EXTECH®
INSTRUMENTS

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

45th *Celebrating Our*
Anniversary

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.

Arpineh Mullaney

VP Sales, Extech Instruments
A division of FLIR Systems

Sound

Air Quality

Electrical

Vibration

Water Quality

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.

What Do You Need To Measure Today?

Humidity

Gas

Airflow

Temperature

Light

Power

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 **N** 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!
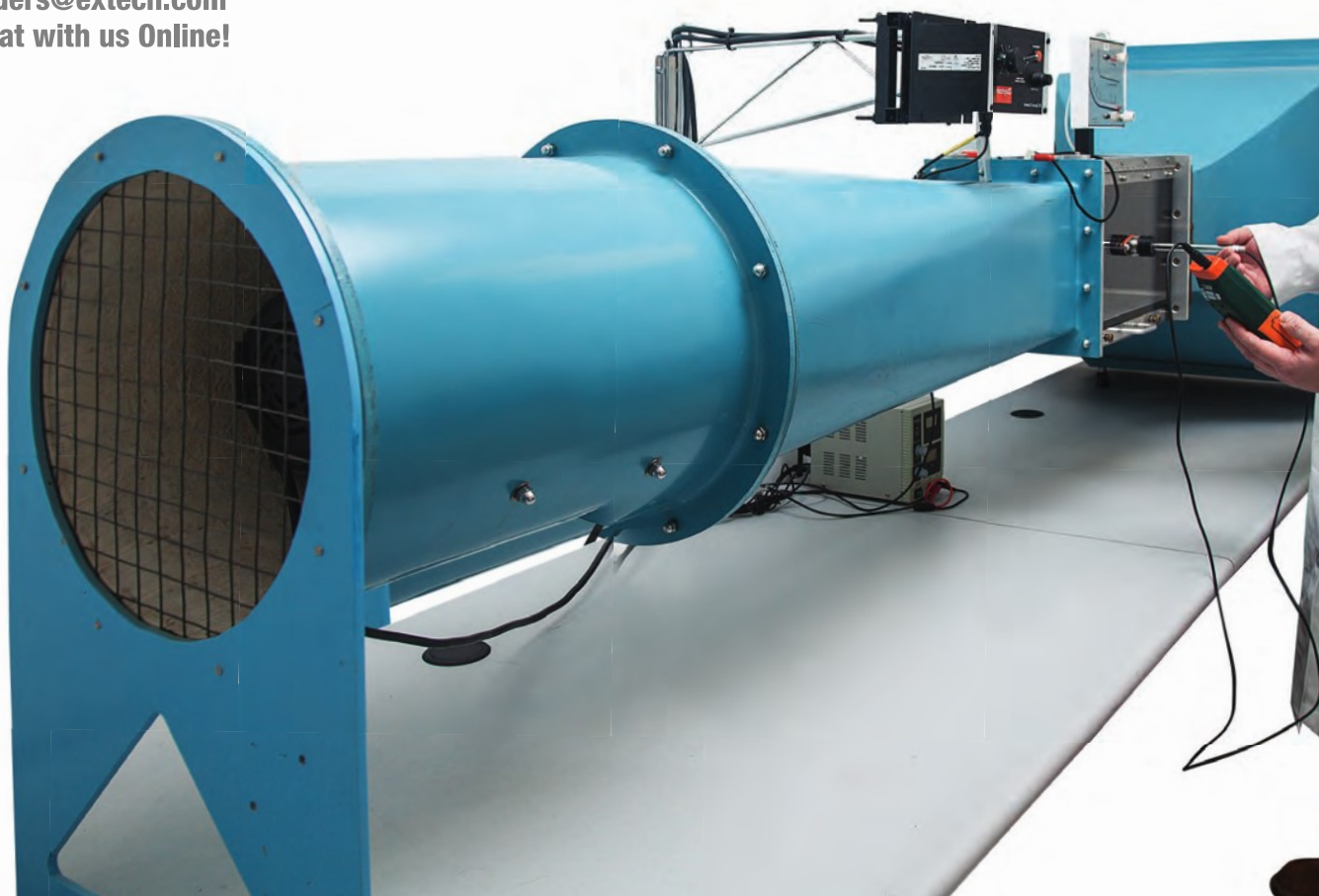
In a growing market of test equipment, Extech stands out as a trusted, well-known brand focused on building lifelong relationships with our customer community. Only Extech can achieve that with a dedicated team of customer support and service, as well as a relentless pursuit of quality.

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.

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65+ NEW PRODUCTS

Innovation That Gets The Job Done

EXTECH DELIVERS THE TOOLS YOU NEED TO INSTALL EQUIPMENT, SOLVE PROBLEMS AND TROUBLESHOOT MORE EFFICIENTLY.

Unlock Your Datalogging

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

SD900/ SD910
p.35

Ground Control

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

GRT350
p.53

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.

MA3010/ MA3018
p.33

MA260
p.27

MA61 MA63
p.31

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.

EX650/ EX655
p.24

EX350 EX355
p.11

6

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.

VB450
p.136

HDV450
p.132

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.

CG104
CG206
p. 142

CG304
p.143

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.

MF100
SDL900
p.63

EMF450
p.62

Power On The Go

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

PWR5
p.83

Part#	Product	Page#
EX365	Industrial CAT IV TRMS MultiMeter+NCV	12
381676A	Pen MultiMeter + NCV	17
MG325	CAT IV Insulation Tester/MultiMeter	18
MN62-K	True RMS MultiMeter + AC Volt Detector	19
MA445	True RMS 400A AC/DC Clamp Meter	26
MA145	TRMS 300A AC/DC Clamp Meter+NCV	27
MA160	TRMS 200A AC Open Jaw Clamp Meter	27
DV23	CAT IV AC Voltage Detector	38
TG20	Wire Tracer Kit	45
MG310	Compact Digital Insulation Tester	58

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.

HT200
p.89

THD5
p.76

RH210
p.86

RHT3
p.79

RH35
p.79

CTH10A
p.77

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.

CO240
p.106

FM200
p.108

CO230
p.106

FM100
p.108

VFM200
p.109

8

EC210
p.157

PH210
p.154

DO210
p.159

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.

SDL470
p.118

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.

MO50
p.90

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
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407790A	Octave Band Sound Analyzer	125
RPM40	Combination Contact/Laser Photo Tachometer	128
PH90	Waterproof pH Meter	148

Digital MultiMeter (DMM) Index Guide

Pick the right Clamp Meter for your application

MN Series
Compact and affordable Digital MultiMeters with choice of Manual Ranging or Autoranging models. Perfect for DIYers, students, hobbyists, mechanics and technicians.
p. 16

EX300 Series
Mini Digital DMMs with built-in Non-contact Voltage Detector and numerous electrical functions and temperature.
p. 10

EX350 Series
These professional True RMS DMMs are loaded with advanced features and functions. Low Impedance (LoZ) mode eliminates false readings caused by ghost voltages. Low Pass Filter (LPF) attenuates high frequencies to reduce noise for accurate readings.
p. 11

EX360 Series
Professional CAT IV True RMS MultiMeters designed for Electrical, HVAC, or Industrial Applications. Advanced LoZ feature eliminates false readings caused by ghost voltages. CAT IV safety rating ensures the highest level of protection.
p. 12

EX400 Series
Professional Full Size Series Digital MultiMeters. Features include Large Digits, True RMS or Averaging, and Type K and/or built-in IR Thermometer.
p. 13

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

MG300 Series
Combines a 1000V Insulation Resistance Tester with a True RMS CAT-IV Digital MultiMeter plus wireless connectivity to a PC for safer monitoring, data recording and diagnostics.
p. 18

Look for this symbol: N indicating products that are available with optional calibration traceable to NIST. See complete listing on p. 160-165.

EX300 Series Mini Digital MultiMeters + Voltage Detector

Combination MultiMeter with non-contact AC Voltage Detector
• Built-in non-contact AC Voltage Detector with red LED indicator and audible beeper
• Large 1" digits makes display easy to read
• Dimensions: 5.7x2.9x1.6" (147x76x42mm); Weight: 9oz (260g)
• 1 year warranty
• Complete with stand, test leads, protective holster, batteries, general purpose Type K bead wire temperature probe (EX330 only)

Model EX310 (Manual Ranging)
• Battery test 1.5V and 9V

Model EX320 (Autoranging)
• Max Hold, Data Hold, and Auto Power Off

Model EX330 (Autoranging)
• Data Hold and Auto Power Off
• Advanced functions include Type K Temperature, Capacitance, and Frequency

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

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

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

CALIBRATION TRACEABLE TO NIST

EX350 Series True RMS MultiMeters with LPF and LoZ

EX355
with Temperature

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

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

Verify Temperature output on HVAC units using Model EX355

SPECIFICATIONS	EX350	EX355
Display counts	4000	6000
Basic DCV Accuracy	±0.5%	±0.5%
NCV Detector	Yes	Yes
DC/AC Voltage	0.01mV to 600V	0.01mV to 600V
DC/AC Current	0.1µA to 10.00A	0.1µA to 10.00A
Resistance	0.1Ω to 40.00MΩ	0.1Ω to 60.00MΩ
Capacitance	1pF to 60.00mF	1pF to 60.00mF
Frequency	0.001Hz to 10MHz	0.001Hz to 10MHz
Temperature (Type K)	—	-40 to 1832°F (-40 to 1000°C)
Duty Cycle	0.1 to 99.9%	0.1 to 99.9%
Diode Test	3.2V	3.2V
Continuity	Audible	Audible
Dimensions/ Weight	6.7x3.2x1.9" (175x81x48.5mm)/ 13.1oz (370g)	
Warranty	3 years	3 years

ORDERING
EX350 N	True RMS MultiMeter + NCV	
EX355 N	True RMS MultiMeter + NCV + Temperature	
TL810	Electrical Test Lead Kit	
TL803	Standard Test Leads	
TP200	Type K Clamp Probe (212°F/100°C)	

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 N next to product part numbers.

EXTECH INSTRUMENTS

EX360 Series CAT IV True RMS MultiMeters + NCV + LoZ

NEW

Model EX363
HVAC DMM

Model EX360
Electrical DMM

Model EX365
Industrial DMM

Includes test leads, 9V battery, holster with tilt stand and built-in magnet, and general purpose bead wire temperature probe (Model EX363); 1 year warranty

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 backlit 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
- µA function 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
- Frequency and Capacitance measurement

SPECIFICATIONS	EX360	EX363	EX365
Basic Accuracy (DCV)	0.5%	0.5%	0.5%
NCV Detector	Yes	Yes	Yes
DC/AC Voltage	0.1mV to 1000V	0.1mV to 1000V	0.1mV to 1000V
DC/AC Current	—	—	1mA to 10A
DC/AC µA Current	—	600µA	—
Resistance	0.1Ω to 40MΩ	0.1Ω to 40MΩ	0.1Ω to 40MΩ
Capacitance	1nF to 10mF	1nF to 10mF	1nF to 10mF
Frequency	0.01Hz to 100kHz	0.01Hz to 100kHz	0.01Hz to 100kHz
Temperature (Type K)	—	-40 to 742°F (-40 to 394°C)	—
Diode Test/Continuity	Yes	Yes	Yes
Dimensions/ Weight	6.5x3.2x1.7" (164x82X44mm)/ 5.9oz (450g)		

ORDERING		
EX360 N		Electrical CAT IV True RMS MultiMeter + NCV
EX363 N		HVAC CAT IV True RMS MultiMeter + NCV
EX365 N		Industrial CAT IV True RMS MultiMeter + NCV

Benefits of LoZ Function

ON   ON   ON   OFF

No LoZ function – picks up reading from ghost voltages

LoZ function – prevents false readings from ghost voltages
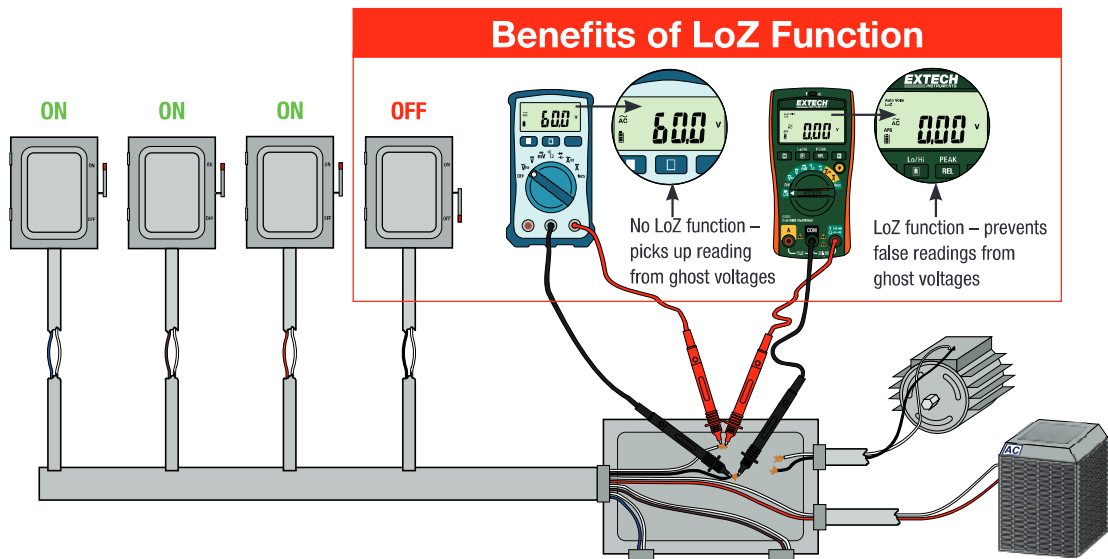
EX400 Series Professional MultiMeters

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)
- Averaging 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

EX410

EX430

EX470
DMM+IR Thermometer

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

Watch the **Video**
www.extech.com/video

SPECIFICATIONS	EX410	EX430	EX470
Temperature (IR)	—	—	58 to 518°F (-50 to 270°C)
Averaging/True RMS	Averaging	True RMS	True RMS
Basic Accuracy (VDC)	±0.5%	±0.3%	±0.3%
AC Voltage	1mV to 750V	0.1mV to 750V	0.1mV to 750V
DC Voltage	0.1mV to 1000V	0.1mV to 1000V	0.1mV to 1000V
AC Current	0.1µA to 20A	0.1µA to 20A	0.1µA to 20A
DC Current	0.1µA to 20A	0.1µA to 20A	0.1µA to 20A
Resistance	0.1Ω to 20MΩ	0.1Ω to 40MΩ	0.1Ω to 40MΩ
Capacitance	—	0.01nF to 100µF	0.01nF to 100µF
Frequency	—	0.001Hz to 10MHz	0.001Hz to 10MHz
Temperature (Type K)	-4 to 1382°F (-20 to 750°C)	-4 to 1382°F (-20 to 750°C)	-4 to 1382°F (-20 to 750°C)
Duty Cycle	—	0.1% to 99.9%	0.1% to 99.9%
Diode Test/Continuity	Yes	Yes	Yes
Dimensions/ Weight	7.4x3.2x2" (187x81x50mm)/ 0.75lbs (342g)		
Warranty	1 year	3 years	3 years

ORDERING	
EX410 N	Manual Ranging MultiMeter
EX430 N	True RMS Autoranging MultiMeter
EX470 N	True RMS Autoranging MultiMeter + IR Thermometer
TL810	Electrical Test Lead Kit
TL803	Standard Test Leads
TP200	Type K Clamp Probe (212°F/100°C)
HG500	Magnetic Hanging Strap

Extech-exclusive Meters with Built-in IR Thermometer!
Our innovative design incorporates a built-in IR Thermometer. Look for the Built-in IR Thermometer logo throughout this catalog.

MultiMeters   Voltage Detectors   Clamp Meters   Psychrometers   Humidity Meters   Moisture Meters   Tachometers   Air Flow Meters

EX500 CAT IV Heavy Duty True RMS 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, soft case, and one 9V battery

Model EX505
- 4,000 count
- 0.5% basic accuracy
- Data Hold and Relative
- 10A max current

Model EX520
- 6000 count—high resolution
- 0.09% basic accuracy
- Min/Max/Relative/Data Hold
- 20A max current

Model EX530
- 40,000 count—highest resolution
- 0.06% basic accuracy
- Min/Max/Relative/Data Hold
- 20A max current
- Peak Hold (AC only)

EX505

EX520

EX530

Watch the Video
www.extech.com/video

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

SPECIFICATIONS	EX505	EX520	EX530
True RMS	True RMS	True RMS	True RMS
Basic Accuracy	±0.5%	±0.09%	±0.06%
DC Voltage	0.1mV to 1000VDC	0.1mV to 1000VDC	0.01mV to 1000VDC
AC Voltage	0.1mV to 1000VAC	1mV to 1000VAC	0.01mV to 1000VAC
DC/AC Current	0.1µA to 10A	0.1µA to 20A	0.01µA to 20A
Resistance	0.1Ω to 40MΩ	0.1Ω to 40MΩ	0.01Ω to 40MΩ
Capacitance	0.01nF to 100µF	0.01nF to 1000µF	0.001nF to 40mF
Frequency (electrical)	5Hz to 1kHz	10Hz to 400Hz	40Hz to 400Hz
Frequency (electronic)	0.001Hz to 10MHz	0.001Hz to 40MHz	0.001Hz to 100MHz
Temperature (Type K)	-4 to 1382°F (-20 to 750°C)	-4 to 1382°F (-20 to 750°C)	-4 to 1382°F (-20 to 750°C)
Duty Cycle	0.1 to 99.9%	0.1 to 99.9%	0.1 to 99.90%
Diode (2.8V)/Continuity	Yes	Yes	Yes
Category Rating	CAT IV-600V, CAT III-1000V	CAT IV-600V, CAT III-1000V	CAT IV-600V, CAT III-1000V
Waterproof / Drop proof	IP67 / 6.5ft (2m)	IP67 / 6.5ft (2m)	IP67 / 6.5ft (2m)
Dimensions	7.25x3.25x2.25" (184x83x57mm)	7.25x3.25x2.25" (184x83x57mm)	7.25x3.25x2.25" (184x83x57mm)
Weight	12.3oz (349g)	12.3oz (349g)	12.3oz (349g)
Warranty	3 years	3 years	3 years

ORDERING		
EX505	N	True RMS Industrial MultiMeter (4000 count)
EX520	N	True RMS Industrial MultiMeter (6000 count)
EX530	N	True RMS Industrial MultiMeter (40,000 count)
TL810		Electrical Test Lead Kit
TL805		Double Injected Test Leads
TP200		Type K Clamp Probe (212°F/100°C)
HG500		Magnetic Hanging Strap

CALIBRATION TRACEABLE TO NIST

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

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

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

Watch the **Video**
www.extech.com/video

SPECIFICATIONS

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

ORDERING

EX570 N	CAT IV Industrial MultiMeter + IR Thermometer

EX540/EX542 CAT IV Datalogging MultiMeter with Real Time Streaming

CAT IV True RMS MultiMeter datalogs up to 9,999 readings with wireless USB interface capability to transmit readings to your PC in real time
- Real time datalogging or wireless data transmission directly to your PC (30ft/10m)
- True RMS measurements for accurate AC Voltage and Current measurements
- Diode open circuit voltage of 2.8V DC and 1000V input protection on all functions
- Double molded construction for waterproof (IP67) protection
- CAT IV-600V safety rating for industrial applications
- Dual sensitivity frequency functions
- Large backlit triple LCD display with 40,000 counts; Auto off with disable feature
- Complete with double molded test leads, magnetic hanging strap, general purpose Type K bead wire temperature probe, remote receiver with USB cable, Windows® compatible software, 9V battery and carrying case; 3 year warranty

WIRELESS Transmitter

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

SPECIFICATIONS

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

ORDERING

EX540 N	CAT IV Datalogging MultiMeter with Real Time Streaming (915MHz)
EX542 N	CAT IV Datalogging MultiMeter with Real Time Streaming (433MHz)
(NOTE: USA, Mexico, and Canada use 915MHz model and majority of other countries use 433MHz model)	

MN15A/MN16A Digital Mini MultiMeters

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

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

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

MN35/MN36 Digital Mini MultiMeters

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

SPECIFICATIONS	Model MN35	Basic Accuracy	Model MN36	Basic Accuracy
DC Voltage	600V (0.1mV)	±0.5%	600V (0.1mV)	±0.5%
AC Voltage	600V (0.1V)	±1.2%	600V (0.1V)	±1.2%
DC Current	10A (0.1mA)	±1.5%	10A (0.1µA)	±1.2%
AC Current	—	—	10A (0.1µA)	±1.5%
Resistance	20MΩ (0.1µΩ)	±0.8%	40MΩ (0.1µΩ)	±1.2%
Capacitance	—	—	100µF (0.001nF)	±3.0%
Frequency	—	—	5MHz (0.01Hz)	±1.0%
Temperature	-4 to 1400°F (1°) -20 to 750°C	±(1%+4°)	-4 to 1400°F (1°) -20 to 750°C	±(1%+4°)
Battery Test	9V and 1.5V		—	
Power	one 9V battery		2 x AAA batteries	
Dimensions/Wt	5.43x2.83x1.5" (138x72x38mm)/5.4oz (153g)			

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

Displays AC Voltage of an outlet receptacle

CALIBRATION TRACEABLE TO NIST

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

DM220 CAT IV Pocket MultiMeter + NCV

Autoranging DMM with 4000 count LCD display, NCV and Built-in Flashlight
- Non-Contact Voltage detection identifies live circuits
- Rugged double molded housing; CAT IV-600V, CAT III-1000V safety rating

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

Includes test leads and two AAA batteries; 1 year warranty

ORDERING	
DM220	CAT IV Pocket MultiMeter + NCV
409992	Vinyl pouch case

DM110 Mini Pocket MultiMeter

10 function Autoranging including Frequency, Capacitance, and Duty Cycle
- Large 4000 count LCD display
- Auto power off with disable feature
- Relative and Data Hold functions
- Built-in storage compartment for integrated test leads
- CAT II - 600V safety rating; Over-range and low battery indication

NEW Reduced Price!

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

Includes test leads, protective holster, button battery, and case; 1 year warranty

ORDERING	
DM110	Mini Pocket MultiMeter

381676A Pen DMM with Non-Contact Voltage Detector

NEW

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

SPECIFICATIONS			
Function	Range	Max Resolution	Basic Accuracy (%rdg)
Non-contact Voltage	>110VAC		
AC/DC Voltage	200mV, 2, 20, 200, 600V	0.1mV	AC: ±0.8%; DC: 0.7%
AC/DC Current	20mA, 200mA	0.01µA	AC: ±2%; DC: 0.1.5%
Resistance (Ω)	200, 2k, 20k, 200k, 2M, 20M	0.1Ω	±0.8%
Logic Test	0 to 1.5V (Green LED), 1.5 to 3.5V (LED off), 3.5 to 5V (Red LED)		
Diode/Continuity	Yes		
Dimensions/Weight	8.2x1.5x1.1" (208x38x29mm)/4.6oz (129g)		

Includes test leads, two alligator clips, two 1.5V AAA batteries, and soft case; 1 year warranty

ORDERING	
381676A	Pen DMM with Non-Contact Voltage Detector

MG325 CAT IV Insulation Tester/MultiMeter

NEW

Includes test leads, alligator clip, remote probe with built-in test button, 6 x AA batteries, and soft case; 1 year warranty

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

SPECIFICATIONS	
Insulation Resistance	50MΩ, 100MΩ, 200MΩ,500MΩ, 2000MΩ, 1GΩ, 10GΩ, 20GΩ, 50GΩ, 100GΩ, 200GΩ
Insulation Test Voltages	50V, 100V, 250V, 500V, 1000V
AC/DC Voltage	600V
Leakage Current	2000µA
Resistance	10MΩ
Low Resistance	100Ω
Capacitance	500µF
Frequency	1kHZ
Continuity	Yes (audible)
Dimensions/ Weight	8.9 x 4.1 x 2.3" (225 x 103 x 59mm)/ 1.5lbs (0.7kg)

ORDERING	
MG325 [N]	CAT IV Insulation Tester/MultiMeter with Remote Test Probe

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

WIRELESS Transmitter

Combines a 1000V Insulation Tester with a True RMS MultiMeter

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

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

Watch the Video
www.extech.com/video

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Insulation Resistance	4MΩ, 40MΩ, 400MΩ, 4000MΩ	0.001MΩ	±3%
Insulation Test Voltages	125V, 250V, 500V, 1000V		
AC/DC Voltage	1000V	0.1mVAC/ 0.01mVDC	AC: ±1%, DC: ±0.06%
AC/DC Current	10A	0.1µA AC/ 0.01µA DC	AC: ±1.5%, DC: ±1%
Resistance	40MΩ	0.01Ω	±0.3%
Capacitance	40mF	0.001nF	±3.5%
Frequency	100MHZ	0.001HZ	±0.1%
Duty Cycle	0.1 to 99.9%	0.01	±1.2%
Temperature	-58 to 1832°F (-50 to 1000°C)	0.1°F (0.1°C)	±1% + 4.5°F (2.5°C)
4-20mA%	-25 to 125%	0.01%	
Continuity/Diode	Yes		
Dimensions/ Weight	7.8 x 3.6 x 1.9" (200 x 92 x 50mm)/ 20.5oz (582g)		

ORDERING	NOTE: USA, Mexico, and Canada use 915MHz model MG300 and majority of other countries use 433MHz model MG302
MG300 [N]	CAT IV Insulation Tester/MultiMeter with Wireless PC Interface (915MHz)
MG302 [N]	CAT IV Insulation Tester/MultiMeter with Wireless PC Interface (433MHz)

CALIBRATION TRACEABLE TO NIST

MG300-ETK Electrical Troubleshooting Kit

Special Value Kit

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

- **Model MG300 or MG302:** 13 Function, Wireless PC Interface, True RMS Multimeter/Insulation Tester (see p. 18)
- **Model 42509:** 12:1 Infrared Thermometer with high/low alarm and fast 2-color display for processes that require temperature control and monitoring; measures from -4 to 950°F/-20 to 510°C (see p. 66)
- **Model MA430T:** 400A True RMS AC Clamp Meter with built-in non-contact voltage detector and ideal for noisy or non-sinusoidal AC measurement
- 1.2" (30mm) jaw size for conductors up to 350MCM
- Supplied with test leads, Type K thermocouple bead wire probe, batteries, and case

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

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

MG300-MTK Motor & Drive Troubleshooting Kit

Special Value Kit

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

- **Model MG300 or MG302:** 13 Function, Wireless PC Interface, True RMS Multimeter/Insulation Tester (see p. 18)
- **Model 480403:** Motor Rotation and 3-Phase Tester checks phase sequence and indicates rotation direction of the motor to help insure correct wiring (see p. 34)
- **Model MA435T:** 400A True RMS AC/DC Clamp Meter with built-in non-contact voltage detector and ideal for noisy or non-sinusoidal AC measurement
- 1.2" (30mm) jaw size for conductors up to 350MCM
- Supplied with test leads, 3 large color-coded alligator clips, Type K thermocouple bead wire probe, batteries, and case

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

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

MN62-K True RMS MultiMeter with AC Voltage Detector

NEW

Special Value Kit

FREE 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
- VFC 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 AA batteries

Model DV23 AC Voltage Detector:
- Safely determine if wires are hot or not
- 50 to 600V, 50/60Hz
- Audible and visual alerts
- CAT IV-600V category safety rating
- Complete with two AAA batteries

ORDERING (VISIT WWW.EXTECH.COM FOR SPECIFICATIONS)

MN62-K	True RMS MultiMeter with AC Voltage Detector

ETK30/ETK35 Electrical Test Kits with 400A Clamp Meter

BEST VALUE!

Two kits to choose from providing all the electrical testing needs for installation & repair of electrical systems, HVAC equipment, and automotive
- **Model ETK30** kit includes **MA430**: 400A AC Current Meter
  Model ETK35 kit includes **MA435T**: True RMS 400A AC/DC Current for troubleshooting large appliances, automotive and motor applications
- 1.2" (30mm) jaw size and built-in Non-Contact Voltage Detector with LED alert
- Both kits include **EX205T:** True RMS Multimeter with Max Hold
- 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

Value Kit Special

Watch the **Video**
www.extech.com/video

Meets plant maintenance, HVAC or electrical technician's needs
- Assembled to provide all the electrical testing needs for installation and repair of electrical systems, HVAC equipment and large appliances
- Kit contains an EX430 True RMS autoranging digital multimeter, MA200 400A clamp meter, 40130 Non-Contact voltage detector plus test leads and temperature probe
- Supplied in a soft carrying case that provides protection and organization for the meters and accessories
- Dimensions: 9.5x6.8x2.8" (241x173x71mm); Weight: 2.6lbs (1.2kg)

Model EX430: Autoranging True RMS MultiMeter with 11 functions including Capacitance, Frequency and Temperature. (see p. 13)

Model MA200: 400A Clamp Meter with basic AC Current and 1mA resolution. (see p. 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

Value Kit Special

Meets plant maintenance, HVAC or electrical technician's needs
- Assembled to provide all the electrical testing needs for installation and repair of electrical systems, HVAC equipment and large appliances
- Non-contact InfraRed thermometer allows for quick surface temperature measurement
- Kit contains an EX430 True RMS autoranging digital multimeter, MA200 400A clamp meter, 42510 Mini IR Thermometer, 40130 Non-Contact voltage detector plus test leads and temperature probe
- Supplied in a heavy duty hard carrying case that provides protection and organization for the meters and accessories
- Dimensions: 14.5x11x4.5" (368x280x114mm); Weight: 4.5lbs (2kg)

Model EX430: Autoranging True RMS MultiMeter with 11 functions including Capacitance, Frequency and Temperature. (see p. 13)

Model MA200: 400A Clamp Meter with basic AC Current and 1mA resolution. (see p. 26)

Model 42510: Wide range mini IR Thermometer measures -58 to 1000°F (-50 to 538°C). Built-in laser identifies target area; 8:1 distance to target ratio

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

| TK430-IR | Electrical Test Kit with IR |

CALIBRATION TRACEABLE TO **NIST**

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

EXTECH INSTRUMENTS

EX505-K Heavy Duty Industrial MultiMeter Kit

Special **Value Kit**

CAT IV MultiMeter and AC Voltage Detector With 8 piece test lead kit
- Kit includes EX505 True RMS waterproof (IP67)/drop-proof MultiMeter, DV25 Dual Range Non-contact AC Voltage Detector + Flashlight, TL808 8-piece Professional Test Lead Kit, plus professional double-molded test leads, Type K thermocouple bead probe with banana input adaptor, and magnetic hanging strap
- Supplied in a soft carrying case that provides protection and organization for the meters and accessories
- Dimensions: 9.8x8x2" (248x203x51mm); Weight: 1.2lbs (544g)

Model EX505: Industrial grade, CAT IV-600V, 4000 count display, waterproof (IP67), CE/UL listed, drop-proof, rugged multimeter with True RMS functions (see p. 14)

Model DV25: Dual Range Non-contact voltage detector (24 to 1000VAC/100 to 1000VAC) + Flashlight with Audible/ Visual indication, and double-molded housing CAT IV-1000V, CE/UL (see p. 38)

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

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

EX505-K	Heavy Duty Industrial MultiMeter Kit

MA620-K Industrial DMM/Clamp Meter Test Kit

Special **Value Kit**

CAT IV MultiMeter and True RMS Clamp Meter with integrated AC Voltage Detector
- Kit contains EX505 rugged, waterproof multimeter with 11 functions, MA620 600A True RMS AC Clamp-on MultiMeter with built-in non-contact AC Voltage Detector, test leads and Type K thermocouple bead probe with banana input adaptor, and magnetic hanging strap
- Supplied in a soft carrying case that provides protection and organization for the meters and accessories
- Dimensions: 9.8x8x2" (248x203x54mm); Weight: 1.5lbs (680g)

Model EX505: Industrial grade, CAT IV-600V, 4000 count display, waterproof (IP67), CE/UL listed, drop-proof, rugged multimeter with True RMS functions (see p. 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

Special **Value 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 1000VAC) + Flashlight with Audible/ Visual indication, double-molded housing, and CAT IV-1000V safety rating (see p. 38 for specifications)
- Set of double molded professional test leads
- Type K thermocouple bead probe and Type K to Banana Input Adaptor
- Supplied in a heavy duty carrying case that provides protection and organization for the meters whenever they are needed
- Dimensions: 9.8x8x2" (248x203x54mm); Weight: 1.3lbs (590g)

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

MA640-K	Phase Rotation/Clamp Meter Test Kit

Clamp Meter Index Guide

Pick the right Clamp Meter for your application

Compact Clamp Series
Compact, capable and affordable Clamp Meters are ideal for tight areas. Features range from built-in NCV detection to Autoranging. Ideal for DIYers, mechanics and technicians.
p. 26-31

Mini Clamp Series
Extra-small jaw size clamps for reaching into tight areas while providing high resolution and low-current sensitivity. Choice of Averaging or True RMS models.
p. 29-31

Open Jaw Clamps
Open jaw design provides quick current measurements in tight locations without breaking the circuit.
p. 27

EX600 HVAC Series
Best-in-class multifunctional Clamp Meters. 400A AC/DC True RMS with dual Type K thermocouple input for differential temperature measurements. Built-in Non-Contact Voltage Detector and multimeter functions plus advanced model with built-in IR Thermometer for surface temperatures.
p. 25

EX800 Series
Professional grade, 1000A True RMS AC or AC/DC Clamp Meters with built-in non-contact IR Thermometer. Models available with CAT IV rating for measurements in high current/voltage areas, plus Bluetooth connectivity to Android mobile devices.
p. 23

High Current Clamp Series
Powerful clamp meters that measure high current with models that go up to 3000A. Large jaw sizes from 2" (5cm) to 18" (45.7cm) flex clamps. Choose from AC or AC/DC measurements, power quality diagnostics, True RMS accuracy, and much more.
p. 32-33

Look for this symbol: **N** indicating products that are available with optional calibration traceable to NIST. See complete listing on p. 160-165.

EX850 Monitor Readings via Bluetooth®

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

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Watch the **Video**
www.extech.com/video

ACCESSORIES (SEE P. 36-37 FOR TEST LEAD ACCESSORIES)

TP873	Replacement Bead wire Temperature probe (-22 to 572°F/-30 to 300°C)
TL803	Standard Test Leads

SPECIFICATIONS

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

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

NEW
Reduced Price!

EX850 with Bluetooth connectivity to most Android devices

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 clamp-on multimeter and DC Current function

- DC Current function to 1000A
- True RMS AC Voltage and Current measurements provide accurate readings regardless of waveforms
- Built-in non-contact IR Thermometer design with laser pointer for locating hot spots
- Diode open circuit voltage of 2.8V DC
- Peak hold captures 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 EX850 ExView™ App at play.google.com

EX820 N	EX830 N	■ EX840 N	▲ EX850
Yes	Yes	Yes
4000 count backlit LCD	4000 count backlit LCD	4000 count backlit LCD
1.7" (43mm); 750MCM	1.7" (43mm); 750MCM	1.7" (43mm); 750MCM
1000A (0.1A)	1000A (0.1A)	1000A (0.1A)
—	1000A (0.1A)	1000A (0.1A)
±2.5% (AC)	±2.5% (AC); ±2.5% (DC)	±2.5% (AC); ±2.5% (DC)
600V (0.1mV)	600V (0.1mV)	1000V (0.1mV)
40MΩ (0.1Ω)	40MΩ (0.1Ω)	40MΩ (0.1Ω)
40mF (0.001nF)	40mF (0.001nF)	40mF (0.001nF)
4kHz (1Hz)	4kHz (1Hz)	4kHz (1Hz)
-4 to 1400°F (-20 to 760°C)	-4 to 1400°F (-20 to 760°C)	-4 to 1400°F (-20 to 760°C)
-58 to 518°F (-50 to 270°C)/ 8:1 ratio	-58 to 518°F (-50 to 270°C)/ 8:1 ratio	-58 to 518°F (-50 to 270°C)/ 8:1 ratio
Yes	Yes	Yes
—	—	■ No | ▲ Bluetooth
UL, CE, CAT III-600V	UL, CE, CAT III-600V	ETL, CE, CAT IV-600V; CAT III-1000V
10.6x4.3x2" (270x110x50mm)/ 13.6oz (386g)	10.6x4.3x2" (270x110x50mm)/ 13.6oz (386g)	10.6x4.3x2" (270x110x50mm)/ 13.6oz (386g)
1 year	1 year	3 years

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 Temperature probe and 3 AAA batteries

Troubleshoot current output on an electrical panel, verify Temperature output on HVAC units, and quickly detect live voltages with built-in Non-contact Voltage Detector.

SPECIFICATIONS	EX650	EX655
AC Current (Max Res.)	6A, 60A, 600A (0.001A)	60A, 600A (0.01A)
DC Current	—	60A ,600A (0.01A)
Basic accuracy	ACA: ±2.5% of rdg	ACA: ±2.5% of rdg; DCA: ±2.5% of rdg
AC/DC µA Current (Max Res.)	600µA (0.1µA)	600µA (0.1µA)
DC Voltage (Max Res.)	1000V (0.1mV)	1000V (0.1mV)
AC Voltage (Max Res.)	750V (1mV)	750V (1mV)
Basic accuracy	ACV: ±1.2% of rdg; DCV: ±0.8% of rdg	ACV: ±1.2% of rdg; DCV: ±0.8% of rdg
Non-Contact Voltage (NCV)	100 to 1000V	100 to 1000V
Resistance (Max Res.)	60MΩ (0.1Ω)	60MΩ (0.1Ω)
Capacitance (Max Res.)	60mF (0.01nF)	60mF (0.01nF)
Frequency (Max Res.)	—	10Hz to 1MHz (0.01Hz)
Temperature (Max Res.)	—	-40 to 1832°F (1°F) -40 to 1000°C (1°C)
Continuity Beeper	Yes	Yes
Diode Test	Yes	Yes
Dimensions	9x3x1.6" (228x77x41mm)	9x3x1.6" (228x77x41mm)
Weight	9.4oz (265g)	9.4oz (265g)

ORDERING	
EX650 **N**	True RMS 600A AC Clamp Meter
EX655 **N**	True RMS 600A AC/DC Clamp Meter
TL810	Electrical Test Lead Kit
TL803	Standard Test Leads
TP200	Type K Clamp Probe (212°F/100°C)
480172	AC Line Splitter

CALIBRATION TRACEABLE TO NIST

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

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 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.)	400.0A AC/DC (10mA)	400.0A AC/DC (10mA)
Basic ACA accuracy	±1.5%	±1.5%
AC/DC Voltage (Max Res.)	600V (0.1mV)/600V (0.01mV)	600V (0.1mV)/600V (0.01mV)
DC μA Current (Max Res.)	4000μA (0.01μA)	4000μA (0.01μA)
Resistance (Max Res.)	40.000MΩ (0.01Ω)	40.000MΩ (0.01Ω)
Capacitance (Max Res.)	40mF (0.01nF)	40mF (0.01nF)
Frequency (Max Res.)	40MHz (0.001Hz)	40MHz (0.001Hz)
Temperature - Type K	-58 to 1832°F (-50 to 1000°C)	-58 to 1832°F (-50 to 1000°C)
Temperature - IR	—	-58 to 518°F (-50 to 270°C)
Diode (2.8V)/ Continuity	Yes	Yes
Duty Cycle	0.5 to 99.0%	0.5 to 99.0%
Dimensions	9x3.1x1.9" (229x80x49mm)	9x3.1x1.9" (229x80x49mm)
Weight	10.7oz (303g)	10.7oz (303g)

ORDERING	
EX613 [N]	True RMS 400A 400AC/DC Clamp Meter
EX623 [N]	True RMS 400A AC/DC Clamp Meter + IR
TL810	Electrical Test Lead Kit
TL803	Standard Test Leads
TP200	Type K Clamp Probe (212°F/100°C)
480172	AC Line Splitter

Dual Type K Inputs for taking differential temperature readings needed for superheat measurements.

Built-in IR Thermometer for quick and safe non-contact temperature measurements.

Non-Contact Voltage Detection.

MA443/MA445 True RMS 400A Clamp Meters + NCV

NEW

Pocket-sized meter with built-in Non-Contact Voltage detector and choice of AC or AC/DC Current model
- 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
- Type K Temperature function with probe included
- 4000 count backlit LCD display
- Built-in flashlight illuminates work area
- Relative mode for Capacitance Zero and Offset Adjustment
- Min/Max, Data Hold, Auto Power Off and Low battery indicator
- CAT III-600V category rating

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

SPECIFICATIONS	Model MA443	Model MA445
AC Current	4.000A, 40.00A, 400.0A (1mA)	40.00A, 400.0A (10mA)
DC Current	—	40.00A, 400.0A (10mA)
Current accuracy	AC: ±1.8%	AC: ±2.5%, DC: ±2.0%
DC Voltage	400.0mV, 4V, 40, 400V 600V (0.1mV)	400.0mV, 4V, 40, 400V 600V (0.1mV)
AC Voltage	4V, 40V, 400V 600V(0.1mV)	4V, 40V, 400V 600V(0.1mV)
Basic accuracy	AC: ±1.2% DC: ±0.8%	AC: ±1.2% DC: ±0.8%
Resistance (Ω)	400, 4k, 40k, 400k, 4M, 40M (0.1Ω)	400, 4k, 40k, 400k, 4M, 40M (0.1Ω)
Capacitance	40nF, 400nF, 4µF, 40µF, 400µF, 4mF, 40mF (0.01nF)	40nF, 400nF, 4µF, 40µF, 400µF, 4mF, 40mF (0.01nF)
Frequency	10Hz to 1MHz (0.01Hz)	10Hz to 1MHz (0.01Hz)
Temperature	-40° to 1832°F/-40° to 1000°C (1°F/°C)	-40° to 1832°F/-40° to 1000°C (1°F/°C)
Dimensions/ Weight	9x3x1.6" (228x77x41mm)/ 9.3oz (265g)	9x3x1.6" (228x77x41mm)/ 9.3oz (265g)

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

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)
- Max Hold
Model MA220 (AC/DC Current)
- One touch "Auto Zero"
- Functions include Capacitance, Frequency, Temperature, and Duty Cycle

Includes test leads, case, and two AAA batteries; MA220 also includes general purpose Type K bead wire probe; 1 year warranty

SPECIFICATIONS	MA200	MA220
AC Current	2, 20, 200, 400A (0.001A)	40, 400A (0.01A)
DC Current	—	40, 400A (0.01A)
Basic accuracy	±2.5%	AC: ±3%, DC: ±2.5%
AC/DC Voltage	200mV, 2V, 20, 200V, 600V (0.1mV)	400mV, 4V, 40V, 400V, 600V (0.1mV)
Basic accuracy	AC:±1.5% DC:±1.2%	AC:2%,DC:±1.5%
Resistance	200, 2k, 20k, 200k, 2M, 20M (0.1Ω)	400, 4k, 40k, 400k, 4M, 40MΩ (0.1Ω)
Capacitance	—	40nF, 400nF, 4µF, 40µF, 100µF (0.01nF)
Frequency	—	5Hz, 50Hz, 500Hz, 5kHz, 150kHz (0.001Hz)
Temperature	—	-58 to 1830°F (-50 to 1000°C) (1°)
Duty Cycle	—	0.5 to 99.0% (0.1%)
Continuity Beeper	≤30Ω Beeper ≤30Ω	≤30Ω Beeper ≤30Ω
Dims/Wt.	7.9x2x1.4" (200x50x35mm)/ 7oz (200g)	7.9x2x1.4" (200x50x35mm)/ 7oz (200g)

ORDERING		
MA200 Ⓝ		400A AC Clamp Meter
MA220 Ⓝ		400A AC/DC Clamp Meter

CALIBRATION TRACEABLE TO NIST

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

MA140 Series True RMS 300A Mini Clamp Meters + NCV

NEW

Choice of AC Current or AC/DC Current model with high accuracy
- True RMS for accurate readings of noisy, distorted or non-sinusoidal waveforms
- **Model MA140 —** AC Current
  Model MA145 — AC/DC Current and Zero function for accurate DC measurements
- Compact 0.8" (22mm) jaw size accommodates conductors up to 300MCM
- Unique Smart Auto Sense feature
- Low Pass Filter (LPF) for accurate measurement of variable frequency drive signals
- Built-in Non-Contact Voltage (NCV) detector
- Inrush current measurement
- 6000 count backlit LCD display
- 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

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)

SPECIFICATIONS	MA140	MA145
AC Current (max resolution)	60A, 300A (0.01A)	60A, 300A (0.01A)
DC Current (max resolution)	—	60A, 300A (0.01A)
Basic accuracy	±2.0%	AC: ±1.5%, DC: ±1.5%
Non-Contact Voltage (NCV)	80 to 600V	80 to 600V
Dimensions/ Weight	5.8x2.4x1.2" (147x60x31mm)/ 4.9oz (140g)	

ORDERING		
MA140 **N**		True RMS 300A AC Mini Clamp Meter+NCV
MA145 **N**		True RMS 300A AC/DC Mini Clamp Meter+NCV

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

NEW

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)
- 2000 count 2-level backlit LCD display
- Convenient LED worklight for viewing in dimly lit area
- Relative Mode for Capacitance Zero and offset adjustment
- Complete with test leads, two AA batteries, and pouch

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

MA160 ETL Listed; MA260 UL Listed

Convenient Open jaw design provides quick measurements in tight locations

SPECIFICATIONS	MA160	MA260
AC Current (max res.)	200A (0.1A)	200A (0.1A)
DC Current (max res.)	200A (0.1A)	—
AC/DC Voltage (max res.)	AC: 750V (1mV); DC: 1000V (1mV)	1000V (0.1V)
Non-contact Voltage	100 to 750V	80 to 1000V AC (50 to 60Hz)
Resistance (max res.)	60MΩ (0.1Ω)	10kΩ (1Ω)
Capacitance (max res.)	60mF (0.01nF)	—
Diode/ Continuity	Yes	Yes
Dimensions/ Weight	8.3x2.1x1.4" (210x53x35mm)/ 5.8oz (164g)	7.6x2.1x1.2" (193x54x31mm)/ 9.9oz (280g)

ORDERING		
MA160 **N**		True RMS 200A AC/DC Open Jaw Clamp Meter
MA260		CAT IV True RMS 200A AC Open Jaw Clamp Meter

MINI CLAMP METERS

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

Compact, Capable CAT III Safety Rated

Troubleshooting low energy current measurements

SPECIFICATIONS	MA120 N
True RMS	—
Display counts	2000 count backlit LCD
Jaw size/Cable size	0.7" (18mm); 300MCM
AC Current	200A
DC Current	200A
Max Resolution	0.1A
Basic ACA Accuracy (% rdg)	±3%
AC Voltage (Max Res.)	NCV
DC Voltage (Max Res.)	—
Resistance (Max Res.)	—
Capacitance (Max Res.)	—
Frequency (Max Res.)	1kHz (0.01Hz)
Temperature	—
Duty Cycle	—
Diode/Continuity	—
Data Hold	Yes
Min/Max	—
UL, ETL, CE, Category Rating	CE, CAT III-300V
Dimensions/Weight	6.5x2.6x1.3" (164x65x32mm) /6.2oz (176g)
Warranty	1 year

CALIBRATION TRACEABLE TO **NIST**

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

MA250 200A AC Clamp Meter + NCV

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

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

380941 200A AC/DC Mini Clamp Meter

High resolution mini clamp with Voltage, Frequency, and Resistance

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

380947 400A AC/DC True RMS Mini Clamp Meter

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

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

MA250 Ⓝ	380941 Ⓝ	380947 Ⓝ
—	—	True RMS
4000 count LCD	4000 count LCD	4000 count LCD
1.2" (30mm); 350MCM	0.9" (23mm); 4/0 AWG	0.9" (23mm); 4/0 AWG
20A, 200A	40A, 200A	4A, 40A, 100A, 400A
—	40A, 200A	40A, 400A
0.01A (AC)	0.01A AC/DC	AC: 0.001A, DC: 0.01A
±2.5%	±1.0%	AC: ±1.5%, DC: ±1.0%
600V (0.1mV)	400V (0.1V)	—
600V (0.1mV)	400V (0.1V)	—
40.00MΩ (0.1Ω)	400Ω (0.1Ω)	—
100µF (0.01nF)	—	—
10kHz (1Hz)	100kHz (0.001Hz)	10kHz (0.01Hz)
-4 to 1400°F (-20 to 760°C)	—	—
0.1 to 99.9%	—	—
Yes	Continuity	—
Yes	Yes	Yes
Min/Max	Min/Max	Min/Max
ETL, CE, CAT III-600V	UL, CE, CAT III-300V	UL, CE, CAT III-300V
7.9x2.6x1.5" (200x66x37mm)/ 7.2oz (205g)	7x1.75x1.25" (178x45x32mm)/ 8oz (225g)	7x1.8x1.3" (178x45x32mm)/ 8oz (225g)
1 year	1 year	1 year

EXTECH INSTRUMENTS

Small Size, Big Performance

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

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

Highest resolution and accuracy at low currents

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

480172 AC Line Splitter:

- Enables users of a clamp meter to measure AC current on a 2-wire or 3-wire power cord to 15A
- Fits clamp jaw size 0.75" (19mm) and above
- 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)

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

480172   AC Line Splitter (120V/15A)

SPECIFICATIONS	380942 N
True RMS	True RMS
Display counts	4000 count LCD
Jaw size/Cable size	0.9" (23mm); 4/0 AWG
AC Current	400mA, 4A, 30A
DC Current	4A, 40A
Max Resolution	AC: 0.1mA, DC: 0.001A
Basic ACA Accuracy (% rdg)	±1.5%
AC Voltage (Max Res.)	400V (0.1V)
DC Voltage (Max Res.)	400V (0.1V)
Resistance (Max Res.)	—
Capacitance (Max Res.)	—
Frequency (Max Res.)	—
Diode/Continuity	—
Data Hold	Yes
Min/Max	Min/Max
UL, ETL, CE, Category Rating	UL, CE, CAT III-300V
Dimensions	7x1.8x1.3" (178x45x32mm)
Weight	8oz (225g)
Warranty	1 year

CALIBRATION TRACEABLE TO NIST

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

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
- Data Hold freezes reading on display
- Low battery indicator and 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
- Data Hold freezes reading on display
- Low battery indicator and Auto Power Off feature
- Complete with test leads, carrying case, and two AAA batteries

380950	MA61 N	MA63 N
—	True RMS	True RMS
4000 count LCD	6000 count backlit LCD	6000 count backlit LCD
0.5" (12mm); 3/0 AWG	0.7" (18mm); 300MCM	0.7" (18mm); 300MCM
4.000A, 80.0A	600mA, 6000mA, 60A	600mA, 6000mA, 60A
4A, 80A	—	6000mA, 60A
1mA	0.1mA (AC)	0.1mA (AC), 1mA (DC)
±2.5%	±2.0%	AC: ±2.0%, DC: ±2.0%
600V (0.1mV)	6V, 60V, 600V (1mV)	6V, 60V, 600V (1mV)
600V (0.1mV)	600mV, 6V, 60V, 600V (0.1mV)	600mV, 6V, 60V, 600V (0.1mV)
40MΩ (0.1Ω)	600, 6k, 60k, 600k, 6M, 60M (0.1Ω)	600, 6k, 60k, 600k, 6M, 60M (0.1Ω)
—	6.2nF, 620μF, 62mF (1pF)	6.2nF, 620μF, 62mF (1pF)
10MHz (0.001Hz)	10Hz to 60kHz (0.001Hz)	10Hz to 60kHz (0.001Hz)
Continuity	Yes	Yes
Yes	Yes	Yes
Max	—	—
CE, CAT III-600V	ETL, CE, CAT III-300V, CAT II-600V	ETL, CE, CAT III-300V, CAT II-600V
8.2x2.7x1.4" (210x70x37mm)	6.9x2.4x1.3" (175x60x33.5mm)	6.9x2.4x1.3" (175x60x33.5mm)
7oz (200g)	6oz (170g)	6oz (170g)
1 year	1 year	1 year

HIGH CURRENT CLAMP METERS

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

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

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

380926 CAT IV 2000A AC/DC Clamp Meter

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

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

Easily fits into tight spaces and large conductors

Flexible Clamps easily wrap around bus bars and cable bundles.

More Power Meters
See Extech's complete line of power meters on pages 60-61

SPECIFICATIONS	MA1500 Ⓝ	380926 Ⓝ
True RMS	Yes	Yes
Display counts	40,000/4000 count LCD w/bargraph (backlit)	5000 count LCD (backlit)
Jaw size/Cable size	2.0" (52mm); 500MCM	2" (50mm); 750MCM
AC Current	1500A	400.0A, 2000A (Clamp); 400mA (DMM)
DC Current	1500A	400.0A, 2000A Clamp); 400mA (DMM)
Max resolution	0.01A	0.1A (Clamp); 0.1µA (DMM)
Basic ACA Accuracy (% rdg)	±2.8%	±2%
AC Voltage (Max Res.)	750V (0.01mV)	1000V (1mV)
DC Voltage (Max Res.)	1000V (0.01mV)	1000V (0.1mV)
Resistance (Max Res.)	40MΩ (0.01Ω)	40MΩ (0.1Ω)
Capacitance (Max Res.)	40mF (0.01nF)	50µF (10pF)
Frequency (Max Res.)	40MHz (0.001Hz)	100kHz (0.001Hz)
Temperature	-148 to 1832°F (-100 to 1000°C)	—
Diode/Continuity	Yes	Yes
Category Rating	CAT IV-600V	CAT IV-600V
UL/CE	CE	CE
Dimensions/ Weight	11.6x4.1x1.9" (294x105x47mm)/ 18.9oz (536g)	10x2.9x1.5" (255x73x38mm)/ 14oz (380g)
Warranty	1 year	1 year

✓ CALIBRATION TRACEABLE TO **NIST**

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

NEW

NEW

CAT **IV**

CAT **IV**

CAT **IV**

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 MA3018 — 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 CA3018 — 18" (45.7cm)
- 0.3" (7.5mm) cable diameter; 0.51" (13mm) tip diameter
- AC Current in three ranges
- 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, 6.6ft (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 10nA 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

CA3010 & CA 3018 adaptors are CAT III-1000V, CAT IV-600V and should only be used with multimeters and clamp meters that have equivalent CAT ratings

■ MA3010 N | ▲ MA3018 N	■ CA3010 | ▲ CA3018	PQ2071 N	SPECIFICATIONS
Yes	—	Yes	True RMS
3000 count LCD display (backlit)	—	9999 count LCD with bargraph (backlit)	Display counts
■ 10" (25.4cm) | ▲ 18" (45.7cm)	■ 10" (25.4cm) | ▲ 18" (45.7cm)	2.2" (55mm); 1000MCM	Jaw size/Cable size
0 to 30.00A, 30.00 to 300.0A, 300.0 to 3000A	30.00A (100mV per Amp output); 300.0A (10mV per Amp output); 3000A (1mV per Amp output)	1000A	AC Current
—	—	—	DC Current
0.01A	0.01A	100mA	Max resolution
±(3%+5 digits)	±3%FS (45 to 500Hz)	±3%rdg	Basic ACA Accuracy (% rdg)
—	—	750V (0.1V)	AC Voltage (Max Res.)
—	—	—	DC Voltage (Max Res.)
—	—	—	Resistance (Max Res.)
—	—	—	Capacitance (Max Res.)
—	—	50Hz to 200Hz (1Hz)	Frequency (Max Res.)
—	—	—	Temperature
—	—	Yes	Diode/Continuity
CAT IV-600V , CAT III-1000V	*CAT IV-600V , CAT III-1000V	CAT III-1000V; CAT IV-600V	Category Rating
UL, CE	UL, CE	CE	UL/CE
■ 11x4.7x1" (280x120x25mm)/ 6oz (170g); ▲ 13.8x5.1x1" (350x130x25mm)/ 7.1oz (200g)	■ 11x4.7x1" (280x120x25mm)/ 6oz (170g); ▲ 13.8x5.1x1" (350x130x25mm)/ 7.1oz (200g)	11.5x3.75x1.5" (292x95x38mm)/18.4oz (522g)	Dimensions/ Weight
1 year	1 year	1 year	Warranty

PRT200 Non-Contact Phase Rotation Tester

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

- Fully insulated non-contact alligator clips with wide jaws
- 75 to 1000VAC input voltage with 45 to 65Hz frequency range
- LEDs indicate phase orientation (clockwise or counter-clockwise) and whether each phase is live
- Durable housing with mounting magnets
- Adjustable LED brightness switch for making measurements in dimly lit areas or sunlight
- Low battery warning
- Auto power off to save battery life when not in use
- CAT IV-600V safety rating
- Dimensions: 4.7 x 2.7 x 1.5" (118 x 69 x 38mm); Weight: 13oz (370g)
- 1 year warranty
- Complete with three built-in 30" (76cm) test leads with large color-coded alligator clips, four AA batteries, and pouch case

ORDERING

PRT200	Non-Contact Phase Sequence Tester

480400/480403 Motor Rotation and 3-Phase Testers

Check 3-phase sequence and motor rotation

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

480400 3-Phase Tester
- Multi-line LCD Displays; No battery required

480403 Motor Rotation and 3-Phase Tester
- LEDs display motor rotation and phase status
- Indicates rotation direction of motor
- Determine rotation of a motor without contact

480400

480403

Value Kit Special

MA640-K p. 19   *MG300-MTK p. 19*

SPECIFICATIONS	480400	480403
Phase Sequence	Yes	Yes
Voltage	40 to 600V	40 to 600V
Frequency	15 to 400Hz	2 to 400Hz
Motor Rotation	—	Yes
CE/Category Rating	CE, CAT III-600V	CE, CAT III-600V
Dimensions	5.1x2.7x1.25" (130x69x32mm)/ 4.5oz (130g)	

ORDERING

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

CALIBRATION TRACEABLE TO NIST

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

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 date/time stamps and stores readings on an SD card in Excel® format for easy transfer to a PC
- User can select the data sampling rate: 2, 5, 10, 30, 60, 120, 300, 600 seconds or Auto
- Complete with six AAA batteries, SD memory card, Univeral 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

SPECIFICATIONS	RANGE	RESOLUTION
DC mA Current (SD900)	0 to 20mA	0.01mA
DC mV Voltage (SD910)	300.0mV, 3000mV	0.1mV, 1mV
Memory	Approx. 2.7M readings using 4GB SD memory card	
Dimensions	5.2 x 3.1 x 1.3" (132 x 80 x 32mm)	
Weight	7oz (199g)	

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 2032 button batteries

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
AC Current	10 to 200A	0.1A	±(2% rdg ± 1A)
AC Voltage	10 to 600V	0.1V	DL150: ±(1.5%rdg±1V); DL160: ±(2% rdg±1V)
Memory	DL150: 100,000 points; DL160: 262,000 points (single channel), 131,000 (dual channels)		
Sampling Rate	1 second to 24 hours		
PC Interface	USB includes software		
Dimensions/ Weight	4.5 x 2.5 x 1.3" (114 x 63 x 34mm)/ 8.7oz (248g)		

ORDERING	
DL150	True RMS AC Voltage/Current Datalogger
DL160	Dual Input True RMS AC Voltage/Current Datalogger

Model DL150   Model DL160

TL809 Electronic Test Lead Kit

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

ORDERING

TL809	Electronic Test Lead Kit

TL808-KIT Industrial Test Lead Kit — NEW

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 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

ORDERING

TL808-KIT	Industrial Test Lead Kit

## TL900 SafeSense CAT IV Fused Test Leads — NEW

FUSED

UL approved SafeSense™ technology
• Intelligent SafeSense™ technology makes it easy for user to know if voltage is present on target area being measured, even with a blown fuse, for increased safety
• 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 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 a 4mm brass caged bayonet threaded tip (removable) for connecting accessories

ORDERING

TL900	SafeSense™ CAT IV Fused Test Leads

TL810 Electrical Test Lead Kit
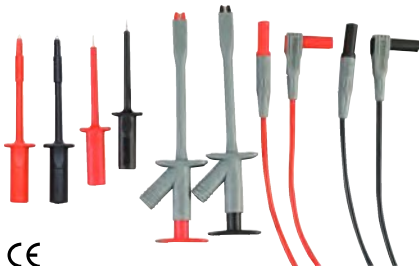
Double Insulated with CAT III-1000V Rating for your protection
• Two 40" (1m) PVC lead extensions (1000V rating) with shrouded banana plugs on both ends; CE
• Two very sharp 0.16" (4mm) long stainless steel tipped plug-on test probes with removable category control tip covers
• Two stainless steel flat tip test probes (0.6"/15mm long)
• Two plunger activated retractable jaw clips with a wide 0.75" (19mm) jaw opening; CE

ORDERING

TL810	Electrical Test Lead Kit

TL805 Double Injected Test Leads

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

ORDERING

TL805	Double Injected Test Leads

TL803 Standard Test Leads

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

ORDERING

TL803	Standard Test Leads

CALIBRATION TRACEABLE TO NIST

N Indicates products that are available with optional calibration traceable to **NIST.**

TL806/TL807C Alligator Clips for Test Lead Tips

TL806

TL807C

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

ORDERING	
TL806	Extra Large Alligator Clips for TL810 or TL809
TL807C	Insulated Alligator Clips for TL803

TL748 Spring Loaded Hook Tip Probes

Ideal for gripping a component lead or fine wire
- 1000V, 5A max
- 0.04" (1mm) gripping diameter
- 4.7" (120mm) overall length
- CAT IV-600V; CAT III-1000V

ORDERING	
TL748	Spring Loaded Hook Tip Probes

TL708/TL709 Alligator Clip Sets

TL708   TL709

Toothed jaws for solid gripping of fine wires
TL708 Heavy Duty Large Alligator Clips
- 1000V, 6A, CAT IV-600V; CAT III-1000V
- 1" (26mm) jaw length; 1.6" (40mm) jaw opening; 4.2" (107mm) overall length

TL709 Medium Alligator Clips
- 1000V, 10A, CAT III-1000V
- 1.4" (37mm) jaw length; 0.8" (20mm) opening; 3.9" (98mm) overall length

ORDERING	
TL708	Large Heavy Duty Alligator Clips
TL709	Medium Alligator Clips

TL740 Industrial Plunger Style Test Clip Set

Spring loaded clip with steel jaws
- 1000V, 10A
- 0.6" (15mm) jaw opening
- 6.1" (155mm) overall length
- CAT III-1000V

ORDERING	
TL740	Industrial Plunger Style Test Clip Set

PQ500/PQ1000 CAT IV Test Lead Kits

PQ1000

Set of Four Test Lead Kit for Power Quality Analyzers and set of 2 Test Lead Kit for other Test Equipment
- 10 ft test leads (Banana-to-Banana)
- Test probes, Alligator clips, long reach spring loaded clips, and Ergonomic over mold grip
- CAT IV-600V/CAT III-1000V

PQ500 Test Lead Set
- 2φ 2-wire test lead kit (Black and Red ONLY)

PQ1000 Test Lead Set
- 3φ 4-wire test lead kit (Black, Red, Blue, Yellow)

ORDERING	
PQ500	2-Phase 2-Wire Test Lead Kit
PQ1000	3-Phase 4-Wire Test Lead Kit

TL726 Double Molded Silicone Test Lead Set

Right angle and straight end flexible leads with shrouded banana plugs
- 63" (1.6m) long
- Protective collar and insulated sleeve
- 1000V, 10A
- CAT IV-600V; CAT III-1000V

ORDERING	
TL726	Double Molded Silicone Test Lead Set

40130 AC Voltage Detector with On/Off Audible Beeper Button

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

ORDERING

40130	AC Voltage Detector

DV23 CAT IV AC Voltage Detector

NEW

CAT IV

CAT IV saftey 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 again st wire insulation testing
- For use on 50/60Hz circuits
- Audible and Visual voltage indication
- Dimensions: 6.25 x 1" (159 x 25mm) Weight: 1.5oz (42g)
- 1 year warranty
- Complete with pocket clip and two AAA batteries

ORDERING

DV23	AC Voltage Detector

DV25 CAT IV Dual Range AC Voltage Detector + Flashlight

CAT IV

Two selectable ranges for low and high non-contact AC Voltage detection
- 2 ranges: 24 to 1000VAC and 100 to 1000VAC
- CAT IV-1000V safety rating
- Suitable for outlets or against wire insulation testing
- For use on 50/60Hz circuits
- Audible and Visual voltage indication
- Built-in bright flashlight with On/Off button
- Dimensions: 6.25 x 1" (159 x 25mm) Weight: 1.48oz (42g)
- 1 year warranty
- Complete with pocket clip and two AAA batteries

ORDERING

DV25	Dual Range AC Voltage Detector

DV26 CAT IV Non-Contact AC Voltage Detector + Flashlight

CAT IV

Rugged CAT IV rated non-contact Voltage (NCV) Detector
- Detects AC Voltage from 100V to 1000V
- CAT IV-600V, CAT III-1000V safety rating
- Suitable for outlets or against wire insulation testing
- For use on 50/60Hz circuits
- Audible and Visual voltage indication
- Green LED indicator lights up when powered on and ready to use
- Built-in bright flashlight with On/Off button
- Dimensions: 6.25 x 1" (159 x 25mm) Weight: 1.5oz (42g)
- 1 year warranty
- Complete with pocket clip and two AAA batteries

ORDERING

DV26	CAT IV AC Voltage Detector

DV30 Adjustable AC Voltage Detector with Sensitivity Adjustment

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

ORDERING

DV30	Adjustable AC Voltage Detector

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 III-1000V
- Built-in InfraRed Thermometer function
  - Range: -20 to 445°F (-30 to 230°C)
  - Resolution: 0.1°
  - Field of View: 1:1
  - Emissivity: Fixed 0.95
- Dimensions: 6.25x1" (159x25mm); Weight: 1.48oz (42g)
- Complete with pocket clip and three LR44 batteries; 1 year warranty

ORDERING

DV40	AC Voltage Detector + IR

CALIBRATION TRACEABLE TO NIST

All products on this page are UL and CE approved. DV40 is ETL and CE approved.

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

DVA30 Combination Non-Contact AC Voltage and Current Detector

Detects and pinpoints wide range Voltage and Current with Sensitivity Adjustment
- The only two-in-one AC Current (200mA to 1000A) and AC Voltage (12V to 600V) detector designed for electrical testing
- Loud audible and bright visible current and voltage detect indicators
- Sensitivity adjustment increases or reduces sensor trigger threshold
- CAT III-600V
- Dimensions: 7.6x1.2x0.9" (192x31x24mm) Weight: 2.1oz (60g)
- UL and CE approved; 1 year warranty
- Complete with pocket clip and four LR44 button batteries

ORDERING	
DVA30	Non-Contact Voltage/Current Detector

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

ORDERING	
ET10	GFCI Receptacle Tester

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

ORDERING	
ET15	Receptacle Tester

VT30 Multi-function Voltage Tester

Voltage, Continuity and Phase Testers with Flashlight;
- Large LCD display with digital bargraph
- AC Voltage (0 to 480V) and DC Voltage (0 to 690V)
- Meets EN61010-1 CAT IV-600V and CAT III-600V safety ratings
- LED indication of AC/DC voltage
- DC Polarity LED indication; Continuity beeper; Low impedance; Double molded housing
- Phase rotation test for motors
- Dimensions: 9.4x3x1.6" (240x78x40mm); Weight: 8.4oz (237g)
- Complete with 2 AAA batteries, protective cap, and soft case; 1 year warranty

ORDERING	
VT30	Digital Voltage Tester with bargraph

Multifunction Voltage Tester measure Voltage in outlets and conduct a 3-Phase sequence test. Features include a built-in flashlight.
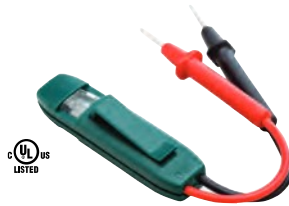
ET20 Dual Indicator Voltage Detector

Quickly identifiy live voltages
- 100 to 250 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

ORDERING

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

ORDERING

ET25	Voltage Tester

ET30A Automotive Circuit Tester

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

ORDERING

ET30A	Automotive Circuit Tester

ET40 Heavy Duty Continuity Tester

Check fuses, switches, relays and wiring
- Test fuses, wires, light bulbs, ground connections
- 30" (76cm) test lead with alligator clip

ORDERING

ET40	Heavy Duty Continuity Tester

CA3000 Series 3000A AC Flex Clamp Adaptors

NEW

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; 0.51" (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

ORDERING (SEE P. 33 FOR SPECS)

CA3010	3000A AC Clamp Adaptor (32%476s)
CA3018	3000A AC Clamp Adaptor (3A%679s)

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

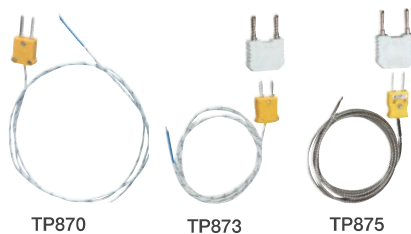**Built-in non-contact AC voltage detector**
- 1.2" (30mm) clamp jaw
- Measures AC/DC Current in two ranges: 0 to 40A (10mV per Amp output) and 0 to 400A (1mV per Amp output)
- ±2.5% basic accuracy; CAT III-600V;
- DC zero adjust
- Optional CA250-NIST available
- Dims: 5.8x2.3x1.3" (146x60x32mm) Weight: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

ORDERING

CA250	400A AC/DC Clamp Adaptor + NCV

CALIBRATION TRACEABLE TO **NIST**

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

TP870/3/5 Type K Temperature Probes

TP870   TP873   TP875

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

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

TP200 Type K Pipe Clamp Temperature Probe

CE

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 ±5%FS
- Complete with attached 36" (0.9mm) cable and Type K connector

ORDERING
TP200	Type K Temperature Pipe Clamp Probe

Protective Soft Cases

409992   409996

409997   CA500

CA-EXTECHTB Professional Tool Bag

NEW

CA899   CA900

Rugged design with rubberized bottom and heavy duty fabric
- Large zippered storage compartment with ten internal side pockets
- Convenient nine small external pockets for small tools or accessories plus one medium size mesh pocket on the side
- Comfortable adjustable and removable shoulder strap (approx 4.4ft/1.3m including metal clips)
- Rubberized handle for comfortable grip
- Two front adjustable straps
- Dimensions: 17x9x11.5" (43.2x22.9x 29.2cm); Weight: 4.5lbs (2kg)

ORDERING
CA-EXTECHTB	Professional Tool Bag

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