

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



CE



Complete with color coded test leads and alligator clips, 4 auxiliary earth bars, hard carrying case, and eight 1.5V AA batteries; 1 year warranty

**Includes all hardware necessary to measure earth ground in 4 ranges**

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

**Model GRT300 Additional Feature**

- Earth Ground Resistance in 4 ranges
- Automatic Zero adjustment

**Model GRT350 Additional Features**

- Earth Ground Resistance in 3 ranges
- Earth resistivity (ρ) test
- Store/recall up to 200 test results

| SPECIFICATIONS               | GRT300   | GRT350  |
|------------------------------|--|---|
| Earth Ground Resistance      | 2Ω/20Ω/200Ω/2000Ω  | 20Ω/200Ω/2000Ω                                      |
| Basic Accuracy               | ±(2%rdg+3d)  | ±(2%rdg+3d)   |
| Resolution                   | 0.01Ω/0.1Ω/1Ω/0.01kΩ   | 0.01Ω/0.1Ω/1Ω                                       |
| Earth Resistivity (ρ)        | —  | 0.06 to 6.28 kΩm, 0.62 to 62.8 kΩm, 6.28 to 628 kΩm |
| Test Current / Frequency     | <2mA/820Hz   | <2mA/820Hz  |
| AC Earth Voltage / Frequency | 0 to 300VAC/40 to 500Hz  | 0 to 300VAC/40 to 500Hz                             |
| Dimensions/ Weight           | 9.8 x 7.8 x 4.3" (250 x 190 x 110mm)/ 3.15lbs (1.4kg) - batteries included |   |

**ORDERING**

|        |   |   |
|--------|---|---|
| GRT300 | N | 4-Wire Earth Ground Resistance Tester Kit             |
| GRT350 | N | 4-Wire Earth Ground Resistance/Resistivity Tester Kit |

**UM200 High Resolution Micro-Ohm Meter**



CE



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

**Provides resolution down to 1μΩ using 4-wire Kelvin clip test leads**

- 6 ranges with 3 sub-ranges in each current range
- Measurement of resistive and inductive materials
- Auto or Manual ranging
- High resolution to 1μΩ
- 5-Digit backlit LCD
- Built-in comparator for Hi/Lo/Go resistance testing with 20 sets of pre-stored values
- Store/Recall up to 3000 measurements
- 10A maximum test current
- Cable length measurement (feet or meters)
- RS-232 interface
- 1 year warranty
- Complete with 4-wire cables with Kelvin clip connectors, rechargeable Li-Polymer battery, AC adapter/charger, software and USB cable, and carrying case

| SPECIFICATIONS    | RANGE   | RESOLUTION | CURRENT | BASIC ACCURACY |
|-------------------|---|------------|---------|----------------|
| Resistance        | 60mΩ  | 1μΩ        | 10A     | ±(0.25%)       |
|                   | 600mΩ   | 10μΩ       | 1A      | ±(0.25%)       |
|                   | 6Ω  | 100μΩ      | 100mA   | ±(0.25%)       |
|                   | 60Ω   | 1mΩ        | 10mA    | ±(0.25%)       |
|                   | 600Ω  | 10mΩ       | 1mA     | ±(0.25%)       |
|                   | 6kΩ   | 100mΩ      | 100μA   | ±(0.75%)       |
| Power             | Rechargeable Li-Polymer Battery                     |            |         |                |
| Dimensions/Weight | 10.1 x 6.1 x 2.2" (257 x 155 x 57mm)/ 2.6lb (1160g) |            |         |                |

**ORDERING**

|       |   |                                 |
|-------|---|---------------------------------|
| UM200 | N | High Resolution Micro-Ohm Meter |
|-------|---|---------------------------------|

### 380580 Battery Powered Milliohm Meter



Complete with 8 AA batteries, and 2 sets of test leads (4 wire with 4 alligator clips, 4 wire with 2 Kelvin alligator clips), and Built-in water resistant case with shoulder strap; 1 yr warranty



**High accuracy, high resolution portable Milliohm Meter for field use**

- Four terminal Kelvin measurements
- Over-temperature and over-voltage protection
- Auto-Hold and Auto power off
- Invalid test indicators prevent inaccurate measurements

| SPECIFICATIONS     | RANGE  | RESOLUTION | CURRENT | BASIC ACCURACY |
|--------------------|--|------------|---------|----------------|
| Resistance         | 200.0mΩ                                      | 0.1mΩ      | 100mA   | ±0.5%          |
|                    | 2000mΩ                                       | 1mΩ        | 100mA   | ±0.5%          |
|                    | 20.00Ω                                       | 0.01Ω      | 10mA    | ±0.5%          |
|                    | 200.0Ω                                       | 0.1Ω       | 10mA    | ±0.5%          |
|                    | 2000Ω  | 1Ω         | 1mA     | ±0.5%          |
| Dimensions/ Weight | 9.8x7.5x4.3" (250x190x110mm)/ 3.3lbs (1.5kg) |            |         |                |

**ORDERING**

|                 |                                      |
|-----------------|--------------------------------------|
| 380580 <b>N</b> | Battery Powered Milliohm Meter       |
| 380565          | Test Leads w/Kelvin clips for 380580 |

### 380560/380562 High Resolution Milliohm Meter



**Benchtop meter provides resolution down to 0.01mΩ**

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

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

**ORDERING**

|                 |  |
|-----------------|--|
| 380560 <b>N</b> | High Resolution Milliohm Meter, 110VAC |
| 380562 <b>N</b> | High Resolution Milliohm Meter, 220VAC |
| 380465          | Spare Kelvin Clip Test Lead Set        |

### 380460/380462 Precision Milliohm Meter



**Portable Milliohm meter provides resolution to 0.1mΩ**

- Manual zero display adjust; Over-range indication
- Compact, durable field service housing with protective cover
- Includes 4-wire cables with Kelvin clip connectors and power cord; 1 year warranty

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

**ORDERING**

|                 |                                  |
|-----------------|----------------------------------|
| 380460 <b>N</b> | Precision Milliohm Meter, 110VAC |
| 380462 <b>N</b> | Precision Milliohm Meter, 220VAC |
| 380465          | Spare Kelvin Clip Test Lead Set  |



### 380320 Analog High Voltage Megohmmeter



CE

**Three Insulation Test Ranges with Live Circuit Warning**

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

**ORDERING**

380320 Analog High Voltage Megohmmeter

### 380360 Digital Megohmmeter



CE

**1000V digital tester with automatic 3 minute test**

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

**ORDERING**

380360 **N** Digital Megohmmeter

### 380260 Handheld Megohmmeter



CE

**1000V digital tester with large dual backlit display**

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

**ORDERING**

380260 **N** Handheld Megohmmeter

## Restore Safety, Eliminate Downtime

Plant and electrical professionals rely on Extech's line of digital and analog insulation testers and megohmmeters for motor-related diagnostics including motor insulation resistance 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