

HF-GT-210

Earth Resistance Tester



This portable Earth Resistance Tester measures grounding, loop resistance, AC voltage and current. It features a color LCD, data storage, alarm reminder and strong anti-interference performance, widely used for grounding detection in power, communication and industrial fields.

Key features

- It adopts DC/AC conversion technology to convert direct current into stable low-frequency alternating current for accurate measurement.
- Variations of auxiliary earth resistance within 0~2kohm (RC) and 0~40kohm (RP) will not interfere with final measurement results.
- No manual balancing adjustment is required. Equipped with a 3½-digit LCD display, it can measure earth resistance, conductor low resistance, soil resistivity and AC earth voltage.
- When the test loop is disconnected, the digit "1" will be displayed to indicate overrange, consistent with universal measuring instrument conventions.
- Measure grounding resistance of power substations, transmission towers, distribution cabinets and electrical equipment to ensure safe grounding performance.

Technical specifications

Parameter	Value
Operating Conditions	Ambient Temperature 0°C ~ +45°C
Relative Humidity	<= 85% RH
Measuring Range & Constant Current (RMS Value)	Resistance 0□2ohm (10mA), 2□20ohm (10mA), 20□200ohm (1mA)
Voltage	AC 0 ~ 19.99V
Measurement Accuracy & Resolution	Accuracy 0□0.2ohm: ±3% ±1 digit 0.2ohm□199.9ohm: ±1.5% ±1 digit 1□19.99V: ±3% ±1 digit
Resolution	0.001ohm, 0.01ohm, 0.1ohm, 0.01V
Measuring Error Caused by Auxiliary Earth Resistance & Voltage	Allowable Auxiliary Earth Resistance RC (Between C1 & C2) < 1.8kohm
RP (Between P1 & P2)	< 40kohm, error <= ±5%
Allowable Earth Voltage	<= 5V (Power frequency RMS), error <= ±5%
Power Supply & Power Consumption	Maximum Power Dissipation <= 2W
Power Source	6.8V~9V (6 pcs No.5 Ni-MH rechargeable batteries), or external AC 220V power supply
Overall Dimensions	220mm × 200mm × 105mm
Weight	<= 1.4kg

Compliance and documents

Applicable standards	[TO BE CONFIRMED] standard applied to this model
Calibration certificate	[TO BE CONFIRMED]
Optional accessories	[TO BE CONFIRMED]

Warranty and support

12-month warranty on every exported instrument. English operation manual and remote video guidance at commissioning. T/T, L/C at sight and deposit terms for bulk orders; sea, air or rail shipping.