

## Restore Safety, Eliminate Downtime

Plant and electrical professionals rely on Extech's line of digital and analog insulation testers and megohmmeters for motor-related diagnostics including motor insulation resistance as high as 200GΩ of MCCs as well as transformers. With available capabilities such as continuity test and voltage measurement, Dielectric Absorption Ratio, Polarization Index and CAT-IV ratings, Extech's insulation resistance testers and megohmmeters deliver accurate diagnostic results without compromising safety.



Watch the  
**Video**

[www.extech.com/video](http://www.extech.com/video)



MG300 & MG302 Kits available. See p. 19 for details.

### SPECIFICATIONS

Insulation Resistance - Ω (max resolution)

Basic Accuracy

Insulation Test Voltages

Low Resistance Test

#### MultiMeter Functions

AC/DC Voltage (max resolution)

AC/DC Current (max resolution)

Resistance (max resolution)

Frequency (max resolution)

Capacitance (max resolution)

Duty Cycle (max resolution)

Temperature (max resolution)

4-20mA% (max resolution)

Continuity

CE, FCC

Dimensions/Weight

Warranty

## CAT IV Insulation Testers and MultiMeters



**NEW**



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

Autoranging insulation measurements to 200GΩ with 11 ranges

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



**WIRELESS Transmitter**

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

Autoranging insulation measurements to 4GΩ

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

See Special Value Kits on p. 19

**Note:** USA, Mexico, and Canada use 915MHz



**WIRELESS Transmitter**

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

Autoranging insulation measurements to 4GΩ

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

See Special Value Kits on p. 19

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

MG325 <b>N</b>	MG300 (915MHz) <b>N</b>	MG302 (433MHz) <b>N</b>
50MΩ, 100MΩ, 200MΩ, 500MΩ, 2000MΩ, 1GΩ, 10GΩ, 20GΩ, 50GΩ, 100GΩ, 200GΩ (0.001MΩ)	4MΩ, 40MΩ, 400MΩ, 4000MΩ (0.001MΩ)	4MΩ, 40MΩ, 400MΩ, 4000MΩ (0.001MΩ)
±3%	±3%	±3%
50V, 100V, 250V, 500V, 1000V	125V, 250V, 500V, 1000V	125V, 250V, 500V, 1000V
0.01 to 100Ω	0 to 400Ω	0 to 400Ω
600V (0.01V)	1000V (0.1mV AC/0.01mV DC)	1000V (0.1mV AC/0.01mV DC)
AC Leakage: 2000μA (10μA)	10A (0.1μA AC/0.01μA DC)	10A (0.1μA AC/0.01μA DC)
10MΩ (0.01kΩ)	40MΩ (0.01Ω)	40MΩ (0.01Ω)
—	100MHZ (0.001Hz)	100MHZ (0.001Hz)
500μF (0.1nF)	40mF (0.001nF)	40mF (0.001nF)
—	0.1 to 99.9% (0.01%)	0.1 to 99.9% (0.01%)
—	-58 to 1832°F / -50 to 1000°C (0.1°)	-58 to 1832°F / -50 to 1000°C (0.1°)
—	-25 to 125% (0.01%)	-25 to 125% (0.01%)
Audible	Audible	Audible
CE	CE, FCC	CE
8.9 x 4.1 x 2.3" (225 x 103 x 59mm)/ 1.5lbs (0.7kg)	7.8 x 3.6 x 1.9" (200 x 92 x 50mm)/ 20.5oz (582g)	7.8 x 3.6 x 1.9" (200 x 92 x 50mm)/ 20.5oz (582g)
1 year	1 year	1 year



**NEW**



### MG310 Compact Digital Insulation Tester

Measurements up to 1000V with Insulation Resistance to 5.5GΩ

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

## Preventative Maintenance Works!

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

SPECIFICATIONS	MG310 <b>CV</b>
Insulation Resistance (max resolution)	0 to 99.9MΩ (0.01Ω), 100M to 5.5GΩ (1MΩ)
Basic Accuracy	±5% rdg
Insulation Test Voltages	250V, 500V, 1000V
AC Voltage Test	600V
Low Resistance Test	0 to 200Ω
CE, FCC	CE
Dimensions/Weight	6 x 4 x 2.8" (150 x 100 x 71mm)/ 1.5lbs (0.7kg)
Warranty	1 year

**CALIBRATION TRACEABLE TO NIST**



## 380363 Digital Insulation Tester

Autoranging insulation measurements to 10GΩ plus manual datalogging stores up to 9 data sets

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



## 380395/380396 Digital High Voltage Insulation Tester

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

- Test Voltages of 500V, 1000V, 2500V, and 5000V
- Large 6000 count display with bargraph and backlight
- Polarization Index (PI) measurement
- Dielectric Absorption Ratio measurement
- 1 to 15 minute Timer function for Insulation Resistance measurements
- AC/DC Voltage from 0 to 600V with MAX/Min, Peak and Relative functions
- Autoranging and timer function
- Indication of output voltage and discharge voltage
- Auto-discharge and voltage output warning function
- Auto Power off and battery check
- Complete with test leads, 8 x C batteries, and heavy duty carrying case; **Model 380395** with 110V AC adaptor **Model 380396** with 220V AC adaptor



## MG500 Digital High Voltage Insulation Tester

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

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

380363 <span style="color: green;">N</span>	■ 380395 <span style="color: green;">N</span>   ▲ 380396 <span style="color: green;">N</span>	MG500 <span style="color: green;">N</span>
4MΩ, 40MΩ, 400MΩ, 4000MΩ, 10GΩ (1kΩ)	6MΩ, 60MΩ, 600MΩ, 6GΩ, 60GΩ (1kΩ)	800kΩ to 500GΩ (1kΩ) Autoranging
±3%	±2.5%	±5%
250V, 500V, 1000V	500V, 1000V, 2500V, 5000V	500V to 10kV (adjustable in 500V steps)
999VAC	600VAC	—
0 to 40Ω	0 to 600Ω	—
CE	CE	CE
9.3x4.6x2.1" (235x116x54mm)/ 1.15lbs (520g)	7.8x5.8x3.4" (198x148x86mm)/ 3.2lbs (1438g)	13x10.2x6.3" (330x260x160mm)/ 7.9lbs (3.6kg)
1 year	1 year	1 year