

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

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 k Ω / 49.9 k Ω	$\pm(2.5\% \text{ rdg} + 2 \text{ LSD})$
Ground Resistivity (4-wire)	0.06 Ωm – 19.99 Ωm / 199.9 Ωm / 1999 Ωm 19.99 k Ωm / 199.9 k Ωm / 314 k Ωm	$\pm(2.5\% \text{ rdg} + 2 \text{ LSD})$
Voltage Measurement	0 V – 460V	$\pm(2.0\% \text{ rdg} + 2 \text{ LSD})$

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.

GP-2A DETAILED SPECIFICATIONS

Electrical Specifications

Resistance Measurement	Open circuit voltage ≤ 25 Vrms Test current ≤ 12 mA Measuring Frequency 77.5 Hz $\pm$ 1 Hz	
Measuring Range	3- and 2-wire earth resistance measurement: 0.08 Ω – 49.9 k Ω Earth resistivity (4-wire): 0.50 Ω m – 314 k Ω m	
Maximum Deviations	Influence factor	Deviation influence
	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%
Electromagnetic Compatibility	Complies with IEC/EN 61326	

General Specifications

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

For complete specs please download the product datasheet and the product manual on www.Amprobe.com.