



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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AMPROBE® Model GP-2
Ground Resistance and Resistivity Tester

Features

- Measures Earth Ground Resistance (Ω)
- 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

put me to the test.

The largest selection of test measurement equipment for electrical professionals



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AAD-197



Model GP-2

TECHNICAL SPECIFICATIONS

GP-2

Geo Test

Resistance measurement

Range (**) (Ω)	Resolution (Ω)	Accuracy (*)
0.01 ÷ 19.99	0.01	±(2% reading + 3 digits)
20.0 ÷ 199.9	0.1	
200 ÷ 1999	1	

Resistivity measurement ρ

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

Features: standard LCD 65mm x 65mm.

Memory: 999 memory locations

Interfaces: 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: -4 earth rods -4 cables banana crocodile	GP-2CON
Carrying case	GP-2CC
Optical serial cable	C2000
Software and manual	www.amprobe.com