



# GP-2A Earth Ground Resistance Tester

**Ensures safety and performance**

Poor grounding is dangerous and contributes to unnecessary downtime and increases the risk of equipment failure. The Amprobe GP-2A Earth Ground Tester provides accurate and reliable measurements for ground resistance and soil resistivity to assure safety and performance of an electrical system. The GP-2A is complete with PC software that allows the user to download critical recorded measurements and to create professional reports for customers.

- Measures earth ground resistance - 3 point (fall of potential) or 2 point tests
- Automatically calculates resistivity - 4 point test
- Automatic voltage readings prevents false measurements
- Test leads, auxiliary electrodes and software (available on the website) are included
- Autoranging
- Measurement data storage up to 999 readings
- USB download capabilities with PC software available at [www.Amprobe.com](http://www.Amprobe.com)

## GP-2A DETAILED SPECIFICATIONS

Feature	Range	Accuracy
Ground Resistance (2 and 3-wire method)	0.01 Ω – 19.99 Ω / 199.9 Ω / 1999 Ω 19.99 kΩ / 49.9 kΩ	±(2.5% rdg + 2 LSD)
Ground Resistivity (4-wire)	0.06 Ωm – 19.99 Ωm / 199.9 Ωm / 1999 Ωm 19.99 kΩm / 199.9 kΩm / 314 kΩm	±(2.5% rdg + 2 LSD)
Voltage Measurement	0 V – 460V	±(2.0% rdg + 2 LSD)

### Additional Functions / Features

Ranging	Auto
Noise Voltage Detection	Yes
Display Backlight	Yes
Data Storage	up to 999 readings
PC Connection	Yes
Auto Power Off	Yes
Low Battery Indication	Yes

For more detailed specifications see instruction manual.



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### Electrical Specifications

<b>Resistance Measurement</b>	Open circuit voltage $\leq 25$ Vrms Test current $\leq 12$ mA Measuring Frequency 77.5 Hz $\pm 1$ Hz	
<b>Measuring Range</b>	3- and 2-wire earth resistance measurement: 0.08 $\Omega$ – 49.9 k $\Omega$ Earth resistivity (4-wire): 0.50 $\Omega$ m – 314 k $\Omega$ m	
<b>Maximum Deviations</b>	<b>Influence factor</b>	<b>Deviation influence</b>
	E1 Position	0.3%
	E2 Supply voltage	0.1%
	E3 Temperature	0.1%
	E4 Serial interference voltage	0.4%
E5 Probe and auxiliary probe resistance	0.9%	
<b>Electromagnetic Compatibility</b>	Complies with IEC/EN 61326	

### General Specifications

<b>Measuring Function</b>	Earth ground resistance – 3 point (fall of potential) or 2 point tests Earth resistivity – 4 point test Noise voltage
<b>Display</b>	LCD with backlight, visible area 73 x 65 mm
<b>Operating Altitude</b>	$\leq 2000$ meters
<b>Operating Temperature</b>	0 °C to +40 °C (32 °F to 104 °F)
<b>Storage Temperature</b>	-10 °C to +60 °C (14 °F to 140 °F)
<b>Humidity (without condensation)</b>	<80%
<b>Power Supply</b>	Six 1.5V batteries AA R6 MN1500 or six 1.2V AA R6 Ni-MH 2100mA rechargeable batteries
<b>Battery Life</b>	Approximately 500 tests
<b>Auto Power Off</b>	3 minutes
<b>Overvoltage Category</b>	CAT III 240V safety rated (phase to earth), maximum 415V between inputs
<b>Safety</b>	IEC/EN 61010-1, CAT III 240 V, pollution degree 2 IEC/EN 61010-031 for test lead accessories IEC/EN 61557-1/-5
<b>EMC</b>	IEC/EN 61326
<b>Size (H x W x L)</b>	Approximately 235 x 165 x 75 mm (9.25 x 6.50 x 2.95 in)
<b>Weight</b>	Approximately 1 kg (2.2 lb) with batteries installed
<b>Included Accessories</b>	Four ground stakes, test lead set, alligator clip set, USB cable, USB driver software, carrying case and users manual

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Amprobe