



## **AMPROBE® Model GP-2**

### **Ground Resistance and Resistivity Tester**

#### **Features**

- Measures Earth Ground Resistance ( $\Omega$ )
- Automatically Calculates Resistivity ( $m\Omega$ )
- Test leads, auxiliary electrodes and software are included for a complete instrument
- Voltage Measurement
- Automatically applies three testing frequencies for the most accurate readings
- Auto ranging
- Stores up to 999 measurements in the memory
- DATA download to a PC (RS-232)

#### **Benefits**

- Three point test (fall of potential) measures earth ground resistance as required by equipment manufacturer specifications and as mandated by national code requirements for proper grounding
- Two point test is used to test grounding wires resistance and resistance of connection points between ground system elements i.e., wires and electrodes
- Tests soil for a new ground system design
- Does not require any additional meters to test voltage before grounding test is performed
- Easy to operate
- Data can be stored for later viewing
- Durable
- Downloads data to a personal computer to generate reports and store historical data

## **GP-2 Geo Test**

#### **Applications**

- Ground resistance of the electrode or grid system
- Cathodic protection
- Soil contamination
- Lighting protection
- Isolated grounding

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AAD-197



## GP-2

### Geo Test

# Model GP-2

## TECHNICAL SPECIFICATIONS

### Resistance measurement

| Range (**)<br>( $\Omega$ ) | Resolution<br>( $\Omega$ ) | Accuracy (*)             |
|----------------------------|----------------------------|--------------------------|
| 0.01 ÷ 19.99               | 0.01                       | ±(2% reading + 3 digits) |
| 20.0 ÷ 199.9               | 0.1                        |                          |
| 200 ÷ 1999                 | 1                          |                          |

### Resistivity measurement $\rho$

| Range (**)               | Resolution         | Accuracy (*)             |
|--------------------------|--------------------|--------------------------|
| 0.6-125.6 $\Omega$ m     | 0.1 $\Omega$ m     | ±(2% reading + 3 digits) |
| 0.125-1.256 k $\Omega$ m | 0.001 k $\Omega$ m |                          |
| 1.25-19.99 k $\Omega$ m  | 0.01 k $\Omega$ m  |                          |
| 20.0-199.9 k $\Omega$ m  | 0.1 k $\Omega$ m   |                          |

(\*) If  $R_P > 100R_E$  and/or  $R_C > 100R_E$ ,  $R_P > 50k\Omega$  and/or  $R_C > 50k\Omega$ , if the instrument carries out the test the accuracy of the instrument is ±(10%Reading)

$R_P$  = resistance of the voltage circuit

$R_C$  = resistance of the current circuit

$R_E$  = earth resistance

$\rho = 2\pi DR_E$  = calculated resistivity

(\*\*) Automatic selection of the range

|                                 |                    |
|---------------------------------|--------------------|
| Testing frequency               | 125Hz/75Hz/41.66Hz |
| Testing current                 | 10mA               |
| Open-terminal measuring voltage | 25Vrms             |
| Waveform of measuring voltage:  | sine wave          |
| Interfering voltage:            |                    |

- amperometric circuit: the measurement is taken with the stated accuracy if the interfering voltage is  $\leq 3V$ , while for interfering voltages between 3 and 30V inclusive, the accuracy decreases progressively; with an interfering voltage of about 30V the instrument does not perform the test.
- voltmetric circuit: the measurement is taken if the interfering voltage is  $\leq 3V$ ; in case of higher voltages the instrument does not perform the test.

### Interfering voltage measurement

| Range (**)<br>(V) | Resolution<br>(V) | Accuracy                 |
|-------------------|-------------------|--------------------------|
| 500               | 1                 | ±(2% reading + 2 digits) |

### Safety Standards

This instrument complies with EN 61010, EN 61557-1, EN 61557-5 standards.


|                        |                               |
|------------------------|-------------------------------|
| Insulation             | Class 2, double insulation    |
| Pollution              | 2                             |
| Maximum altitude       | 2000m                         |
| Surge voltage category | CAT III 250V (phase to earth) |

### General features

#### Mechanical features

|                              |                                   |
|------------------------------|-----------------------------------|
| Dimensions:                  | 8.74" (L) x 6.38" (W) x 2.25" (H) |
| Weight (batteries included): | About 2.2 lb (1000g)              |

#### Power supply

|                         |  |
|-------------------------|--|
| Batteries:              | 6 batteries 1.5 V size AA (LR6 -AM3-MN1500)  |
| Low battery indication: | The symbol  appears on the display when the battery voltage is low. |
| Battery life:           | about 300 measurements   |
| Fusible Link:           | F 100 mA (not accessible to the operator)  |
| Auto Power Off:         | The instrument will automatically switch off 2 minutes after last selecting a function or PC command   |

### Display

|                    |  |
|--------------------|--|
| <b>Features:</b>   | standard LCD 65mm x 65mm.                                    |
| <b>Memory:</b>     | 999 memory locations   |
| <b>Interfaces:</b> | opto-insulated serial output RS232 to transfer data to a PC. |

### OPERATING CONDITIONS

#### Environmental conditions

|                        |                           |
|------------------------|---------------------------|
| Reference temperature: | 73 ± 41F (23°C ± 5°C)     |
| Operating temperature: | 14 ± 122F (-10°C ÷ 50°C)  |
| Relative humidity:     | <80%                      |
| Storage temperature:   | -4F ± 140F (-20°C ÷ 60°C) |
| Storage humidity:      | <70%                      |

### ECM

This instrument has been designed in compliance with the EMS standards in force and its compatibility has been tested for:

|                           |                  |
|---------------------------|------------------|
| Irradiated emissions:     | EN55011          |
| Immunity:                 | EN50140, EN61000 |
| Electrostatic discharges: | EN61000-4-2      |
| R.F. range:               | EN50140          |
| Fast transient:           | EN61000-4-4      |

### ACCESSORIES

#### Standard and optional accessories

| Standard accessories*   | Code            |
|---|-----------------|
| -1 carrying case containing:<br>-4 earth rods<br>-4 cables banana crocodile | GP-2CON         |
| Carrying case   | GP-2CC          |
| Optical serial cable  | C2000           |
| Software and manual   | www.amprobe.com |

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