

MultiMeter Selection Guide Pick the right multimeter for your application (see compact multimeter selection guide on p.16)

Model	EX570	EX540	MM560A	MM570A	MP510A	MP530A	EX520	EX530	EX410	EX411	EX430	EX470
Page	8	9	14	14	14	14	11	11	12	12	13	13
Basic Accuracy (VDC)	0.06%	0.06%	0.03%	0.02%	0.08%	0.08%	0.09%	0.06%	0.5%	0.3%	0.3%	0.3%
Display Counts	40,000	40,000	50,000/500,000	50,000/500,000	5000	5000	6000	40,000	2000	2000	4000	4000
True RMS	•	•	•	•		•	•	•		•	•	•
Wireless		RF										
Temperature (Type K)	•	•		•		•	•	•	•	•	•	•
Temperature (IR)	•											•
Capacitance	•	•	•	•	•	•	•	•			•	•
Frequency	•	•	•	•	•	•	•	•			•	•
Battery Test												
Duty Cycle	•	•	•	•			•	•			•	•
Autoranging	•	•	•	•	•	•	•	•			•	•
Backlit Display	•	•	•	•	•	•	•	•	•	•	•	•
Relative	•	•	•	•		•	•	•			•	•
Min/Max	•	•	•	•		•	•	•				
Input Alert									•	•	•	•
Category Rating	CAT IV - 600V	CAT IV - 600V	CAT IV - 600V	CAT IV - 600V	CAT IV - 600V	CAT IV - 600V	CAT IV - 600V	CAT IV - 600V	CAT III - 600V	CAT III - 600V	CAT III - 600V	CAT III - 600V

EX570 CAT IV Industrial MultiMeter + IR Thermometer



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



Built-in IR Thermometer quickly identifies hot spots without contact

- Built-in non-contact IR Thermometer design with laser pointer
- True RMS CAT III-1000V, CAT IV-600V rated with 0.06% basic DCV accuracy
- Diode open circuit voltage of 2.8V DC
- Heavy duty Double molded, water resistant package
- Large backlit 40,000 count LCD with 40-segment bargraph
- 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
- Auto power off with disable feature
- Capacitance, Frequency, Diode and Continuity functions
- 3 year warranty
- Complete with double molded test leads, magnetic hanging strap, general purpose Type K bead wire probe, case, and 9V battery

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)	-50 to 1382°F (-45 to 750°C)
IR Temperature	-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
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EX540/EX542 CAT IV MultiMeter/Dataloggers 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 power off with disable feature
- 3 year warranty
- 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

SPECIFICATIONS

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

ORDERING

EX540	N	CAT IV MultiMeter/Datalogger with Real Time Streaming (915MHz)
EX542	N	CAT IV MultiMeter/Datalogger with Real Time Streaming (433MHz)

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



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



Serious about Ruggedness & Versatility

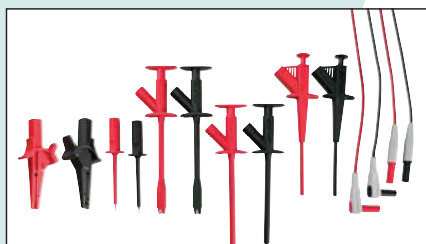
Along with advanced DMM features and True RMS accuracy, the EX500 series' Category IV rating ensures the highest level of protection against sudden transient overvoltage and arcing flash-over. This rugged, waterproof and drop-proof multimeter will take whatever rough handling you dish out. Get Industrial-Duty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



EX503 CAT IV Heavy Duty Industrial MultiMeter

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

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



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

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

SPECIFICATIONS

Averaging/True RMS
Basic Accuracy
DC Voltage
AC Voltage
DC/AC Current
Resistance
Capacitance
Frequency (electrical)
Frequency (electronic)
Temperature (Type K)
Duty Cycle
Diode (2.8V)/Continuity
UL/CE
Category Rating
Waterproof / Drop proof
Dimensions/Weight
Warranty

EX503 N

Averaging
0.5%
0.1mV to 1000VDC
0.1mV to 1000VAC
0.1μA to 10A
0.1Ω to 40MΩ
0.01nF to 100μF
5Hz to 1kHz
0.001Hz to 10MHz
—
0.1 to 99.9%
Yes
Yes
CAT IV-600V, CAT III-1000V
IP67 / 6.5ft (2m)
7.25x3.25x2.25" (184x83x57mm)/12.3oz (349g)
3 years



EX505 CAT IV True RMS Heavy Duty Industrial MultiMeter

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

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



EX520 CAT IV True RMS Heavy Duty Industrial MultiMeter

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

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



EX530 CAT IV True RMS Heavy Duty Industrial MultiMeter

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

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

EX505 <small>N</small>	EX520 <small>N</small>	EX530 <small>N</small>
True RMS	True RMS	True RMS
0.5%	0.09%	0.06%
0.1mV to 1000VDC	0.1mV to 1000VDC	0.01mV to 1000VDC
0.1mV to 1000VAC	1mV to 1000VAC	0.01mV to 1000VAC
0.1μA to 10A	0.1μA to 20A	0.01μA to 20A
0.1Ω to 40MΩ	0.1Ω to 60MΩ	0.01Ω to 40MΩ
0.01nF to 100μF	0.01nF to 1000μF	0.001nF to 40mF
5Hz to 1kHz	10Hz to 400Hz	40Hz to 400Hz
0.001Hz to 10MHz	0.001Hz to 40MHz	0.001Hz to 100MHz
-4 to 1382°F (-20 to 750°C)	-50 to 1382°F (-45 to 750°C)	-50 to 1382°F (-45 to 750°C)
0.1 to 99.9%	0.1 to 99.9%	0.1 to 99.90%
Yes	Yes	Yes
Yes	Yes	Yes
CAT IV-600V, CAT III-1000V	CAT IV-600V, CAT III-1000V	CAT IV-600V, CAT III-1000V
IP67 / 6.5ft (2m)	IP67 / 6.5ft (2m)	IP67 / 6.5ft (2m)
7.25x3.25x2.25" (184x83x57mm)/12.3oz (349g)	7.25x3.25x2.25" (184x83x57mm)/12.3oz (349g)	7.25x3.25x2.25" (184x83x57mm)/12.3oz (349g)
3 years	3 years	3 years

Big Digits, Big Results.

"I was looking for more reliable test equipment and now use my EX400 for checking voltages, and tracing circuits for shorts and openings. It's a very good product worth giving a try."

Darryl A., Georgia



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

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



All models UL & CE approved



EX410 Manual Ranging MultiMeter

Basic averaging multimeter with 8 functions

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



EX411 True RMS Manual Ranging MultiMeter

Basic True RMS multimeter with 8 functions

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

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



EX420 Autoranging MultiMeter

**Economical averaging
multimeter with 11 functions**

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



EX430 True RMS Autoranging MultiMeter

**Economical True RMS
multimeter with 11 functions**

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



EX470 True RMS Autoranging MultiMeter + IR Thermometer

**Combination multimeter
with 12 functions including
non-contact Temperature
measurement**

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

EX420 <small>N</small>	EX430 <small>N</small>	EX470 <small>N</small>	SPECIFICATIONS
Averaging	True RMS	True RMS	Averaging/True RMS
±0.3%	±0.3%	±0.3%	Basic Accuracy (VDC)
0.1mV to 750V	0.1mV to 750V	0.1mV to 750V	AC Voltage
0.1mV to 1000V	0.1mV to 1000V	0.1mV to 1000V	DC Voltage
0.1µA to 20A	0.1µA to 20A	0.1µA to 20A	AC Current
0.1µA to 20A	0.1µA to 20A	0.1µA to 20A	DC Current
0.1Ω to 40MΩ	0.1Ω to 40MΩ	0.1Ω to 40MΩ	Resistance
0.01nF to 100µF	0.01nF to 100µF	0.01nF to 100µF	Capacitance
0.001Hz to 10MHz	0.001Hz to 10MHz	0.001Hz to 10MHz	Frequency
—	—	—58 to 518°F (-50 to 270°C)	Temperature (IR)
-4 to 1382°F (-20 to 750°C)	-4 to 1382°F	-4 to 1382°F (-20 to 750°C)	Temperature (Type K)
0.1% to 99.9%	0.1% to 99.9%	0.1% to 99.9%	Duty Cycle
Yes	Yes	Yes	Continuity / Diode
UL/CE/CAT III-600V, CAT II-1000V	UL/CE/CAT III-600V, CAT II-1000V	UL/CE/CAT III-600V, CAT II-1000V	UL/CE/Category Rating
7.4x3.2x2" (187x81x50mm)/0.75lbs (342g)	7.4x3.2x2" (187x81x50mm)/0.75lbs (342g)	7.4x3.2x2" (187x81x50mm)/0.75lbs (342g)	Dimensions/Weight
1 year	3 years	3 years	Warranty

MP510A/MP530A MultiPro® Series



High performance multimeters with RS-232 PC Interface

- 0.08% basic DCV accuracy
- 5000 count backlit LCD display and Auto power off with disable
- Hold and low resistance auto lead zero
- Optional SW810A PC software and cable sold separately
- 3 year warranty
- Complete with built-in stand, test leads, protective holster, 9V battery, and general purpose Type K bead wire temperature probe for MP530A

Model MP530A Additional Functions

- True RMS AC Voltage & Current and Temperature measurements
- Relative, Min, Max, Max-Min, Peak Hold and Zoom

SPECIFICATIONS	MODEL MP510A	MODEL MP530A
Averaging/True RMS	Averaging	True RMS
DC/AC Voltage	0.01mV to 1000V	0.01mV to 1000V
Basic DCV accuracy	±0.08%rdg	±0.08%rdg
DC/AC Current	0.1µA to 20A	0.1µA to 20A
Resistance	0.01Ω to 50MΩ	0.01Ω to 50MΩ
Capacitance	0.01nF to 9999µF	0.01nF to 9999µF
Frequency	10Hz to 125kHz	10Hz to 125kHz
Temperature	—	-58 to 1832°F (-50 to 1000°C)
AC Bandwidth	40Hz to 20kHz	40Hz to 20kHz
Category rating	CAT IV-600V	CAT IV-600V
Dimensions/Weight	7.32x3.42x1.39" (186x87x35.5mm)/ 0.75lb (340g)	

ORDERING (SEE BELOW FOR OPTIONAL ACCESSORIES UNDER MULTIMASTER SERIES)

MP510A	N	MultiPro® Professional MultiMeter
MP530A	N	MultiPro® True RMS Professional MultiMeter & Temp

MM560A/MM570A MultiMaster® Series



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

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

Model MM570A Additional Functions

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

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

ORDERING

MM560A	N	MultiMaster™ Precision MultiMeter
MM570A	N	MultiMaster™ Precision MultiMeter with Temperature

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

SW810A	MultiPro® Software CD & RS-232 Cable
USB100	RS-232 to USB Adaptor
CA899	Vinyl Pouch Carrying Case



N Indicates products that are available with optional calibration traceable to **NIST**. See page 144 for a complete listing.

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



WIRELESS Transmitter



True RMS multimeter gives accurate readings of distorted waveforms



Measure the insulation resistance of transformer windings

Combines a 1000V Insulation Tester with a True RMS MultiMeter

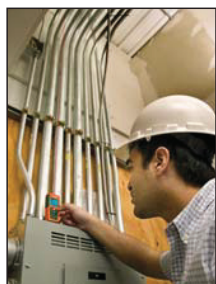
- Wireless USB interface transmits measurement data to a PC
- Backlit large triple display and waterproof (IP67) rugged housing design
- Insulation Resistance from 0.001MΩ to 4000MΩ
- Auto discharge of capacitive voltage
- Lock Power On Function for hands-free operation
- Data Hold and Auto power off
- Min/Max and Relative mode
- 1 year warranty
- Complete with remote receiver with USB cable, Windows® compatible software, heavy duty 4-wire test leads, protective rubber holster, multimeter test leads, carrying case, and 6 x AA batteries
- **NOTE:** USA, Mexico, and Canada use 915MHz model MG300 and majority of other countries use 433MHz model MG302

SPECIFICATIONS	RANGE	RESOLUTION	BASIC ACCURACY
Insulation Resistance	4MΩ, 40MΩ, 400MΩ, 4000MΩ	0.001MΩ	±3%
Insulation Test Voltages	125V, 250V, 500V, 1000V		
AC Voltage	1000V	0.1mV	±1%
DC Voltage	1000V	0.01mV	±0.06%
AC Current	10A	0.1μA	±1.5%
DC Current	10A	0.01μA	±1.0%
Resistance	40MΩ	0.01Ω	±0.3%
Capacitance	40mF	0.001nF	±3.5%
Frequency	100MHZ	0.001HZ	±0.1%
Duty Cycle	0.1 to 99.9%	0.01	±1.2%
Temperature	-58 to 2192°F (-50 to 1200°C)	0.1°F (0.1°C)	±1% + 4.5°F (2.5°C)
4-20mA%	-25 to 125%	0.01%	
Continuity/Diode	Yes		
Dimensions/ Weight	7.8 x 3.6 x 1.9" (200 x 92 x 50mm)/ 20.5oz (582g)		

ORDERING

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

DT300 Laser Distance Meter (164ft/50m)



Laser measurement accurate to 0.06 inches with Historical Storage that recalls the previous 20 records (measured or calculated results)

- Automatically calculates Area and Volume
- Indirect measurement using Pythagorean theorem
- Continuous measurement function with Min/Max distance tracking updates every 0.5 seconds
- Addition/Subtraction, Front or rear edge reference, Low battery indicator, and Auto power off features
- Double molded housing (IP54)
- 1 year warranty
- Complete with carrying case and 2 AAA batteries

SPECIFICATIONS

Measurement Range	2" to 164' (0.5 to 50m)
Accuracy (up to 32'/10m)	±0.06" (±1.5mm)
Resolution	0.001" (0.001m)
Length Add calculation	99'11" (99.99m)
Area calculation	999.99 sq. ft. (999.99m²)
Volume calculation	999.99 cu. ft. (999.99m³)
Laser Power Off / Auto Power Off	After 30 seconds / after 3 minutes
Dimensions/ Weight	4.5 x 1.9 x 1.1" (115 x 48 x 28mm)/ 5.3oz (150g)

ORDERING

DT300	Laser Distance Meter (164ft/50m)
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Compact MultiMeter Selection Guide Pick the right multimeter for your application

Model	EX310	EX320	EX330	EX210	EX230	MN26T	MN25	MN15A	MN16A
Page	16	16	16	17	17	18	18	18	18
Basic Accuracy (VDC)	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
Display Counts	2000	2000	4000	2000	4000	4000	2000	2000	4000
Non-Contact Voltage Detector (NCV)	•	•	•						
Temperature (Type K)			•		•	•		•	•
Temperature (IR)				•	•				
Capacitance			•		•	•			•
Frequency			•		•	•			•
Battery Test	•						•	•	
Duty Cycle			•		•	•			•
Autoranging		•	•	•	•	•			•
Backlit Display				•	•				
Relative			•		•	•			•
Min/Max		Max only		Max only					
Category Rating	CAT III- 600V	CAT III- 600V	CAT III- 600V	CAT III- 600V	CAT III- 600V	CAT II-600V	CAT II-600V	CAT III- 600V	CAT III- 600V

EX300 Series Mini Digital MultiMeters + Voltage Detector



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

Combination MultiMeter with non-contact AC Voltage Detector

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

Model EX310 (Manual Ranging)

- Battery test 1.5V and 9V

Model EX320 (Autoranging)

- Max Hold, Data Hold, and Auto Power Off

Model EX330 (Autoranging)

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

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

ORDERING

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

EX200 Series Mini Digital MultiMeters + IR Thermometer



Built-in IR Thermometer quickly identifies overheating motors or locate hot spots on electrical panels and HVAC vents without contact

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

Model EX210

- 2000 counts
- 4:1 Distance to Target Ratio
- Max Hold

Model EX230

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

SPECIFICATIONS	EX210	EX230
Display Counts	2000	4000
Basic Accuracy (VDC)	±0.5%	±0.5%
AC/DC Voltage	0.1mV to 600V	0.1mV to 600V
AC/DC Current	0.1µA to 10A	0.1µA to 10A
Resistance	0.1Ω to 20MΩ	0.1Ω to 40MΩ
Capacitance	—	0.01nF to 100µF
Frequency	—	0.001Hz to 10MHz
Temperature (IR)	-5 to 446°F (-20 to 230°C)	-5 to 446°F (-20 to 230°C)
Temperature (Type K)	—	-4 to 1400°F (-20 to 760°C)
Duty Cycle	—	0.1% to 99.9%
Continuity / Diode	Yes	Yes
Dimensions	5.8x2.9x1.6" (147x76x42mm)	5.8x2.9x1.6" (147x76x42mm)
Weight	9.17oz (260g)	9.17oz (260g)

ORDERING

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



Extech-exclusive Meters with Built-in IR Thermometer!

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



MultiMeters



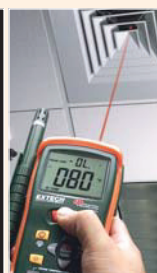
Voltage Detectors



Clamp Meters



Psychrometers



Humidity Meters



Moisture Meters



Tachometers



Air Flow Meters

MN15A/MN16A Digital Mini MultiMeters



Troubleshoot
electronic and
electrical equipment

Compact Autoranging or Manual ranging multimeters with Temperature

- Large easy to read digital display
- 1 year warranty
- Complete with battery, Type K bead wire probe and test leads

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)

MN25/MN26T MiniTec® Digital MultiMeters



Displays AC Voltage of
an outlet receptacle

Rugged CAT II-600V pocket multimeters with 8 to 11 Functions

- Overload protection and indication
- 1 year warranty
- MN25 (Manual Ranging/ 8 Functions)
- 1.5V and 9V Battery tests under load and 10A fuse protection
- Includes protective holster with stand, 9V battery and test leads

MN26T (Autoranging/ 11 Functions)

- Relative zero, Data Hold, Range Hold, Auto power off
- Includes holster with stand, Type K bead wire probe, AAA batteries, and test leads

SPECIFICATIONS	MN25	MN25 Basic Accuracy	MN26T	MN26T Basic Accuracy
Function	MN25	MN25 Basic Accuracy	MN26T	MN26T Basic Accuracy
Display Count	2000 count	—	4000 count	—
DC Voltage	600V (0.1mV)	±0.5%	600V (0.1mV)	±1.0%
AC Voltage	600V (0.1V)	±1.5%	600V (0.1mV)	±1.5%
DC/AC Current	10A (1μA)	±1.2% DC/±1.8% AC	10A (0.1μA)	±1.5% DC/±1.8% AC
Resistance	2MΩ (0.1Ω)	±0.8%	40MΩ (0.1Ω)	±1.2%
Capacitance	—	—	200μF (0.001nF)	±3.5%
Frequency	—	—	10MHz (0.001Hz)	±1.5%
Temperature	—	—	0 to 1400°F (1°) 0 to 760°C (1°)	±3.0%
Duty Cycle	—	—	0.1% to 99.9% (0.1%)	±1.2%
Diode/Continuity	Yes	—	Yes	—
Dimensions/Weight	4.8x2.4x1.6" (122x61x40mm)/ 9.17oz (260g)	—	—	—

ORDERING

MN25	Manual Ranging MiniTec® Digital MultiMeter
MN26T	Autoranging MiniTec® Digital MultiMeter
TP873	Spare Type K Bead Wire Temperature Probe (-22 to 572°F/-30 to 300°C)
409992	Vinyl pouch carrying case

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
- Complete with test leads and two AAA batteries; 1 year warranty

SPECIFICATIONS	RANGE	MAX RESOLUTION	BASIC ACCURACY (%RDG)
DC/AC Voltage	600V	0.1mVDC/1mVAC	±0.5%DC/±1.2% AC
DC/AC Current	200mA	0.1µA	±2.0%DC/±2.5%AC
NC Voltage	100 to 600VAC		
Resistance	40MΩ	0.1Ω	±0.8%
Frequency	10kHz	0.001Hz	±2.0%
Capacitance	200µF	0.001nF	±5.0%
Duty Cycle	0.5 to 99%	0.5%	±(2.0% reading + 5 digits)
Diode/Continuity	Yes		
Dimensions/Weight	4.72x2.2x1.6" (120x55x540mm) / 5.12oz (145g)		

ORDERING

DM220	CAT IV Pocket MultiMeter + NCV
409992	Vinyl pouch case

DM110 Mini Pocket MultiMeter



10 function Autoranging including Frequency, Capacitance, and Duty Cycle

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

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

ORDERING

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



Built-in Non-Contact Voltage Detector

Autoranging multimeter with non-contact voltage detection

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

SPECIFICATIONS

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

ORDERING

381676	Pen DMM with Non-Contact Voltage Detector
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TK430 Electrical Test Kit



Meets plant maintenance, HVAC or electrical technician's needs

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

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

Model MA200: 400A Clamp Meter with basic AC Current and 1mA resolution. (see p. 31)

Model 40130: Non-Contact Voltage Detector detects AC Voltage from 100VAC to 600VAC without touching the source. (see p. 38)

ORDERING

TK430	Electrical Test Kit
480172	AC Line Splitter

TK430-IR Industrial Troubleshooting Kit with IR



Meets plant maintenance, HVAC or electrical technician's needs

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

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

Model MA200: 400A Clamp Meter with basic AC Current and 1mA resolution. (see p. 31)

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

ORDERING

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



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

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

Model EX505: Industrial grade, CAT IV-600V, 4000 count display, waterproof (IP67), CE/UL listed, drop-proof, rugged multimeter with True RMS functions (see p. 11)

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

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

ORDERING

EX505-K	Heavy Duty Industrial MultiMeter Kit
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MA620-K Industrial DMM/Clamp Meter Test Kit



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

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

Model EX505: Industrial grade, CAT IV-600V, 4000 count display, waterproof (IP67), CE/UL listed, drop-proof, rugged multimeter with True RMS functions (see p. 11)

Model MA620: 600A True RMS 6000 count AC Clamp-on MultiMeter with built-in non-contact AC Voltage Detector, test leads and temperature probe; CE/ETL approved (see p. 29)

ORDERING

MA620-K	Industrial DMM/Clamp Meter Test Kit
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MA640-K Phase Rotation/Clamp Meter Test Kit



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

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

ORDERING

MA640-K	Phase Rotation/Clamp Meter Test Kit
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Extech Kits Offer Added Value!

Extech special value kits are available to meet your budget and application needs! See p. 90-91 for Environmental and Restoration kits and p.135 for Water Quality Test Kits.



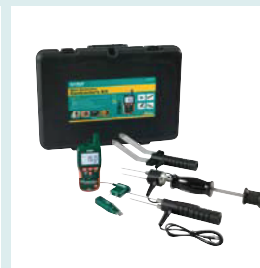
Environmental Kit



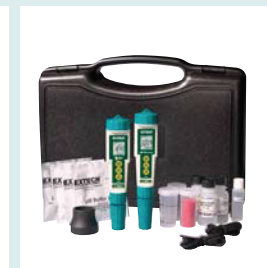
Restoration Kit



Home Inspector Kit



Water Restoration Kit



Water Quality Test Kit