<td>±0.06%</td>
<td>±0.09%</td>
</tr>
<tr>
<td>True RMS</td>
<td>True RMS</td>
<td>True RMS</td>
</tr>
</tbody>
</table>

ORDERING
- EX505 CAT IV Industrial MultiMeter
- EX520 CAT IV Industrial MultiMeter + IR Thermometer
- EX530 CAT IV Datalogging MultiMeter with Real Time Streaming

For the name of your local stocking distributor, visit www.extech.com

EX570 CAT IV MultiMeter + IR Thermometer

Built-in IR Thermometer quickly identifies hot spots without contact
- Built-in non-contact IR Thermometer design with laser pointer
- True RMS CAT IV-1000V, CAT IV-600V rated with 0.06% basic DCV accuracy
- CAT IV system 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 | 0.1V to 1000V |
| DC/AC Current | ±0.09% |
| DC Voltage | Resistance | ±0.06% |
| DC Current | 0.01Ω to 40MΩ |
| AC Voltage | Capacitance | 0.01Ω to 40MΩ |
| AC Current | Frequency | 40Hz to 4kHz (electrical) / 0.001Hz to 100MHz (electronic) |
| Temperature (Type K/ non-contact IR) | Capacity | -50 to 1382°F (-45 to 750°C) / IR: -22 to 1022°F (-30 to 550°C) |
| Frequency | Power Source | 0.0001Hz to 40MHz |
| Capacitance | Internal Battery | 0.001nF to 10,000µF |
| Resistance | Power Source | 0.01Ω to 40MΩ |
| DC/AC Current | Power Source | 0.01µA to 20A |
| DC/AC Voltage | Power Source | 0.01mV to 1000V |
| Basic Accuracy | Power Source | ±0.06% |
| True RMS | Power Source | True RMS |

ORDERING
- EX570 CAT IV Industrial MultiMeter + IR Thermometer

For the name of your local stocking distributor, visit www.extech.com

EX540/EX542 CAT IV Datalogging MultiMeter with Real Time Streaming

CAT IV True RMS MultiMeter dataloggets up to 9,999 readings with wireless USB interface capable 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 | 0.1V to 1000V |
| DC/AC Current | ±0.09% |
| DC Voltage | Resistance | ±0.06% |
| DC Current | Capacitance | 0.01Ω to 40MΩ |
| AC Voltage | Frequency | 40Hz to 4kHz (electrical) / 0.001Hz to 100MHz (electronic) |
| AC Current | Capacity | Power Source | 0.0001Hz to 40MHz |
| Temperature (Type K/ non-contact IR) | Power Source | 0.001nF to 10,000µF |
| Frequency | Power Source | 0.001Ω to 40MΩ |
| Capacitance | Power Source | 0.01Ω to 40MΩ |
| Resistance | Power Source | 0.01µA to 20A |
| DC/AC Current | Power Source | 0.01mV to 1000V |
| DC/AC Voltage | Power Source | ±0.06% |
| Basic Accuracy | Power Source | True RMS |
| True RMS | Power Source | True RMS |
| CAT IV-1000V | Power Source | CAT IV-600V |

ORDERING
- EX540 CAT IV Datalogging MultiMeter with Real Time Streaming (433MHz)
- EX542 CAT IV Datalogging MultiMeter with Real Time Streaming (915MHz)

For the name of your local stocking distributor, visit www.extech.com

Indicates products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.
### MN15A/MN16A Digital Mini MultiMeters

- **Compact Autoranging or Manual ranging multiimeters 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

### MN35/MN36 Digital MultiMeters

- **Autoranging or Manual ranging multiimeters 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

### DM220 CAT IV Pocket MultiMeter + NCV

- **Autoring multimeter 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

### DM110 Mini Pocket MultiMeter

- 10 function Autoranging including Frequency, Capacitance, and Duty Cycle
  - Large 600 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

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

- Autoranging multimeter with non-contact voltage detection
  - Large 2000 count LCD display
  - Autoranging with Data Hold, Range Hold, and Maximum Hold features
  - CAT III-600V; Auto power off, overload and low battery indication

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**For the name of your local stocking distributor, visit www.extech.com**

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**Indicates that products are available with special calibration traceable to NIST. See page 160 for a complete listing.**
MG325 CAT IV Insulation Tester/Multimeter

High Insulation Resistance range (200GΩ) and fully loaded DMM functions
- Polarization Index (PI) and Dielectric Absorption Ratio measurements (DAR)
- Low Resistance measurement with Zero function
- Programmable Timer feature sets the duration of test
- Comparison Mode allows user to set the Pass/Fail values
- Step Voltage (10% steps at 50% to 120% of range)
- Auto-discharge of voltage test signal
- Lock Power On Function for hands-free operation
- Manually store/recall up to 99 readings
- Backlit 10,000 count display with analog bargraph
- High voltage and overload indication
- Data Hold, Auto Power Off and Low battery indication
- CAT IV-600V safety category

SGP02000 CAT IV Insulation Tester/Multimeter

Combines a 1000V Insulation Tester with a True RMS Multimeter
- Wireless USB interface transmits measurement data to a PC
- Backlight 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

SM100 Display Data Logger

Includes remote receiver/wireless probe, and two AAA batteries
- True RMS Insulation Tester w/ CAT IV-600V Safety (break-in test, 400x1000V)
- True RMS Multimeter w/ CAT IV-600V Safety (break-in test, 100x1000V)
- Data logger for data recording purposes
- 3 functions included: insulation test, voltage test, current test
- Data logger is capable of storing up to 10,000 readings
- Display data logger saves data to a .txt file
- 100,000Ω range with 0.01Ω resolution

KITKAD-435K True RMS Multimeter with CAT IV-600V Safety

Includes a high-range true RMS multimeter with CAT IV-600V safety category
- 4000Ω with 0.01Ω resolution
- 400V AC/DC voltage
- 10A AC/DC current
- 2000Ω resistance
- 12V to 1000V insulation test range
- 10kHz frequency
- AC/DC voltage detector and ideal for noisy or non-sinusoidal AC measurement
- CAT IV-600V safety category

MM520-ETK 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
- Backlight triple display and waterproof (IP67) rugged housing design
- Insulation Resistance from 0.001MΩ to 2000MΩ
- Auto discharge of capacitive voltage
- Lock Power On Function for hands-free operation
- Min/Max, Relative mode, Data Hold, and Auto power off

MM530-ETK 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
- Backlight triple display and waterproof (IP67) rugged housing design
- Insulation Resistance from 0.001MΩ to 2000MΩ
- Auto discharge of capacitive voltage
- Lock Power On Function for hands-free operation
- Min/Max, Relative mode, Data Hold, and Auto power off

MN62-K True RMS MultiMeter with AC Voltage Detector

Kit ideal for troubleshooting appliances, electrical wiring, automotive repair and electronic devices
Model MN62 True RMS Multimeter:
- 9 functions including Frequency and Capacitance
- VFO Low pass filter for accurate measurement of variable frequency drive signals
- Built-in non-contact voltage detection with audible beeper indication
- CAT III-600V category safety rating
- Complete with test leads and two AAA batteries

D120-7-600 CAT IV-600V Safety (break-in test, 400x1000V)

Includes three compact tools that are indispensable at a customer site for electrical installation, troubleshooting, and repair
- Model D120-7-600: 120V CAT IV-600V safety category and ideal for noisy or non-sinusoidal AC measurement
- CAT IV-600V category safety rating
- Complete with test leads and two AAA batteries

D120-7X-600 CAT IV-600V Safety (break-in test, 400x1000V)

Includes three compact tools that are indispensable at a customer site for electrical installation, troubleshooting, and repair
- Model D120-7X-600: 120V CAT IV-600V safety category and ideal for noisy or non-sinusoidal AC measurement
- CAT IV-600V category safety rating
- Complete with test leads and two AAA batteries

D120-7-600 CAT IV-600V Safety (break-in test, 400x1000V)

Includes three compact tools that are indispensable at a customer site for electrical installation, troubleshooting, and repair
- Model D120-7-600: 120V CAT IV-600V safety category and ideal for noisy or non-sinusoidal AC measurement
- CAT IV-600V category safety rating
- Complete with test leads and two AAA batteries

D120-7X-600 CAT IV-600V Safety (break-in test, 400x1000V)

Includes three compact tools that are indispensable at a customer site for electrical installation, troubleshooting, and repair
- Model D120-7X-600: 120V CAT IV-600V safety category and ideal for noisy or non-sinusoidal AC measurement
- CAT IV-600V category safety rating
- Complete with test leads and two AAA batteries

D120-7-600 CAT IV-600V Safety (break-in test, 400x1000V)

Includes three compact tools that are indispensable at a customer site for electrical installation, troubleshooting, and repair
- Model D120-7-600: 120V CAT IV-600V safety category and ideal for noisy or non-sinusoidal AC measurement
- CAT IV-600V category safety rating
- Complete with test leads and two AAA batteries

D120-7X-600 CAT IV-600V Safety (break-in test, 400x1000V)

Includes three compact tools that are indispensable at a customer site for electrical installation, troubleshooting, and repair
- Model D120-7X-600: 120V CAT IV-600V safety category and ideal for noisy or non-sinusoidal AC measurement
- CAT IV-600V category safety rating
- Complete with test leads and two AAA batteries

D120-7-600 CAT IV-600V Safety (break-in test, 400x1000V)

Includes three compact tools that are indispensable at a customer site for electrical installation, troubleshooting, and repair
- Model D120-7-600: 120V CAT IV-600V safety category and ideal for noisy or non-sinusoidal AC measurement
- CAT IV-600V category safety rating
- Complete with test leads and two AAA batteries

D120-7X-600 CAT IV-600V Safety (break-in test, 400x1000V)

Includes three compact tools that are indispensable at a customer site for electrical installation, troubleshooting, and repair
- Model D120-7X-600: 120V CAT IV-600V safety category and ideal for noisy or non-sinusoidal AC measurement
- CAT IV-600V category safety rating
- Complete with test leads and two AAA batteries

D120-7-600 CAT IV-600V Safety (break-in test, 400x1000V)

Includes three compact tools that are indispensable at a customer site for electrical installation, troubleshooting, and repair
- Model D120-7-600: 120V CAT IV-600V safety category and ideal for noisy or non-sinusoidal AC measurement
- CAT IV-600V category safety rating
- Complete with test leads and two AAA batteries

D120-7X-600 CAT IV-600V Safety (break-in test, 400x1000V)

Includes three compact tools that are indispensable at a customer site for electrical installation, troubleshooting, and repair
- Model D120-7X-600: 120V CAT IV-600V safety category and ideal for noisy or non-sinusoidal AC measurement
- CAT IV-600V category safety rating
- Complete with test leads and two AAA batteries

D120-7-600 CAT IV-600V Safety (break-in test, 400x1000V)

Includes three compact tools that are indispensable at a customer site for electrical installation, troubleshooting, and repair
- Model D120-7-600: 120V CAT IV-600V safety category and ideal for noisy or non-sinusoidal AC measurement
- CAT IV-600V category safety rating
- Complete with test leads and two AAA batteries

D120-7X-600 CAT IV-600V Safety (break-in test, 400x1000V)

Includes three compact tools that are indispensable at a customer site for electrical installation, troubleshooting, and repair
- Model D120-7X-600: 120V CAT IV-600V safety category and ideal for noisy or non-sinusoidal AC measurement
- CAT IV-600V category safety rating
- Complete with test leads and two AAA batteries
ETK30/ETK35 Electrical Test Kits with 400A Clamp Meter

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 MA420: 400A AC Current Meter
- Model ETK35 kit includes MA430: True RMS 400A AC/DC Current Meter

- Both kits include EX205ST: True RMS Multimeter with Max Hold
- 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 (VISIT WWW.EXTECH.COM FOR PRODUCT SPECIFICATIONS)

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

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. 26)

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

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, MA420 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 42510: Wide range mini IR Thermometer measures -58° to 1000°F (-50 to 538°C). Built-in laser identifies target area; 6:1 distance to target ratio

ORDERING (VISIT WWW.EXTECH.COM FOR PRODUCT SPECIFICATIONS)

TK430-IR  Electrical Test Kit with IR

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 8-piece Professional Test Lead Kit, plus professional double-molded test leads, Type K thermocouple bead probe with banana input adapter, and magnetic hanging strap
- Supplied in a heavy duty carrying case that builds protection and organization for the meters and accessories
- Dimensions: 9.8x6x2” (248x203x51mm); Weight: 1.3lbs (590g)

Model EX505: Dual Range Non-contact voltage detector (24 to 1000VAC/100 to 1000VDC) + 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 IV-1000V rating

ORDERING (VISIT WWW.EXTECH.COM FOR PRODUCT SPECIFICATIONS)

EX505-K  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 EX605 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 adapter, and magnetic hanging strap
- Supplied in a soft carrying case that provides protection and organization for the meters and accessories
- Dimensions: 9.8x6x2” (248x203x54mm); Weight: 1.5lbs (680g)

Model EX605: Industrial grade, CAT IV-600V, 4000 count display, waterproof (IP67), CE/UL Listed, drop-proof, rugged multimeter with True RMS functions (See p. 14)

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

ORDERING (VISIT WWW.EXTECH.COM FOR PRODUCT SPECIFICATIONS)

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
- 480400: 3-Phase Rotation Tester with multi-line LCD display, durable double-molded housing, and easy to open wide jaw alligator clips (see p. 34 for specifications)
- DV25: Dual Range AC Voltage Detector (24 to 1000VAC/100 to 1000VDC) + 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 adapter
- Supplied in a heavy duty carrying case that provides protection and organization for the meters whenever they are needed
- Dimensions: 9.8x6x2” (248x203x54mm); Weight: 1.3lbs (590g)

ORDERING (VISIT WWW.EXTECH.COM FOR PRODUCT SPECIFICATIONS)

MA640-K  Phase Rotation/Clamp Meter Test Kit
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 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/DC 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
• Peak hold captures transients
• Data Hold, Min/Max, and Auto Power off
• Complete with test leads, 9V battery, general purpose Type K probe, and case

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 EXView™ App at play.google.com

ACCESSORIES (See p. 26-31 for complete accessories)

TP873 Replacement Lead wire/Temperature probe (-20 to 150°C; 0 to 302°F)
TL803 Standard Test Leads

SPCIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>EX820</th>
<th>EX830</th>
<th>EX840/EX850</th>
</tr>
</thead>
<tbody>
<tr>
<td>True RMS</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Display counts</td>
<td>4400 count backlit LCD</td>
<td>4400 count backlit LCD</td>
<td>4400 count backlit LCD</td>
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<tr>
<td>Jaw size/Cable size</td>
<td>1.7” (43mm) x 0.35” (9mm)</td>
<td>1.7” (43mm) x 0.35” (9mm)</td>
<td>1.7” (43mm) x 0.35” (9mm)</td>
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<td>1000A (0.1A)</td>
<td>1000A (0.1A)</td>
<td>1000A (0.1A)</td>
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<td>DC Current (Max Res.)</td>
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<td>1000A (0.1A)</td>
<td>1000A (0.1A)</td>
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<td>Basic ACA Accuracy (% rdg)</td>
<td>±2% (AC)</td>
<td>±2.5% (AC); ±0.5% (DC)</td>
<td>±2.5% (AC); ±0.5% (DC)</td>
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<td>AC/DC Voltage (Max Res.)</td>
<td>600V (3.1mV)</td>
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<td>1000V (5.1mV)</td>
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<td>Resistance (Max Res.)</td>
<td>4MΩ (0.1Ω)</td>
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<td>Capacitance (Max Res.)</td>
<td>40pF (0.001μF)</td>
<td>40pF (0.001μF)</td>
<td>40pF (0.001μF)</td>
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<td>Frequency (Max Res.)</td>
<td>4GHz (1GHz)</td>
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<td>4GHz (1GHz)</td>
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<tr>
<td>Temperature (Type K)</td>
<td>— to 40°F (—20 to 760°C)</td>
<td>— to 40°F (—20 to 760°C)</td>
<td>— to 40°F (—20 to 760°C)</td>
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<tr>
<td>Temperature (IR/Field of View)</td>
<td>— to 59°F (—50 to 270°C)</td>
<td>— to 59°F (—50 to 270°C)</td>
<td>— to 59°F (—50 to 270°C)</td>
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<td>Diode 2V/Conductivity</td>
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<td>Wireless Communication</td>
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<td>UL, ETL, CE, Category Rating</td>
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<td>UL, CE, CAT III-600V</td>
<td>UL, CE, CAT III-600V</td>
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<tr>
<td>Dimensions/Weight</td>
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<td>10.6x4.3x2” (270x110x50mm)/13.6oz (386g)</td>
<td>10.6x4.3x2” (270x110x50mm)/13.6oz (386g)</td>
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<tr>
<td>Warranty</td>
<td>1 year</td>
<td>1 year</td>
<td>3 years</td>
</tr>
</tbody>
</table>
EX650 Series True RMS 600A Clamp Meters

Professional clamps featuring Low Impedance (LoZ) mode and choice of advanced model with Low Pass Filter (LPF) and Inrush functions
- True RMS for accurate AC measurements
- 1.18” (30mm) jaw size accommodates conductors up to 350MCM
- LoZ prevents false readings caused by ghost voltages
- µA function for HVAC Flame rod Current measurements
- Built-in Non-contact AC Voltage Detector (NCV) with LED indicator
- 6000 count backlit LCD display
- Data Hold freezes the reading on the display
- Min/Max captures highest and lowest readings
- Relative function
- Convenient LED worklight for viewing in dimly lit area
- Auto Power Off conserves battery life
- 3 year warranty

Model EX650
- 9 Functions including AC Current
- Complete with test leads and 3 AAA batteries

Model EX655
- 12 Functions including AC/DC Current
- Frequency and Type K Temperature
- Low Pass Filter (LPF) for accurate measurement of variable frequency drive signals
- Inrush mode captures current surges during motor startup
- DC ZERO mode
- LCD trending bargraph
- Complete with test leads, general purpose bead wire
- 12 Functions including AC/DC Current
- Frequency and Type K Temperature
- 13 Functions including AC/DC Current
- Temperature (Max Res.) — -58 to 1832°F (-50 to 1000°C)
- Frequency (Max Res.) — 40MHz (0.001Hz)
- Capacitance (Max Res.) 40mF (0.01nF)
- Weight 10.7oz (303g)
- Dimensions 9x3.1x1.9” (229x80x49mm)
- Duty Cycle 0.5 to 99.0%
- Diode (2.8V)/ Continuity Yes

SPECIFICATIONS

EX613 | EX623
---|---
AC Current (Max Res.) | 6A, 40A, 60A (0.001A) 6A, 60A (0.01A)
DC Current | 60A, 600A (0.01A)
Overload Protector | Yes
Basic accuracy | ACA: ±2.5% of rdg 
DC: ±2.5% of rdg
AC/DC Voltage (Max Res.) | 800V (0.1mV) 
1000V (0.1mV)
AC Voltage (Max Res.) | 1000V (1mV)
DC Voltage (Max Res.) | 1000V (1mV)
Non-Contact Voltage (NCV) | 100 to 1800V
Non-Contact Voltage (NCV) | 100 to 1800V
Resistance (Max Res.) | 60MΩ (0.1Ω)
Capacitance (Max Res.) | 60mF (0.01nF)
Frequency (Max Res.) | 40Hz (0.01Hz)
Temperature (Max Res.) | 100°C (1°C)
Diode Test | Yes
Continuity Beeper | Yes
Dimensions | 1.18” (30mm) jaw size accommodates conductors up to 350MCM
Weight | 9.4oz (265g)

ORDERING

EX613 | EX623
---|---
True RMS 600A AC Clamp Meter | True RMS 600A AC/DC Clamp Meter + NCV
TP200 Type K Clamp Probe (212°F/100°C) | TL803 Standard Test Leads
TL810 Electrical Test Lead Kit | EX600 Series True RMS 400A Dual Input Clamp Meters + NCV

EX600 Series True RMS 400A Dual Input Clamp Meters + NCV

Built-in dual Type K thermocouple inputs for T1, T2, and T1-T2 differential temperature measurement
- True RMS for accurate AC measurements
- 1.25” (32mm) jaw size opening for conductors up to 500MCM
- Built-in non-contact Voltage detector with LED alert
- DC µA multimeter function for HVAC Flame rod Current measurements
- DC Current function ideal for automotive, heavy equipment and marine applications
- Built-in non-contact IR Thermometer (model EX623) with laser pointer for locating hot spots with 8 to 1 distance to target ratio
- 40,000 count multimeter functions for DC Voltage, Resistance, Capacitance, and Frequency for high resolution over wider ranges
- Data Hold plus fast Peak Hold of current surges during motor startup
- Measures motor capacitors to 40,000µF
- Rugged double molded housing
- Auto power off with audible alert and disable function
- Autoranging with manual override
- 1 year warranty
- Complete with CAT III-600V double molded test leads, 9V battery, two general purpose Type K bead wire probes and case

SPECIFICATIONS

EX613 | EX623
---|---
AC/DC Current (Max Res.) | 450.0A, AC/DC (10mA) 400.0A, AC/DC (10mA)
Basic Accuracy (Max Res.) | ±1.5% 
AC/DC Voltage (Max Res.) | 600V (0.1mV) 
600V (0.01mV)
AC Current (Max Res.) | 400.0A AC/DC (10mA)
Overload Protector | Yes
Basic accuracy | ACA: ±2.5% of rdg 
DC: ±2.5% of rdg
AC/DC Voltage (Max Res.) | 600V (0.1mV) 
600V (0.01mV)
AC Voltage (Max Res.) | 600V (1mV)
DC Voltage (Max Res.) | 600V (1mV)
Non-Contact Voltage (NCV) | 100 to 1000V
Resistance (Max Res.) | 60MΩ (0.1Ω)
Capacitance (Max Res.) | 40mF (0.01nF)
Frequency (Max Res.) | 40MHz (0.001Hz)
Temperature - Type K | -58 to 1832°F (-50 to 1000°C)
Temperature - IR | -58 to 1832°F (-50 to 270°C)
Duty Cycle | 100°C (1°C)
Diode (2.8V)/ Continuity | Yes
Number of Channels | Yes
Continuity Beeper | Yes
Dimensions | 1.25” (32mm) jaw size accommodates conductors up to 500MCM
Weight | 10.7oz (303g)

ORDERING

EX613 | EX623
---|---
True RMS 400A AC/DC Clamp Meter | True RMS 400A AC/DC Clamp Meter + IR
TP200 Type K Clamp Probe (212°F/100°C) | TL803 Standard Test Leads
TL810 Electrical Test Lead Kit | EX600 Series True RMS 400A Dual Input Clamp Meters
480172 AC Line Splitter | Non-Contact Voltage Detection

For the name of your local stocking distributor, visit www.extech.com

Indicates products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.
# MA443/MA445 True RMS 400A Clamp Meters + NCV

Pocket-sized meter with built-in Non-Contact Voltage detector and choice of AC or AC/DC Current model

- **True RMS AC/DC Clamp Meter**
- **1.2" (30mm) jaw size accommodates conductors up to 500MCM**

**Model MA443** with True RMS AC Current function

**Model MA445** with True RMS AC/DC Current functions

Includes test leads, case, and two AAA batteries, and pouch; 1 year warranty

**Includes test leads, general purpose Type K bead wire, three AAA batteries, and pouch; 1 year warranty**

### Functions

- Capacitance
- Frequency
- Temperature
- Duty Cycle
- One touch “Auto Zero”
- Max Hold
- Smart Auto Sense feature enables the meter to recognize the input (within a given function) and automatically switch to the correct mode of operation (i.e. AC to DC Current measurement)

### Key Features

- CAT III-600V category rating
- Min/Max, Data Hold, Auto Power Off and Low battery indicator
- Relative Mode for Capacitance Zero and Offset Adjustment
- Built-in flashlight illuminates work area
- 4000 count backlit LCD display
- Type K Temperature function with probe included
- 400A AC/DC Current model

### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>MA443</th>
<th>MA445</th>
</tr>
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<tbody>
<tr>
<td>AC Current</td>
<td>±0.3%</td>
<td>±0.3%</td>
</tr>
<tr>
<td>DC Current</td>
<td>±0.6%</td>
<td>±0.6%</td>
</tr>
<tr>
<td>Current accuracy</td>
<td>±2.5%</td>
<td>±2.5%</td>
</tr>
<tr>
<td>AC Voltage</td>
<td>±0.5%</td>
<td>±0.5%</td>
</tr>
<tr>
<td>DC Voltage</td>
<td>±0.6%</td>
<td>±0.6%</td>
</tr>
<tr>
<td>Resistance</td>
<td>±2.0%</td>
<td>±2.0%</td>
</tr>
<tr>
<td>Capacitance</td>
<td>±0.1%</td>
<td>±0.1%</td>
</tr>
<tr>
<td>Temperature</td>
<td>-40° to 1832°F (-40° to 1000°C) (1°)</td>
<td>-40° to 1832°F (-40° to 1000°C) (1°)</td>
</tr>
<tr>
<td>Dimensions/ Weight</td>
<td>7.9x2x1.4” (200x50x35mm)/ 7oz (200g)</td>
<td>7.9x2x1.4” (200x50x35mm)/ 7oz (200g)</td>
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</table>

### Ordering Information

<table>
<thead>
<tr>
<th>Model</th>
<th>MA443</th>
<th>MA445</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>True RMS 400A AC Clamp Meter</td>
<td>True RMS 400A AC/DC Clamp Meter</td>
</tr>
</tbody>
</table>

## MA200 Series 400A Clamp Meters

Easy-to-use, economical clamp meters

- Compact size allows measurements in tight locations
- 0.9" (23mm) jaw size accommodates conductors up to 300MCM
- Data Hold, Auto Power Off
- Overload protection, Overrange and low battery indicators

**Model MA200** (AC Current)

**Model MA220** (AC/DC Current)

**Includes test leads, general purpose Type K bead wire probe; three AAA batteries, and pouch; 1 year warranty**

### Functions

- Includes Capacitance, Frequency, Temperature, and Duty Cycle

### Key Features

- CAT III-600V safety rating
- Low battery indicator and Auto Power Off feature
- Smart Data Hold: Audiovisual alert when a new reading exceeds 50 digits of a held reading
- Low battery indicator and Auto Power Off feature
- CAT III-600V safety rating
- Complete with carrying case and two LR44 batteries; 1 year warranty

### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>MA200</th>
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<tbody>
<tr>
<td>AC Current</td>
<td>40A, 200A, 400A (0.01A)</td>
<td>40A, 200A, 400A (0.01A)</td>
</tr>
<tr>
<td>DC Current</td>
<td>40A, 200A, 400A (0.01A)</td>
<td>40A, 200A, 400A (0.01A)</td>
</tr>
<tr>
<td>Beep accuracy</td>
<td>±0.5%</td>
<td>±0.5%</td>
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<tr>
<td>AC/CC Voltage</td>
<td>400V, 400V, 600V (1.0A)</td>
<td>400V, 400V, 600V (1.0A)</td>
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<tr>
<td>Beep accuracy</td>
<td>±0.5%</td>
<td>±0.5%</td>
</tr>
<tr>
<td>Resistance</td>
<td>200Ω, 400Ω, 2kΩ, 20kΩ, 200kΩ (0.1A)</td>
<td>200Ω, 400Ω, 2kΩ, 20kΩ, 200kΩ (0.1A)</td>
</tr>
<tr>
<td>Capacitance</td>
<td>±0.01%</td>
<td>±0.01%</td>
</tr>
<tr>
<td>Temperature</td>
<td>40°F to 100°F (4°C to 38°C) (1°C)</td>
<td>40°F to 100°F (4°C to 38°C) (1°C)</td>
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<tr>
<td>Dimensions/ Weight</td>
<td>8.3x2.1x1.4” (210x53x35mm)/ 5.8oz (164g)</td>
<td>7.6x2.1x1.2” (193x54x31mm)/ 9.9oz (280g)</td>
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### Ordering Information

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<thead>
<tr>
<th>Model</th>
<th>MA200</th>
<th>MA220</th>
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<tbody>
<tr>
<td>Model</td>
<td>True RMS 400A AC Clamp Meter</td>
<td>True RMS 400A AC/DC Clamp Meter</td>
</tr>
</tbody>
</table>

## MA160/MA260 True RMS 200A AC Open Jaw Clamp Meters

0.6" (16mm) Open jaw design provides quick current measurements in tight locations without breaking the circuit

- True RMS for accurate readings of noisy, distorted or non-sinusoidal waveforms
- Built-in Non-Contact Voltage (NCV) detector with audible alert and LED indicator
- Auto Power Off with disable

**Model MA160** (CAT III-600V rating; ETL Listed)

**Model MA260** (CAT IV-600V rating; UL Listed)

### Key Features

- 2000 count backlit LCD display
- Convenient LED worklight for viewing in dimly lit area
- Relative Mode for Capacitance Zero and offset adjustment
- Inrush current measurement
- Built-in Non-Contact Voltage (NCV) detector
- Smart Auto Sensing technology enables the meter to recognize the input and automatically switch to the correct mode of operation
- For AC Voltage, Auto Sense feature evaluates input signal and adjusts Input Impedance to eliminate effects of ghost voltages
- 10,000 count backlit LCD display with Smart Data Hold feature
- Complete with test leads and two AAA batteries; 1 year warranty

### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>MA160</th>
<th>MA260</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC Current (max res.)</td>
<td>60A, 300A (0.1A)</td>
<td>60A, 300A (0.1A)</td>
</tr>
<tr>
<td>DC Current (max res.)</td>
<td>60A, 300A (0.1A)</td>
<td>60A, 300A (0.1A)</td>
</tr>
<tr>
<td>AC/DC Voltage (max res.)</td>
<td>750V (0.5A)</td>
<td>1000V (0.1A)</td>
</tr>
<tr>
<td>Non-contact Voltage</td>
<td>80 to 600V AC (50 to 60Hz)</td>
<td>80 to 600V AC (50 to 60Hz)</td>
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<tr>
<td>Resistance (max res.)</td>
<td>60MΩ (0.1Ω)</td>
<td>60MΩ (0.1Ω)</td>
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<tr>
<td>Capacitance (max res.)</td>
<td>60mF (0.01nF)</td>
<td>60mF (0.01nF)</td>
</tr>
<tr>
<td>Dimensions/ Weight</td>
<td>8.3x2.1x1.4” (210x53x35mm)/ 5.8oz (164g)</td>
<td>7.6x2.1x1.2” (193x54x31mm)/ 9.9oz (280g)</td>
</tr>
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### Ordering Information

<table>
<thead>
<tr>
<th>Model</th>
<th>MA160</th>
<th>MA260</th>
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<tbody>
<tr>
<td>Model</td>
<td>True RMS 200A AC Clamp Meter</td>
<td>True RMS 200A AC/DC Open Jaw Clamp Meter</td>
</tr>
</tbody>
</table>

For the name of your local stocking distributor, visit: www.extech.com
MA120 200A AC/DC Mini Clamp Meter + Voltage Detector

- Clamp meter with built-in AC Voltage detector + flashlight
- Compact 0.7” (17mm) jaw size allows measurements in tight locations
- DC Current and Zero Function
- Non-Contact AC Voltage (NCV) detector via clamp tip
- Built-in white LED flashlight
- Data Hold freezes reading on display
- Backlit LCD
- Auto Power Off
- Complete with pouch case and two AAA batteries

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>MA120 200A</th>
<th>MA250 200A AC Clamp Meter + NCV</th>
<th>380941 200A AC/DC Mini Clamp Meter</th>
<th>380947 400A AC/DC True RMS Mini Clamp Meter</th>
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<tr>
<td>True RMS</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Display count</td>
<td>2000 count backlit LCD</td>
<td>4000 count LCD</td>
<td>4000 count LCD</td>
<td>4000 count LCD</td>
</tr>
<tr>
<td>Jaw size/Cable size</td>
<td>0.7” (18mm); 300MCM</td>
<td>1.2” (30mm); 1000MCM</td>
<td>20A, 200A</td>
<td>40A, 400A</td>
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<tr>
<td>AC Current</td>
<td>30A</td>
<td>20A, 200A</td>
<td>40A, 200A</td>
<td>40A, 400A</td>
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<td>DC Current</td>
<td>30A</td>
<td>—</td>
<td>40A</td>
<td>—</td>
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<tr>
<td>Max Resolution</td>
<td>0.1A</td>
<td>—</td>
<td>0.01A AC/DC</td>
<td>0.01A AC/DC</td>
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<tr>
<td>Basic ACA Accuracy (% rdg)</td>
<td>±3%</td>
<td>±2.5%</td>
<td>±1.0%</td>
<td>±1.0% AC/DC, DC ± 0.1%</td>
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<tr>
<td>AC Voltage (Max Res.)</td>
<td>NCV</td>
<td>600V (±1%)</td>
<td>400V (±1%)</td>
<td>—</td>
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<tr>
<td>DC Voltage (Max Res.)</td>
<td>—</td>
<td>600V (±1%)</td>
<td>400V (±1%)</td>
<td>—</td>
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<tr>
<td>Resistance (Max Res.)</td>
<td>—</td>
<td>40.000MΩ (0.1%)</td>
<td>4000Ω (0.1%)</td>
<td>—</td>
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<tr>
<td>Capacitance (Max Res.)</td>
<td>—</td>
<td>103Ω (0.1%)</td>
<td>1000pF (0.01Hz)</td>
<td>10mΩ (0.01Hz)</td>
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<tr>
<td>Temperature</td>
<td>—</td>
<td>-4 to 140°F (-20 to 760°C)</td>
<td>—</td>
<td>—</td>
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<tr>
<td>Duty Cycle</td>
<td>—</td>
<td>0.1 to 99.9%</td>
<td>—</td>
<td>—</td>
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<tr>
<td>Diode/Continuity</td>
<td>—</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Data Hold</td>
<td>—</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>UL, ETL, CE, Category Rating</td>
<td>CE, CAT III-300V</td>
<td>ETL, CE, CAT III-300V</td>
<td>UL, CE, CAT III-300V</td>
<td>UL, CE, CAT III-300V</td>
</tr>
<tr>
<td>Dimensions/Weight</td>
<td>5oz x 3 x 2 3/8” (146x85x33mm) 0.32oz (18g)</td>
<td>7 oz x 3 x 2 3/8” (203x85x33mm) 1.22 oz (25g)</td>
<td>7 oz x 3 x 2 3/8” (219x95x32mm) 2 oz (35g)</td>
<td>7 oz x 3 x 2 3/8” (219x95x32mm) 3 oz (45g)</td>
</tr>
<tr>
<td>Warranty</td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
</tr>
</tbody>
</table>

Compact, Capable CAT III Safety Rated
Troubleshooting low energy current measurements

ACCESSORIES (488172 AC Line Splitter [120V/15A])

- True RMS
- Display count
- Jaw size/Cable size
- AC Current
- DC Current
- Max Resolution
- Basic ACA Accuracy (% rdg)
- AC Voltage (Max Res.)
- DC Voltage (Max Res.)
- Resistance (Max Res.)
- Capacitance (Max Res.)
- Temperature
- Duty Cycle
- Diode/Continuity
- Data Hold
- UL, ETL, CE, Category Rating
- Dimensions/Weight
- Warranty

Indicates products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.

For the name of your local stocking distributor, visit www.extech.com
For the name of your local stocking distributor, visit www.extech.com

### Milliamp Clamp Meters

#### Small Size, Big Performance

Performs essential troubleshooting tasks in plant maintenance, electrical, HVAC, and telecom work

### Milliamp Clamp Meters

#### 380942 30A AC/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**

### 380942 Specifications

<table>
<thead>
<tr>
<th><strong>SPECIFICATIONS</strong></th>
<th><strong>380942</strong></th>
<th><strong>380950</strong></th>
<th><strong>MA61</strong></th>
<th><strong>MA63</strong></th>
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<tbody>
<tr>
<td><strong>True RMS</strong></td>
<td>True RMS</td>
<td>True RMS</td>
<td>True RMS</td>
<td>True RMS</td>
</tr>
<tr>
<td><strong>Display counts</strong></td>
<td>4000 count LCD</td>
<td>6000 count LCD</td>
<td>6000 count LCD</td>
<td>6000 count LCD</td>
</tr>
<tr>
<td><strong>Jaw size/Cable size</strong></td>
<td>0.9” (23mm); 4/0 AWG</td>
<td>0.5” (12mm); 3/0 AWG</td>
<td>600V (0.1V)</td>
<td>600V (0.1V)</td>
</tr>
<tr>
<td><strong>AC Current</strong></td>
<td>400mA, 4A, 20A</td>
<td>4.000mA, 80.0A</td>
<td>1mA (AC)</td>
<td>0.001A, 40A</td>
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<tr>
<td><strong>DC Current</strong></td>
<td>4mA, 40A</td>
<td>4mA, 80A</td>
<td>0.1mA (AC)</td>
<td>0.001A (DC)</td>
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<tr>
<td><strong>Max Resolution</strong></td>
<td>AC: 0.1mA, DC: 0.001A</td>
<td>1mA</td>
<td>DC: ±0.0%</td>
<td>DC: ±0.0%</td>
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<tr>
<td><strong>Basic ACA Accuracy (% rdg)</strong></td>
<td>±1.5%</td>
<td>±0.1%</td>
<td>±0.1%</td>
<td>±1.5%</td>
</tr>
<tr>
<td><strong>AC Voltage (Max Res.)</strong></td>
<td>600V (0.1V)</td>
<td>600V (1mV)</td>
<td>600V (40V)</td>
<td>600V (40V)</td>
</tr>
<tr>
<td><strong>DC Voltage (Max Res.)</strong></td>
<td>400V (0.1V)</td>
<td>600V (0.1mV)</td>
<td>600V (40V)</td>
<td>600V (40V)</td>
</tr>
<tr>
<td><strong>Resistance (Max Res.)</strong></td>
<td>400k (0.1%)</td>
<td>600k (1%)</td>
<td>600k (1%)</td>
<td>600k (1%)</td>
</tr>
<tr>
<td><strong>Capacitance (Max Res.)</strong></td>
<td>—</td>
<td>6.2nF, 620µF, 62mF (1pF)</td>
<td>6.2nF, 620µF, 62mF (1pF)</td>
<td>6.2nF, 620µF, 62mF (1pF)</td>
</tr>
<tr>
<td><strong>Frequency (Max Res.)</strong></td>
<td>10MHz (0.001Hz)</td>
<td>10MHz (0.001Hz)</td>
<td>10MHz (0.001Hz)</td>
<td>10MHz (0.001Hz)</td>
</tr>
<tr>
<td><strong>Data Hold</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Min/Max</strong></td>
<td>Min/Max</td>
<td>Min/Max</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td><strong>Min/Max, CE Category Rating</strong></td>
<td>UL, CEC, CAT III-300V</td>
<td>CEC, CAT III-400V</td>
<td>CEC, CAT III-600V</td>
<td>CEC, CAT III-600V</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>7”x1.8x1.3” (178x45x32mm)</td>
<td>8.2x2.7x1” (210x70x37mm)</td>
<td>6.5x2.1x4.5” (165x54x115mm)</td>
<td>6.5x2.1x4.5” (165x54x115mm)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>8oz (225g)</td>
<td>11oz (315g)</td>
<td>9oz (260g)</td>
<td>9oz (260g)</td>
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<tr>
<td><strong>Warranty</strong></td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
</tr>
</tbody>
</table>

### 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

### MA61 True RMS 60A AC Clamp Meters + NCV

- AC Current meter with high accuracy
- Compact 0.7” (17mm) jaw size allows measurements in tight locations
- True RMS for accurate readings of noisy, distorted or non-sinusoidal waveforms
- Relative function
- Variable Frequency Control (VFC): Low pass filter for accurate measurement of variable frequency drive signals
- Built-in Non-Contact Voltage (NCV) detector
- Full range overload protection
- Backlit LCD display
- Auto Power Off feature
- Complete with test leads, carrying case, and two AAA batteries

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

- AC and DC Current meter with high accuracy
- Compact 0.7” (17mm) jaw size allows measurements in tight locations
- True RMS for accurate readings of noisy, distorted or non-sinusoidal waveforms
- DC Current and DC Zero function
- Variable Frequency Control (VFC): Low pass filter for accurate measurement of variable frequency drive signals
- Built-in Non-Contact Voltage (NCV) detector
- Full range overload protection
- Backlit LCD display
- Auto Power Off feature
- Complete with test leads, carrying case, and two AAA batteries

### ACCESSORIES (SEE P. 36-37 FOR TEST LEADS)

- **480172 AC Line Splitter (1/20/15A)**
  - 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
  - Plugging the power connector into the Line Splitter separates the hot/live conductor from the neutral (and ground)
  - Dims: 5.25x2x1” (133x51x25mm), Wt: 5.8oz (164.4g)

- **480172 AC Line Splitter**: Small Size, Big Performance
  - Performs essential troubleshooting tasks in plant maintenance, electrical, HVAC, and telecom work

Indicates products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.
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
• Irnush function captures motor startups
• Relative Mode for Capacitance Zero and Offset Adjustment
• Data Hold, Peak Hold, MIN/MAX, and Auto Power Off
• Complete with test leads, general purpose Ty 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 750MCN conductor size
• Data Hold
• Push button Zero adjust improves DC accuracy
• Complete with built-in stand, test leads and 9V battery

MA3000 Series CAT IV True RMS 3000A AC Flex Clamp Meters
Flexible clamp jaw easily wraps around bus bars and cable bundles that may be difficult to access with regular clamp meters
• True RMS for accurate readings
• Flexible clamp cable length: Model MA3010 — 10" (25.4cm) Model MA3016 — 18" (45.7cm)
• 0.3" (7.5mm) cable diameter; 0.51" (13mm) tip diameter
• Autoranging AC Current
• Data Hold
• Over range and Low Battery indicator
• Auto Power Off with disable
• Complete with two AAA batteries

CA3000 Series* 3000A AC Flex Clamp Adaptors
Expand your meter's capabilities to measure AC Current up to 3000A
• Flexible clamp cable length: Model CA3010 — 10" (25.4cm) Model CA3016 — 18" (45.7cm)
• 0.3" (7.5mm) cable diameter; 0.51" (13mm) tip diameter
• Easy twist clamp cable closure to Lock or Open
• Compatible with most meters with standard sized banana plug inputs
• Battery capacity indicator provides battery condition
• Complete with built-in flex clamp cable, 6.8ft (2m) lead with banana plugs, and two AAA batteries

PQ2071 1-Phase and 3-Phase CAT IV 1000A AC Power Clamp Meter
Functions including Power and Current, USB interface
• True/Apparent/Reactive Power, plus Power Factor, Active Power and Phase Angle (see p. 61 for details)
• AC/DC µA Current with 10mA resolution for flame rod tests
• Built-in non-contact Voltage Detector with LED alert
• Store/recall up to 99 data sets
• Data Hold, Max/Min – and Auto Power Off
• Software for data analysis
• Complete with test leads, USB cable, PC software, 9V battery, and carrying case

Easily fits into tight spaces and large conductors
Flexible Clamps easily wrap around bus bars and cable bundles.

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>MA1500</th>
<th>380926</th>
<th>MA3010</th>
<th>MA3016</th>
<th>CA3010</th>
<th>CA3016</th>
<th>PQ2071</th>
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<tbody>
<tr>
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<td>Yes</td>
<td>Yes</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Display counts</td>
<td>40,000/400 count LCD w/bargraph (backlit)</td>
<td>5000 count LCD (backlit)</td>
<td>3000 count LCD display (backlit)</td>
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<td>—</td>
<td>9999 count LCD with bargraph (backlit)</td>
<td></td>
</tr>
<tr>
<td>Jaw size/Cable size</td>
<td>2.3&quot; (58mm)</td>
<td>2&quot; (50mm)</td>
<td>10&quot; (25.4cm)</td>
<td>—</td>
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<tr>
<td>AC Current</td>
<td>1000A</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
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<tr>
<td>DC Current</td>
<td>100mA</td>
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<tr>
<td>Max resolution</td>
<td>0.01A</td>
<td>0.1A (Clamp)</td>
<td>0.1µA (MM)</td>
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<td>0.01A</td>
<td>0.01A</td>
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<tr>
<td>Basic ACA Accuracy (%)</td>
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<td>±2%</td>
<td>±3%</td>
<td>±3%</td>
<td>±3%</td>
<td>±3%</td>
<td>±3%</td>
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<td>AC Voltage (Max Res.)</td>
<td>700V (0.1A)</td>
<td>1000V (0.1A)</td>
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<tr>
<td>DC Voltage (Max Res.)</td>
<td>1000V (0.1A)</td>
<td>1000V (0.1A)</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
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<tr>
<td>Resistance (Max Res.)</td>
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<td>400MΩ (0.1µA)</td>
<td>400MΩ (0.1µA)</td>
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<td>Capacitance (Max Res.)</td>
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<td>420pF (0.1µA)</td>
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<td>—</td>
<td>—</td>
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<tr>
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<td>400MHz (0.001µA)</td>
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<td>1MHz (0.001µA)</td>
<td>—</td>
<td>—</td>
<td>—</td>
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</tr>
<tr>
<td>Temperature</td>
<td>-20 to +185°F (-29 to 102°C)</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Diodz/Continuity</td>
<td>Yes</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
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<tr>
<td>Category Rating</td>
<td>CAT IV-600V</td>
<td>CAT IV-600V</td>
<td>CAT IV-600V</td>
<td>CAT IV-600V</td>
<td>CAT IV-600V</td>
<td>CAT IV-600V</td>
<td>CAT IV-600V</td>
</tr>
<tr>
<td>Dimensions/Weight</td>
<td>11.6x1.1x1.5&quot; (294x28x37mm)/ 18.8oz (533g)</td>
<td>10.6x1.5x1.5&quot; (265x38x38mm)/ 1.6oz (38g)</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Warranty</td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
</tr>
</tbody>
</table>

*CA3010 & CA3018 adaptors are CAT III-1000V, CAT IV-600V and should only be used with multimeters and clamp meters that have equivalent CAT ratings

For the name of your local stocking distributor, visit www.extech.com

Indicates products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.
**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 69kHz 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

**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)

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

- Multi-line LCD Displays; No battery required
- LEDs display motor rotation and phase status
- Indicates rotation direction of motor
- Determine rotation of a motor without contact

**ORDERING**

PRT200 - Non-Contact Phase Sequence Tester

480400 - 3-Phase Rotation Tester

480403 - Motor Rotation and 3-Phase Tester

**SD900/SD910 3-Channel Dataloggers**

- Easily monitor and record DC mA or DC mV values from 3 external sensors, transducers, and other sources using one meter
- Datalogger data/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: 2, 5, 10, 30, 60, 120, 300, 600 seconds or Auto
- Complete with six AAA batteries, SD memory card, Universal AC Adaptor with multi-plugs (US, EU, UK, AUS), 3 input connect sockets, and mounting bracket

**Model SD900 (DC Current)**

- Triple LCD simultaneously displays three DC Current (mA) channels

**Model SD910 (DC Voltage)**

- Triple LCD simultaneously displays three DC Voltage (mV) channels

**ORDERING**

SD900 - 3-Channel DC Current (mA) Datalogger

SD910 - 3-Channel DC Voltage (mV) Datalogger

**DL150/DL160 True RMS AC Voltage/Current Dataloggers**

Choose model with single or dual inputs for datalogging.
- 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

**Model DL150 (Single Input)**

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

**Model DL160 (Dual Input)**

- Measures simultaneously:
  - Two True RMS AC Voltage inputs or
  - Two AC Current inputs or
  - One AC Voltage and one AC Current input
- 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 3023 button batteries

**ORDERING**

DL150 - True RMS AC Voltage/Datalogger

DL160 - True RMS AC Voltage/Current Datalogger

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>DL150</th>
<th>DL160</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC Voltage</td>
<td>10 to 600V</td>
</tr>
<tr>
<td>AC Current</td>
<td>10 to 3000A</td>
</tr>
<tr>
<td>AC Input Range</td>
<td>650V</td>
</tr>
<tr>
<td>AC Input Frequency</td>
<td>2 to 120Hz</td>
</tr>
<tr>
<td>AC Input Impedance</td>
<td>10MΩ</td>
</tr>
<tr>
<td>AC Input Sensitivity</td>
<td>10mV</td>
</tr>
<tr>
<td>AC Input Resolution</td>
<td>10mV</td>
</tr>
<tr>
<td>AC Input Accuracy</td>
<td>±2% rdg</td>
</tr>
<tr>
<td>AC Input Sampling Rate</td>
<td>1 second to 24 hours</td>
</tr>
<tr>
<td>Input Connectors</td>
<td>3 input connect sockets</td>
</tr>
<tr>
<td>Power Source</td>
<td>Universal AC Adaptor, 4 AAA batteries and two 3023 button batteries</td>
</tr>
<tr>
<td>Dimensions/Weight</td>
<td>5.1 x 2.7 x 1.3” (130 x 69 x 34mm) / 12 oz (340g)</td>
</tr>
</tbody>
</table>

**ORDERING**

DL150 - True RMS AC Voltage/Datalogger

DL160 - True RMS AC Voltage/Current Datalogger

For the name of your local stocking distributor, visit www.extech.com
**TL809 Electronic Test Lead Kit**

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

**TL808-KIT Industrial Test Lead Kit**

- 8-Piece Kit — CAT III-1000V safety rating
- Two 42" (1m) PVC lead extensions with shrouded banana plugs at both ends, UL listed
- Two modular 4" (102mm) Heavy Duty test probe handles with a 0.16" (4mm) banana plug tip, UL listed
- Two standard size, alligator clips with insulated rubber boot
- Two ultra large, double-insulated, alligator clips with sharp teeth for piercing insulated wire. Jaws open to 0.8" (20mm)
- Includes pouch that provides storage for the kit

**TL808-KIT Industrial Test Lead Kit**

- Includes pouch that provides storage for the kit
- Two tip probes, two CAT III-1000V clips mate with banana plug connectors. Jaw opens to 0.8" (20mm) with sharp teeth for piercing insulated wire. IEC1010 compliant
- Two dual-layered silicone test lead cables (5.3ft/1.6m), wear indication construction
- Standard 90° shrouded banana to-banana plug connectors
- Two CAT IV test probes have built-in replaceable fuses (1000V, 11A, 20kA breaking capacity)
- CAT IV-600V, CAT III-1000V, 10A
- Each probe has 2mm probe tip and includes an 4mm brass caged bayonet threaded tip (removable) for connecting accessories

**TL806/TL807C 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 card. Jaw opens to 0.8" (20mm) with sharp teeth for piercing insulated wire
- 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

**TL708/TL709 Alligator Clip Sets**

- Toohed jaws for solid gripping of fine wires
- TL708 Heavy Duty Large Alligator Clips
  - 1000V, 6A, CAT IV-600V, CAT III-1000V
  - 1" (25mm) 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" (99mm) overall length

**Test Lead Kits and Accessories**

- For the name of your local stocking distributor, visit www.extech.com

For the name of your local stocking distributor, visit www.extech.com

36 Indicates products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.

For the name of your local stocking distributor, visit www.extech.com

37
40130 AC Voltage Detector with On/Off Audible Beeper Button

Non-contact detection of AC Voltage up to 600VAC
- Detects AC Voltage from 150V 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

• Complete with pocket clip and 1 year warranty
• Dimensions: 6x0.75x1" (152x19x25mm)
• CAT III-600V
• Locate breaks in power cables
• Flashing red LED light and push button
• Tip fits into outlets or against wire insulation
• For use on 50/60Hz circuits
• Detects AC Voltage from 100V to 600V
• Non-contact detection

AC Voltage Detector +

DV23 CAT IV AC Voltage Detector

CAT IV safety rating with non-contact detection of AC Voltage up to 600VAC
- Detects AC Voltage from 50V to 600V
- CAT IV-600V safety rating
- Suitable for outlets or against wire insulation testing
- For use on 50/60Hz circuits
- Audible and Visual voltage indication
- Dimensions: 6.25 x 1" (159x25mm)
- Weight: 1.5oz (42g)
- 1 year warranty
- Complete with pocket clip and two AAA batteries

DV26 CAT IV Non-Contact AC Voltage Detector + Flashlight

Rugged CAT IV rated non-contact Voltage Detector
- Detects AC Voltage from 100V to 1000V
- CAT IV-600V, CAT IV-1000V safety rating
- For use on 50/60Hz circuits
- 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 two AAA batteries

DV25 CAT IV Dual Range AC Voltage Detector + Flashlight

Two selectable ranges for low and high non-contact AC Voltage detection
- 2 ranges: 24 to 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" (159x25mm)
- Weight: 1.48oz (42g)
- 1 year warranty
- Complete with pocket clip and four LR44 button batteries

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 IV-600V
- Dimensions: 6.25 x 1" (159x25mm)
- Weight: 1.5oz (42g)
- 1 year warranty
- Complete with pocket clip and two AAA batteries

DV30 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
- Low audible and bright visible current and voltage detect indicators
- Sensitivity adjustment increases or reduces sensor trigger threshold
- CAT III-600V
- Dimensions: 7.6 x 2.0 x 0.9" (192x51x24mm)
- Weight: 2.1oz (60g)
- UL and CE approved
- 1 year warranty
- Complete with pocket clip and four LR44 button batteries

DV40 Non-Contact AC Voltage Detector + IR Thermometer

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 IV-1000V
- Built-in Infrared Thermometer function
- Range: -20 to 445°F (-30 to 230°C)
- Resolution: 0.1°F
- Field of View: 1:1
- Emissivity: Fixed 0.95
- Dimensions: 6.25 x 1" (159x25mm)
- Weight: 1.48oz (42g)
- Complete with pocket clip and three LR44 button batteries

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 600V)
- 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: 9.4x1x1.6" (240x78x40mm); Weight: 8.4oz (237g)
- Complete with 2 AAA batteries, protective cap, and soft case
- 1 year warranty

ET10 GFCI Receptacle Tester

Verifies GFCI operation and tests for faulty wiring in 3-wire receptacles
- Tests GFCI circuits
- Detects 5 wiring faults: Correct, Open Ground, Open Neutral, Open Hot, Hot/Ground Reverse, and Hot/Neutral Reverse
- Standard North American 3-prong plug
- 1 year warranty

ET15 Receptacle Tester

Tests for faulty wiring in 3-wire receptacles
- Detects 5 wiring faults: Correct, Open Ground, Open Neutral, Open Hot, Hot/Ground Reverse, and Hot/Neutral Reverse
- Standard North American 3-prong plug
- 1 year warranty

For the name of your local stocking distributor, visit www.extech.com
ET20 Dual Indicator Voltage Detector

- Quickly identify live voltages
- 100 to 200 Volts AC/DC
- Probes snap on housing for easy one-handed testing of outlets
- Large, high visibility neon indicators positively identify presence of voltage
- 1 year warranty

ET20 Dual Indicator Voltage Detector

ET25 Voltage Tester

- Neon glows when voltage is present
- 90 to 300V AC/DC Voltage Tester
- Neon AC/DC Indicator
- Pocket clip and insulated housing
- 1 year warranty

ET25 Voltage Tester

ET30A Automotive Circuit Tester

- For auto, trailers, boats and other low voltage systems
- 6 to 24 Volts DC
- Ideal for checking fuse, circuits, switches and wiring

ET30A Automotive Circuit Tester

ET40 Heavy Duty Continuity Tester

- 30” (76cm) test lead with alligator clip
- Check fuses, switches, relays and wiring
- 6 to 24 Volts DC
- one-handed testing of outlets

ET40 Heavy Duty Continuity Tester

CA3000 Series 3000A AC Clamp Adaptors

- Expand your meter’s capabilities to measure AC Current up to 3000A
- Flexible clamp cable length: Model CA3010 — 10” (25.4cm)
- Model CA3018 — 18” (45.7cm)
- 0.3” (7.5mm) cable diameter; 0.5” (13mm) tip diameter
- Compatible with most meters with standard sized banana plug inputs
- Complete with built-in flex clamp cable, 6.6ft (2m) lead with banana plugs, and two AAA batteries

CA3000 Series 3000A AC Clamp Adaptors

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 400A (1mV per Amp output) and 0 to 40A (10mV per Amp output)
- ±2.5% basic accuracy; CAT III 600V
- DC zero adjust
- Optional CA250-NIST available

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

TP670/3/5 Type K Temperature Probes

- Hands-free superheat/sub-cooling temperature measurement without the use of tape or Velcro®
- Spring-loaded jaw for secure grip on pipes; 0.25” (6.35mm) 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 ±0.5°F
- Complete with attached 36” (0.9m) cable and Type K connector

TP670/3/5 Type K Temperature Probes

TP200 Type K Pipe Clamp Temperature Probe

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

TP200 Type K Pipe Clamp Temperature Probe

CA-EXTECHTB Professional Tool Bag

- Rugged design with rubberized bottom and heavy duty fabric
- Large zippered storage compartment with ten internal side pockets
- Comfortable adjustable and removable shoulder strap
- Two front adjustable straps
- Dimensions: 17x9x11.5” (43.2x22.9x29.2cm); Weight: 4.5lbs (2kg)

CA-EXTECHTB Professional Tool Bag

CA-EXTECHTB Professional Tool Bag

CA-EXTECHTB Professional Tool Bag

CA900 Wide carrying case
- Dimensions: 248x183x51mm
- Strap: 10x5x3"

CA900 Wide carrying case

CA899 Large case with shoulder strap
- Dimensions: 197x133x41mm
- Weight: 6.25x4.5x1"

CA899 Large case with shoulder strap

CA500 Case w/shoulder strap
- Dimensions: 159x114x25mm
- Weight: 4.09x3.0x0.7"

CA500 Case w/shoulder strap

409992 Small carrying case
- Dimensions: 188x89x64mm
- Weight: 7.8x5.3x1.6"

409992 Small carrying case

409993 Medium carrying case
- Dimensions: 254x127x76mm
- Weight: 10x5x3"

409993 Medium carrying case

409994 Large carrying case
- Dimensions: 368x185x94mm
- Weight: 14x7x3.5"

409994 Large carrying case

CA500 Case w/shoulder strap side pockets
- Dimensions: 10.4x3x5.5" (264x76x142mm)

CA500 Case w/shoulder strap side pockets

CA909 Large case with shoulder strap
- Dimensions: 159x114x25mm
- Weight: 4.09x3.0x0.7"

CA909 Large case with shoulder strap

CA899 Large case with shoulder strap
- Dimensions: 197x133x41mm
- Weight: 6.25x4.5x1"

CA899 Large case with shoulder strap

For the name of your local stocking distributor, visit www.extech.com

Indicates products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.

For the name of your local stocking distributor, visit www.extech.com
CT70/CT80 AFCI, GFCI, and AC Circuit Analyzers

- CT70: AC Circuit Analyzer with AFCI
- CT80: AC Circuit Analyzer with GFCI and AFCI
- CT70-AC: Replacement AC Power/Tester Cord
- CB10: Circuit Breaker Finder/Receptacle Tester

CB10-KIT Electrical Troubleshooting Kit

- Handy Electrical Troubleshooting Kit Performs 5 Functions
  - CB10 Circuit Breaker Finder (see below for details) — quickly locate Circuit Breakers with audible and visual alert
  - CT20 Continuity Tester/Wire Tracer (p. 44) — Use Continuity Tester for local continuity or for remote wiring identification; Continuity testing via bright flashing LED and loud pulsating beeper
  - DV20 AC Voltage Detector/Flashlight — Non-Contact Detection of AC Voltage from 100VAC to 600VAC
  - Supplied in a soft carrying case that provides protection and organization for the meters and accessories; 1 year warranty

CB11 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

CB20 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
  - Microprocessor-based automatic sensitivity adjustment
  - Ergonomic design
  - Audible/visual Indication and Low battery indicator
  - Transmitter/Tester: - Tests GFCI circuits
  - Tests Reversed/Open Connections, - Tests GFCI circuits
  - 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: 4.6x2.2x1.4" (118x59x35mm)/3.0oz (91g)
  - Complete with one Receiver, one Transmitter tester, and 9V battery for the Receiver; 1 year warranty

ORDERING
- CB20 Circuit Breaker Finder/Receptacle Tester
- CB10-KIT Electrical Troubleshooting Kit
- CB10 Circuit Breaker Finder/Receptacle Tester
- DB10 Circuit Breaker Finder
- DV20 AC Voltage Detector/Flashlight
- CT70/CT80 AFCI, GFCI, and AC Circuit Analyzers

For the name of your local stocking distributor, visit www.extech.com
**CT20 Continuity Tester Pro/Wire Identifier**

One person operation for wire and cable testing both local and remote
- Provides positive continuity checks with bright flashing LED and loud pulsating beeper
- Identify wire pairs and cables remotely using external probe
- Wire verification distance up to 10,000 ft (3000 m); cable size of 26 AWG minimum
- Flashing remote probe - two lead, bi-colored (red/ green) LED probe allows a single user to identify up to three wires or cables at a time for correct labeling with only one trip to the other end location
- Great for Electricians and Helpdesk, Cable TV and Audio System Installers, Alarm Technicians, HVAC Technicians, and Auto Repair Technicians
- Dimensions: 5.5x2.5x1.5" (140 x 65 x 37 mm); Wt: 1.2 lbs (0.54 kg)
- 1 year warranty
- Includes Remote probe with bi-colored LED for wire identification highlight

**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 two built-in alligator clips with the Receiver
- Cable resistance of 50kΩ max.
- Wire voltage check from 5 to 16VDC max.
- 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

**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 tipping 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 - 9x2.3x1.1" (229x57x28 mm); Generator - 2.5x2.5x1.6" (64x64x38 mm)/Weight: 0.8 lbs (0.37 kg)
- 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

**TG20 Wire Tracer Kit**

Easily trace wires from source to termination
- Transmitter with output cables terminated in modular RJ11 phone connector
- Transmitter injects traceable signal into cables, checks telephone lines, and performs continuity checks
- Non-Contact probe audibly identifies selected wire or cable
- Test for properly operating phone lines
- Adjustable sensitivity control improves wire identification and eliminates false detection
- Continuity test — visible indication
- Dimensions/Weight: Probe - 8.7x2x1.3" (220x50x32 mm) / 3.0 oz (91g); Transmitter - 2.6x2.7x1.1" (65x68x28 mm) / 3.2 oz (91g)
- Complete with Wire Tracer Probe and Transmitter with RJ11 phone connector and pair of alligator clips, and two 9V batteries; 1 year warranty

**BT100 Battery Capacity Tester**

AC milliohmeter 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 6-7 hours, Auto power off to save battery

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

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: 80H, 98H, 400H, 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 0.8 x 1" (159 x 21 x 25 mm); Weight: 1.7oz (48g)
- Complete with two AAA batteries; 1 year warranty

**ORDERING**

- CT20 Continuity Tester Pro
- CT40 16-Line Cable Identifier/Tester Kit
- TG20 Wire Tracer Kit
- BT100 Battery Capacity Tester
- MD10 Non-contact Magnet Detector + Flashlight
LCR200 Passive Component LCR Meter

- 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), ε, 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)

380193 Passive Component LCR Meter

- Measures Inductance, Capacity, 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

ORDERING

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

MS420 20MHz 2-Channel Digital Handheld Oscilloscope

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

ORDERING

MS420 20MHz 2-Channel Oscilloscope
- PWRCORD-MS420 European Power Cord for MS420

Specifications

- True RMS Graphical MultiMeter/Oscilloscopes

LCR203 — Optional SMD Tweezer for sorting out SMD components
LCR205 — Optional SMD Component Fixture

www.extech.com
**382200/382202 Digital Single Output DC Power Supplies**

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**

<table>
<thead>
<tr>
<th>Model</th>
<th>Model 382200</th>
<th>Model 382202</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Accuracy (V, A)</td>
<td>±0.5% (digit); ±5mA</td>
<td>±0.5% (digit); ±5mA</td>
</tr>
<tr>
<td>Voltage Output, DC</td>
<td>35.0 Volts</td>
<td>35.0 Volts</td>
</tr>
<tr>
<td>Current Output, DC</td>
<td>0 – 3.00 Amps</td>
<td>0 – 3.00 Amps</td>
</tr>
<tr>
<td>Ripple and Noise</td>
<td>0.02% + 2mA</td>
<td>0.02% + 2mA</td>
</tr>
<tr>
<td>Line Regulation</td>
<td>&lt;0.01% + 3mV/ 0.2% + 3mA</td>
<td>&lt;0.01% + 3mV/ 0.2% + 3mA</td>
</tr>
<tr>
<td>Load Regulation</td>
<td>&lt;0.01% + 3mV/ 0.2% + 3mA</td>
<td>&lt;0.01% + 3mV/ 0.2% + 3mA</td>
</tr>
<tr>
<td>Power</td>
<td>240V/50Hz/60Hz/4.4A</td>
<td>240V/50Hz/60Hz/4.4A</td>
</tr>
<tr>
<td>Dimensions/Weight</td>
<td>6 x 6 x 2.5&quot;/ 152 x 152 x 63mm/ 1.2 lbs (0.5kg)</td>
<td>6 x 6 x 2.5&quot;/ 152 x 152 x 63mm/ 1.2 lbs (0.5kg)</td>
</tr>
</tbody>
</table>

**ORDERING**

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

**382213 Digital Triple Output DC Power Supply**

Adjustable to 30V/3A with fixed 9V 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**

<table>
<thead>
<tr>
<th>Display</th>
<th>Digital (3½ digit) 0.1 res. LCD</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Voltage/Current Output</td>
<td>0 to 30 Volts / 0 to 3 Amps</td>
</tr>
<tr>
<td>Ripple and Noise</td>
<td>Volts</td>
</tr>
<tr>
<td>Fixed Output Voltage</td>
<td>5V/0.5A (cont.), 1A (max), 12V/0.5A (cont.), 3V/0.5A (Volts)</td>
</tr>
<tr>
<td>Power</td>
<td>150W/150VA; 120VA</td>
</tr>
<tr>
<td>Dimensions/Weight</td>
<td>6 x 5.6 x 9.3&quot;/ 152 x 142 x 242mm/ 11lbs (5kg)</td>
</tr>
</tbody>
</table>

**ORDERING**

- 382213: Digital DC Power Supply, 115/230 VAC

**382260 80 Watt Switching Mode DC Power Supply**

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**

<table>
<thead>
<tr>
<th>Voltage/Current Range</th>
<th>0 to 15 V, 0 to 3A, 0 to 27 V, 0 to 10A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Accuracy</td>
<td>±1%</td>
</tr>
<tr>
<td>Ripple &amp; Noise</td>
<td>&lt;50mVpp</td>
</tr>
<tr>
<td>Line Regulation/Load Regulation</td>
<td>&lt;20mV/ &lt;5mA</td>
</tr>
<tr>
<td>Power</td>
<td>100 to 240VAC, 50/60Hz</td>
</tr>
<tr>
<td>Dimensions/Weight</td>
<td>5.5 x 2 x 4.7&quot;/ 130 x 51 x 119mm/ 2.8 lbs (1.3kg)</td>
</tr>
</tbody>
</table>

**ORDERING**

- 382260: 80 Watt Switching Mode DC Power Supply

**382270 210 Watt Quad Output DC Power Supply**

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**

<table>
<thead>
<tr>
<th>Output Voltage/Current Range</th>
<th>0 to 30 V (cont.), 0 to 30 V (cont.), 0 to 30 V (cont.), 0 to 30 V (cont.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Accuracy</td>
<td>±0.5% ±(2 digits)</td>
</tr>
<tr>
<td>Line/Load Voltage Regulation</td>
<td>±0.05%/±5mA</td>
</tr>
<tr>
<td>Ripple and Noise</td>
<td>&lt;0.05mV/ &lt;0.05mA</td>
</tr>
<tr>
<td>Power</td>
<td>210W/210VA, 50/60Hz</td>
</tr>
<tr>
<td>Dimensions/Weight</td>
<td>10.2 x 6.3 x 5.3&quot;/ 260 x 160 x 135mm/ 26.5lbs (12kg)</td>
</tr>
</tbody>
</table>

**ORDERING**

- 382270: Quad Output DC Power Supply

**382280 200 Watt Triple Output Programmable DC Power Supply**

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**

<table>
<thead>
<tr>
<th>Programmable Voltage/Current Output</th>
<th>0 to 40V (1mA)/ 0 to 5A (1mA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed Outputs</td>
<td>5V/5A and 3.3V/3A</td>
</tr>
<tr>
<td>Ripple &amp; Noise</td>
<td>&lt;3mV</td>
</tr>
<tr>
<td>Line Regulation</td>
<td>1mA</td>
</tr>
<tr>
<td>Power Source</td>
<td>110 or 220VAC, 50/60Hz</td>
</tr>
<tr>
<td>Dimensions/Weight</td>
<td>12.2 x 5.9 x 5.9&quot;/ 310 x 150 x 150mm/ 4.4lbs (2kg)</td>
</tr>
</tbody>
</table>

**ORDERING**

- 382280: Triple Output Programmable DC Power Supply

---

*For the name of your local stocking distributor, visit [www.extech.com](http://www.extech.com)*
DCP60 600W Single Output Lab Grade Switching Power Supply

- 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 knobs for fine/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)
- 1 year warranty
- Complete with power cord and software

**SPECIFICATIONS**

- **Output Voltage**: 1 to 60V
- **Output Current**: 1 to 10A
- **Basic Accuracy**: ±0.05%
- **Load Voltage Regulation**: 50mV
- **Line Voltage Regulation**: 50mV
- **Load Current Regulation**: 100mA
- **Line Current Regulation**: 100mA
- **Ripple and Noise**: <5mVrms, <100mVp-p
- **Dimensions/Weight**: 7.9 x 3.5 x 8.5" (200 x 90 x 215mm)/ 5.7lbs (2.6kgs)

**ORDERING**

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

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

- 1 year warranty
- Complete with power cord
- 1 year warranty
- Thermostatic Control Fan from zero to full speed
- Automatic Constant Current crossover, High RFI immunity and excellent EMI
- Two user-defined Voltage and Current presets and one 13.8V/20A factory preset
- Remote Control for output Voltage/Current and On/Off adjustments
- Voltage/Current and varying test durations (up to 999 cycles)
- Historical Storage 20 records (measured or calculated results)
- Measurement Range 2' to 230' (0.6 to 70m) with or without a target plate
- Volume calculation 999.99 cu. ft. (999.99m3)

**SPECIFICATIONS**

- **Measurement Range**: 2' to 230' (0.6 to 70m)
- **Accuracy**: ±0.06%(±1.5mm)
- **Resolution**: 0.0625" (0.001m)
- **Length Add calculation**: 999.99 ft. (300m)
- **Area calculation**: 999.99 sq. ft. (99.99 m²)
- **Volume calculation**: 999.99 cu. ft. (999.99 m³)
- **Historical Storage**: 20 records (measured or calculated results)
- **Dimensions/Weight**: 4.5 x 1.9 x 1.1" (115 x 48 x 28mm)/ 5.3oz (150g)

**ORDERING**

- DT500 Laser Distance Meter (220V/60Hz) with Bluetooth®

Laser Distance Meters

- Laser distance measurement function and Historical Storage feature (measured or calculated results)
- 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 AA batteries; 1 year warranty

**SPECIFICATIONS**

- **Measurement Range**: 2' to 164' (0.6 to 50m)
- **Accuracy**: ±0.06%(±1.5mm)
- **Resolution**: 0.0625" (0.001m)
- **Length Add calculation**: 999.99 ft. (300m)
- **Area calculation**: 999.99 sq. ft. (99.99 m²)
- **Volume calculation**: 999.99 cu. ft. (999.99 m³)
- **Historical Storage**: Measured or calculated results - 20 records
- **Laser Power Off / Auto Power Off**: After 30 seconds after 3 minutes

**ORDERING**

- DT300 Laser Distance Meter (164ft/50m)
382357 Clamp-On Ground Resistance Tester

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 IV-300V, CAT III-600V
- Autoranging ground resistance and True RMS AC Leakage current measurements
- 0.9” (23mm) Jaw size for large ground rods
- Programmable Hi/Lo alarm
- 1 year warranty

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
- AC Earth Voltage
- Data Hold and Auto Power Off features
- Over-range and low battery indication

ORDERING
GRT300/GT350 4-Wire Earth Ground Resistance/Resistivity Testers

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

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 (current) spike check and Automatic P (potential) spike check
- Test Hold function for easy operation
- AC Earth Voltage
- Data Hold and Auto Power Off features
- Over-range and low battery indication

ORDERING
GRT300/GT350 4-Wire Earth Ground Resistance/Resistivity Testers

UM200 High Resolution Micro-Ohm Meter

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

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 (current) spike check and Automatic P (potential) spike check
- Test Hold function for easy operation
- AC Earth Voltage
- Data Hold and Auto Power Off features
- Over-range and low battery indication

ORDERING
GRT300/GT350 4-Wire Earth Ground Resistance/Resistivity Testers

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

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

For the name of your local stocking distributor, visit www.extech.com
**380580 Battery Powered Milliohm Meter**

- 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**

<table>
<thead>
<tr>
<th>Resistance (Ω)</th>
<th>Resolution (Ω)</th>
<th>Current (mA)</th>
<th>Basic Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000mΩ</td>
<td>0.1mΩ</td>
<td>100mA</td>
<td>±0.5%</td>
</tr>
<tr>
<td>200mΩ</td>
<td>0.1mΩ</td>
<td>10mA</td>
<td>±0.5%</td>
</tr>
<tr>
<td>20mΩ</td>
<td>0.1mΩ</td>
<td>1mA</td>
<td>±0.5%</td>
</tr>
</tbody>
</table>

Dimensions/Weight: 9.8x7.5x4.3” (250x190x110mm)/ 3.3lbs (1.5kg)

**ORDERING**

- 380580 BatteryPoweredMilliohmMeter
- 380585 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/Low/Go resistance testing or selection
- Includes 4-wire cables with Kelvin clip connectors and power cord; 1 year warranty

**Specifications**

<table>
<thead>
<tr>
<th>Resistance (Ω)</th>
<th>Resolution (Ω)</th>
<th>Current (mA)</th>
<th>Basic Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>20mΩ</td>
<td>0.01mΩ</td>
<td>1Ω</td>
<td>±0.3%</td>
</tr>
<tr>
<td>200mΩ</td>
<td>0.1mΩ</td>
<td>100mA</td>
<td>±0.3%</td>
</tr>
<tr>
<td>20Ω</td>
<td>0.1mΩ</td>
<td>10mA</td>
<td>±0.3%</td>
</tr>
<tr>
<td>2Ω</td>
<td>0.1mΩ</td>
<td>1mA</td>
<td>±0.3%</td>
</tr>
</tbody>
</table>

Dimensions/Weight: 6.3x3.8x2.3” (160x97x58mm); Weight: 13oz (369g)

**ORDERING**

- 380560 HighResolutionMilliohmMeter, 110VAC
- 380562 HighResolutionMilliohmMeter, 220VAC
- 380565 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**

<table>
<thead>
<tr>
<th>Resistance (Ω)</th>
<th>Resolution (Ω)</th>
<th>Maximum Voltage (V)</th>
<th>Basic Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000mΩ</td>
<td>0.1mΩ</td>
<td>40VDC</td>
<td>±0.75%</td>
</tr>
<tr>
<td>20mΩ</td>
<td>0.1mΩ</td>
<td>4VDC</td>
<td>±0.75%</td>
</tr>
<tr>
<td>200mΩ</td>
<td>0.1mΩ</td>
<td>400VDC</td>
<td>±0.75%</td>
</tr>
<tr>
<td>20Ω</td>
<td>0.1mΩ</td>
<td>4VDC</td>
<td>±0.75%</td>
</tr>
<tr>
<td>2Ω</td>
<td>0.1mΩ</td>
<td>4VDC</td>
<td>±0.75%</td>
</tr>
</tbody>
</table>

Dimensions/Weight: 6.0x3x4” (150x80x100mm)/ 1.98lbs (900g)

**ORDERING**

- 380460 PrecisionMilliohmMeter, 110VAC
- 380462 PrecisionMilliohmMeter, 220VAC
- 380465 Spare Kelvin Clip Test Lead Set

---

**380320 Analog High Voltage Megohmmeter**

- 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
  - CAT III-1000V
- Dimensions: 6.3x3.8x2.3” (160x97x58mm); Weight: 13oz (369g)
- 1 year warranty
- Includes heavy duty test leads, alligator clip test lead, large probe, and case with neckstrap

**ORDERING**

- 380320 AnalogHighVoltageMegohmmeter

---

**380360 Digital Megohmmeter**

- 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
  - CAT III-600V
- Dimensions: 6.3x3.8x2.3” (160x97x58mm); Weight: 13oz (369g)
- 1 year warranty
- Includes heavy duty test leads, alligator clip test lead, large probe, and case with neckstrap

**ORDERING**

- 380360 DigitalMegohmmeter

---

**380260 Handheld Megohmmeter**

- 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 feature for hands-free operation
  - CAT III-1000V
- Dimensions: 7.9x3.6x2” (200x92x50mm); Weight: 3.5VDC ±0.75%
- 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**

- 380260 HandheldMegohmmeter
## 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 as high as 200GΩ of 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.

### MG325 CAT IV High Range Insulation Tester/TRMS MultiMeter

Autoranging insulation measurements to 200GΩ with 11 ranges:
- **Polarization Index (PI) and Dielectric Absorption**
- **Low Resistance function with Zero mode**
- **Comparison Mode allows user to set the Pass/Fail values for insulation measurements**
- **Step Voltage (10% steps at 50% to 120% of range)**
- **Auto-discharge of voltage test signal**
- **Lock Power On Function for hands-free operation**
- **Manually store/recall up to 99 readings**
- **Backlit display with analog bargraph**
- **High voltage and overload indication**
- **Data Hold and Auto Power Off**
- **Complete with test leads, alligator clip, 6 AA batteries, and soft case**

### MG300 CAT IV Insulation Tester/TRMS MultiMeter with Wireless (915MHz) PC Interface

Autoranging insulation measurements to 45GΩ:
- **Wireless USB interface transmits measurement data to a PC**
- **Large backlit triple display**
- **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 AA batteries**

### MG302 CAT IV Insulation Tester/TRMS MultiMeter with Wireless (433MHz) PC Interface

Autoranging insulation measurements to 4GΩ:
- **Wireless USB interface transmits measurement data to a PC**
- **Large backlit triple display**
- **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 AA batteries**

---

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>MG325</th>
<th>MG300 (915MHz)</th>
<th>MG302 (433MHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Insulation Resistance</strong> (Ω) (max resolution)</td>
<td>50GΩ, 100GΩ, 200GΩ, 500GΩ, 1KΩ, 10KΩ, 20KΩ, 50KΩ, 100KΩ, 200KΩ (0-10V TRMS)</td>
<td>45GΩ, 90GΩ, 180GΩ, 450GΩ (0.01Ω)</td>
</tr>
<tr>
<td><strong>Basic Accuracy</strong></td>
<td>±3%</td>
<td>±3%</td>
</tr>
<tr>
<td><strong>Insulation Test Voltages</strong></td>
<td>50V, 100V, 250V, 500V, 1000V</td>
<td>125V, 250V, 500V, 1000V</td>
</tr>
<tr>
<td><strong>Low Resistance Test</strong></td>
<td>0.01 to 10GΩ</td>
<td>0 to 40GΩ</td>
</tr>
<tr>
<td><strong>MultiMeter Functions</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>AC/DC Voltage (max resolution)</strong></td>
<td>600V (0.01%)</td>
<td>1000V (0.1%) AC/0.1V DC</td>
</tr>
<tr>
<td><strong>AC/DC Current (max resolution)</strong></td>
<td>AC Leakage, 200µA (15A)</td>
<td>10A (0.1A AC/0.1A DC)</td>
</tr>
<tr>
<td><strong>Resistance (max resolution)</strong></td>
<td>10MΩ (0.1%)</td>
<td>49MΩ (0.1%)</td>
</tr>
<tr>
<td><strong>Frequency (max resolution)</strong></td>
<td>10MHz (0.001%)</td>
<td>1000MHz (0.001%)</td>
</tr>
<tr>
<td><strong>Capacitance (max resolution)</strong></td>
<td>400pF (0.001%)</td>
<td>400pF (0.001%)</td>
</tr>
<tr>
<td><strong>Duty Cycle (max resolution)</strong></td>
<td>0.1 to 99.9% (0.01%)</td>
<td>0.1 to 99.9% (0.01%)</td>
</tr>
<tr>
<td><strong>Temperature (max resolution)</strong></td>
<td>-58 to 1832°F (-50 to 1000°C (0.1))</td>
<td>-58 to 1832°F (-50 to 1000°C (0.1))</td>
</tr>
<tr>
<td><strong>4-20mA% (max resolution)</strong></td>
<td>±3%</td>
<td>±3%</td>
</tr>
<tr>
<td><strong>Continuity Audible</strong></td>
<td>Audible</td>
<td>Audible</td>
</tr>
<tr>
<td><strong>CE, FCC</strong></td>
<td>CE, FCC</td>
<td>CE, FCC</td>
</tr>
<tr>
<td><strong>Dimensions/Weight</strong></td>
<td>8 x 6 x 2.3” (203 x 152 x 58mm) (1.6lbs (0.7kg))</td>
<td>8.4 x 3.6 x 1.3” (235 x 92 x 33mm) (20.5oz (58g))</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>1 year</td>
<td>1 year</td>
</tr>
</tbody>
</table>

Note: Most countries use 433MHz (not for USA, Mexico, and Canada)

See Special Value Kits on p. 19

For the name of your local stocking distributor, visit www.extech.com

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Preventative Maintenance Works!

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

**MG310 Compact Digital Insulation Tester**
- Measurements up to 1000V with Insulation Resistance to 5.5GΩ
  - 250V, 500V, and 1000V test voltages
  - AC Voltage measurement from 30 to 600V
  - Large 2000 count dual display with backlight
  - Polarization Index measurement (PI)
  - Dielectric Absorption Ratio (DAR)
  - 10Mohm internal resistance test
  - Low Resistance measurement with Zero function
  - Continuity beeper
  - High voltage and overload indication
  - Auto-discharge and voltage output warning functions
  - Low battery indication
  - Complete with test leads, alligator clips, 6 x AA batteries, hard cover, and soft carrying case

**380363 Digital Insulation Tester**
- Autoranging insulation measurements to 10GΩ 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

**MG500 Digital High Voltage Insulation Tester**
- High test Voltages up to 10kV with Insulation Resistance to 500GΩ
  - Test Voltages of 500V to 10kV (adjustable in 500V steps)
  - Polarization Index (PI) measurement
  - Dielectric Absorption Ratio (DAR) measurement
  - EnerSav™ 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

**380395/380396 Digital High Voltage Insulation Tester**
- High test Voltages up to 5kV with Insulation Resistance to 60GΩ
  - Test Voltages of 500V, 1000V, 2500V, and 5000V
  - Large 6000 count display with bargraph and backlight
  - Polarization Index (PI) measurement
  - Dielectric Absorption Ratio (DAR) 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

**380363** / L13458
**380395** / L13458
**380396** / L13458

For the name of your local stocking distributor, visit www.extech.com
3-Phase Power Quality Analyzer/Dataloggers

Choice of Numerical or Graphical display with Harmonics model
- Large, dot-matrix, sun-readable, numerical, backlit LCD
- Captured measurements can be imported directly into Excel via the SD memory card
- Adjustable Current Transformer CT (1 to 600) and Potential Transformer PT (1 to 1000) ratio for high power distribution systems
- Log up to 30,000 readings 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

**Model 382100 Kits** — includes three 1200A Clamp probes;
Model PQ3470 — clamp probes sold separately
- Complete with 4 voltage leads with alligator clips, 8 AA batteries, SD memory card, Universal AC adaptor (100 to 240V), and durable carrying case; 1 year warranty

**Model PQ3470 Additional Features**
- Optional 200A, 1200A Current Clamps or 300A Flexible Current Probes
- 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 (%)
**EMF450 Multi-Field EMF Meter**

Convenient 3-in-1 EMF meter with easy-to-navigate menu and audible alarm
- Multi-Field measurements: Magnetic Field, Electric Field, Radio Frequency Strength
- Magnetic Field Triple Axis Sensor (X, Y, Z)
- 2.4" x 320x240 pixel color TFT display with adjustable screen brightness
- Store up to 20 RF historical records
- Data Hold and Auto Power Off with disable feature
- Five languages: English, Traditional/Simplified Chinese, Japanese, Spanish

Includes 3 AAA batteries and USB power supply 1 year warranty

**Specifications**

- **Magnetic Fields (50Hz)**
  - 2000/20000 µT
  - 10% Average
- **Electric Fields (50/60Hz)**
  - 3500V/m
  - 10% Average
- **RF Strength (EMF from 50MHz to 3GHz)**
  - 0.02uW/m² to 554.6mW/m²
  - 0.02µW/m²
- **Dimensions/Weight**
  - 4.5 x 2.4 x 0.8" (115 x 60 x 21mm)
  - 4.2oz (120g)

**Ordering**

EMF450 Multi-Field EMF Meter

---

**480846 8GHz RF EMF Strength Meter**

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 and microwave leakage
- Non-directional (isotropic) measurement with 3-channel (triaxial) measurement probe
- Max Hold and Average functions; Audible alarm with user selectable threshold

Includes 9V battery; 1 year warranty

**Specifications**

- **Frequency range**
  - 10MHz to 8GHz
- **Directional Characteristic**
  - Isotropic, 3-dimensional
- **Measurement Ranges**
  - 20mV/m to 199.9V/m
  - 0.02µA/m to 386.4mA/m
  - 0.2mV/m to 14.4V/m
- **Dimensions/Weight**
  - 2.4 x 2.4 x 9.3" (60 x 60 x 237mm)
  - 7.1oz (200g)

**Ordering**

480846 8GHz RF EMF Strength Meter

---

**480836 3.5GHz RF EMF Strength Meter**

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

Includes 9V battery and carrying case; 1 year warranty

**Specifications**

- **Frequency range**
  - 50MHz to 3.5GHz
- **Directional Characteristic**
  - Isotropic, 3-dimensional
- **Measurement Ranges**
  - 20mV/m to 199.9V/m
  - 0.02µA/m to 386.4mA/m
  - 0.2mV/m to 14.4V/m
- **Dimensions/Weight**
  - 2.6 x 2.4 x 9.7" (67 x 60 x 247mm)
  - 8.8oz (250g)

**Ordering**

480836 3.5GHz RF EMF Strength Meter
Extech infrared thermometers provide non-contact, point-and-shoot temperature measurements ensuring safety and accuracy on the job.

MINI INFRARED THERMOMETERS

Tough, Reliable and Accurate

Extech infrared thermometers provide non-contact, point-and-shoot temperature measurements ensuring safety and accuracy on the job.

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

IR400 630°F (332°C), 8:1, Compact Laser IR Thermometer
Compact thermometer with MIN/MAX readings
- MAX/MIN features display highest and lowest values
- Built-in laser pointer identifies target area
- 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

IR260 752°F (400°C), 12:1, Compact Laser IR Thermometer
Compact thermometer with high accuracy
- Programmable high/low alarm set limits
- Adjustable emissivity for better accuracy on different surfaces
- MAX/MIN features display highest and lowest values
- Built-in laser pointer identifies target area
- Backlighting
- Auto power off
- Complete with 9V battery and pouch case

IR425 1200°F (650°C), 12:1, Compact Laser IR Thermometer
Compact thermometer with high accuracy
- Programmable 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
- Auto power off
- Complete with 9V battery and pouch case

IR267 1112°F (600°C), 12:1, IR Thermometer with Type K Input
Displays Air Temperature and IR or Type K
- Wide temperature range for non-contact InfraRed and Type K thermocouple measurements
- Measures Ambient (Air) Temperature
- Adjustable emissivity for better accuracy on different surfaces
- Adjustable high/low visual and audible alarm
- MAX/MIN AVG and DIFF for differential temperature reading
- LCD display with backlight
- Built-in laser pointer
- Data Hold, Auto power off, and Low battery indication
- Includes 9V battery and general purpose type K bead wire probe

For a variety of Type K Thermocouple temperature probes see pages 41 and 70

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>IR201A</th>
<th>IR400</th>
<th>IR260</th>
<th>IR425</th>
<th>IR267</th>
</tr>
</thead>
<tbody>
<tr>
<td>IR Temperature (Non-contact)</td>
<td>518°F (270°C)</td>
<td>630°F (332°C)</td>
<td>752°F (400°C)</td>
<td>1200°F (650°C)</td>
<td>1112°F (600°C)</td>
</tr>
<tr>
<td>Basic Accuracy</td>
<td>±2.5% (at 32°F/0°C)</td>
<td>±2% of reading +3°F/2°C</td>
<td>±4% of reading +3°F/2°C</td>
<td>±1% of reading +3°F/2°C</td>
<td>±1.5% of reading +3°F/2°C</td>
</tr>
<tr>
<td>Max. Resolution</td>
<td>6:1</td>
<td>8:1</td>
<td>12:1</td>
<td>12:1</td>
<td>12:1</td>
</tr>
<tr>
<td>Emissivity</td>
<td>0.1 to 1.0 adjustable</td>
<td>0.1 to 1.0 adjustable</td>
<td>0.1 to 1.0 adjustable</td>
<td>0.1 to 1.0 adjustable</td>
<td>0.1 to 1.0 adjustable</td>
</tr>
<tr>
<td>Field of view (Distance to Target)</td>
<td>6:1</td>
<td>8:1</td>
<td>12:1</td>
<td>12:1</td>
<td>12:1</td>
</tr>
<tr>
<td>Dimensions</td>
<td>3.7x2.1x1.25” (94x51x25mm)</td>
<td>3.2x1.8x0.9” (82x46x23mm)</td>
<td>3.8x1.8x0.9” (97x46x25mm)</td>
<td>3.2x1.8x3.3&quot; (82x46x83mm)</td>
<td>4.7x1.7x0.9” (120x42x23mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>2.7oz (76g)</td>
<td>3.5oz (100g)</td>
<td>6oz (170g)</td>
<td>6oz (170g)</td>
<td>4.8oz (139g)</td>
</tr>
<tr>
<td>Warranty</td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
<td>3 years</td>
</tr>
</tbody>
</table>

For the name of your local stocking distributor, visit www.extech.com

Non-contact InfraRed & Contact Thermometers
**THERMOMETERS**

**INFRARED**

Fast responding, 100-millisecond response time enables faster measurements. Extech’s Dual-laser IR temp gun accurately measures smaller surface areas at greater distances. Dual Laser IR Thermometer measures smaller surface areas at greater distances. Fast responsive, wide temperature ranges. Extech’s Dual-laser IR temp gun accurately detects temperatures at far distances, and the 100-millisecond response time enables faster hot spot scanning.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Range</th>
<th>Basic Accuracy</th>
<th>Repeatability</th>
<th>Max. Resolution</th>
<th>Emissivity</th>
<th>Field of View</th>
<th>CE approved</th>
<th>Dimensions/Weight</th>
<th>Warranty</th>
</tr>
</thead>
<tbody>
<tr>
<td>42509</td>
<td>-67° to 900°F (-50 to 510°C)</td>
<td>±0.5% or ±2°F/1°C</td>
<td>±0.5% or ±2°F/1°C</td>
<td>0.1°F/°C</td>
<td>0.1 to 1.0 Adjustable</td>
<td>10:1</td>
<td>5.7 x 4 x 1.9 (144 x 104 x 48 mm)</td>
<td>7.5 oz (153 g)</td>
<td>3 years</td>
</tr>
<tr>
<td>42512</td>
<td>-58° to 1832°F (-50 to 1000°C)</td>
<td>±0.5% or ±2°F/1°C</td>
<td>±0.5% or ±2°F/1°C</td>
<td>0.1°F/°C</td>
<td>0.1 to 1.0 Adjustable</td>
<td>30:1</td>
<td>5.7 x 4 x 1.9 (144 x 104 x 48 mm)</td>
<td>5.7 oz (153 g)</td>
<td>3 years</td>
</tr>
<tr>
<td>42540</td>
<td>-58° to 1400°F (-50 to 760°C)</td>
<td>±0.5% or ±2°F/1°C</td>
<td>±0.5% or ±2°F/1°C</td>
<td>0.1°F/°C</td>
<td>0.1 to 1.0 Adjustable</td>
<td>16:1</td>
<td>5.7 x 4 x 1.9 (144 x 104 x 48 mm)</td>
<td>7.5 oz (153 g)</td>
<td>3 years</td>
</tr>
<tr>
<td>42545</td>
<td>-58° to 1832°F (-50 to 1000°C)</td>
<td>±0.5% or ±2°F/1°C</td>
<td>±0.5% or ±2°F/1°C</td>
<td>0.1°F/°C</td>
<td>0.1 to 1.0 Adjustable</td>
<td>50:1</td>
<td>5.7 x 4 x 1.9 (144 x 104 x 48 mm)</td>
<td>10.2 oz (290 g)</td>
<td>3 years</td>
</tr>
<tr>
<td>42570</td>
<td>-58° to 3992°F (-50 to 2200°C)</td>
<td>±0.5% or ±2°F/1°C</td>
<td>±0.5% or ±2°F/1°C</td>
<td>0.1°F/°C</td>
<td>0.1 to 1.0 Adjustable</td>
<td>50:1</td>
<td>5.7 x 4 x 1.9 (144 x 104 x 48 mm)</td>
<td>10.2 oz (290 g)</td>
<td>3 years</td>
</tr>
</tbody>
</table>

**Additional Features**

- Double molded housing
- Adjustable High/Low set points
- Adjustable emissivity
- Lock function for continuous readings
- Max Hold
- Fast responding, wide temperature ranges
- Fast 150 millisecond response time
- Blue backlit dual LCD display
- Fast, accurate measurements
- Great for processes and monitoring
- Audible alarm
- Red or blue display and programmable alarm with audible alarm
- Fast responding, wide temperature ranges
- Color Alert (510°C), 12:1, IR Laser, 950°F
- Color Alert (1000°C), 30:1, IR Laser, 1832°F
- Color Alert (2200°C), 50:1, Dual Laser, IR Thermometer
- Fast responding, wide temperature ranges
- Extech’s Dual-laser IR temp gun accurately detects temperatures at far distances, and the 100-millisecond response time enables faster hot spot scanning.

**Watch the Video**

For the name of your local stocking distributor, visit www.extech.com.
**Video InfraRed Thermal & Condensation Scanners**

**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

**SPECIFICATIONS**

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

**ORDERING**

VIR50 /L13458 Dual Laser Video IR Thermometer

Includes microSD card, general purpose Type K bead wire probe, USB cable, rechargeable 3.7V battery, and carrying case; 3 year warranty. (See p. 41 and 70 for additional optional Type K Thermocouple probes)

**IRT600 Dual Laser IR Thermal Condensation Scanner**

- 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**

<table>
<thead>
<tr>
<th>IR Temperature Range</th>
<th>-22 to 662°F (-30 to 350°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Accuracy</td>
<td>±(1% of rdg + 2.7°F/1.5°C)</td>
</tr>
<tr>
<td>Resolution</td>
<td>±0.5% of rdg ±2°F/1°C</td>
</tr>
<tr>
<td>Emissivity</td>
<td>0.95 fixed</td>
</tr>
<tr>
<td>Humidity</td>
<td>20 to 80%RH</td>
</tr>
<tr>
<td>Distance to Target</td>
<td>12:1</td>
</tr>
<tr>
<td>Dimensions/ Weight</td>
<td>6.6x3.2x2.3” (168x82x58mm)/ 5.7oz (163g)</td>
</tr>
</tbody>
</table>

**ORDERING**

IRT600 /L13458 Dual Laser IR Thermal Condensation Scanner

Includes microSD card, general purpose Type K bead wire probe, USB cable, rechargeable 3.7V battery, and carrying case; 3 year warranty; (See p. 41 and 70 for additional optional Type K Thermocouple probes)

**IR300UV IR Thermometer with UV Leak Detector**

- 4-in-1 Thermometer features a non-contact IR Thermometer, UV Leak Detector, bright Flashlight, and a unique coaxial Distance-to-Spot laser
- Non-contact IR Thermometer measures temperature up to 932°F (500°C)
- UV Leak Detector with 5 UV/Blue LEDs (460-470nm)
- Coaxial laser displays a circular representation of the target area
- Programmable High/Low Temperature set points with audible and visual alarm
- Adjustable emissivity for better accuracy on different surfaces
- MAX/MIN/AVG/DIF displays highest, lowest, average, and Max minus Min values
- Bright flashlight with 5 white LEDs
- Automatic data hold when trigger is released
- Auto power off
- Complete with three AA batteries

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>IR Temperature</th>
<th>-22 to 932°F (-30 to 500°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>±0.5% of rdg ±2°F/1°C</td>
</tr>
<tr>
<td>Basic Accuracy</td>
<td>±3°F/±1.5°C whichever is greater</td>
</tr>
<tr>
<td>Emissivity</td>
<td>0.10 to 1.00 Adjustable</td>
</tr>
<tr>
<td>Repeatability</td>
<td>±1.5% rdg or ±3°F/±1.5°C whichever is greater</td>
</tr>
<tr>
<td>Distance to Target</td>
<td>12:1</td>
</tr>
<tr>
<td>Dimensions/ Weight</td>
<td>4.1 x 2.1 x 7.3” (104 x 54 x 185mm)/ 10.6oz (300g)</td>
</tr>
</tbody>
</table>

**ORDERING**

IR300UV IR Thermometer with Leak Detector

Includes microSD card, general purpose Type K bead wire probe, USB cable, rechargeable 3.7V battery, and carrying case; 3 year warranty; (See p. 41 and 70 for additional optional Type K Thermocouple probes)

**IR300UVIR Thermometer and UV Leak Detector**

- Unique Distance-to-Spot coaxial guidance laser and UV detection of refrigerant leak

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>IR Temperature Range</th>
<th>-22 to 932°F (-30 to 500°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repeatability</td>
<td>±0.1°F/°C</td>
</tr>
<tr>
<td>Basic Accuracy</td>
<td>±(1% of rdg + 2°F/1°C)</td>
</tr>
<tr>
<td>Resolution</td>
<td>±0.8% rdg or ±2°F/±1°C whichever is greater</td>
</tr>
<tr>
<td>Emissivity</td>
<td>0.10 to 1.00 Adjustable</td>
</tr>
<tr>
<td>Distance to Target</td>
<td>12:1</td>
</tr>
<tr>
<td>Dimensions/ Weight</td>
<td>4.1 x 2.1 x 7.3” (104 x 54 x 185mm)/ 10.6oz (300g)</td>
</tr>
</tbody>
</table>

**ORDERING**

IR300UV Dual Laser IR Thermometer

Includes microSD card, general purpose Type K bead wire probe, USB cable, rechargeable 3.7V battery, and carrying case; 3 year warranty; (See p. 41 and 70 for additional optional Type K Thermocouple 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 page 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 page 41)

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 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 pages 41 and 70)

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 pages 41 and 70)

EA15 EasyView® 7 Thermocouple Datalogger
Internal memory stores up to 8800 data sets
• Seven Thermocouple type selections: K, J, T, E, R, S, N
• Large backlit display
• Stores Time, T1 and T2
• Manual push-button datalogging or automatic with programmable sample rate of 3 to 355 seconds per reading
• Manual record/recall of data
• Data Hold and Auto power off
• MAX/MIN/AVG or MAX/MIN with elapsed time
• Complete with two general purpose Type K bead wire temperature probes, Windows® compatible software, USB cable, protective holster, case, and 6 AAA batteries. (Optional temperature probes available on pages 41 and 70)
**Track Temperature Trouble with Extech**

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

### 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

### SD200 3-Channel Temperature Datalogger

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

- Triple LCD simultaneously displays 3 Type-K Temperature channels
- Datalogger date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC
- Selectable data sampling rate: 5, 10, 30, 60, 120, 300, 600 seconds or Auto
- Complete with (6) AAA batteries, SD card, Universal AC Adapter, (3) Type-K bead wire 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 using SD card (included)
- User programmable sampling rate from 1 to 3600 seconds
- Records readings with real date and time stamp
- Manual store/recall of up to 99 records
- Min/Max and Data Hold functions
- Offset adjustment used for zero function to make relative measurements
- Auto Power off with disable
- Includes four general purpose Type K bead wire temperature probes, SD card, hard case, and 6 AA batteries; Optional AC Adapter UA100- 240 and RTD probe (850185)

### TM500 12-Channel Datalogging Thermometer

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

- Simultaneously displays CH1 to CH8 or CH9 to CH12
- Offset adjustment used for zero function or to make relative measurements
- Stores 99 readings manually and datalogging using SD card (included)
- Records readings with data 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

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**ACCESSORIES** (See p. 41 and 70 for details and additional temperature probes)

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TP200 Type K Clamp Probe</td>
<td>-4 to 200°F</td>
<td>-4 to 200°C</td>
</tr>
<tr>
<td>TP670 Type K Bead wire Probe</td>
<td>-328 to 2102°F</td>
<td>-192 to 1150°C</td>
</tr>
<tr>
<td>TP630 Type J Bead wire Probe</td>
<td>-328 to 392°F</td>
<td>-192 to 210°C</td>
</tr>
<tr>
<td>TM500 Type J, K 100m General Purpose Temperature Probe</td>
<td>-328 to 1370°C</td>
<td>-192 to 750°C</td>
</tr>
<tr>
<td>SD200 Type K, -68°F to 302°F</td>
<td>-20 to 150°C</td>
<td></td>
</tr>
<tr>
<td>SD870 Type K, -4°F to 122°F</td>
<td>-20 to 70°C</td>
<td></td>
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<tr>
<td>UD882 Type K, -148°F to 2372°F</td>
<td>-100 to 1300°C</td>
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**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>421502</th>
<th>SD200</th>
<th>SDL200</th>
<th>TM500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Inputs</td>
<td>Dual</td>
<td>Triple</td>
<td>Twelve</td>
</tr>
<tr>
<td>Type K °F (°C)</td>
<td>-328 to 2102°F (-200 to 1150°C)</td>
<td>-328 to 1922°F (-200 to 1050°C)</td>
<td>-328 to 1922°F (-200 to 1050°C)</td>
</tr>
<tr>
<td>Type J °F (°C)</td>
<td>-328 to 1922°F (-200 to 1050°C)</td>
<td>-328 to 1922°F (-200 to 1050°C)</td>
<td>-328 to 1922°F (-200 to 1050°C)</td>
</tr>
<tr>
<td>Basic Accuracy</td>
<td>±0.05% rdg</td>
<td>±0.4% rdg (+1.8°F/+1°C)</td>
<td>±0.4% rdg (+2°F/+1°C)</td>
</tr>
<tr>
<td>Max. Resolution</td>
<td>0.1°F/0.1°C</td>
<td>0.1°F/0.1°C</td>
<td>0.1°F/0.1°C</td>
</tr>
<tr>
<td>Datalogging</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>CE approved</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Dimensions/Weight</td>
<td>7.08x2.5x1.6” (180x64x41mm)/12oz (340g)</td>
<td>5.2x3.5x1.3” (132x90x32mm)/10oz (285g)</td>
<td>5.2x3.5x1.3” (132x90x32mm)/10oz (285g)</td>
</tr>
<tr>
<td>Warranty</td>
<td>1 year</td>
<td>1 year</td>
<td>3 years</td>
</tr>
</tbody>
</table>

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**Indicates products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.**

See desktop or Pocket style Temperature Indicators on p. 74-75

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For the name of your local stocking distributor, visit [www.extech.com](http://www.extech.com)
**TM26 Waterproof Food Thermometer — NSF Certified**

- NSF certified Food Thermometer with long stainless steel penetration probe for measuring in liquids, pastes, and semi-solid food
- Complete with CR2032 battery; 1 year warranty
- Dimensions: 4.6x1.5x0.8" (116 x 38 x 20mm); Weight: 1.5oz (41.2g)
- Dishwasher safe (top rack)
- Probe can be positioned from 0° (storage) to 180° angle
- Auto power off (with disable) after 1 hour or when probe is placed in stored position
- Large LCD display with 0.1° resolution
- Measures from -40 to 482°F (-40 to 250°C) with 2.4" (61mm) stainless steel probe

**TM55 Waterproof Pocket Fold-Up Food Thermometer — NSF Certified**

- NSF certified for measuring in liquids, pastes, and semi-solid food
- Ideal for use in food industry, agriculture, and laboratories
- Built-in magnet for mounting on metal surfaces
- Dishwasher safe construction (IP65) with folding stainless steel probe is NSF certified
- Complete with weatherproof temperature sensor with 9.6ft (3m) thin cable, stand, AAA battery, and wall mounting bracket
- Indoor Range: 14 to 140°F (-10 to 60°C)
- Resolution: 0.1°/1°C
- Basic accuracy: ±2°F/1°C
- Temperature Indicators and Pedometer

**39240 Waterproof Thermometer**

- Built-in memory stores Minimum and Maximum Temperature readings
- Large LCD displays 1" (25mm) digits
- Auto power off after 1 hour or when probe is placed in stored position
- Probe can be positioned from 0° (storage) to 180° angle
- Ultra-sonically welded housing (IP66 rated) with anti-microbial additive
- Built-in magnetized chip attaches to refrigerator
- Dishwasher safe (top rack)
- Dimensions: 4.6x1.5x0.8" (116 x 38 x 20mm); Weight: 1.5oz (41.2g)
- Complete with CR2032 battery; 1 year warranty

**392050 Penetration Dial Thermometer**

- Pocket-size with MAX/MIN recording
- 2.75" (70mm) Stainless steel stem
- Data Hold and Auto power off
- Range: -58 to 302°F (-50 to 150°C)
- Basic accuracy: ±2°F/1°C
- Dimensions: 5.9x0.8x0.7" (150x20x18mm); Weight: 0.7oz (20g)
- 1 year warranty
- Complete with one LR44 button battery and protective cover

**401014 Indoor/Outdoor Thermometer**

- 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
- Dimensions: 3.4Lx2.2Hx1.2"D (86Lx57Hx30D mm)
- Weight: 6.5oz (186g)

**TM20/TM25 Waterproof Temperature Indicators**

- Coaxial model with stainless steel short probe or long penetration probe
- TM20: 0.78" (20mm) probe; 9.6ft (3m) 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)
- Magnetic back, Waterproof (IP65) housing
- Dimensions: 3.4x2.0x1.2" (85x57x30mm); Weight: 3.2oz (90g)
- Complete with magnetic back, foot stand, probe, and one CR2032 3V button battery; 1 year warranty

**PD20 Thermo-Pedometer**

- 3D Sensor design plus Temperature
- 3D motion sensor design allows for the matter to be fully functional regardless of its orientation
- Uses an intelligent algorithm to filter out non-walking movements
- Functions:
  - Number of Steps: 0 to 99,999 (adjustable step length)
  - Temperature: 14 to 122°F (-10 to 50°C)
  - Calorie consumption: 0 to 99,999kcal
  - Fat burned: 0 to 35.9oz (0 to 999.9g)
  - Distance covered: 0 to 624.99mi (0 to 999.99 km)
- Time: 12/24 hour format
- Average speed: 0 to 6.2mi/h (0 to 10km/h)
- Continuous Step mode records the number of steps users walked continuously through the day (record up to 7 days)
- Total Step mode displays the total accumulated steps user walked after 7-day storage
- After midnight, readings are automatically stored
- Auto power saving mode when meter detects no movement for 10 minutes (will then only display time)
- Includes case with window opening for display viewing and belt-clip; 1 year warranty

For the name of your local stocking distributor, visit www.extech.com

For indicators products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.
**THD5 USB Single Use Temperature Datalogger**

Portable, one-time use USB Temperature Datalogger (USB 2.0 connector)
- Convenient credit card-sized housing with USB 2.0 connector and NTC thermistor for one-time use in data logging accurate temperature measurements
- Waterproof (IP66) when in sealed plastic bag
- User programmable settings: language, sample rate, start delay time, alarm delay time, high/low alarm range, and security feature
- Status indication via Red and Green LEDs
- Start button begins data logging until memory is full or when Stop button is pressed
- Bookmark 8 locations in a data recording log with a press of the Mark button
- Automatically generates a PDF report with data and trending graph when plugged into a PC after data logging is completed (Adobe® Reader® software is required)
- Complete with 10 data logging units, each with a CR2032 button battery
- 1-year battery life; Dimensions: 5.1x1.1x0.9” (130x30x25mm)/Wt: 1oz (20g)
- Measures from -40 to 158°F (-40 to 70°C)
- User-programmable settings: language, sample rate, start delay time, alarm delay time, high/low alarm range, and security feature
- Status indication via Red and Green LEDs
- Start button begins data logging until memory is full or when Stop button is pressed
- Bookmark 8 locations in a data recording log with a press of the Mark button
- Automatically generates a PDF report with data and trending graph when plugged into a PC after data logging is completed (Adobe® Reader® software is required)
- Complete with 10 data logging units, each with a CR2032 button battery
- 1-year battery life; Dimensions: 5.1x1.1x0.9” (130x30x25mm)/Wt: 1oz (20g)
- Measures from -40 to 158°F (-40 to 70°C)
- Complete with built-in stand and three C size batteries; 1 year warranty

**Specifications**
- Range: -40 to 158°F (-40 to 70°C)
- Resolution: ±1.8°F/1°C
- Basic Accuracy: ±1.8°F/1°C

**Ordering**
- THD5 USB Temperature Datalogger (10 units/pack)

**NEW**

Includes 10 dataloggers

Perfect for monitoring temperature readings for food, pharmaceuticals, and other cold chain goods during shipment

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**445702 Hygro-Thermometer Clock**

Combines three displays for Temperature, Time, and Humidity
- Clock display 12/24 hour time
- MAX/MIN with “hold” function
- Simultaneous display of Time, Temperature (14 to 140°F/-10 to 60°C) and Humidity (10 to 85% RH)
- Max resolution: 0.1°F, 1%
- Basic Accuracy: ±1.8°F/1°C and ±6%RH
- Temperature is “C” switchable
- Programmable clock alarm
- Dimensions: 4.3x0.8x3.8” (109x71x20mm); Weight: 4 oz (113g)
- 1 year warranty
- Complete with stand, wall mounting bracket, and one AAA battery

**445706 Wall Mount Radio Controlled Clock + Hygro-Thermometer**

Large digital calendar clock is perfect for desk top or wall mount orientation
- Simultaneous display of Time, Date, Temperature (23 to 113°F/-5 to 45°C) and Humidity (20% to 90%RH)
- Max resolution: 1°, 1%
- Basic Accuracy: ±2°F/1°C and ±5%RH
- Calendar displays day, date and month
- Audible alarm clock with snooze function (recommended use only for desk top mount)
- MIN/MAX function
- Five languages to choose from: English, French, German, Spanish and Italian
- Dimensions: 11.8x8.7x1.3” (300x221x24mm); Weight: 21.4oz (608g)
- Complete with desktop and two AA batteries; 1 year warranty

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

4.3” (109mm) digit time display receives Time Code from NIST Radio Station
- Receives Time Code from NIST Radio Station WWVB (North American region) to maintain accuracy within 1 second (North America region)
- Signal indicator displays signal strength in 3 levels to indicate successful synchronization
- LCD displays Time, Relative Humidity (20 to 99%RH), Temperature (32 to 122°F/0 to 50°C), Year, Month, Date, and Day
- Basic Accuracy: ±2°F/1°C and ±6%RH
- Max resolution: 0.1°F, 1%
- Temperature is °C/°F switchable
- Basic Accuracy: ±1.8°F/1°C and ±6%RH
- Time can be displayed as 12 or 24 hour format
- Large 4.3” (109mm) digit clock display can be easily viewed from a distance
- Automatically adjusts for daylight savings time (DST)
- Programmable Alarm Clock with snooze feature
- Built-In stand for desktop or wall mount
- Dimensions: 16.8x11.5x1.3” (426x292x32mm); Weight: 21.4oz (608g)
- Complete with built-in stand and three C size batteries; 1 year warranty

**Ordering**

CTH10A Radio Controlled Wall Clock/Hygro-Thermometer

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For the name of your local stocking distributor, visit [www.extech.com](http://www.extech.com)

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Indicates products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.
**Big Digit Hygro-Thermometers and Humidity Alerts**

**445703/445715 Big Digit Hygro-Thermometers**

- Large dual LCD display for easy viewing
- Simultaneous display of Temperature (14°F to 140°F / -10°C to 60°C) and Humidity (10% to 99% RH)
- Basic accuracy of ±1.8°F/1°C and ±5% RH

**Model 445703**
- Designed for indoor use
- Includes remote probe
- Rear calibration adjustment pot for Humidity and Temperature

**Model 445715**
- Designed for indoor and outdoor use
- Includes remote probe
- Rear calibration adjustment pot for Humidity and Temperature

**Optional Calibration**
- Optional calibration salt bottles (RH300-CAL)
- Optional calibration traceable to NIST

**Ordering Information**
- Model 445703
- Model 445715

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**Humidity Alerts**

**445814/445815 Humidity Alerts**

- Programmable Alarm warns when humidity level is too high or too low
- Includes remote probe
- Rear calibration adjustment pot for Humidity and Temperature
- Includes remote probe

**445814**
- Complete with built-in sensor and protective connector cap
- Batteries included

**445815**
- Complete with built-in sensor and protective connector cap
- Batteries included

**Model RH30/RH35 Humidity Alerts**

- Programmable Alarm warns when humidity level is too high or too low
- Includes remote probe
- Rear calibration adjustment pot for Humidity and Temperature
- Includes remote probe

**Model RH30**
- Includes remote probe
- Batteries included

**Model RH35**
- Includes remote probe
- Batteries included

**Ordering Information**
- Model RH30
- Model RH35

---

**445713/445713-TP Big Digit Indoor/Outdoor Hygro-Thermometers**

- Model 445713-TP with wider Temperature range and longer cable length
- External Temperature Probe: 445713: 14 to 140°F (-10 to 60°C); 445713-TP: -58 to 158°F (-50 to 70°C)
- Ambient Temperature Sensor: 445713: 14 to 140°F (-10 to 60°C); 445713-TP: 32 to 122°F (0 to 50°C)
- Internal Relative Humidity Range: 445713: 10 to 99% RH; 445703-TP: 20% to 99% RH
- Basic accuracy: ±1.8°F/1°C, ±5% RH
- Max/MIN with “reset” function
- Dimensions: 4.3 x 3.9 x 0.78” (109 x 99 x 20mm); Weight: 6oz (169g)

**Model 445713**
- Includes remote sensor
- Optional calibration salt bottles (RH330-CAL)

**Ordering Information**
- Model 445713
- Model 445713-TP

---

**RHT3 EzSmart™ Hygro-Thermometer**

- Make your iOS® or Android™ “Smart Devices” even smarter with this EzSmart Hygro-Thermometer and free app from iTunes® and Google Play™ store
- Measures Humidity and Temperature simultaneously
- Calculates Wet Bulb and Dew Point Temperature
- Continuous graph plots Humidity and Temperature changes over time
- 5 user-settable high/low alarms for both Temperature and Humidity
- 4 records — each contains 100 data points with Humidity, Temperature, Wet Bulb, and Dew Point, plus Time, Date and GPS coordinates
- Post images directly to social media (Facebook® and Twitter™)
- Complete with travel case and protective connector cap with strap; 1 year warranty

**Ordering Information**
- Model RHT3

---

**RHM15 Mini Hygro-Thermometer Monitor**

- Mini-sized housing is ideal for monitoring Humidity/ Temperature levels in musical instrument cases, humidors, computer server rooms, labs, office areas, and wine cellars
- Measures Humidity and Temperature 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 (14°F to 140°F) and Humidity (10 to 99% RH)
- Basic Accuracy: ±1.8°F/1°C and ±5% RH
- MAX/MIN with reset function
- Continuous graph plots Humidity and Temperature changes over time
- 5 user-settable high/low alarms for both Temperature and Humidity
- 4 records — each contains 100 data points with Humidity, Temperature, Wet Bulb, and Dew Point, plus Time, Date and GPS coordinates
- Post images directly to social media (Facebook® and Twitter™)
- Complete with travel case and protective connector cap with strap; 1 year warranty

**Ordering Information**
- Model RHM15

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**For the name of your local stocking distributor, visit www.extech.com**
**RH520A Humidity and Temperature Chart Recorder**

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 (-40.0 to 140.0°F / -40.0 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
- 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 LW alarms
- Output socket used with optional external alarm module
- Dimensions: 5.7x7.0x7.0 (129x195x22cm); Weight: 12.6oz (357g)
- Complete with built-in stand, detachable probe with 3m (10ft) cable, RS-232 to USB adapter, PC software, 100-240VAC, 50/60Hz adaptor, and 3 AA batteries; 1 year warranty

**42280 Humidity and Temperature Datalogger**

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 / 0.1°C; Basic accuracy: ±3% RH, ±1.0°F, 0.5°C
- Dimensions/Weight: 4.7x3.8x2 (123.8x95.3x51mm); 9oz (254g)
- Complete with Windows® compatible software; USB cable, 110V AC adaptor, and four AA batteries; 1 year warranty

**42275 Humidity and Temperature Datalogger Kit**

Compact, powerful and easy to use with USB interface
- 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)
- Resolution: 0.1%RH, 0.1°F / 0.1°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
- MultiUSB Dataloggers (42275) can be programmed and data downloaded from one single docking station
- Programmable sampling rate from 1sec to 12hrs plus HiLo limit alarms indication
- **42275** — 4.9x3.8x2 (123.8x95.3x51mm); 9oz (254g)
- 1 year warranty

**RH50 Temperature/Pressure Datalogger**

- Dimension: 5x7.7x0.9” (129x195x22mm); Weight: 12.6oz (357g)
- Complete with built-in stand, detachable probe with 3m (10ft) cable, RS-232 to USB adapter, PC software, 100-240VAC, 50/60Hz adaptor, and 3 AA batteries; 1 year warranty

**RHT10/TH10 Humidity and Temperature USB Dataloggers**

Two models to choose from, with USB interface for easy data download
- Model RHT10 dataloggers 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 (grains per kilogram) to 1120GPP (16g/kg)
- Model TH10 dataloggers 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), 0.1°F/°C resolution, Accuracy: ±1.8°F/1°C
- 1yr battery life; Dimensions: 5.1x1.1x0.9” (130x30x25mm)/ 1oz (20g)
- Includes 3.6V Lithium battery, protective USB cap, mounting bracket, and Windows® compatible software for analysis; 1 year warranty

**Humidity/Pressure Dataloggers and Chart Recorder**

- RH520A — Humidity and Temperature Chart Recorder
- RH520A-220 — Humidity and Temperature Chart Recorder (220V adaptor)
- RH520A-240 — Humidity and Temperature Chart Recorder (240V adaptor)
- RH521 — Replacement Humidity/Temperature Probe
- SL123 — AC Alarm Relay Module 90 (9m cable)
- SL124 — DC Alarm Relay Module 90 (9m cable)

**RHT20 Humidity and Temperature Datalogger**

Datalogs 16,000 Humidity and 16,000 Temperature readings
- USB interface for easy setup and data download
- Dew point indication via Windows® compatible software (included)
- Selectable data sampling rate: 1 second to 24 hours
- User-programmable alarm thresholds for RH and Temperature
- LCD displays current readings, Min/Max, and alarm status
- Humidity: 0 to 100% RH, 0.1%RH resolution, Accuracy: ±3%RH; Temperature: -40 to 158°F / -20 to 70°C, 0.1°F/°C resolution, Accuracy: ±1.8°F/1°C
- 3 month battery life; Dimensions: 3.7x1.9x1.2” (94.4x48.8x31.2mm)/2.3oz (65.7g)
- Complete with 3.6V Lithium battery, mounting bracket with combination lock, and Windows® compatible analysis software; 1 year warranty

**RHT50 Humidity/Pressure Datalogger**

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; 1 year warranty

**Specifications**

- **Temperature**: 40 to 58°F (4 to 20°C), ±0.1°F / ±0.1°C
- **Humidity**: 0 to 100% RH, ±3% RH
- **Air Pressure**: 13.7 to 15.2 psig, 95 to 105 kPa, ±0.7 psig, ±5 kPa
- **Datalogging interval**: 1 second to 24 hours
- **Memory**: 10,000 points
- **Dimensions/Weight**: 5.1x1.1x0.9” (130x30x25mm)/ 1oz (20g)
**SD500 Humidity/Temperature Datalogger**

- Records data on an SD card in Excel® format for easy transfer to a PC
- Dual LCD simultaneously 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
- Complete with 6 AAA batteries, SD memory card, Universal AC Adaptor, and mounting bracket; 1 year warranty

**Specifications**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Range</th>
<th>Max Resolution</th>
<th>Basic Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>32 to 122°F 0 to 5°C</td>
<td>±0.1°F/°C</td>
<td>±1.5°F/°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>10 to 90%RH 0 to 50°C</td>
<td>±0.1%RH</td>
<td>±4%RH</td>
</tr>
<tr>
<td>Barometric Pressure</td>
<td>10 to 1100hPa</td>
<td>±0.1 hPa</td>
<td>±2 hPa</td>
</tr>
<tr>
<td>Temperature 32 to 122°F 0 to 50°C</td>
<td>±0.1°F/°C</td>
<td>±1.5°F/°C</td>
<td></td>
</tr>
</tbody>
</table>

**Ordering**

- SD500 Humidity/Temperature Datalogger

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**SD700 Barometric Pressure/Humidity/Temperature Datalogger**

- Monitors Barometric Pressure, Humidity, and Temperature levels
- Displays Barometric Pressure in 3 units of measure: hPa, mmHg, and inHg
- Triple LCD simultaneously 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, 10, 30, 60, 120, 300, 600 seconds
- Complete with 6 AAA batteries, SD card, Universal AC adaptor, and mounting bracket; 1 year warranty

**Specifications**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Range</th>
<th>Max Resolution</th>
<th>Basic Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barometric Pressure</td>
<td>10 to 1100hPa</td>
<td>±0.1 hPa</td>
<td>±2 hPa</td>
</tr>
<tr>
<td>Temperature 32 to 122°F 0 to 50°C</td>
<td>±0.1°F/°C</td>
<td>±1.5°F/°C</td>
<td></td>
</tr>
<tr>
<td>Humidity 10 to 90%RH 0 to 50°C</td>
<td>±0.1%RH</td>
<td>±4%RH</td>
<td></td>
</tr>
<tr>
<td>Barometric Pressure</td>
<td>10 to 1100hPa</td>
<td>±0.1 hPa</td>
<td>±2 hPa</td>
</tr>
<tr>
<td>Temperature 32 to 122°F 0 to 50°C</td>
<td>±0.1°F/°C</td>
<td>±1.5°F/°C</td>
<td></td>
</tr>
</tbody>
</table>

**Ordering**

- SD500 Humidity/Temperature Datalogger

---

**RH300-CAL 33% and 75% RH Calibration Reference**

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

**Ordering**

- RH300-CAL 33% and 75% RH Calibration Reference Bottles

---

**PWR5 Power Bank with Built-in Flashlight**

- External backup battery/charger for your portable USB-charging devices
- Long-lasting high-capacity (2805mAh) internal battery
- Power capacity level indicator with 3 blue LED lights
- Simple one button operation
- Built-in LED flashlight (two button presses to turn on preventing accidental power-on)
- Simply plug any portable USB-charging device into this compact charger
- Complete with micro USB cable
- Dimensions: 2.9 x 1.4 x 0.9" (73 x 35.5 x 22.7 mm)
- Weight: 3 oz (85g)

**Ordering**

- PWR500 Power Bank

---

**BATT-36V-C 3.6V Lithium Batteries**

- Package of 2 (1/2 AA size bobbin cell), primary, non-rechargeable
- High voltage response, stable during most of the lifetime of the application
- Wide operating temperature range (-60°C to +80°C)
- Low self-discharge rate (less than 1% per year of storage at +20°C)
- Easy integration into compact systems
- Superior resistance to atmospheric corrosion
- Superior drain capability
- Hermetic glass-to-metal sealing
- Non-flammable electrolyte
- Compliant with IEC 60086-4 safety standard and IEC 60079-11 intrinsic safety standard (class T4 assignment)
- Underwriters Laboratories (UL) Component Recognition
- Non-restricted for transport/Non-assigned to Class 9
- Complete with two 3.6V Lithium batteries

**Ordering**

- BATT-36V-C 3.6V Lithium Battery (pk of 2)

---

**42299 3.6V Lithium Batteries**

- Primary, C-size bobbin cell, non-rechargeable, UL recognized
- High and stable operating voltage
- Higher power and higher energy for the whole battery life
- Superior drain capability
- Higher power applications
- Low self-discharge rate (less than 1% after 1 year of storage at +20°C)
- Battery life higher than 10 years, depending on the application
- Hermetic glass-to-metal sealing
- Avoid leakage, key for a higher than 10 year battery life
- Non-flammable electrolyte
- Higher power and higher energy for the whole battery life

**Ordering**

- BATT-36V-C 3.6V Lithium Battery (C-Size)
HYGRO- THERMOMETERS

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.

Dew Point/Wet Bulb Psychrometers

SPECIFICATIONS

<table>
<thead>
<tr>
<th>RH300</th>
<th>RH305</th>
<th>RH350</th>
<th>RH490</th>
<th>RH390</th>
<th>RH490</th>
<th>HD500</th>
<th>SDL500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor Type</td>
<td>Capacitor</td>
<td>Capacitor</td>
<td>Capacitor</td>
<td>Capacitor</td>
<td>Capacitor</td>
<td>Sensor Type</td>
<td>Capacitor</td>
</tr>
<tr>
<td>Dew Point</td>
<td>-54.0 to 122°F (-48.0 to 49.0°C)</td>
<td>-54.0 to 122°F (-48.0 to 49.0°C)</td>
<td>-54.0 to 122°F (-48.0 to 49.0°C)</td>
<td>-94.0 to 158°F (-66.0 to 70.0°C)</td>
<td>-94.0 to 158°F (-66.0 to 70.0°C)</td>
<td>-94.0 to 158°F (-66.0 to 70.0°C)</td>
<td>-94.0 to 158°F (-66.0 to 70.0°C)</td>
</tr>
<tr>
<td>Wet Bulb</td>
<td>-6.0 to 122°F (-21.0 to 50.0°C)</td>
<td>-6.0 to 122°F (-21.0 to 50.0°C)</td>
<td>-6.0 to 122°F (-21.0 to 50.0°C)</td>
<td>-6.86 to 140°F (-21.0 to 60.0°C)</td>
<td>-6.86 to 140°F (-21.0 to 60.0°C)</td>
<td>-6.86 to 140°F (-21.0 to 60.0°C)</td>
<td>-6.86 to 140°F (-21.0 to 60.0°C)</td>
</tr>
<tr>
<td>Humidity (Basic Accuracy)</td>
<td>0 to 100% RH (±3%RH)</td>
<td>0 to 100% RH (±3%RH)</td>
<td>0 to 100% RH (±3%RH)</td>
<td>0 to 100% RH (±3%RH)</td>
<td>0 to 100% RH (±3%RH)</td>
<td>0 to 100% RH (±3%RH)</td>
<td>0 to 100% RH (±3%RH)</td>
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<tr>
<td>Humidity (Extended Accuracy)</td>
<td>—</td>
<td>—</td>
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<tr>
<td>Mixing Ratio</td>
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<tr>
<td>Internal Temperature (Basic Accuracy)</td>
<td>-4 to 122°F (32°F to 50°C) (±1.8°F/1°C)</td>
<td>-4 to 122°F (32°F to 50°C) (±1.8°F/1°C)</td>
<td>-4 to 122°F (32°F to 50°C) (±1.8°F/1°C)</td>
<td>-4 to 122°F (32°F to 50°C) (±1.8°F/1°C)</td>
<td>-4 to 122°F (32°F to 50°C) (±1.8°F/1°C)</td>
<td>-4 to 122°F (32°F to 50°C) (±1.8°F/1°C)</td>
<td>-4 to 122°F (32°F to 50°C) (±1.8°F/1°C)</td>
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<tr>
<td>External Temperature (Basic Accuracy)</td>
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<tr>
<td>IR Temperature (Basic Accuracy)</td>
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<td>Emissivity</td>
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<tr>
<td>Field of View</td>
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<td>PC Interface</td>
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</tr>
<tr>
<td>Memory/Datalogging</td>
<td>—</td>
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<td>—</td>
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<tr>
<td>CE Approved</td>
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<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Dimensions/Weight</td>
<td>7 x 1 x 8 ½” (178 x 51 x 216 mm)</td>
<td>3 ½ oz (105 g)</td>
<td>7 x 1 x 8 ½” (178 x 51 x 216 mm)</td>
<td>3 ½ oz (105 g)</td>
<td>7 x 1 x 8 ½” (178 x 51 x 216 mm)</td>
<td>3 ½ oz (105 g)</td>
<td>7 x 1 x 8 ½” (178 x 51 x 216 mm)</td>
</tr>
<tr>
<td>Warranty</td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
</tr>
</tbody>
</table>

For the name of your local stocking distributor, visit www.extech.com

NIST traceable certificate with data is available when you order your meter with Certificate Traceable to NIST. Look for this symbol next to product part numbers.

ACCESSORIES

| GH300-029 | 0°C to 40°C Calibrations for RH300/305/390/390 | | | | | | |
| GH400-029 | 0°C to 40°C Calibrations for RH390 | | | | | | |
| TP500 | Thermistor Temperature Probe for RH300/305 | | | | | | |
| 589250 | RS-232 PC cable for RH350 | | | | | | |
| USB100 | RS-232 to USB Adapter | | | | | | |
| UA100-240 | 100-240V AC Adapter for all Hygro-Thermometers (US, EU, UK, AU) | | | | | | |

According to the manufacturer, the unit includes an SD memory card.

For information on how to purchase, please visit www.extech.com/video

Watch the Video

View the Extech Instruments psychological introduction video at www.extech.com/video

For a free downloadable copy of the user manual, visit www.extech.com and software available for download.
**HYGRO-THERMOMETERS**

**445580 Humidity/Temperature Pen**
- Complete with probe, clip, and 3V lithium battery
- Easy to use with durable, accurate readings
- Ideal for HVAC/mechanical repair

**RH210 Compact Hygro-Thermometer**
- Compact size
- Dual display of Temperature and Humidity
- Over-range indication
- Is user selectable for IR or Humidity

**RH101 Hygro-Thermometer + IR**
- Large backlit LCD display
- Primarily and Secondary displays
- MAX and MIN function stores
- Auto Power Off feature

**EA20/EA25 EasyView® Hygro-Thermometer and Datalogger**
- Stores up to 99 manual readings
- Datalogging capacity of 99 readings

**SD500/SD700 Humidity/Temperature Dataloggers**
- Requires data on an SD card
- Records data on an SD card

**ACCESSORIES**
- Calibration Kit for EasyView® Hygro-Thermometer and Datalogger
- Datalogging capability
- PC Interface

**SPECIFICATIONS**
- Resolution
- Range
- Accuracy
- Max. Resolution
- CE approved
- Dimensions
- Weight
- Warranty
- Dimensions
- Weight
- Warranty

**For the name of your local stocking distributor, visit [www.extech.com](http://www.extech.com)**

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**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.
Redefining Heat Index Meters

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

**HW30 Heat Index Stopwatch**
- Digital UP/DOWN timer displays Temperature, Humidity, and Heat Index
- User programmable Heat Index alarm
- Stopwatch/chronograph mode with 1/100th second resolution
- Fastest/Slowest/Average Lap recall
- 99 lap counter with 30 lap/split memory
- 10 hour countdown timer with audible beeper warning for the last 5 seconds
- Programmable alarm
- Calendar mode displays day, month, and date
- 12 or 24 hour clock operation
- Complete with 39” (1m) lanyard and one 3V CR2032 battery
- HW30-NIST - Limited NIST available for time function only

**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, 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/Mac/Average
- Data Hold, APO with disable
- Complete with CR2032 battery

**AN25 Heat Index Anemometer**
- Convenient pen style psychrometer monitors 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/Mac/Average
- Data Hold, APO 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
- APO with disable
- Built-in RS-232 interface with optional PC software (407752)
- Complete with two AAA batteries

**HT200 Heat Stress WBGT Meter**
- Accurately determine the Heat Stress level
- Heat Stress Index measures how hot it feels when humidity is combined with temperature, air movement, and radiant heat
- Black Globe Temperature (TG) monitors the effects of direct solar radiation on an exposed surface
- In/Out function displays the WBGT value with or without direct sun exposure
- WBGT high/low alarm settings
- Memory stores 50 readings
- Backlit LCD
- Min/Mac, Data Hold, and APO with disable
- Complete with 9V battery and hard case

### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Heat Index</th>
<th>RH25</th>
<th>AN25</th>
<th>HT30</th>
<th>HT200</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Temperature</strong></td>
<td>70 to 122°F (22 to 50°C)</td>
<td>-30.8 to 40°F (-31 to 20°C)</td>
<td>-31 to 40°F (-31 to 20°C)</td>
<td>-31 to 40°F (-31 to 20°C)</td>
<td>Black Globe: 32 to 176°F (0 to 80°C)</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>1 to 99%</td>
<td>0 to 99 %RH</td>
<td>40 to 100% RH</td>
<td>0 to 100% RH</td>
<td>0 to 100% RH</td>
</tr>
<tr>
<td><strong>Dew Point</strong></td>
<td>-108.4 to 12°F (-78 to 50°C)</td>
<td>-103 to 12°F (-78 to 50°C)</td>
<td>-103 to 12°F (-78 to 50°C)</td>
<td>-103 to 12°F (-78 to 50°C)</td>
<td></td>
</tr>
<tr>
<td><strong>Windchill</strong></td>
<td>-4 to 122°F (-20.2 to 50°C)</td>
<td>5 to 122°F (-15 to 50°C)</td>
<td>5 to 122°F (-15 to 50°C)</td>
<td>5 to 122°F (-15 to 50°C)</td>
<td></td>
</tr>
<tr>
<td><strong>Heat Index</strong></td>
<td>-30.2 to 120°F (32 to 55°C)</td>
<td>32 to 35°F (1 to 8°C)</td>
<td>32 to 127°F (5 to 5°C)</td>
<td>32 to 127°F (5 to 5°C)</td>
<td>Black Globe: 32 to 176°F (0 to 80°C)</td>
</tr>
<tr>
<td><strong>Ambient Temperature</strong></td>
<td>-20.2 to 130°F (-29 to 54.5°C)</td>
<td>0.8 to 55.9mph (1.4 to 90.0km/h)</td>
<td>0.8 to 55.9mph (1.4 to 90.0km/h)</td>
<td>0.8 to 55.9mph (1.4 to 90.0km/h)</td>
<td></td>
</tr>
<tr>
<td><strong>Air Velocity</strong></td>
<td>up to 80 ft/min (0.4 m/s)</td>
<td>up to 80 ft/min (0.4 m/s)</td>
<td>up to 80 ft/min (0.4 m/s)</td>
<td>up to 80 ft/min (0.4 m/s)</td>
<td></td>
</tr>
<tr>
<td><strong>Wet Bulb Globe Temperature</strong></td>
<td>0°F (-18°C)</td>
<td>0°F (-18°C)</td>
<td>0°F (-18°C)</td>
<td>0°F (-18°C)</td>
<td></td>
</tr>
<tr>
<td><strong>In/Out Function</strong></td>
<td>displays Ambient Air and Heat Index</td>
<td>displays Ambient Air and Heat Index</td>
<td>displays Ambient Air and Heat Index</td>
<td>displays Ambient Air and Heat Index</td>
<td></td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td>AAA batteries</td>
<td>AAA batteries</td>
<td>AAA batteries</td>
<td>AAA batteries</td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions/Weight</strong></td>
<td>7.6 x 4.4 x 1.8” (193 x 82 x 45mm)/ 3.8oz (108g)</td>
<td>6.1 x 2.7” (152 x 54 x 19mm)/ 2.1oz (59g)</td>
<td>6.1 x 2.7” (152 x 54 x 19mm)/ 2.1oz (59g)</td>
<td>6.1 x 2.7” (152 x 54 x 19mm)/ 2.1oz (59g)</td>
<td></td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
<td></td>
</tr>
</tbody>
</table>

For the name of your local stocking distributor, visit [www.extech.com](http://www.extech.com)
Indicates products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.

For the name of your local stocking distributor, visit www.extech.com

5. MO25 Moisture Meter
Easy-to-read dual color LED indication with 10 ranges of %WME moisture level
- Five dual color LEDs indicate 10 moisture levels:
  - Red LEDs: 1% to 5% (Yellow)
  - Orange LEDs: 6% to 10% (Green)
  - Green LEDs: 11% to 50% (Green)
- Data Hold freezes LED range
- Battery level check on power-up
- Auto power off conserves battery life
- Use on wall board, sheetrock, cardboard, plaster, concrete, mortar, paper, fabric, and more
- Complete with protective cap, built-in pocket clip, 2 pins (already assembled), and one AAA battery

6. MO25 Pocket Size Moisture Meter
Easy-to-operate with display icons that indicate the levels of moisture content plus audible alert feature
- Displays moisture level in wood and building materials such as wall board, sheet rock, cardboard, plaster, concrete, and mortar
- Audible Alert — Tone rate beeps faster as the moisture level increases
- Icons display low, medium and high levels of moisture content
- Replaceable threaded measurement electrode pins
- Easy-to-use, compact-sized design
- Data Hold freezes reading on display
- Built-in battery level check and measurement verification test
- Auto Power Off conserves battery energy
- Complete with replacement pins, protective cap, and 9V battery

7. MO210 Pocket Moisture Meter
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 battery pins
- Replaceable threaded measurement electrode pins
- Impact proof housing
- Easy-to-read dual color LED
- Battery level check
- Data Hold freezes reading on display
- Built-in battery level check and measurement verification test
- Complete with protective cap, replacement pins, and three CR-2032 button batteries

8. MO220 Wood Moisture Meter
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

9. 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

10. ACCESSORIES
- MO20-PINS Replacement pins for MO210 (50 pins)
- MO20P-PINS Replacement pins for MO220 (50 pins)
- MO50-PINS Replacement pins for MO50 (10 pins)

11. SPECIFICATIONS

<table>
<thead>
<tr>
<th>MO25</th>
<th>MO25 Pocket Size Meter</th>
<th>MO210</th>
<th>MO220</th>
<th>MO257</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sensor Type</strong></td>
<td>Contact Pin</td>
<td>Contact Pin</td>
<td>Contact Pin</td>
<td>Contact Pin</td>
</tr>
<tr>
<td><strong>Moisture Content</strong></td>
<td>Green LEDs: 1%, 7%, 9%, 11%, 12% Red LEDs: 14%, 16%, 20%, 25%, 40%</td>
<td>5 to 50% (Wood)</td>
<td>6 to 44% (Wood)</td>
<td>6 to 44% (Wood)</td>
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<tr>
<td><strong>Max. Resolution</strong></td>
<td>0.1%</td>
<td>1% (Wood)</td>
<td>0.1% (Material)</td>
<td>1% (Wood)</td>
</tr>
<tr>
<td><strong>Temperature (Air)</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Max. Battery Life</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
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</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>5.4x1.0x0.8&quot; (136x25x21mm)</td>
<td>6.7x2.0x0.3&quot; (170x51x8mm)</td>
<td>7.1x1.6x0.3&quot; (180x42x8mm)</td>
<td>8.25x2.1x0.3&quot; (210x53x8mm)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>1.3 oz (36g) without battery</td>
<td>4.2oz (120g) without battery</td>
<td>3.5oz (100g)</td>
<td>6.1oz (175g)</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
</tr>
</tbody>
</table>
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
• LCD displays % moisture of wood or material being tested
• Measurement depth to 0.75" (19mm) below the surface

MO55 Combination Pin/Pinless Moisture Meter
Easy-to-operate with display icons that indicate the levels of moisture content plus audible alert feature
• Displays moisture level in wood and building materials such as wall board, sheet rock, cardboard, plaster, concrete, and mortar
• Audible Alert — Tone rate beeps faster as the moisture level increases
• Icons display low, medium and high levels of moisture content
• Replaceable threaded measurement electrodes
• Easy-to-use, compact-sized design
• Data Hold freezes reading on display
• Low battery indication
• Auto Power Off conserves battery power
• Complete with replacement pins, protective cap, and 9V battery

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
• Complete with 9V battery, replacement pins (MO200-PINS), protective cap, remote pin probe (MO-P1) and case

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Pinless/Moisture</th>
<th>Pin-Type Moisture</th>
<th>Max Resolution</th>
<th>Memory</th>
<th>CE Approved</th>
<th>Warranty</th>
</tr>
</thead>
<tbody>
<tr>
<td>M280</td>
<td>0 to 99% (limited by wood type) - relative</td>
<td>5 to 50% (Wood); 1.5 to 33% (Materials)</td>
<td>0.1%</td>
<td>—</td>
<td>Yes</td>
<td>1 year</td>
</tr>
<tr>
<td>M260</td>
<td>0 to 99%</td>
<td>6.0 to 94.8% WME</td>
<td>0.1/0.1%</td>
<td>—</td>
<td>—</td>
<td>1 year</td>
</tr>
<tr>
<td>M265</td>
<td>0 to 99%</td>
<td>6.0 to 94.8% WME</td>
<td>0.1/0.1%</td>
<td>—</td>
<td>—</td>
<td>1 year</td>
</tr>
</tbody>
</table>

Indicates products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.

For the name of your local stocking distributor, visit www.extech.com
**MO290/MO295 Pinless Moisture Psychrometer + IR Thermometer**

Multi-parameter Moisture Meters with built-in IR Thermometer
- Measure moisture content of materials/wood types with Pinless technology without damaging the surface; Use remote Pin-type probe for contact moisture readings
- Simultaneously displays Moisture and Air Temperature, IR Temperature, or Humidity
- Pinless measurement depth to 0.75” (19mm) below the surface
- Non-contact IR Thermometer with 8:1 field of view and 0.95 fixed emissivity
- Programmable high/low Moisture and Humidity alarms
- Automatic calculation of differential Temperature (IR - DP) for condensation point
- Pinless Moisture and Air Temperature, IR Temperature, or Humidity
- Manually store/recall up to 20 labeled readings
- Fast Analog Bargraph

**SPECIFICATIONS**
- Moisture: 0% to 99.9% (Relative)
- Temperature: 32°F to 120°F (0°C to 49°C)
- Humidity: 0% to 100% RH
- Mixing ratio: 0 to 999 GPP (0 to 160 g/kg)
- Dew Point: -22°F to 199°F (-30°C to 100°C)
- Temperature (Air): Air: -20°F to 170°F (-29°C to 77°C); IR: -4°F to 392°F (-20°C to 200°C)
- Vapor Pressure: 0 to 20.0 kPA
- Moisture probe (3ft/0.9m cable length), 9V battery and case; 1 year warranty

**ORDERING (SEE P. 95 FOR OPTIONAL SPECIALTY MOISTURE PROBES)**
- MO290: Pinless Moisture Psychrometer + IR Thermometer
- MO295: Pinless Moisture Psychrometer + IR Thermometer with Memory

**SD550 Humidity Content Meter/Datalogger**

23.7" (600mm) heavy duty stainless steel moisture probe measures humidity content in grain, corn, rice, hay, and other materials
- Measures Humidity Content, Air Temperature, Dew Point and Temperature
- Replaceable Probe Tip with inner filter
- Datalogger date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC
- Adjustable data sampling rate: 1 to 3600 seconds
- Stores 99 readings manually and automatic continuous datalogging via SD card
- Type K/J Thermocouple input for high temperature measurements
- Record/Recall MIN, MAX readings
- Data Hold plus Auto Power Off with disable function

**SPECIFICATIONS**
- Humidity Content: 10% to 95% RH
- Air Temperature: 32°F to 120°F (0°C to 49°C)
- Dew Point: -13°F to 125°F (-25°C to 52°C)
- Type K Temperature: -194°F to 2372°F (-120°C to 1300°C)
- Dimensions: Meter: 7.32 x 3.39" (188 x 87mm), Probe: 23.8" (605mm) x 0.8" (22mm) dia
- Weight: 6.4oz (182g), Probe: 19.8oz (560g)

**ORDERING**
- SD550: Humidity Content Meter/Datalogger
- UA100-240: 100-240V AC Adaptor with 4 plugs (US, EU, UK, AU)

**M0300 Moisture Hygro-Thermometer for Android™**

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 Moisture, Humidity, Temperature, Grains Per Pound, Dew Point, Vapor Pressure, and condensation point, up to 50’ (15m) 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 50K readings using the Android app
- Large 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
- Non-contact IR Thermometer with 8:1 field of view and 0.95 fixed emissivity
- Automatic calculation of differential Temperature (IR - DP) for condensation point
- Min/Max, Data Hold, Auto power off and low battery indication

**SPECIFICATIONS**
- Moisture: 0% to 99.9% (Relative)
- Temperature: 32°F to 122°F (0°C to 50°C) 0.1° 1.8°F/1°C
- Humidity: 0% to 100% RH
- Mixing ratio: 0 to 999 GPP (0 to 160 g/kg)
- Dew Point: -13°F to 120°F (-25°C to 49°C) 0.1° calculated
- Temperature: -148 to 2372°F (-100 to 1300°C) 0.1° (0.2% + 1.8°F/1°C)
- Dimensions: Meter: 14.7 x 1.6 x 1.6" (374 x 40 x 40mm)
- Weight: 8.6oz (245g)

**ORDERING**
- M0300: Moisture Hygro-Thermometer for Android™
- MO290-MP: MO290-EP: 12 Replacement pins (3.5"/8.9cm & 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-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-PINS-HP: 20 Replacement pins (1.6"/4cm pin depth), 2 lock nuts for MO290-HP probe

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Go Beyond Airflow Measurements

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

**45118/45158**
Mini Thermo-Anemometers
3-in-1 or 5-in-1 meter
- Measures air velocity, temperature, and windchill
- Adjustable averaging function of 5, 10, or 15 second intervals
- Housing extends to 9" (229mm)
- Tripod mount (optional TR100 — sold separately)
- Data Hold with Auto power off
- Replaceable low friction vane
- Water resistant housing floats
- Complete with CR2032 lithium battery and 43" (1.09m) lanyard

**45168CP**
Mini Thermo-Anemometer with Built-in Compass
7-in-1 meter
- Built-in Compass provides wind direction and 160° readings
- Delta T (Air Temperature - DP)
- Max function
- Housing extends to 9" (229mm)
- Auto Power Off with disable
- Water resistant housing floats and drop-tested to 6 feet
- Replaceable vane (45156)
- Tripod mount
- Complete with CR2032 lithium battery and lanyard

**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 158°F/70°C
EN100 Additional Features
- Measures light level with Auto-rotating display
- "EN150 Additional Features
- Also measures Air Flow (CFM/CMM)

**45170/45170CM**
Environmental Meters with UV
4-in-1 or 5-in-1 meter
- Auto-rotating display
- Low friction vane wheel
- Capacitance humidity sensor
- Type K input (Probe sold separately - see p. 41 and 70)
- Utilizes precision photo diode and correction filter
- MAX/MIN and Data hold
- Complete with wrist strap and 9V battery
- Model 45170CM also measures Air Flow (CFM/CMM)

**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. 41 and 70)
- 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

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**SPECIFICATIONS**

**45118 | 45158**
- Temperature: 32 to 122°F (-18 to 50°C)
- Relative Humidity: 10% to 95% (0.1%)
- Velocity: 100 to 5500 (20) ft/min
- Accuracy: ±2.7% of reading ±1 LSB

**45168CP**
- Temperature: 32 to 122°F (-18 to 50°C)
- Relative Humidity: 10% to 95% (0.1%)
- Velocity: 100 to 5500 (20) ft/min
- Accuracy: ±2.7% of reading ±1 LSB

**EN100 | EN150**
- Temperature: 32 to 122°F (-18 to 50°C)
- Relative Humidity: 10% to 95% (0.1%)
- Velocity: 100 to 5500 (20) ft/min
- Accuracy: ±2.7% of reading ±1 LSB

**45170 | 45170CM**
- Temperature: 32 to 122°F (-18 to 50°C)
- Relative Humidity: 10% to 95% (0.1%)
- Velocity: 100 to 5500 (20) ft/min
- Accuracy: ±2.7% of reading ±1 LSB

**EN300**
- Temperature: 32 to 122°F (-18 to 50°C)
- Relative Humidity: 10% to 95% (0.1%)
- Velocity: 100 to 5500 (20) ft/min
- Accuracy: ±2.7% of reading ±1 LSB

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**ACCESSORIES**

- **45118** Mini Impeller (2) for 45116
- **45158** Mini Impeller (2) for 45156 and 45168CP
- **TR100** Tripod
- **CA895** Small Vinyl Pouch Case
- **UA100-240** 100-240V AC Adaptor w/ batteries; Optional AC adaptor UA100-240 & software 407001
- **EN300** SPECIFICATIONS
  - Temperature: 32 to 122°F (-18 to 50°C)
  - Relative Humidity: 10% to 95% (0.1%)
  - Velocity: 100 to 5500 (20) ft/min
  - Accuracy: ±2.7% of reading ±1 LSB

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**Thermo-Anemometers/Environmental Meters**

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**Using optional tripod TR100**
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 9 easy to set Area dimensions stored in internal memory (ft² or m²)
• 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 incorporates a built-in IR Thermometer for quick non-contact temperature measurements

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

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. 114
• 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. 136 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. 114
• Complete with telescoping probe with 5.9ft (176.4cm) cable, and four AA batteries

Specifications

<table>
<thead>
<tr>
<th>AN100</th>
<th>AN200</th>
<th>HD300</th>
<th>407113</th>
<th>407119</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Velocity (Max Res.)</td>
<td>80 to 1500 (1)</td>
<td>80 to 1500 (1)</td>
<td>100 to 15000 (1)</td>
<td>40 to 15000 (1)</td>
</tr>
<tr>
<td>m/sec</td>
<td>0.4 to 30.00 (0.1)</td>
<td>0.4 to 30.00 (0.1)</td>
<td>0.3 to 30.0 (0.1)</td>
<td>0.2 to 17.0 (0.1)</td>
</tr>
<tr>
<td>km/h</td>
<td>1.4 to 108.0 (0.1)</td>
<td>1.4 to 108.0 (0.1)</td>
<td>1.4 to 108.0 (0.1)</td>
<td>0.7 to 61.0 (0.1)</td>
</tr>
<tr>
<td>MPH</td>
<td>0.9 to 69.3 (0.1)</td>
<td>0.9 to 69.3 (0.1)</td>
<td>1.1 to 78.3 (0.1)</td>
<td>0.9 to 38.3 (0.1)</td>
</tr>
<tr>
<td>knots</td>
<td>0.0 to 58.8 (0.1)</td>
<td>0.6 to 163.8 (0.1)</td>
<td>1.0 to 68.0 (0.1)</td>
<td>0.4 to 33.0 (0.1)</td>
</tr>
<tr>
<td>Temperature (Max Res.)</td>
<td>14 to 140°F/ -50 to 60°C (0.1)</td>
<td>14 to 140°F/ -50 to 60°C (0.1)</td>
<td>14 to 140°F/ -50 to 60°C (0.1)</td>
<td>14 to 140°F/ -50 to 60°C (0.1)</td>
</tr>
<tr>
<td>°F</td>
<td>-58 to 521°F/-50 to 280°C (0.1°F)</td>
<td>-58 to 521°F/-50 to 280°C (0.1°F)</td>
<td>32 to 175°F/ 0 to 80°C (0.1°F)</td>
<td>32 to 122°F/ 0 to 50°C (0.1°F)</td>
</tr>
<tr>
<td>°C</td>
<td>-50 to 260°C (0.1°C)</td>
<td>-50 to 260°C (0.1°C)</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Temperature [Max Res.]</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Air Flow (CFM) ±4% (0.1)</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>m³/min</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Air Flow (CMM) ±4% (0.1)</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>m³/sec</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Air Flow (IR) ±4% (0.1)</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>°F</td>
<td>0 to 999,999°F (0.1°F)</td>
<td>0 to 999,999°F (0.1°F)</td>
<td>0 to 999,999°F (0.001°F)</td>
<td>—</td>
</tr>
<tr>
<td>°C</td>
<td>0 to 999,999°C (0.1°C)</td>
<td>0 to 999,999°C (0.1°C)</td>
<td>0 to 999,999°C (0.001°C)</td>
<td>—</td>
</tr>
<tr>
<td>Basic Accuracy</td>
<td>±2%Δt, ±2°F (2°C)</td>
<td>±2%Δt, ±2°F (2°C)</td>
<td>±2%Δt, ±1.5°F (+0.8°C)</td>
<td>±2%Δt, ±1.5°F (+0.8°C)</td>
</tr>
<tr>
<td>PC Interface</td>
<td>—</td>
<td>—</td>
<td>Optional 407011 Software (see p. 114)</td>
<td>Optional 407011 Software (see p. 114)</td>
</tr>
<tr>
<td>CE approved</td>
<td>Yes</td>
<td>Yes</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Dimensions/Weight</td>
<td>7x3.4x1.3” (178x86x33mm)/1.2lbs (556g)</td>
<td>7x3.4x1.3” (178x86x33mm)/1.2lbs (556g)</td>
<td>7x3.4x1.3” (178x86x33mm)/1.2lbs (556g)</td>
<td>7x3.4x1.3” (178x86x33mm)/1.2lbs (556g)</td>
</tr>
<tr>
<td>Warranty</td>
<td>1 year</td>
<td>1 year</td>
<td>3 years</td>
<td>3 years</td>
</tr>
</tbody>
</table>

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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.

Watch the Video
407113
407119

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Indicates products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.
Three models to choose from: with different sensor size and design to either withstand high temperature environment or measure low level air velocity:

- **Datlogger**, data/1hr/stamps and store readings on an SD card in Excel format for easy transfer to a PC.
- **Selectables** data sampling rate: 1 to 3600 seconds (1 hour)
- **Manually store/recall** up to 99 readings
- **Type K/U Thermocouple input** for high temperature measurements
- **Large (9999 count) LCD** displays Air Velocity and Temperature simultaneously
- **Record/Rcall M/N, 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. 41 and 73 for optional Type K and J Thermocouple probes), 3 year warranty

### SDL300 Metal Vane Additional Functions
- **2% velocity accuracy via low fricion ball bearing vane wheel on 39" (1m) cable**
- **Measures Air Temperature to 122°F (50°C) and air velocity to 9400ft/min**

### SDL310 Vane 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 (215 cm) maximum length with cable**

### SDL350 Hot Wire Additional Functions
- **Hot Wire Thermo-Anemometers/Dataloggers**
- **Measures Air Temperature to 122°F (50°C) and air velocity to 4930ft/min**
- **2% velocity accuracy via low friction ball bearing vane wheel on 39" (1m) cable**
- **Type K/J Thermocouple input for high temperature measurements**
- **Selectable data sampling rate: 1 to 3600 seconds (1 hour)**
- **Probe extends up to 7.05ft (215 cm) maximum length with cable**

### AN300/AN310/AN320 Large Vane CMM/CMM Thermo-Anemometers + CO₂

#### Specifications
- **AN300**
  - Dimensions/Weight: 10.6x4.2x2" (269x106x51mm) / 7oz (200g)
  - Temperature: -4 to 140°F (-20 to 60°C)
  - Humidity: 0.1 to 99.9%RH ±3%RH
  - Basic Accuracy: ±1.5% ±1.5% ±1.5%
  - Basic Accuracy: ±1.5% ±1.5% ±1.5%
  - Basic Accuracy: ±1.5% ±1.5% ±1.5%
  - Multipoint and timed average calculations
  - Min/Max, Data Hold, and Auto power off
  - Built-in 110-240V AC Adaptor with 4 plugs (US, EU, UK, AU)
  - USB cable, 6 AAA batteries, and hard case
  - 1 year warranty

- **AN310**
  - Dimensions/Weight: 10.6x4.2x2" (269x106x51mm) / 7oz (200g)
  - Temperature: -4 to 140°F (-20 to 60°C)
  - Humidity: 0.1 to 99.9%RH ±3%RH
  - Basic Accuracy: ±1.5% ±1.5% ±1.5%
  - Basic Accuracy: ±1.5% ±1.5% ±1.5%
  - Basic Accuracy: ±1.5% ±1.5% ±1.5%
  - Multipoint and timed average calculations
  - Min/Max, Data Hold, and Auto power off
  - Built-in 110-240V AC Adaptor with 4 plugs (US, EU, UK, AU)
  - USB cable, 6 AAA batteries, and hard case
  - 1 year warranty

- **AN320**
  - Dimensions/Weight: 10.6x4.2x2" (269x106x51mm) / 7oz (200g)
  - Temperature: -4 to 140°F (-20 to 60°C)
  - Humidity: 0.1 to 99.9%RH ±3%RH
  - Basic Accuracy: ±1.5% ±1.5% ±1.5%
  - Basic Accuracy: ±1.5% ±1.5% ±1.5%
  - Basic Accuracy: ±1.5% ±1.5% ±1.5%
  - Multipoint and timed average calculations
  - Min/Max, Data Hold, and Auto power off
  - Built-in 110-240V AC Adaptor with 4 plugs (US, EU, UK, AU)
  - USB cable, 6 AAA batteries, and hard case
  - 1 year warranty

### AN300-C CMM/CMM Anemometer/ Psychrometer Datalogger

- **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 Carbon Dioxide**
- **Manually store/recall up to 99 readings and automatically datalog up to 12000 readings (200 readings for each parameter) with 12/24 hour time and data stamp**
- **Select data sampling rate from 1 to 4hr: 59 min: 59s**
- **Min/Max/Avg, Data hold, and Auto power off with disable**
- **Built-in PC interface**
- **Complete with external mini vane probe, Windows® compatible software, USB cable, 6 AAA batteries, and hard carrying case; 1 year warranty**
**RD300 Refrigerant Leakage Detector**

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; 1 year 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 2.9 x 1.4" (221 x 72 x 46mm)/ 18.4oz (520g)

**ORDERING**
- EZ40 ExFlex™ Combustible Gas Detector

---

**FG100 Combustible Gas Leak Detector**

Fast response detection of flammable gas leakage
- Detects flammable gases: LNG - Liquefied Natural Gas (1000 to 6500ppm) and LPG - Liquefied Propane Gas (500 to 6500ppm)
- 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)/0.8oz (25g)
- Complete with pocket clip and two AAA batteries; 1 year warranty

**ORDERING**
- FG100 Combustible Gas Leak Detector
**CO10 Carbon Monoxide (CO) Meter**

Check CO level in all environments up to 1000ppm
- Auto Zero at start up
- Displays CO levels from 0 to 1000ppm
- 1ppm resolution with ±2% accuracy
- 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: 6.3x2.1x1.5” (160x55x40mm)/6.35oz (180g)

**SPECIFICATIONS**

- Carbon Monoxide (CO) 0-1000ppm 1ppm ±2% of rdg

**ORDERING**

- CO10 Carbon Monoxide Meter

**CO30 Carbon Monoxide (CO) Monitor**

Programmable audible alarm, with high decibel beeper
- Wall mount or desktop monitor alternately displays Carbon Monoxide (CO) concentration, Air Temperature, and Relative Humidity readings
- Bright tri-colored LED indicator: Green <10ppm, Yellow = 10 to 29ppm, Red >30ppm
- LCD displays alarm icon, LED light turns red, and loud audible beeper sounds when indoor CO level exceeds set point (adjustable)
- Adjustable audible alarm sounds when reading exceeds one of the selected ranges
- "ZERO" Re-Calibration function
- Manual Temperature and Relative Humidity Compensation (adjustable)
- CO Calibration function in fresh air
- Four display error codes for troubleshooting and Low battery indicator
- Recover to factory setting function

**SPECIFICATIONS**

- Carbon Monoxide (CO) 0 to 999ppm 1ppm ±2% of rdg or ±10ppm
- Temperature (Air) 32 to 122°F (0 to 50°C) 0.1°F/°C ±2°F/1°C
- Relative Humidity 20 to 90%RH 1%RH ±5%RH @ 25°C

**ORDERING**

- CO30 Carbon Monoxide Monitor

**CO50 Desktop Carbon Monoxide (CO) Monitor**

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
- 1 year warranty
- Complete with Universal AC adaptor (UA100-240) and multiple plug types

**SPECIFICATIONS**

- Carbon Monoxide (CO) 0 to 999ppm 1ppm ±2% of rdg
- Temperature (Air) 14 to 140°F (-10 to 60°C) ±1.5°F/°C ±2°F/1°C
- Relative Humidity 10 to 90%RH ±5%RH
- Dimensions/Wt: 6.1 x 3.6 x 3.2” (155 x 92 x 80mm) 5.8oz (165g)

**ORDERING**

- CO50 Desktop Carbon Monoxide (CO) Meter

**CO100 Desktop Indoor Air Quality CO2 Monitor**

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 ppb with Good, Normal, Poor indication
- Displays Year, Month, Data, and Time
- Max/Min CO2 value recall function
- Complete with Universal AC adaptor, 1 year warranty

**SPECIFICATIONS**

- Carbon Dioxide (CO2) 0 to 9,999ppm ±5%rdg or ±200ppm
- Temperature (Air) 14 to 140°F (-10 to 60°C) 0.1°F/°C ±1.5°F/2°C
- Relative Humidity 0.1 to 99.9%RH ±1.5% RH at 25°C

**ORDERING**

- CO100 Desktop Indoor Air Quality CO2 Monitor

**CO200/C0210 Desktop Indoor Air Quality CO2 Monitor**

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, Data, 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: 6.4x3.2x1.1” (17x4x28mm) 15.4oz (436g)
- 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

**SPECIFICATIONS**

- Carbon Dioxide (CO2) 0 to 9,999ppm ±5%rdg or ±200ppm
- Temperature (Air) 14 to 140°F (-10 to 60°C) ±0.1°F ±2°C
- Relative Humidity 0.1 to 99.9%RH ±1.5% RH at 25°C
- Dimensions/Wt: 4.6 x 3.2 x 1.1” (122 x 43 x 28mm) 204g

**ORDERING**

- CO200 Desktop Indoor Air Quality CO2 Monitor
- CO210 Desktop Indoor Air Quality CO2 Monitor/Datalogger

**CO220 Desktop Indoor Air Quality CO2 Monitor**

User-adjustable visual/audible alarm and calculates Dew Point and Wet Bulb
- Maintenance free NDIR (non-dispersive infrared) CO2 sensor
- Audible CO2 warning alarm when concentration level exceeds high/low user set point
- Displays Year, Month, Data, 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

**SPECIFICATIONS**

- Carbon Dioxide (CO2) 0 to 9,999ppm ±5%rdg or ±200ppm
- Temperature (Air) 14 to 140°F (-10 to 60°C) ±0.1°F ±2°C
- Relative Humidity 0.1 to 99.9%RH ±1.5% RH at 25°C
- Dimensions/Wt: 4.6 x 3.2 x 1.1” (122 x 43 x 28mm) 204g

**ORDERING**

- CO220 Desktop Indoor Air Quality CO2 Monitor

**For the name of your local stocking distributor, visit www.extech.com**
**CO230 Indoor Air Quality CO2 Monitor**

Automatic Baseline Calibration (ABC) with disable for use in areas with continuously elevated CO2 levels (>400ppm)
- Maintenance free NDIR (non-dispersive infrared) CO2 sensor
- Desktop or wall mount with triple LCD displays CO2, Temperature, and Humidity. Calculates Dew Point and Wet Bulb values.
- Min/Max CO2 value recall function
- Calculates statistical weighted averages of TWA (8 hour Time Weighted Average) and STEL (15 minute Short Term Exposure Limit)
- Alarm relay output for ventilation control
- Complete with Universal AC adaptor and multiple plug types (US, EU, UK, AUS); 1 year warranty

**Specifications**
- **Carbon Dioxide (CO2)**: 0 to 9,999ppm 1ppm ±(5%rdg + 75ppm)
- **Temperature**: 32 to 122°F (0 to 50°C) 0.1°F/°C ±1.8°F/0.8°C
- **Humidity**: 10 to 95%RH 0.1% ±4%RH

**Ordering**
- CO230 Indoor Air Quality CO2 Monitor

---

**CO240 Handheld Indoor Quality CO2 Meter**

Dual display of CO2 level and Humidity, Temperature, Dew Point, or Wet Bulb
- Maintenance free NDIR (non-dispersive infrared) CO2 sensor
- Audible CO2 warning alarm when concentration level exceeds high user set point
- Min/Max CO2 value recall function
- Software for on-line (real-time) data streaming to a PC
- Automatic Baseline Calibration function
- Data hold, Low battery indicator, and Auto Power Off (with disable) function
- Tripod mount (tripod sold separately)
- Complete with six AAA batteries, USB cable, PC software, Universal AC adaptor (with 4 plugs US, EU, UK, AUS), and soft case; 1 year warranty

**Specifications**
- **Carbon Dioxide (CO2)**: 0 to 6,000ppm 1ppm ±(5%rdg + 100ppm)
- **Temperature**: 32 to 122°F (0 to 50°C) 0.1°F/°C ±1.8°F/0.8°C
- **Humidity**: 10 to 90%RH 0.1% ±5%RH @ 25°C

**Ordering**
- CO240 Handheld Indoor Air Quality CO2 Meter

---

**CO250 Portable Indoor Air Quality CO2 Meter**

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
- 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

**Specifications**
- **Carbon Dioxide (CO2)**: 0 to 6,000ppm 1ppm ±(5%rdg +100ppm)
- **Temperature**: 4 to 140°F (-20 to 60°C) 0.1°F/°C ±1.8°F/0.8°C
- **Humidity**: 10 to 95%RH 0.1% ±4%RH

**Ordering**
- EA80 Indoor Air Quality CO2 Meter/Datalogger

---

**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

**Specifications**
- **Carbon Dioxide (CO2)**: 0 to 4,000ppm 1ppm ±(5%rdg +100ppm)
- **Temperature**: 32 to 122°F (0 to 50°C) 0.1°F/°C ±1.8°F/0.8°C
- **Humidity**: 10 to 90%RH 0.1% ±4%RH

**Ordering**
- SD800 CO2/Humidity/Temperature Datalogger

---

**FOR THE NAME OF YOUR LOCAL STOCKING DISTRIBUTOR, VISIT: www.extech.com**
Indoor Air Quality Formaldehyde Monitors/Meters

FM100 Formaldehyde (CH₂O or HCHO) Monitor

- Alternately displays Formaldehyde level, Temperature, and Humidity
- Bright tri-colored LED indicator: Green = <0.08 ppm, Yellow = 0.08 to 0.79 ppm, and Red = 0.80 ppm and above
- LCD displays alarm icon; LED light turns red, and loud audible beeper sounds when indoor CH₂O level exceeds set point
- "ZERO" Re-Calibration function
- Manual Temperature and Relative Humidity Compensation (adjustable)
- Designed with Electrochemical CH₂O sensor; CH₂O Calibration function in fresh air
- Four display error codes for troubleshooting; Recover to factory setting function

FM200 Handheld Formaldehyde (CH₂O or HCHO) Meter

- Displays Formaldehyde level, Temperature, and Relative Humidity
- Audible alarm default at 0.08 ppm (adjustable)
- Designed with Electrochemical CH₂O sensor
- Sensor LED indicator shows where sensor is connected properly, power is on, and fan is in working condition
- Built-in bumber that allows the fan inside the sensor to draw in gas quickly
- CH₂O Calibration function in fresh air
- Min/Max, Data Hold, Auto power off with disable, and Low battery indicator

FM300 Desktop Formaldehyde (CH₂O or HCHO) Monitor

- Measures Formaldehyde (CH₂O or HCHO) concentration, Air Temperature & Humidity 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 0.08 ppm (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
- 1 year warranty
- Complete with Universal AC adapter (UA100-240) and multiple plug types

VFM200 VOC/Formaldehyde (CH₂O or HCHO) Meter

- Measures VOC (Volatile Organic Compound) and Formaldehyde concentrations in real-time
- backlight LCD displays TVOC (Total Volatile Organic Compound) and CH₂O (Formaldehyde) concentrations simultaneously in real-time
- Built-in fast response, high accuracy fuel cell Formaldehyde sensor
- Adjustable audible and visible high/low alarms
- Auto Power Off
- 1 year warranty

SD750 3-Channel Pressure Meter/Datalogger

- 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
- Complete with rechargeable battery and Universal AC Adaptor, three connectors, and mounting bracket
- Optional transducers sold separately (choose 30 psi, 150 psi, or 300 psi range)

For the name of your local stocking distributor, visit www.extech.com
HD700 Series Differential Pressure Manometers

Differential Pressure Manometers

Low Range/High Resolution Gauge or Differential Pressure

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

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>HD700</th>
<th>HD750</th>
<th>HD755</th>
</tr>
</thead>
<tbody>
<tr>
<td>psi</td>
<td>±2 psi</td>
<td>±5 psi</td>
<td>±0.5 psi</td>
</tr>
<tr>
<td>inH2O</td>
<td>55.40 inH2O</td>
<td>138.3 inH2O</td>
<td>13.85 inH2O</td>
</tr>
<tr>
<td>mbar</td>
<td>137.8 mbar</td>
<td>344.7 mbar</td>
<td>34.47 mbar</td>
</tr>
<tr>
<td>kPa</td>
<td>13.78 kPa</td>
<td>34.47 kPa</td>
<td>3.447 kPa</td>
</tr>
<tr>
<td>inHg</td>
<td>4.072 inHg</td>
<td>10.18 inHg</td>
<td>1.018 inHg</td>
</tr>
<tr>
<td>mmHg</td>
<td>103.4 mmHg</td>
<td>258.5 mmHg</td>
<td>25.85 mmHg</td>
</tr>
<tr>
<td>oz/in²</td>
<td>32 oz/in²</td>
<td>80 oz/in²</td>
<td>8.00 oz/in²</td>
</tr>
<tr>
<td>ftH2O</td>
<td>4.616 ftH2O</td>
<td>11.53 ftH2O</td>
<td>1.154 ftH2O</td>
</tr>
<tr>
<td>cmH2O</td>
<td>140 cmH2O</td>
<td>350.1 cmH2O</td>
<td>25.9 cmH2O</td>
</tr>
<tr>
<td>kg/cm²</td>
<td>0.140 kg/cm²</td>
<td>0.351 kg/cm²</td>
<td>0.035 kg/cm²</td>
</tr>
<tr>
<td>bar</td>
<td>0.137 bar</td>
<td>0.344 bar</td>
<td>0.034 bar</td>
</tr>
<tr>
<td>Basic Accuracy</td>
<td>±0.3%FS</td>
<td>±0.3%FS</td>
<td>±0.3%FS</td>
</tr>
<tr>
<td>Dimensions/Weight</td>
<td>8.2 x 2.9 x 1.9&quot; (210 x 75 x 50mm) / 9.8 oz (280g)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ORDERING

HD700 /L13458 Differential Pressure Manometer (±2 psi range)
HD750 /L13458 Differential Pressure Manometer (±5 psi range)
HD755 /L13458 Differential Pressure Manometer (±0.5 psi range)

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. 114 for details)
- 3 year warranty
- Complete with 9V battery, protective holster with stand, and case

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>RANGE</th>
<th>RESOLUTION</th>
<th>BASIC ACCURACY</th>
</tr>
</thead>
<tbody>
<tr>
<td>psi</td>
<td>±29 psi</td>
<td>±0.02 psi</td>
<td>±1% FS</td>
</tr>
<tr>
<td>mbar</td>
<td>±2000 mbar</td>
<td>±1 mbar</td>
<td>±1% FS</td>
</tr>
<tr>
<td>kPa</td>
<td>±200 kPa</td>
<td>±0.01 kPa</td>
<td>±1% FS</td>
</tr>
<tr>
<td>inH2O</td>
<td>±30 inH2O</td>
<td>±0.1 inH2O</td>
<td>±1% FS</td>
</tr>
<tr>
<td>mbar</td>
<td>±1000 mbar</td>
<td>±1 mbar</td>
<td>±1% FS</td>
</tr>
<tr>
<td>kPa</td>
<td>±100 kPa</td>
<td>±0.1 kPa</td>
<td>±1% FS</td>
</tr>
<tr>
<td>inH2O</td>
<td>±20 inH2O</td>
<td>±0.1 inH2O</td>
<td>±1% FS</td>
</tr>
<tr>
<td>Maximum Pressure</td>
<td>10 psi</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>32.2°F to 122°F (-0 to 50°C) ±0.1°F</td>
<td>±0.1°C</td>
<td></td>
</tr>
<tr>
<td>Dimensions/Weight</td>
<td>7 x 3 x 1.5&quot; (174 x 76 x 38mm); 6 oz (165g)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ORDERING

407910 /L13458 Heavy Duty Differential Pressure Manometer
156119 117VAC Adaptor
409997 Soft Vinyl Carrying Case
Indicates products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.
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 1mA 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

LT300 Light Meter
Digital and Analog display of light in Fc or Lux
• Wide range to 40,000 Foot-Candles or 400,000 Lux with high resolution to 0.01 Fc/Lux
• Relative mode indicates change in light levels
• Peak mode captures highest reading
• Remote light sensor on 12” (305mm) coiled cable — expandable to 24” (609mm)
• Utilizes precision photo diode and color correction filter
• Cosine and color corrected measurements
• MAX/MIN 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

407026 Heavy Duty Light Meter with PC Interface
Enhance accuracy by selecting one of four lighting types plus PC interface
• 6 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. 114 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 200V (156221) AC adaptors.

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)
• Internal memory stores 99 readings manually
• Large backlit LCD
• Type K/J Thermocouple input
• MIN/MAX and Data Hold
• “ZERO” Re-Calibration
• Auto power off with disable function
• Complete with 6 x AA batteries, SD card, hard case & light sensor with protective cover; Optional Universal AC Adaptor UA100-240 also see p. 41 and 70 for optional Type K and J Thermocouple probes

Specifications
<table>
<thead>
<tr>
<th>401027</th>
<th>401025</th>
<th>LT300</th>
<th>407026</th>
<th>SDL400</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FC Range</strong></td>
<td>300, 1000FC</td>
<td>200, 2000, 5000FC</td>
<td>400,000FC</td>
<td>200, 2000, 5000FC</td>
</tr>
<tr>
<td><strong>Lux Range</strong></td>
<td>—</td>
<td>2000, 20000, 50000Lux</td>
<td>400,000Lux</td>
<td>2000, 20000, 50000Lux</td>
</tr>
<tr>
<td><strong>Max. Resolution</strong></td>
<td>0.5%FS</td>
<td>0.5%FS/Lux</td>
<td>0.1%FS/Lux</td>
<td>0.5%FS/Lux</td>
</tr>
<tr>
<td><strong>Basic Accuracy</strong></td>
<td>±5% rdg</td>
<td>±4%FS</td>
<td>±4%rdg</td>
<td>±5% rdg</td>
</tr>
<tr>
<td><strong>Temperature (°F/°C)</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Coarse &amp; Color Corrected</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Analog output</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>Optional 407001 Software (see p. 114)</td>
</tr>
<tr>
<td><strong>PC Interface</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>SD Card</td>
</tr>
<tr>
<td><strong>Datalogging</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>Manual 99 readings</td>
</tr>
<tr>
<td><strong>CE approved</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Dimensions/ Weight</strong></td>
<td>5.2x2.4x1” (131x67.5x25mm)/ 5.8oz (165g)</td>
<td>6.4x2.8x2.8” (163x75x32mm)/ 6.3oz (200g)</td>
<td>5.6x2.9x1.5” (142x74x39mm)/ 7oz (200g)</td>
<td>7.2x4.1x1.7” (187x104x43mm)/ 1.8lbs (818g)</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>1 year</td>
<td>1 year</td>
<td>3 years</td>
<td>3 years</td>
</tr>
</tbody>
</table>

Includes SD memory card

For the name of your local stocking distributor, visit www.extech.com

Check for proper indoor and outdoor light levels to comply with OSHA regulations

**Reliable, Easy to Use, and Accurate**
Indicates products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.

For the name of your local stocking distributor, visit www.extech.com

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

**EA31 EasyView® Big Digit Light Meter**
- Measures light intensity up to 20,000Fc/Lux
- Compact and rugged design
- Large display and bargraph
- 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® 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
- 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

**EA33 EasyView® Light Meter with Memory**
- Advanced illumination functions for taking measurements in direct sunlight
- Wide measurement range up to 99,999Fc (999,999 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 alarm
- Includes built-in stand, light sensor and protective cover with 39” (1m) 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
**LRK10/LRK15 Lighting Retrofit Kits**

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. 115)
- Model DT200 Compact Laser Distance Meter – Quickly calculate area even in hard-to-measure spots
- LRK15 kit also includes:
  - Model SDL470 400A AC/DC Power Clamp Meter: Versatile electrical test tool with built-in wattage measurement
  - Type K/J Thermocouple input for temperature
  - Adjustable data sampling rate: 1 to 3600 seconds
  - Offset adjustment used for zero function or to make relative measurements
  - Internal memory stores 99 readings manually; External data storage in Excel format on an SD card (included) for easy transfer to a PC

**Applications:**
- Lighting System Audits
- Post-retrofit Verification Testing
- Construction Audits
- Project Installation

**SDL470 UVA/UVC Light Meter/Datalogger**

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
- Internal memory stores 99 readings manually; External data storage in Excel format on an SD card (included) for easy transfer to a PC
- Offset adjustment used for zero function or to make relative measurements
- Adjustable data sampling rate: 1 to 3600 seconds
- Type K/J Thermocouple input for temperature measurements (probes sold separately)
- Large backlit LCD display
- Record/Recall MIN, MAX readings, Data Hold, and Auto power off functions

**Specifications:**

- **Range:**
  - Lux Range: 400, 4000, 40000, 400000
  - Foot-candle (Fc) Range: 40, 400, 4000, 40000
- **Accuracy:**
  - Basic Accuracy: ±3%
  - Lux Range: 400, 4000, 40000, 400000
  - Foot-candle (Fc) Range: 40, 400, 4000, 40000
- **Dimensions/Weight:**
  - 7.5 x 2.2 x 1.9" (190 x 55 x 48mm); 6.6oz (190g)

**ORDERING**

LT40 LED Light Meter

Measures the light intensity of white LED lights:

- Includes white LED Light Meter for measuring white LED light intensity
- Includes black LED Light Meter for measuring black LED light intensity
- Includes all-in-one LED Light Meter that measures white and black LED lights

**Applications:**

- Lighting System Audits
- Post-retrofit Verification Testing
- Construction Audits
- Project Installation

**Specifications:**

- **Range:**
  - Lux Range: 400, 4000, 40000, 400000
  - Foot-candle (Fc) Range: 40, 400, 4000, 40000
- **Accuracy:**
  - Basic Accuracy: ±3%
  - Lux Range: 400, 4000, 40000, 400000
  - Foot-candle (Fc) Range: 40, 400, 4000, 40000
- **Dimensions/Weight:**
  - 6.2 x 2.1 x 0.8" (158 x 53 x 21mm); 4.6oz (130g)

**ORDERING**

LT45 Color LED Light Meter

Measures the light intensity of white LED lights:

- Light intensity of white LED lights
- Light intensity of black LED lights
- Includes all-in-one LED Light Meter that measures white and black LED lights

**Applications:**

- Lighting System Audits
- Post-retrofit Verification Testing
- Construction Audits
- Project Installation

**Specifications:**

- **Range:**
  - Lux Range: 400, 4000, 40000, 400000
  - Foot-candle (Fc) Range: 40, 400, 4000, 40000
- **Accuracy:**
  - Basic Accuracy: ±3%
  - Lux Range: 400, 4000, 40000, 400000
  - Foot-candle (Fc) Range: 40, 400, 4000, 40000
- **Dimensions/Weight:**
  - 5.3 x 2.5 x 1.4" (135 x 63 x 36mm); 4.6oz (130g)

**ORDERING**

LT40 LED Light Meter

LT45 Color LED Light Meter
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 (See pages 120-125).

## 407730 Digital Sound Level Meter

Analog bargraph with 30dB range updates every 40ms
- ±2dB 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

### SPECS

<table>
<thead>
<tr>
<th>Range</th>
<th>Low: 40 to 130dB</th>
<th>High: 35 to 130dB</th>
<th>Low: 40 to 130dB</th>
<th>High: 35 to 130dB</th>
<th>Low: 40 to 130dB</th>
<th>High: 35 to 130dB</th>
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</thead>
<tbody>
<tr>
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<td>±1.5dB</td>
<td>±1.5dB</td>
<td></td>
<td></td>
<td></td>
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<tr>
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<td>Yes</td>
<td>Yes</td>
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<tr>
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<td>0.5” (12.7mm)</td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
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</table>

## 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-NIST includes Certificate of Calibration Traceable to NIST at single point calibration to 94dB

### SPECS

<table>
<thead>
<tr>
<th>Range</th>
<th>Low: 35 to 100dB, High: 65 to 130dB</th>
<th>Low: 35 to 100dB, High: 65 to 130dB</th>
<th>Low: 35 to 90dB; High: 75 to 130dB</th>
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<tr>
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<td>AC/DC</td>
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<tr>
<td>Weight</td>
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</table>

## 407732-KIT Type 2 Sound Meter Kit

Digital sound level meter with 94dB sound calibrator and carrying case
- 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. 160 for ordering info

### SPECS

<table>
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<tr>
<th>Range</th>
<th>Low: 35 to 100dB, High: 65 to 130dB</th>
<th>Low: 35 to 100dB, High: 65 to 130dB</th>
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<td>Analog Output</td>
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<td>Weight</td>
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</table>

## 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

### SPECS

<table>
<thead>
<tr>
<th>Range</th>
<th>Low: 35 to 100dB, High: 65 to 130dB</th>
<th>Low: 35 to 100dB, High: 65 to 130dB</th>
<th>Low: 35 to 90dB; High: 75 to 130dB</th>
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<tr>
<td>Accuracy</td>
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<td>±1.5dB (Type 2)</td>
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<tr>
<td>Condenser Microphone</td>
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<td>Analog Output</td>
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<td>AC/DC</td>
<td></td>
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<tr>
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<tr>
<td>Warranty</td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
</tr>
</tbody>
</table>
Sound Level Meters and Dataloggers

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

407750 Sound Level Interface with PC
Big backlit display, PC interface & background sound absorber
- High accuracy meets Type 2 standards (ANSI S1.4-1983, IEC 61672 Class 2 standards)
- 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 feature
- Complete with 3.6V Lithium battery (42299), Windows® compatible software, USB cover, tripod, and windshield

407760 USB Sound Level Datalogger
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 (42299), Windows® compatible software, USB cover, tripod, and windshield
- Features Record and Alarm LEDs, tripod, and USB connectivity

HD600 20,000 Point Datalogging Sound Level Meter
Double Molated housing to NIST.
- ±1.4dB accuracy
- Meets ANSI and IEC 61672-1 Type 2 standards
- Auto or Manual ranging
- External data storage in Excel® format on an SD card (included) for easy transfer to a PC
- User programmable sampling rate from 1 to 3600 seconds
- Records readings with data and time stamp
- MIN/MAX and Data Hold
- Auto power off with disable capability
- Complete with AC Adapter, Windows® compatible software with USB cable, wind screen, tripod, in-built stand, hard carrying case, and 9V battery

SDL600 Data Logging Sound Level Meter with SD Card
Datalogging capability using SD memory card
- ±1.4dB accuracy
- Meets ANSI and IEC 61672-1 Type 2 standards
- Auto or Manual ranging
- External data storage in Excel® format on an SD card (included) for easy transfer to a PC
- User programmable sampling rate from 1 to 3600 seconds
- Records readings with data and time stamp
- MIN/MAX and Data Hold
- Auto power off with disable capability
- Complete with SD Card, wind screen, 6 AA batteries, and hard carrying case. Optional AC Adapter UA100-240

ACCESSORIES
- 407706 96dB Sound Calibrator (0.5", 1" microphones)
- 407702 94/114dB Sound Calibrator (0.5", 1" microphones)
- TR100 Tripod (for meters with Tripod mount feature)
- 407725 AC/DC Recorder Output Cable (3ft/0.9m)
- 407740-EXT 15ft (4.7m) Microphone Extension Cable (for 407780A)
- 42299 3.6V Lithium Battery 9pk of 2)
- 407764-EXT 15ft (4.7m) Microphone Extension Cable (for 407780A)
- UA100-240 10/24V AC Adapter with plugs (US, EU, UK, AU)
- UA100-240D 20/24V AC Adapter with plugs (US, EU, UK, AU)
- UA100 AC Adapter for 407780A and 407700A

SPECIFICATIONS

407750
- Range: 30 to 130dB
- Basic Accuracy: ±1.5dB (Type 2)
- Response Time: Yes
- Analog Output: AC/DC
- PC Interface: Yes
- Dimensions/Weight: 10x3.1x1.5" (256x80x38mm)/8.5oz (240g)
- Warranty: 1 year

407760
- Range: 30 to 130dB
- Basic Accuracy: ±1.4dB (Type 2)
- Response Time: Yes
- Analog Output: AC/DC
- PC Interface: Yes
- Dimensions/Weight: 10.9x3x2" (278x76x50mm)/12.3oz (350g)
- Warranty: 3 years

HD600
- Range: 30 to 130dB (3 ranges)
- Basic Accuracy: ±1.4dB
- Response Time: Yes
- Analog Output: AC/DC
- PC Interface: Yes
- Dimensions/Weight: 10.4x2.8x0.8" (265x72x21mm)/10.9oz (310g)
- Warranty: 1 year

SDL600
- Range: 30 to 130dB
- Basic Accuracy: ±1.4dB
- Response Time: Yes
- Analog Output: AC/DC
- PC Interface: Yes
- Dimensions/Weight: 10.4x2.8x0.8" (265x72x21mm)/10.9oz (310g)
- Warranty: 1 year

407780A
- Range: 30 to 130dB
- Basic Accuracy: ±1.4dB
- Response Time: Yes
- Analog Output: AC/DC
- PC Interface: Yes
- Dimensions/Weight: 10.4x2.8x0.8" (265x72x21mm)/10.9oz (310g)
- Warranty: 3 years

For the name of your local stocking distributor, visit www.extech.com/video

Sound Investment
- Sound Level Meters with built-in datalogger and PC interface
  - Meets Type 2 standards (ANSI S1.4-1983, IEC 60651, EN 60651)
  - Datalogs up to 32,000 records
  - Programmable integrating time, Real time calendar/lock
  - Linearly over wide range (100dB)
  - Display modes: SPL, SLP, MIN/ MAX, SEL, and Leq
  - Impulse/Fast/Slow response time
  - Analog and alarm output can be used to connect with Frequency analyzers and chart recorders
  - Tripod mount (optional TR100, tripod - sold separately)
  - Includes windshield, adjustment screwdriver, USB cable, Windows® compatible software, battery, and case. (Optional AC Adapter - see p. 122)

For NIST traceable certificate with data is available when you order your meter with Certificate Traceable to NIST. Look for this symbol next to product part numbers.
### SL400 Personal Noise Dosimeter/Datalogger

**New**

Includes belt clip, clip-on 0.5” (12.7mm) microphone with 3.5’ (81.3cm) cable, software, mini screwdriver, batteries, and case; 1 year warranty. 407355-KIT-6 Dosimeter Kit includes five 407355.

- **Measurement Modes**
  - Dose
  - Lmax
  - Lmin
  - Lavg
  - TWA
  - LEq

- **Specifications**
  - Frequency range 20Hz to 8kHz
  - Frequency weighting ‘A’ and ‘C’
  - Measurement ranges 30 to 80dB, 60 to 110dB, 80 to 130dB
  - Microphone 0.5” Electret Condenser Microphone (detachable)
  - Resolution 0.5 dB
  - Battery Life approx 34 hrs

### 407355/SL355 Personal Noise Dosimeter and Kits**

**New**

Each meter is a belt clip, clip-on 0.5” (12.7mm) microphone with 2.6’ (81.3cm) cable, software, mini screwdriver, batteries, and case; 1 year warranty. 407355 also includes 2 pin 25 pin adapter, and RS-232 cable. SL355 also includes USB cable. 407355-KIT-6 Dosimeter Kit includes five 407355.

- **Measurement Modes**
  - Dose
  - Lmax
  - Lmin
  - Lavg
  - TWA
  - LEq

- **Specifications**
  - Frequency range 20Hz to 16kHz
  - Frequency weighting ‘A’ and ‘C’
  - Measurement ranges 30 to 130dB, 60 to 130dB (AC weighting) 60 to 130dB (C weighting)
  - Microphone 0.5” Electret Condenser Microphone

### SL130G Sound Level Alert with Alarm

- Continuous monitoring of Sound Level — Built-in LEDs alert user when sound level is too high or too low
- Bright LEDs (red flashing or green) alert user when sound level is too high or too low – LEDs can be read from 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 adapter and microphone wind screen

### 407790A 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
- Bright LEDs (red flashing or green) alert user when sound level is too high or too low – LEDs can be read from 30m (100ft)
- Microphone extension cable (SL125) for remote monitoring
- Complete with universal AC adapter and microphone wind screen
- 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 adapter and microphone wind screen

### 407374-EXT Outdoor Sound Level Meter Cable

- Includes Windows® compatible software, USB cable, 4 x C batteries, microphone wind screen, mini screwdrivers, 120V AC adapter, and case. See p. 122 for 220-240V Adapter; 1yr warranty; Optional BA14/14dB calibrator (see 407766 on p. 120)
Rev Up Your Diagnostics

Measure RPM, surface speed, and revolution counts with Extech tachometers (see pages 126-129). Models include contact, non-contact and combination, as well as compact, stroboscopes and panel-mount versions.

**HANDHELD TACHOMETERS**

**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” (150mm) 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

**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

**461991 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

**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)
- 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

**ACCESSORIES**

461927反射ivity Tape - Flex reflective tape strips 33x.75” (84x19mm) ea. pkg.
461990 Contact Wheels - 2 sets of cone tip, flat tip, and spare wheel

**SPECIFICATIONS**

<table>
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<tr>
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<th>461895</th>
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<th>461995</th>
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<td>—</td>
<td>0.05 to 1999.9</td>
<td>—</td>
</tr>
<tr>
<td>ft/min</td>
<td>0.2 to 6560</td>
<td>—</td>
<td>0.2 to 6560</td>
<td>—</td>
</tr>
<tr>
<td>m/min</td>
<td>0.05 to 1999.9</td>
<td>—</td>
<td>0.05 to 1999.9</td>
<td>—</td>
</tr>
<tr>
<td>Basic Accuracy</td>
<td>±0.05%rdg</td>
<td>±0.05%rdg</td>
<td>±0.05%rdg</td>
<td>±0.05%rdg</td>
</tr>
<tr>
<td>Max rpm Resolution</td>
<td>0.1rpm</td>
<td>0.1rpm</td>
<td>0.1rpm</td>
<td>0.1rpm</td>
</tr>
<tr>
<td>Laser</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Temperature (R)</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>CE approved</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Weight</td>
<td>9.2oz (260g)</td>
<td>8.8oz (250g)</td>
<td>10.6oz (300g)</td>
<td>10.6oz (300g)</td>
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<tr>
<td>Warranty</td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
</tr>
</tbody>
</table>

**NON-CONTACT MODELS**

- 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” (150mm) 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

<table>
<thead>
<tr>
<th>461990</th>
<th>461995</th>
<th>RPM10</th>
</tr>
</thead>
<tbody>
<tr>
<td>rpm</td>
<td>0.5 to 20,000</td>
<td>Photo: 10 to 99,999</td>
</tr>
<tr>
<td>f/min</td>
<td>0.2 to 5000</td>
<td>—</td>
</tr>
<tr>
<td>m/min</td>
<td>0.05 to 1999.9</td>
<td>—</td>
</tr>
<tr>
<td>ft/min</td>
<td>0.2 to 6560</td>
<td>—</td>
</tr>
<tr>
<td>m/min</td>
<td>0.05 to 1999.9</td>
<td>—</td>
</tr>
<tr>
<td>Basic Accuracy</td>
<td>±0.05%rdg</td>
<td>±0.05%rdg</td>
</tr>
<tr>
<td>Max rpm Resolution</td>
<td>0.1rpm</td>
<td>0.1rpm</td>
</tr>
<tr>
<td>Laser</td>
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<tr>
<td>Temperature (R)</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>CE approved</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Weight</td>
<td>10.6oz (300g)</td>
<td>10.6oz (300g)</td>
</tr>
<tr>
<td>Warranty</td>
<td>1 year</td>
<td>1 year</td>
</tr>
</tbody>
</table>

**ACCESSORIES**

- Complete with wheels for surface speed measurements, four 1.5V AA batteries, 23” (0.6m) reflective tape, and carrying case

**For the name of your local stocking distributor, visit www.extech.com**
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

<table>
<thead>
<tr>
<th>RPM range</th>
<th>2 to 99,999 RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Count range</td>
<td>1 to 99,999 rev (revolution)</td>
</tr>
<tr>
<td>Target Distance</td>
<td>1.6ft (500mm)</td>
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<tr>
<td>Basic Accuracy</td>
<td>±0.05%</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.1rpm, 1 count</td>
</tr>
<tr>
<td>Dimensions/ Weight</td>
<td>6.2x3.8x8&quot; (160x98x203mm) / 5.3oz (151g)</td>
</tr>
</tbody>
</table>

ORDERING

461920 Mini Laser Photo Tachometer Counter
461921 Spare reflective tape (23'' each strip), 10pk

RPM33/RPM40 Mini Combination Contact/Laser Photo Tachometers

Quickly measure RPM, surface speed and length with one tool. Use the contact wheel for up-close readings or laser mode for non-contact readings.
• Large 5 digit backlit LCD display
• Microprocessor based with quartz crystal oscillator to maintain high accuracy
• Provides wide RPM (photo and contact) and Linear Surface Speed/Length (contact) measurements
• Includes contact wheel, batteries, and reflective tape; 1 year warranty; RPM33 also includes case; RPM40 also includes cone tip

Model RPM33 Additional Features
• Store/review 10 data sets in memory with 4 parameters (measurement/max/min/avg)
• Laser guided for greater distance non-contact measurements up to 1.6ft (500mm)

Model RPM40 Additional Features
• Long distance Laser guided measurements up to 4.9ft (1.5m)

SPECIFICATIONS

<table>
<thead>
<tr>
<th>RPM33</th>
<th>RPM40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range (rpm)</td>
<td>Photo: 2 to 99,999rpm</td>
</tr>
<tr>
<td>Surface Speed</td>
<td>2 to 78.750 inches/minute</td>
</tr>
<tr>
<td>Length</td>
<td>3 to 10000 meters</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.05%, rdg ± 1 digit</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.1rpm (≤1000rpm), 1rpm (&gt;1000rpm)</td>
</tr>
<tr>
<td>Dimensions/ Weight</td>
<td>6.2x3.8x3.7&quot; (160x98x98mm) / 5.3oz (151g)</td>
</tr>
</tbody>
</table>

ORDERING

461830/461831 Digital StroboTach

461950 1/8 DIN Panel Tachometer

Continuous & accurate readings from 5 to 99,999rpm
• 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
• Freezing motion and analyzing rotating objects is made easy
• 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

<table>
<thead>
<tr>
<th>RPM</th>
<th>5 to 99,999rpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>±0.05%</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.1rpm (≤1000rpm), 1rpm (&gt;1000rpm)</td>
</tr>
<tr>
<td>Power</td>
<td>110/230V, 50/60Hz</td>
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<tr>
<td>Dimensions/ Weight</td>
<td>4.9x2x1.3&quot; (124x50x33mm) / 4oz (114g)</td>
</tr>
</tbody>
</table>

ORDERING

461956 1/8 DIN Panel Tachometer
461955 Proximity
461957 Photoelectric

For the name of your local stocking distributor, visit www.extech.com
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
- HDV-WTX Wireless Transmitter connects to your camera cable and allows you to transmit video up to 100 ft (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

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 100 ft (30m) from the measurement point to your monitor

Camera Tip features built-in LED lights

HDV-WTX Wireless Transmitter allows measurements up to 100 ft (30m) away

HDV650 Series — High Definition Plumbing VideoScope Inspection Cameras

Plumbing VideoScope Kits utilize 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 100 ft (30m) from the measurement point to your monitor.

HDV650 Kits:
- HDV650-10G includes HDV600 and 10m fiberglas cable spool assembly
- HDV650W-10G includes HDV600, 10m fiberglas cable spool assembly and wireless transmitter
- HDV650-30G includes HDV600 and 30m fiberglas cable spool assembly
- HDV650W-30G includes HDV600, 30m fiberglas cable spool assembly and wireless transmitter

Indicates products that are available with optional calibration traceable to NIST. See page 160 for a complete listing.

For the name of your local stocking distributor, visit www.extech.com

Optional Camera Heads

HDV-TX1 8mm Articulating VideoScope Camera Head With Macro lens and 1m Semi-Rigid Cable
HDV-TX1L 8mm Articulating VideoScope Camera Head With Long Focus lens and 1m Semi-Rigid Cable
HDV-WTX1 8mm Wireless Articulating VideoScope Camera Head With Short Focus lens and 1m Semi-Rigid Cable
HDV-WTX1L 8mm Wireless Articulating VideoScope Camera Head With Long Focus lens and 1m Semi-Rigid Cable
HDV-TX2 8mm Articulating VideoScope Camera Head With Macro lens and 3m Semi-Rigid Cable
HDV-TX2L 8mm Articulating VideoScope Camera Head With Long Focus lens and 3m Semi-Rigid Cable
HDV-WTX2 8mm Wireless Articulating VideoScope Camera Head With Short Focus lens and 3m Semi-Rigid Cable
HDV-WTX2L 8mm Wireless Articulating VideoScope Camera Head With Long Focus lens and 3m Semi-Rigid Cable
HDV-25CAM-10G 25mm VideoScope Camera Head With Macro lens and 10m Fiberglas Cable
HDV-25CAM-10F 25mm VideoScope Camera Head With Macro lens and 10m Flexible Cable
HDV-5CAM-10G 5.5mm VideoScope Camera Head With Macro lens and 10m Fiberglas Cable
HDV-5CAM-10F 5.5mm VideoScope Camera Head With Macro lens and 10m Flexible Cable
HDV-25CAM-3FM 5.5mm VideoScope Camera Head With Macro lens and 3m Flexible Cable
HDV-25CAM-3F 5.5mm VideoScope Camera Head With Macro lens and 3m Flexible Cable
HDV-25CAM-3FMM 5.5mm VideoScope Camera Head With Macro lens and 3m Flexible Cable
HDV-25CAM-10FM 5.5mm VideoScope Camera Head With Macro lens and 10m Flexible Cable
HDV-25CAM-10FMM 5.5mm VideoScope Camera Head With Macro lens and 10m Flexible Cable
HDV-5CAM-10FM 5.5mm VideoScope Camera Head With Macro lens and 10m Flexible Cable
HDV-5CAM-3FM 5.5mm VideoScope Camera Head With Macro lens and 3m Flexible Cable
HDV-WTX2 6mm Articulating VideoScope Camera Head With Macro lens and 1m Semi-Rigid Cable
HDV-WTX1 6mm Wireless Articulating VideoScope Camera Head With Macro lens and 1m Semi-Rigid Cable
HDV-WTX2L 6mm Wireless Articulating VideoScope Camera Head With Short Focus lens and 3m Semi-Rigid Cable
HDV-WTX1L 6mm Wireless Articulating VideoScope Camera Head With Long Focus lens and 3m Semi-Rigid Cable
HDV-WTX2LM 6mm Wireless Articulating VideoScope Camera Head With Long Focus lens and 1m Semi-Rigid Cable
HDV-WTX1LM 6mm Wireless Articulating VideoScope Camera Head With Long Focus lens and 1m Semi-Rigid Cable
HDV-WTX2LM 6mm Wireless Articulating VideoScope Camera Head With Long Focus lens and 1m Semi-Rigid Cable
HDV-WTX1LM 6mm Wireless Articulating VideoScope Camera Head With Long Focus lens and 1m Semi-Rigid Cable
HDV-WTX2LM 6mm Wireless Articulating VideoScope Camera Head With Long Focus lens and 1m Semi-Rigid Cable
HDV-WTX1LM 6mm Wireless Articulating VideoScope Camera Head With Long Focus lens and 1m Semi-Rigid Cable
HDV-WTX2L 6mm Wireless Articulating VideoScope Camera Head With Short Focus lens and 3m Semi-Rigid Cable
HDV-WTX1L 6mm Wireless Articulating VideoScope Camera Head With Long Focus lens and 3m Semi-Rigid Cable
HDV-WTX2LM 6mm Wireless Articulating VideoScope Camera Head With Long Focus lens and 1m Semi-Rigid Cable
HDV-WTX1LM 6mm Wireless Articulating VideoScope Camera Head With Long Focus lens and 1m Semi-Rigid Cable
HDV-WTX2LM 6mm Wireless Articulating VideoScope Camera Head With Long Focus lens and 1m Semi-Rigid Cable
HDV-WTX1LM 6mm Wireless Articulating VideoScope Camera Head With Long Focus lens and 1m Semi-Rigid Cable
HDV-WTX2LM 6mm Wireless Articulating VideoScope Camera Head With Long Focus lens and 1m Semi-Rigid Cable
HDV-WTX1LM 6mm Wireless Articulating VideoScope Camera Head With Long Focus lens and 1m Semi-Rigid Cable
HDV-WTX2LM 6mm Wireless Articulating VideoScope Camera Head With Long Focus lens and 1m Semi-Rigid Cable
HDV-WTX1LM 6mm Wireless Articulating VideoScope Camera Head With Long Focus lens and 1m Semi-Rigid Cable
HDV-WTX2LM 6mm Wireless Articulating VideoScope Camera Head With Long Focus lens and 1m Semi-Rigid Cable
HDV-WTX1LM 6mm Wireless Articulating VideoScope Camera Head With Long Focus lens and 1m Semi-Rigid Cable
**HDV540 High Definition Articulating VideoScope Kit**

Articulating (240°) camera tip facilitates viewing in obstructed areas where standard camera tips cannot access.
- Includes wired handset with non-detachable 6mm flexible probe (1m) with macro lens
- Articulating probe tip adjusts up to 240° viewing angle
- 3.5" (89mm) color LCD TFT with high definition 320 x 240 pixel resolution
- Compact, high-resolution water-proof (IP67) camera probe
- Camera head with four built-in bright LED lamps and dimmer to illuminate viewed object
- Glare-free close-up field of view
- Store more than 20,000 images on 4GB SD card
- AV output for viewing images/video on a monitor
- Video and images can be transferred to a PC via the SD card or USB output
- Record voice-over audio in video recording mode
- Includes HDV500 videoscope, handset with 6mm Articulating VideoScope Camera Head, SD card, 3.7V rechargeable Li-Polymer battery, 103/240V Universal AC adapter and multiple plug types (US, EU, UK, AUS), USB and AV cables, and hard carrying case

**VideScope/Inspection Camera**

- Focus distance: 2.0 to 3.0" (50 to 75mm)
- Field of view: 57°
- Shaft diameter: 0.24" (6mm)
- Working length: 39" (1m)
- Camera tip bend radius: 240° (120° left, 120° right)
- LCD Color TFT Display/ Pixels: 3.5" (8.9cm) size/ 320 x 240 pixel resolution
- Camera Tip Bend Radius 240° (120° left, 120° right)
- Camera Pixels: BR200: 712x486 (NTSC) / BR250: 640 x 480 (NTSC)
- Camera Viewing distance: BR200: Viewing Angle 50° / BR250: Viewing Angle 45°
- Camera Viewing direction: BR200, Viewing direction 0°
- Frame Rate: 30 fps frame rate (NTSC & PAL)
- Focus Distance: 2.0 to 3.0" (50 to 75mm)
- Viewable Object: 3.0" (75mm) size/320 x 240 pixel resolution
- Video and images can be transferred to a PC via microSD card or USB flash drive.
- 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 adapter, USB cable, extension tools (mirror, hook, magnet) video interconnect cable, AC adapter, magnetic base stand, and hard case.

**BR200/BR250 Video Borescope/Wireless Inspection Cameras**

- 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.
- 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 adapter, USB cable, extension tools (mirror, hook, magnet) video interconnect cable, AC adapter, magnetic base stand, and hard case.

**New Reduced Price!**

- BR-4CAM 4.5mm 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-4CAM-5M 4.5mm 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
- BRD-10 Wireless USB Video Receiver
- BRD-10 Wireless USB Video Receiver allows user to stream the video from your Video Borescope to a PC and it can also be viewed remotely via VOIP connection.

**BRD-10 Wireless USB Video Receiver**

- Flexible Video Borescope (3/16" diameter/1m cable)
- Flexible Video Borescope (5mm diameter/1m cable)
- Wireless USB Video Receiver
- Borescope Extension Cable (5mm diameter/5m cable)
- 4.5mm Borescope Camera Head with 1m Cable
- 9mm Borescope Camera Head with 1m Cable
- 9mm Borescope Camera Head with 5m Cable
- 9mm Borescope Camera Head with 2m Cable
- 9mm Borescope Camera Head with 5m Cable
- 17mm Borescope Camera Head with 1m Cable
- 17mm Borescope Camera Head with 5m Cable

**HDV540/HDV5-6CAM-1AFM High Definition Articulating VideoScope Kit**

- Includes HDV500 videoscope, handset with 6mm Articulating VideoScope Camera Head, SD card, 3.7V rechargeable Li-Polymer battery, 103/240V Universal AC adapter and multiple plug types (US, EU, UK, AUS), USB and AV cables, and hard carrying case.

**Specifications**

- **Camera**
  - Focus distance: 2.0 to 3.0" (50 to 75mm)
  - Field of view: 57°
  - Shaft diameter: 0.24" (6mm)
  - Working length: 39" (1m)
  - Camera Tip Bend Radius: 240° (120° left, 120° right)

- **Borescope**
  - LCD Color TFT Display/ Pixels: 3.5" (89mm) size/320 x 240 pixel resolution
  - Frame Rate: 30 fps frame rate (NTSC & PAL)
  - Focus Distance: 2.0 to 3.0" (50 to 75mm)
  - Viewable Object: 3.0" (75mm) size/320 x 240 pixel resolution

- **Video and Images**
  - 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/NTSC**
  - Waterproof (IP67) flexible gooseneck retains configured shape.
  - NTSC operation with menus in 10 languages.
  - Close-up field of view: 1 year warranty.

- **Included Accessories**
  - 4 AA batteries, rechargeable display battery, memory card with adapter, USB cable, extension tools (mirror, hook, magnet) video interconnect cable, AC adapter, magnetic base stand, and hard case.

- **Camera Features**
  - NTSC operation with menus in 10 languages.
  - Close-up field of view: 1 year warranty.

- **Ordering Information**
  - BR-4CAM 4.5mm 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-4CAM-5M 4.5mm 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

- ** Vanderbilt INSPECTS**
  - For the name of your local stocking distributor, visit www.extech.com

For the name of your local stocking distributor; visit www.extech.com
BR80 Video Borescope Inspection Camera

- 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
- Mini-waterproof (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
- 4mm camera diameter with 4 bright LED lamps with and dimmer feature

Model BR150 Additional Features
- Vivid 2.4" color LCD monitor for detailed images
- Four bright LED lamps with dimmer to illuminate viewed object
- Configured shape and 2.4" Color TFT LCD Monitor
- 17mm camera diameter with 39" (1m) flexible gooseneck cable retains high resolution
- 1.5 hours operating time
- Display detaches for easy storage
- Mini water-proof (IP67) camera head for high resolution viewing
- 1 year warranty
- Complete with camera head with cable, 4 AA batteries, extension tools (mirror, hook, magnet), video output jack, and hard case
- Optional BRC-17CAM 17mm Borescope Camera Head with Cable
- Optional BRC-9CAM 9mm Borescope Camera Head with Cable

RF Series Portable Brix Refractometers

- 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, RF16 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 year 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 concentration to extend equipment life

SALINITY (RF30)
- Measure the concentration of dissolved salt in water

ORDERING
- RF10: 0 to 42% Brix, 42 to 71% Brix, 71 to 90% Brix
- RF11: 0 to 10% Brix, 0 to 32% Brix
- RF12: 0 to 18% Brix
- RF15: 0 to 32% Brix
- RF16: 0 to 10% Brix
- RF18: 0 to 18% Brix
- RF20: 0 to 100ppt (10 to 30°C)
- RF25: -50°C to 0°C
- RF30: Triple Range General Service

BR100/BR150 Video Borescope Inspection Cameras

- 9mm camera head
- 17mm camera head

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
- Provides accurate and repeatable measurements of % Ethylene Glycol and Propylene Glycol and °F on easy to read scales
- Automatic Temperature Compensation
- Requires only 2 or 3 drops of solution
- Complete with case, calibration screwdriver, and calibration solution; 1 year warranty

ORDERING
- RF40: 0 to 42% Brix
- RF41: 0 to 18% Brix

Specifications:

### RF Series Specifications:

<table>
<thead>
<tr>
<th>Type</th>
<th>Range</th>
<th>Resolution</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF10</td>
<td>0 to 42% Brix</td>
<td>0.2 ±0.2%</td>
<td>±5°F (2%)</td>
</tr>
<tr>
<td>RF11</td>
<td>0 to 10% Brix</td>
<td>0.2 ±0.2%</td>
<td>±5°F (2%)</td>
</tr>
<tr>
<td>RF12</td>
<td>0 to 18% Brix</td>
<td>0.2 ±0.2%</td>
<td>±5°F (2%)</td>
</tr>
<tr>
<td>RF15</td>
<td>0 to 32% Brix</td>
<td>0.2 ±0.2%</td>
<td>±5°F (2%)</td>
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<tr>
<td>RF16</td>
<td>0 to 10% Brix</td>
<td>0.2 ±0.2%</td>
<td>±5°F (2%)</td>
</tr>
<tr>
<td>RF18</td>
<td>0 to 18% Brix</td>
<td>0.2 ±0.2%</td>
<td>±5°F (2%)</td>
</tr>
<tr>
<td>RF20</td>
<td>0 to 100ppt (10 to 30°C)</td>
<td>1ppt</td>
<td>±5°F (2%)</td>
</tr>
<tr>
<td>RF25</td>
<td>-50°C to 0°C</td>
<td>1°C</td>
<td>±5°F (2%)</td>
</tr>
<tr>
<td>RF30</td>
<td>Triple Range General Service</td>
<td>0 to 90% Brix</td>
<td>±0.2%</td>
</tr>
</tbody>
</table>

### RF40/RF41 Battery Coolant/ Glycol Refractometer Specifications:

<table>
<thead>
<tr>
<th>Type</th>
<th>Range</th>
<th>Resolution</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF40</td>
<td>0 to 42% Brix</td>
<td>0.2 ±0.2%</td>
<td>±5°F (2%)</td>
</tr>
<tr>
<td>RF41</td>
<td>0 to 18% Brix</td>
<td>0.2 ±0.2%</td>
<td>±5°F (2%)</td>
</tr>
</tbody>
</table>

For the name of your local stocking distributor, visit www.extech.com

For more information, please visit www.extech.com/video

Notes:
- RF Series Portable Brix Refractometers
- RF40/RF41 Battery Coolant/ Glycol Refractometer
### Vibration Meters/Data loggers

#### SDL800/VP850 vibration meter/data loggers
- Dataloggers with date/time stamps via SD card in Excel format for easy transfer to a PC.
- Wide frequency range of 10Hz to 1kHz.
- RMS, Peak Value measurement modes.
- Min/Max, Zero function, Max Hold, Data Hold and Auto Power Off.
- Adjustable data sampling rate: 1 to 3600 seconds.
- Model SDL800:
  - Single Channel Input: includes one vibration sensor.
  - Includes remote sensor, magnetic mount, 9V battery, holster with 3.9ft (1.2m) cable, magnetic stand and case; 3 year warranty.
- Model VB500:
  - Four Channel input: includes 4 vibration sensors and Universal AC Adaptor.
  - Max/Min, Data Hold and Auto Power off functions.
- Includes both test pin tip, magnetic base, 4 x AAA batteries, and case.

#### VB450 vibration meter
- Wide 10Hz to 1500Hz frequency range.
- Frequency range: 10Hz to 1kHz.
- Velocity (RMS), Acceleration (Peak), and Displacement (Peak-to-Peak) modes.
- Auto Power Off and Low battery indicator.
- Automatic data hold after measurement button is released.

#### VB500 vibration meter
- Automatic data hold after measurement button is released.
- Velocity (RMS), Acceleration (Peak), and Displacement (Peak-to-Peak) modes.
- Frequency range: 10Hz to 1kHz.
- Max/Min, Data Hold and Auto Power off functions.

#### SDL800/VP850 vibration meter/data loggers
- 4-Channel Vibration Meter/Data Logger
- Model VB500:
  - Four Channel input; includes 4 vibration sensors and Universal AC Adaptor.
  - Adjustable data sampling rate: 1 to 3600 seconds.
  - RMS or Peak Value measurement modes.
- Model SDL800:
  - Single Channel Input; includes one vibration sensor.
  - Includes remote sensor with 3.9ft (1.2m) cable, magnetic mount, 9V battery, holster with stand and case; 3 year warranty.

### 407860 heavy duty vibration meter
- Includes remote sensor, magnetic mount, 9V battery, wrist strap, and soft case; 1 year warranty.

### VB450 vibration meter
- Includes remote sensor, magnetic mount, 9V battery, wrist strap, and soft case; 1 year warranty.

### VB450 vibration meter
- Includes remote sensor, magnetic mount, 9V battery, wrist strap, and soft case; 1 year warranty.

### 461880 vibration meter + laser combination tachometer
- Measures Acceleration, Velocity, Displacement, RPM and Surface Speed.
- Unique large LCD displays characters on reverse direction depending on function.
- Windows® XP compatible software (included) to analyze data on your PC.
- Basic accuracy: Tachometer: ±0.05% rdg, Vibration: ±5% rdg.
- Dimensions/Weight with Probes: 7.4 x 4 x 8.8” (188 x 75.5 x 46.8mm) / 2.8 lbs (1.3kg).
- Includes vibration sensor with 3” (75mm) cable, magnetic mount, wheels (cone & flat tip), reflective tape, 4 AA batteries, software with cable, and hard case; 1yr warranty.

### VB400 pen vibration meter
- Measures RMS Acceleration and Velocity with metric and imperial units.
- Ranges — Acceleration (RMS): 665ft/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 ±5%.
- Zero adjustment, Data Hold, and Low battery indicator.
- Unique large LCD displays characters on reverse direction depending on function.
- Includes both test pin tip, magnetic base, 4 x AAA batteries, and case.

### VB300 3-axis G-Force Datalogger
- Built-in 3-axis accelerometers record the shock and time when it occurs.
- Measures and compute real-time spectral data using FFT.
- Acceleration — Sampling Rate: 200Hz, Range: ±1g, Resolution: ±0.0025g, Accuracy: ±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 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) / 0.2oz (10g).
- Complete with Magnetized/Booth-on Mounting Base, 3.6V Lithium battery and Windows® compatible analysis software, 1 year warranty.

### ORDERING
- SDL800: Vibration Meter/Data Logger
- 13458: 117VAC Adapter
- 156221: 220VAC Adapter
- 461880: Vibration Meter/Datalogger
- 42299: 3.6V Lithium Battery (pk of 2)
- VS500: 3-Axis Vibration Meter
- VS400: 3-Axis G-Force Datalogger
- VS300: 3-Axis G-Force Datalogger
- 13458: 117VAC Adapter
- 156221: 220VAC Adapter
**PRC30 Multifunction Process Calibrator**

- Precision source and measure for thermocouples, mA, mV, and V devices
- Palm-sized double molded housing and large dot-matrix backlit LCD
- Measures DC process signals
- High accuracy calibration function simulates precision thermocouple outputs for use in calibrating thermometers, transmitters, controllers or recorders
- Up to five user adjustable calibration presets
- Displays output in terms of millivolts or temperature based on thermocouple tables
- 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**

<table>
<thead>
<tr>
<th>DC Source</th>
<th>DC Measure</th>
<th>Basic Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td>0 to 25mA, -25% to +125%</td>
<td>±(0.01%+1d)</td>
</tr>
<tr>
<td>Voltage</td>
<td>0 to 250V/5V to 20V</td>
<td>±(0.01%+1d)</td>
</tr>
<tr>
<td>Type J</td>
<td>-58 to 1832°F (-50 to 1000°C)</td>
<td>±0.05% rdg ±1°F</td>
</tr>
<tr>
<td>Type K</td>
<td>-58 to 2498°F (-50 to 1370°C)</td>
<td>±0.05% rdg ±1°F</td>
</tr>
<tr>
<td>Type T</td>
<td>-184 to 752°F (-120 to 400°C)</td>
<td>±0.05% rdg ±1°F</td>
</tr>
<tr>
<td>Loop Power</td>
<td>24V</td>
<td>±(0.01%+1d)</td>
</tr>
</tbody>
</table>

Max. Load: 1000Ω @ 24mA
Dimensions/Weight: 6.3x3.2x1.7” (159x80x44mm)/ 8.2oz (232g) - not including battery weight

**Ordering**

PRC30: Multifunction Process Calibrator

---

**PRC20 Multi-Type Calibrator Thermometer**

- 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**

<table>
<thead>
<tr>
<th>Range</th>
<th>Basic Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type J: -58 to 1832°F (-50 to 1000°C)</td>
<td>±0.05% rdg ±1°F</td>
</tr>
<tr>
<td>Type K: -58 to 2498°F (-50 to 1370°C)</td>
<td>±0.05% rdg ±1°F</td>
</tr>
<tr>
<td>Type T: -184 to 752°F (-120 to 400°C)</td>
<td>±0.05% rdg ±1°F</td>
</tr>
<tr>
<td>Type E: -58 to 1382°F (-50 to 750°C)</td>
<td>±0.05% rdg ±1°F</td>
</tr>
<tr>
<td>Type C: -58 to 1382°F (-50 to 750°C)</td>
<td>±0.05% rdg ±1°F</td>
</tr>
<tr>
<td>Type R/S: 32 to 1092°F (0 to 750°C)</td>
<td>±0.05% rdg ±1°F</td>
</tr>
<tr>
<td>Type N: -58 to 3272°F (-50 to 1800°C)</td>
<td>±0.05% rdg ±1°F</td>
</tr>
<tr>
<td>Voltage</td>
<td>±0.05% rdg ±1°F</td>
</tr>
</tbody>
</table>

Dimensions/Weight: 6.3x3.2x1.7” (159x80x44mm)/ 6.4oz (183g) - not including battery weight

**Ordering**

PRC20: Multi-Type 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

**Specifications**

<table>
<thead>
<tr>
<th>DC Source</th>
<th>DC Measure</th>
<th>Basic Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td>0 to 24mA</td>
<td>±(0.01%+1d)</td>
</tr>
<tr>
<td>Voltage</td>
<td>0 to 100V</td>
<td>±(0.01%+1d)</td>
</tr>
<tr>
<td>Max. Load</td>
<td>1000Ω @ 24mA</td>
<td>±(0.01%+1d)</td>
</tr>
</tbody>
</table>

Dimensions/Weight: 6.3x3.2x1.7” (159x80x44mm)/ 8.2oz (232g) - not including battery weight

**Ordering**

PRC10: Current Calibrator/Meter
PRC15: 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: Calibration Source Checker
Perfect Timing
Stopwatches ensure consistent timing of critical industrial/lab processes and provide split/lap times at sporting events.

**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) neoprene lanyard and one 3V CR2032 battery

**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) neoprene lanyard

**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) neoprene lanyard

**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) neoprene lanyard

<table>
<thead>
<tr>
<th>Specifications</th>
<th>HW30</th>
<th>365510</th>
<th>365515</th>
<th>365535</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timing Capacity</td>
<td>9hrs, 24mins, and 59secs</td>
<td>23hrs, 59mins and 59.99secs</td>
<td>23hrs, 59mins and 59.99secs</td>
<td>19hrs, 59mins and 59.99secs</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±5 seconds/day</td>
<td>±3 seconds/day</td>
<td>±3 seconds/day</td>
<td>±5 seconds/day</td>
</tr>
<tr>
<td>Alarm</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Countdown Timer</td>
<td>Yes</td>
<td>—</td>
<td>—</td>
<td>3 Modes</td>
</tr>
<tr>
<td>Lap Memory</td>
<td>30 laps</td>
<td>—</td>
<td>—</td>
<td>500 laps</td>
</tr>
<tr>
<td>Heat Index</td>
<td>70 to 122°F (22 to 50°C)</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Temperature</td>
<td>14 to 122°F (–10 to 52°C)</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Humidity</td>
<td>1 to 99%</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>CE approved</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Dimensions</td>
<td>3.1x2.8x0.8” (79x70x21mm)</td>
<td>2.3x2.8x0.8” (78x70x21mm)</td>
<td>2.3x2.8x0.8” (78x70x21mm)</td>
<td>2.3x2.8x0.8” (78x70x21mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>3oz (85g)</td>
<td>2oz (56g)</td>
<td>2oz (56g)</td>
<td>3.7oz (17g)</td>
</tr>
<tr>
<td>Warranty</td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
<td>1 year</td>
</tr>
</tbody>
</table>
**CG104 Coating Thickness Tester**

Smart display rotates 180° for easy viewing angle and Automatic recognition for ferrous and non-ferrous substrates
- 180° reversible LCD display with LED backlight
- Magnetic induction for ferrous substrates; Eddy current for non-ferrous substrates
- Memory stores 256 readings
- User adjustable high/low alarms, Min/Max/Average
- Eddy current measurement for non-ferrous substrates
- Magnetic induction for ferrous substrates
- Conforms to GB/T 4956-1985, GB/T 4957-1985, JB/T 8393-1996, JJG 889-95, and JJG 818-93

**CG204 Coating Thickness Tester**

Automatic recognition for ferrous and non-ferrous substrates with USB interface with software for further analysis of reads on a PC
- Conforms to GB/T 4956-1985, GB/T 4957-1985, JB/T 8393-1996, JJG 889-95, and JJG 818-93
- Magnetic induction for ferrous substrates
- Eddy current measurement for non-ferrous substrates
- Two measuring modes (Single and Continuous) and Working modes (Direct & Group)
- Memory stores 400 readings: 80 Direct and 320 Group readings
- One or two point calibration
- USB interface includes software
- Low battery indicator
- Includes two AAA batteries, USB cable, software, Calibration Iron, Calibration Aluminum, Precision Standards, and pouch

**CG206 Coating Thickness Tester**

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

**CG304 Coating Thickness Tester with Bluetooth**

Bluetooth® interface feature wirelessly transmits data to your PC
- Provides automatic recognition of ferrous and non-ferrous substrates
- Magnetic induction for ferrous substrates
- Eddy current measurement for non-ferrous substrates
- Easy-to-use menu system
- Dot matrix LCD display with backlight and contrast
- Memory stores 2500 readings in 50 groups with 50 readings in each group
- Two-point calibration function
- Complete with two AAA batteries, software, hard case, Steel and Aluminum substrates, and standard films for calibration; 1 year warranty
SC600 Electronic Counting Scale/Balance

Wide capacity measuring single small electronic component weighing 0.005oz (0.1g) or batches up to 21.164oz (600g)
• ±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
• Dimensions: 9.8x7.5x2.8” (250x190x70mm); Platform Diameter: 4.7” (120mm);
• Weight: 3.2lbs (1.4kg)
• Complete with 6 AA batteries, metal platform, and Universal AC adaptor; 1 year warranty

ORDERING
SC600 Electronic Counting Scale/Balance
407001 Data Acquisition Software with Cable

SC50 Electronic Digital Scale

Portable electronic scale weighs items that won’t fit on a flat floor scale
• 1.6” color LCD with 0.5” digits provides
• Weight and Tare indication
• 110lbs/50kg with 0.01lb (0.01kg) resolution
• Simple touchscreen Zero and Tare programming
• Automatic 30 seconds Data Hold
• Auto Power Off in 30 seconds
• Overload indicator
• Complete with CR2032 battery, 9.4” (238mm) strap, and metal hook; 1 year warranty

ORDERING
SC50 Electronic Digital Scale

CL500 Free and Total Chlorine Meter

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 ±0.05% @ 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 3.2 x 2.4” (155 x 76 x 62mm)
Weight 11.3oz (320g)

ORDERING
CL500 Free and Total Chlorine Meter

TB400 Portable Turbidity Meter

Complete with all the accessories to conveniently test the turbidity of municipal water, food and beverage water, and other aqueous solutions where fluid clarity is important
• Microprocessor-based circuitry assures high accuracy and repeatable readings
• Requires only a 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 ±0.05 NTU, whichever is greater
Light source LED, 850nm
Standard Designed to meet ISO 7027
Response Time <10 seconds
Dimensions 6.1 x 3.2 x 2.4” (155 x 76 x 62mm)
Weight 11.3oz (320g)

ORDERING
TB400 Turbidity Meter

Measure batches of electronic components.
Indicates products that are available with optional calibration traceable to surfaces, and in liquids.

The electrodes measure solids and semi-solids on flat interchangeable flat surface electrode. It measures pH.

**ExStik® Series — Why Flat Surface Electrodes?**

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

**ACCESSORIES**

- PH100 - pH ExStik® Electrode Module
- PH110 - pH ExStik® Electrode Module
- PH13 - Reference Buffer Solution Kit for PH110
- PH20 - pH 2.0 Buffer Solution (2 bottles - 1 pint each)
- PH7 - pH 7 Buffer Solution (2 bottles - 1 pint each)
- PH10 - pH 10 Buffer Solution (2 bottles - 1 pint each)
- CL200 - Chlorine ExStik® Electrode Module
- CL20 - Chlorine 4-in-1 Kit
- RE300 - ORP ExStik® Electrode Module
- EX900 - ExStik® 4-in-1 Kit

**PH100/PH110 Waterproof ExStik® pH Meters**

- Select 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 7.0) to conveniently view trends in acidity or alkalinity
- 1, 2 or 3 point buffer calibration; ATC
- Records 15 labeled readings
- Waterproof housing (meets IP57)

**PH100**

- Complete with flat surface ORP electrode, protective sensor cap, sample cup with cap, four 3V button batteries, and 48" (1.2m) neckstrap

**PH110**

- Complete with flat surface pH, ORP, Chlorine electrodes, Optional RE305 electrode to measure ORP and CL200 to measure Total Chlorine
- Complete with protective sensor cap, sample cup with cap, four 3V button batteries, and 48" (1.2m) neckstrap

**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

**RE300 Waterproof 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 button batteries and 48" (1.2m) neckstrap

**CL200 Waterproof ExStik® Chlorine Meter**

- Direct reading of Total chlorine down to 0.01ppm and is unaffected by color or Turbidity of the sample
- 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 protects meter from wet environment
- Large LCD simultaneously displays ppm of Total Chlorine, Temperature and analog bargraph indicator

**EX900 Waterproof ExStik® 4-in-1 Kit**

- Complete kit allows you to measure Chlorine, pH, ORP, and Temperature with all the necessary accessories
- One meter with three interchangeable flat surface electrodes to measure Chlorine, pH or ORP
- Measure in liquids, semi-solids and solids
- Memory stores and recalls 15 readings and saves last calibrated value
- Automatic electronic self calibration for Chlorine and ORP; 1, 2 or 3 point buffer calibration for pH
- Waterproof to IP57 protects meter from wet environment
- Direct reading of Total Chlorine from low detection limit; Unaffected by sample color or turbidity
- See PH100, RE300, and CL200 for complete features and specifications
- Complete with CL200 Chlorine ExStik® meter, flat surface pH electrode, flat surface ORP electrode, ExTab™ reagent tablets (50 tests), protective sensor cap, sample cup with cap, four 3V button batteries, and 48" (1.2m) neckstrap

**SPECIFICATIONS**

- **PH100**
  - pH: 0.00 to 14.000pH
  - ORP (mV): 0.00 to 999mV
  - Chlorine (ppm): 0.00 to 999ppm
- **PH110**
  - pH: 0.00 to 14.000pH
  - ORP (mV): 0.00 to 999mV
  - Chlorine (ppm): 0.00 to 999ppm
- **RE300**
  - ORP (mV): 0.00 to 999mV
  - Chlorine (ppm): 0.00 to 999ppm
  - Temperature: 23° to 104°F (-5° to 40°C)
  - Resolution: 0.00pH, 0.1°F
  - Temp Resolution: ±0.5°F, ±1°C
  - Memory: 15 readings
  - Dimensions/Weight: 1.6x8.5x1(inch) (41x216x25mm) (2.0oz) (59g)
  - Warranty: 1yr (transmitter conditional warranty only)
- **CL200**
  - ORP (mV): 0.00 to 999mV
  - Chlorine (ppm): 0.00 to 999ppm
  - Temperature: 23° to 104°F (-5° to 40°C)
  - Resolution: 0.01pH, 0.1°F
  - Temp Resolution: ±0.5°F, ±1°C
  - Memory: 15 readings
  - Dimensions/Weight: 1.4x6.8x1.6 (inch) (35.6x172.7x40.6mm) (3.8oz) (110g)
  - Warranty: 1yr (transmitter conditional warranty only)
- **EX900**
  - ORP (mV): 0.00 to 999mV
  - Chlorine (ppm): 0.00 to 999ppm
  - Temperature: 23° to 104°F (-5° to 40°C)
  - Resolution: 0.1ppm, 0.1°F
  - Temp Resolution: ±1°F, ±1°C
  - Memory: 15 readings
  - Dimensions/Weight: 1.4x3.7x0.9 (inch) (35.6x93.7x22.8mm) (1.2oz) (34g)
  - Warranty: 1yr (transmitter conditional warranty only)
### ACCESSORIES

- PH90: pH Electrode Module for PH90
- EC406: ExStik® II Conductivity Cell Module for EC409
- EC506: ExStik® II Conductivity Cell Module for EC500
- EC-846-P: 1.4µS Conductivity Standard (2 bottles) (pH meter)
- EC-1013-P: 10.0µS Conductivity Standard (2 bottles) (pH meter)
- EC-1066-P: 1080µS Conductivity Standard (2 bottles) (pH meter)
- CA904: Large hard case for meter and accessories
- CA895: Small vinyl carrying case with belt loop
- EX050: 16ft (5m) Extension Cable w/Probe Guard/Weight
- EX010: 3ft (1m) Extension Cable w/Probe Guard/Weight
- EC-12880-P: 12880µS Conductivity Standard (2 bottles/1 pint ea)
- EC-1413-P: 1413µS Conductivity Standard (2 bottles/1 pint ea)
- EC505*: ExStik® II Conductivity Cell Module for EC500
- PH95: pH Electrode Module for PH90
- PH95: pH Electrode Module for PH90
- EC410: ExStik® II* Conductivity/Kill
- EC510: ExStik® II* DO/pH/EC Kit

### Value Kits

- ExStik® pH/ORP/Chlorine Kit
- ExStik® II electrode modules

### ExStik® II Electrode Modules

- PH95: pH Electrode Module for PH90
- EC406: ExStik® II Conductivity Cell Module for EC409
- EC506: ExStik® II Conductivity Cell Module for EC500

### ExStik® II Kit

- EC400 ExStik® II Conductor/Conductivity Meter
- EC500 ExStik® II Conductivity Kit

### Specifications

<table>
<thead>
<tr>
<th>PH90</th>
<th>EC406</th>
<th>EC506</th>
<th>EC410</th>
<th>EC510</th>
<th>Specifications</th>
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<tr>
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<td>pH</td>
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<tr>
<td></td>
<td>0.00 to 14.00pH</td>
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<td>TDS/Salinity/Fluoride</td>
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<td>32° to 122°F (0 to 50°C)</td>
<td>32° to 122°F (0 to 50°C)</td>
<td>32° to 122°F (0 to 50°C)</td>
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<td>Max. Resolution</td>
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<td>0.1pH, 0.1°C</td>
<td>0.1pH, 0.1°C</td>
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<td></td>
</tr>
<tr>
<td>Basic Accuracy</td>
<td>±0.1µS, ±0.1°F (±0.1°C)</td>
<td>±0.1µS, ±0.1°F (±0.1°C)</td>
<td>±0.1µS, ±0.1°F (±0.1°C)</td>
<td>±0.1µS, ±0.1°F (±0.1°C)</td>
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<tr>
<td>Dimensions</td>
<td>1.4 x 1.1 x 4.0” (35 x 29 x 103mm)</td>
<td>1.4 x 1.1 x 4.0” (35 x 29 x 103mm)</td>
<td>1.4 x 1.1 x 4.0” (35 x 29 x 103mm)</td>
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</tr>
<tr>
<td>Weight</td>
<td>3.6oz (105g)</td>
<td>3.6oz (105g)</td>
<td>3.6oz (105g)</td>
<td>3.6oz (105g)</td>
<td></td>
</tr>
</tbody>
</table>

**New** ExStik® II Electrode Modules are not interchangeable with ExStik® pH/ORP/Chlorine meters. All models are CE approved.

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**Warranty**

- 1 year (meter) with calibration traceable to NIST.
- 6 months (electrode) with calibration to NIST.

**Weight**

- 3 oz (85g)
- 3.8 oz (110g)

**pH and Conductivity Testers and Kits**

- EC400 ExStik® II Conductor/Conductivity Meter
- EC500 ExStik® II Conductivity Kit
- EC410 ExStik® II Conductor/Conductivity Kit
- EC510 ExStik® II DO/pH/EC Kit

**Specifications**

- Measures pH, Conductivity, TDS, Salinity, and Temperature using a combination electrode.
- EC500 ExStik® II pH/Conductivity/TDS/Salinity/Temperature meter with sensor, protective cap, 4µS, 1413µS, 12880µS 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 carrying case.
- See EC500 on the left for more details on the meter.

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**For the name of your local stocking distributor, visit www.extech.com**
CL200 ExStik® Waterproof Chlorine Meter

- Direct reading of Total Chlorine down to 0.01ppm and is unaffected by color or Turbidity of the sample
- 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 IP67
- Large LCD simultaneously displays ppm of Total Chlorine, Temperature and analog bargraph indicator
- 1 year warranty (meter)/ 6 months conditional warranty (electrode)
- Displays Oxygen level Saturation (0 to 200.0%) or Concentration (0 to 20.00mg/L [ppm]) and Temperature 32 to 122°F (0 to 50°C)
- Basic accuracy: ±2.0%FS, ±0.4ppm (mg/L), ±1.8°F/1°C
- Resolution: 0.1°F/°C; 0.01ppm; 0.01mg/L
- Dimensions/Weight 1.4x6.8x1.6” (35.6x172.7x40.6mm)/ 3.85oz (110g)
- Basic accuracy ±10% of reading ±0.01ppm; ±1.8°F/±1°C
- Resolution 0.01ppm; 0.1°F/°C;
- Temperature 23° to 194°F (-5 to 90°C)

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
- 1ppm standard for chlorine meter calibration
- Complete with 3 ampules (20mL each) 1ppm calibration standards

ORDERING
- CL200 ExStik® Chlorine Meter
- CL204 ExTab™ Reagent tablets (50 tests), protective sensor cap, sample cup with cap, four 3V button batteries, and 48” (1.2m) neckstrap

DO600 ExStik® II* Dissolved Oxygen Meter

- Easy to replace screw-on membrane cap with optional extension cables
- Displays Oxygen level Saturation (0 to 200.0%) or Concentration (0 to 20.00mg/L [ppm]) and Temperature 32 to 122°F (0 to 50°C)
- Max resolution: 0.1%, 0.01ppm, 0.1°C
- Basic accuracy: ±2.0%FS, ±0.4ppm (mg/L), ±1.8°F/1°C
- Adjustable Altitude Compensation (0 to 2000m) in 1000ft increments
- Adjustable Salinity Compensation from 0 to 10ppt
- Analog bargraph display; Self calibration on power up
- Memory stores 25 labeled data; Waterproof to IP57
- Model DO600 meter includes DO electrode, sensor cap, spare membrane cap, electrolyte, four 3V CR2032 batteries, and 48” (1.2m) neckstrap
- Model DO600-K Kit shown on the left

ORDERING
- DO600 ExStik® II* Dissolved Oxygen Meter
- DO600-K ExStik® II* Dissolved Oxygen Kit
- DO605 ExStik® II Dissolved Oxygen Module for DO600
- DO605 Membrane Kit for DO600/D060
- DO603 31” (1m) Extension Cable w/Probe Guard/Weight
- DO603 10” Extension Cable w/Probe Guard/Weight

DIRECT READING OF CHLORINE AND OXYGEN

- Direct reading of Fluoride from 0.1ppm to 10ppm with ATC; Waterproof IP57
- First Fluoride meter with built-in Automatic Temperature Compensation
- Fastest response Fluoride meter (~1min)
- Measures Temperature from 32 to 140°F (0 to 60°C)
- 0.1ppm, 0.1 max resolution and ±3.0% basic accuracy
- 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
- Dimensions: 1.4x6.8x1.6” (35.6x172.7x40.6mm); W: 3.8oz (110g)
- Contact Extech or your local lab supply for Fluoride calibration standards

ORDERING
- FL700 ExStik® II Fluoride Meter
- FL704 ExStik® II Fluoride Module for FL700
- FL705 TISAB reagent tablets for FL700 (100 tablets)

FL700 ExStik® II Fluoride Meter

- Includes flat surface electrode, cap, TISAB reagent tablets, four 3V button batteries, and 48” (1.2m) neckstrap; 1 year warranty

- 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. 149 for more details on the EC500 and above for DO600 meter

ORDERING
- DO610 ExStik® II pH/EC Kit
- EC500-K ExStik® II pH/Conductivity Kit

Accessories included:

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

For the name of your local stocking distributor, visit www.extech.com

For NIST traceable products, see page 160 for a complete listing.
**EC100/EC150/EC170 Conductivity/TDS/Salinity Meters**

Easy-to-use, low cost waterproof pH pens
- Model PH50 – Measures pH
- Model PH50 – Measures pH and Temperature
- Automatic Temperature Compensation Waterproof housing
- Easy to calibrate single CAL key with automatic pH buffer recognition (-7, 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: 2.5 to 12.5pH
- Temperature: 32° to 122°F (0° to 50°C)
- Resolution: 0.1pH
- Accuracy: ±0.3pH
- Dimensions/WT: 6.1 x 2.3 x 0.9" (152 x 37 x 24mm)/ 2.3oz (65g)

**ORDERING**
- PH50: Waterproof pH Pen
- PH50: Waterproof pH Meter with Temperature
- PH50: Three buffer pouches (6ea: 4, 7, 10pH, 2 Rinse solutions)

**PH50/PH60 pH Pens**

Easy-to-use, low cost waterproof pH pens
- Model PH50 – Measures pH
- Model PH50 – Measures pH and Temperature
- Automatic Temperature Compensation Waterproof housing
- Easy to calibrate single CAL key with automatic pH buffer recognition (-7, 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: 2.5 to 12.5pH
- Temperature: 32° to 122°F (0° to 50°C)
- Resolution: 0.1pH
- Accuracy: ±0.3pH
- Dimensions/WT: 6.1 x 2.3 x 0.9" (152 x 37 x 24mm)/ 2.3oz (65g)

**ORDERING**
- PH50: Waterproof pH Pen
- PH50: Waterproof pH Meter with Temperature
- PH50: Three buffer pouches (6ea: 4, 7, 10pH, 2 Rinse solutions)

**PH50/PH60 pH Pens**

Easy-to-use, low cost waterproof pH pens
- Model PH50 – Measures pH
- Model PH50 – Measures pH and Temperature
- Automatic Temperature Compensation Waterproof housing
- Easy to calibrate single CAL key with automatic pH buffer recognition (-7, 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: 2.5 to 12.5pH
- Temperature: 32° to 122°F (0° to 50°C)
- Resolution: 0.1pH
- Accuracy: ±0.3pH
- Dimensions/WT: 6.1 x 2.3 x 0.9" (152 x 37 x 24mm)/ 2.3oz (65g)

**ORDERING**
- PH50: Waterproof pH Pen
- PH50: Waterproof pH Meter with Temperature
- PH50: Three buffer pouches (6ea: 4, 7, 10pH, 2 Rinse solutions)

**PH50/PH60 pH Pens**

Easy-to-use, low cost waterproof pH pens
- Model PH50 – Measures pH
- Model PH50 – Measures pH and Temperature
- Automatic Temperature Compensation Waterproof housing
- Easy to calibrate single CAL key with automatic pH buffer recognition (-7, 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: 2.5 to 12.5pH
- Temperature: 32° to 122°F (0° to 50°C)
- Resolution: 0.1pH
- Accuracy: ±0.3pH
- Dimensions/WT: 6.1 x 2.3 x 0.9" (152 x 37 x 24mm)/ 2.3oz (65g)

**ORDERING**
- PH50: Waterproof pH Pen
- PH50: Waterproof pH Meter with Temperature
- PH50: Three buffer pouches (6ea: 4, 7, 10pH, 2 Rinse solutions)
PH210 Compact pH/ORP/Temp Meter

- Displays pH or mV and Temperature simultaneously
- BNC input accepts standard pH or ORP electrodes (sold separately)
- Manual or Automatic Temperature Compensation (via optional Temperature Probe)
- Automatic point calibration (4, 7, and 10pH)
- Data Hold and Min/Max
- Auto Power Off with disable feature
- Complete with 9V battery and soft case (pH, ORP, Temperature Probes, and pH buffers sold separately - see Accessories on the left)

PH220 Waterproof Palm pH/Temp Meter

- Large LCD display in rugged housing with choice of stick or cabled pH Electrode
- Displays pH and Temperature simultaneously
- Automatic Buffer recognition
- Automatic Temperature Compensation via Pt-100 sensor built into electrode
- Low Battery indicator and Auto Power off
- Waterproof housing (meets IP57)
- Rugged design for handheld or wall mount (magnetic back)
- Complete with waterproof meter, pH electrode, protective holster, pH & 4 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 disk type polycarbonate electrode (12mm diameter) for direct connection to meter

PH300 Waterproof pH/Thermometer 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/Temp 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 with adjustable buffer values
- Optional ORP electrode (67500B) and Universal AC Adapter (UA100-240)
- Model OYSTER-15 Kit includes Oyster-10 meter, neckstrap, 9V battery, 60102B 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 Data Logger

Data logger 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 (60102B), Temperature probe (850118), and hard carrying case
- Optional Universal AC Adapter UA100-240

SPECIFICATIONS

PH210
- pH 0.00 to 14.00pH
- mV -1999mV to 1999mV
- Temperature 32° to 212°F (0 to 99.9°C)
- Resolution ±0.02pH, ±0.15mV, ±1.0°F/±0.5°C
- Memory 200 readings
- Basic Accuracy ±0.04pH, ±0.5%mV, ±1.5°F/±0.8°C

PH220-C
- pH 0.00 to 14.00pH
- mV -1999mV to 1999mV
- Temperature 32° to 212°F (0 to 99.9°C)
- Resolution ±0.02pH, ±2mV, ±0.8°F/0.5°C
- Memory 25 readings
- Basic Accuracy ±0.01pH, ±1mV, ±0.1°

PH220-S
- pH 0.00 to 14.00pH
- mV -1999mV to 1999mV
- Temperature 32° to 212°F (0 to 99.9°C)
- Resolution ±0.01pH, ±0.5mV, ±0.1°
- Memory 20 readings
- Basic Accuracy ±0.01pH, ±0.5mV, ±0.1°

PH300
- pH 0.00 to 14.00pH
- mV -1999mV to 1999mV
- Temperature 32° to 212°F (0 to 99.9°C)
- Resolution ±0.02pH, ±2mV, ±0.8°F/0.5°C
- Memory 20 readings
- Basic Accuracy ±0.01pH, ±0.5mV, ±0.1°

SDL100 C
- pH 0.00 to 14.00pH
- mV -1999mV to 1999mV
- Temperature 32° to 212°F (0 to 99.9°C)
- Resolution ±0.02pH, ±2mV, ±0.8°F/0.5°C
- Memory 20 readings
- Basic Accuracy ±0.01pH, ±0.5mV, ±0.1°
Ensuring Water Quality

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

**ACCESSORIES**

**EC210-P** Multi Conductivity Standard (2 bottles - 1 pint each)
**EC600-P** 1413µS Conductivity Standard (2 bottles - 1 pint each)
**EC84-P** 84µS Conductivity Standard (2 bottles - 1 pint each)
**EC210-P** Replacement Conductivity/TDS Cell for EC210
**EC600** Spare 84µS Conductivity Cell for EC600
**804010A** Polymer Conductivity Cell for 341350A-P
**60120B** Spare Mini pH Electrode for 341350A-P
**67500B** ORP Electrode (13 x 154mm)
**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**

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<tr>
<th>Model</th>
<th>Conductivity</th>
<th>pH</th>
<th>Temperature</th>
<th>Resolution</th>
<th>Accuracy</th>
<th>Dimensions</th>
<th>Warranty</th>
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<td>EC210</td>
<td>1µS/cm, 0.01mS/cm, 0.1mS/cm, 10µS/cm, 100µS/cm</td>
<td>0.00 to 10.00pH</td>
<td>32 to 122°F (0 to 50°C)</td>
<td>0.01pH, 0.01mV, 0.01µS, 0.01 ppt, 0.1°F/°C</td>
<td>±0.02pH, ±0.1mV, ±0.5°F/°C</td>
<td>4.7x1.5x0.7in (120x38x19mm)/5.0oz (140g)</td>
<td>1 year (5 months electrode)</td>
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<tr>
<td>EC600</td>
<td>±1µS/cm, ±0.05mS/cm, ±0.5mS/cm, ±5.0µS/cm, ±50.0µS/cm, ±0.5°F/°C</td>
<td>±0.02pH, ±0.1mV, ±0.5°F/°C</td>
<td>±2%, ±0.02pH</td>
<td>7.5x2.3x1.2in (190x58x30mm)/13oz (360g)</td>
<td>1 year (6 months electrode)</td>
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<td></td>
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<tr>
<td>341350A-P</td>
<td>1µS/cm, 0.01mS/cm, 0.1mS/cm, 10µS/cm, 100µS/cm</td>
<td>±0.02pH, ±0.1mV, ±0.5°F/°C</td>
<td>±2%, ±0.02pH</td>
<td>7.5x2.3x1.2in (190x58x30mm)/13oz (360g)</td>
<td>1 year (6 months electrode)</td>
<td></td>
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</tr>
</tbody>
</table>
Dissolved Oxygen Meters/Datalogger

**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 99 readings
- Large backlit dual LCD
- Record/Recall MN, 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 membrane and 13ft (4m) cable, membranes, (4m) cable, two spare probe heads with membrane, 9V battery, and protective holster with (4m) cable, membranes, and hard carrying case.

**SPECIFICATIONS**

- **Dissolved Oxygen**
  - Range: 0 to 20.0mg/L
  - Accuracy: ±0.4mg/L
- **Oxygen**
  - Range: 0 to 100.0%
  - Accuracy: ±0.7%
- **Temperature**
  - Range: 32 to 122°F (0 to 50°C)
  - Accuracy: ±1.5°F / ±0.8°C

**Probe Compensation & Adjustment**

- Salt: 0 to 50%
- Altitude: 0 to 8910m
- Temp: 0 to 50°C

**Dimensions/Weight**

- Meter: 7.2x2.9x1.9" (182x73x48mm); 25.6oz (725g)
- Probe: 0.8Dx1.9"L (22mmx50mm)

**Ordering**

- SDL150-D Dissolved Oxygen Meter/Datalogger
- 407510-P Dissolved Oxygen probe with 13ft (4m) cable
- UA40-240 100-240V AC Adapter with 4 plugs (US, EU, UK, AU)

**D0700 Waterproof Series Dissolved Oxygen Kit**

- B-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 (50mL), 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**

- **Dissolved Oxygen (Concentration)**
  - Range: 0 to 20.0mg/L
  - Accuracy: ±0.7%
- **Dissolved Oxygen (Saturation)**
  - Range: 0 to 100.0%
  - Accuracy: ±0.7%
- **pH**
  - Range: 0 to 14.0pH
  - Accuracy: ±0.15mV
- **mV**
  - Range: -1999 to +1999mV
  - Accuracy: ±0.15mV
- **Temperature**
  - Range: 32 to 122°F (0 to 50°C)
  - Accuracy: ±0.8°C
- **Conductivity**
  - Range: 0 to 200.0µS
  - Accuracy: ±1.5%
- **Salinity**
  - Range: 0 to 20.0ppt
  - Accuracy: ±1.5%
- **Electrolyte**
  - Range: 0 to 30.0ppt
  - Accuracy: ±1.5%
- **Temperature (for pH & mV)**
  - Range: 32 to 122°F (0 to 50°C)
  - Accuracy: ±1.5%
- **Temperature (other)**
  - Range: 32 to 122°F (0 to 50°C)
  - Accuracy: ±0.8°C
- **Resistivity**
  - Range: 0 to 100M cm
  - Accuracy: ±1.5%
- **TDS**
  - Range: 0 to 100g/L
  - Accuracy: ±1.5%
- **Conductivity**
  - Range: 0.00 to 199.9mS
  - Accuracy: ±1.5%
- **mV**
  - Range: -1999 to +1999mV
  - Accuracy: ±0.15mV
- **pH**
  - Range: -2.00 to 19.99pH
  - Accuracy: ±0.02pH
- **Dissolved Oxygen (Saturation)**
  - Range: 0 to 100.0%
  - Accuracy: ±1.5%

**Ordering**

- D0705 Waterproof Dissolved Oxygen Meter
- D0706 Dissolved Oxygen Electrode
- D0709 Replacement Membranes Caps (3 caps)
- ECO30 Spare pH/mV/Temperature Electrode
- ECO80 Spare Polymer Conductivity Cell

**D0210 Compact Dissolved Oxygen Meter**

- Take quick measurements of Dissolved Oxygen or % Oxygen
- Measures Dissolved Oxygen and % Oxygen plus Temperature
- Automatic Temperature Compensation via temperature sensor built into polarographic type oxygen probe
- Adjustable Alkalinity and Salinity Compensation
- Min/Max and Data Hold functions
- Auto Power Off with disable feature
- 1 year warranty (meter) / 6 months conditional warranty (electrode)

**SPECIFICATIONS**

- **Dissolved Oxygen**
  - Range: 0 to 20.0mg/L
  - Accuracy: ±0.4mg/L
- **Oxygen**
  - Range: 0 to 100.0%
  - Accuracy: ±0.7%
- **Temperature**
  - Range: 32 to 122°F (0 to 50°C)
  - Accuracy: ±1.7°F / ±0.8°C

**Probe Compensation & Adjustment**

- Salt: 0 to 50%
- Altitude: 0 to 8910m
- Temp: 0 to 50°C

**Ordering**

- D0215 Dissolved Oxygen Meter
- 407510-D Dissolved Oxygen probe with 13ft (4m) cable
- 780418 DO internal Fill Solution (2pks — 50mL each)

**DO700 Waterproof Series Dissolved Oxygen Kit**

- Complete kit includes all the necessary accessories stored in a hard case for easy transportation, Ideal for field use.

- NIST.
- See page 160 for a complete listing.

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**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" (35mm) LCD display
- Built-in PC interface with optional Data Acquisition Software 407001 (see p. 114)
- 3 year warranty (meter) / 6 months conditional warranty (electrode)

**SPECIFICATIONS**

- **Dissolved Oxygen**
  - Range: 0 to 20.0mg/L
  - Accuracy: ±0.4mg/L
- **Oxygen**
  - Range: 0 to 100.0%
  - Accuracy: ±0.7%
- **Temperature**
  - Range: 32 to 122°F (0 to 50°C)
  - Accuracy: ±1.7°F / ±0.8°C
- **Probe Compensation & Adjustment**
  - Salt: 0 to 50%
  - Altitude: 0 to 8910m
  - Temp: 0 to 50°C

**Dimensions/Weight**

- Meter: 7.0x2.6x1.2" (178x65x31mm); 6.3oz (180g)
- Probe: 28mm(1.1")D x 190mm(7.5")L

**Ordering**

- 407510 Heavy Duty Dissolved Oxygen Kit
- 407510-P Dissolved Oxygen probe with 13ft (4m) cable
- UA20-340 100-240V AC Adapter with 4 plugs (US, EU, UK, AU)
- 780418 DO internal Fill Solution (2pks — 50mL each)
- 780417A Replacement Membranes (10/pack)

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**40700 Waterproof Series Dissolved Oxygen Kit**

- Complete kit includes all the necessary accessories stored in a hard case for easy transportation, Ideal for field use.

- NIST.
- See page 160 for a complete listing.

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**For the name of your local stockist distributor, visit [www.extech.com](http://www.extech.com)**
Indicates products that are available with optional calibration traceable to NIST.

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*407750-NISTL: Limited NIST for Certificate of Traceability from -4 to 1500°F (-20 to 815°C)

**42515-T-NISTL: Limited NIST for Certificate of Traceability from -4 to 1500°F (-20 to 815°C)

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* NIST: Limited NIST for Certificate of Traceability to all functions except IR Thermometer

** NISTL: Limited NIST for Certificate of Traceability to IR Temperature function only

*** NISTL: Limited NIST for Certificate of Traceability to stopwatch functions only

**** NISTL: Limited NIST for Certificate of Traceability to all functions except IR Thermometer
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*Part numbers marked with an asterisk are available with optional calibration traceable to NIST.**VIR50-NISTL - Limited NIST for Certificate of Traceability to Type K and max IR Temperature of 1500°F (815°C)SDL400-NIST - Limited NIST for Certificate of Traceability to a single point in UVA and a single point in UVC modes**SDL900 - Limited NIST for Certificate of Traceability to UVA and a single point in UVC modes

Indicates products that are available with optional calibration traceable to NIST.
Calibration
Traceable to NIST

When your job demands it, Extech goes the distance to deliver certified accuracy for your test & measurement equipment.

Calibrate your Expectations
Extech is one of the few suppliers that offers a broad range of measurement instrumentation complete with a Certificate of calibration that is traceable to NIST (The National Institute of Standards and Technology), an agency of the U.S. Department of Commerce. This Certification ensures that, since traceable standards are used and maintained, Extech products will perform optimally and will meet or exceed published specifications in all of their functions.

Calibration Adds Value
Our in-house calibration lab accommodates a wide range of calibrations and services and was built specifically with our customers’ requirements in mind. Our Calibration Lab complies with all pertinent industry guidelines ensuring that high quality standards are maintained. NIST traceable Calibrations are performed by skilled technicians under strict ISO-9001 guidelines and procedures. Our Calibration equipment is state-of-the-art, regularly tested for peak performance, and continually upgraded.

Extech for Makers

With Extech, don’t just build, make. Don’t just program, hack. Don’t just design, fabricate.

The Choice for Makers & Hackers
Around the world, a new generation of makers and hackers is exploring innovative ideas in electronic hardware, programming and 3-D printed fabrication. And it’s happening at home, at school, and also in HackerSpaces, MakerSpaces, TechShops and FabLabs. Inventive minds are solving small and large challenges by building electronics with simple yet sophisticated platforms like Arduino and Raspberry Pi. Extech is proud to be play a prominent role in Maker/Hacker culture. See how:

Hacker Training
Leading hacker and security expert, Joe Grand uses Extech EX410 digital multimeters as part of the standard equipment in his popular “Hands-On Hardware Hacking and Reverse Engineering” course given at major events around the world.

EEV Blog
Extech multimeters have been featured on EEV Blog as part of the standard equipment in his popular “Hands-On Hardware Hacking and Reverse Engineering” course given at major events around the world.

Make
Extech meters, benchtop power supplies and borescopes have been featured on Make: in Product Reviews as well as in gift guides for the holidays and Father’s Day. Extech’s EX330 even received a “Best of Make:” honor.

The New York Times
The New York Times explored the idea of “home labs” and touted the Extech’s EX210 multimeter for its built-in infrared thermometer.

For the name of your local stocking distributor, visit www.extech.com or call 1-877-894-7440.
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