

HF-GT-201**Ground Resistance Tester**

The ground resistance tester is widely adopted to detect earthing resistance of substations, transmission towers and buildings. With excellent anti-interference performance and high measurement accuracy, it supports convenient on-site testing to ensure grounding safety of power systems.

Technical specifications

Parameter	Value
Functions	2/3/4-wire ground resistance measurement, soil resistivity measurement; ground voltage testing
Power Supply	DC 9V, 2# alkaline batteries (LR14 1.5V × 6)
Measuring Ranges	Ground Resistance: 0.00ohm ~ 30.00kohm Soil Resistivity: 0.00ohm-m ~ 9000kohm-m Ground Voltage: 0V ~ 600V
Measuring Mode	Precision 4-wire & 3-wire method, simple 2-wire method for ground resistance
Measuring Principle	Ground Resistance: Constant current variable voltage method, max. measuring current 20mA Soil Resistivity: Four-point (Wenner) method Ground Voltage: Mean value rectification (between P(S) and ES terminals)
Test Frequencies	128Hz/111Hz/105Hz/94Hz (AFC automatic frequency control)
Test Current	>20mA (sine wave)
Open-circuit Test Voltage	Max. AC 40V
Test Voltage Waveform	Sine wave
Adjustable Electrode Spacing	1m ~ 100m
Range Switching	Ground Resistance: Fully auto ranging 0.00ohm ~ 30.00kohm Soil Resistivity: Fully auto ranging 0.00ohm-m ~ 9000kohm-m
Backlight	Controllable white backlight, suitable for dark environments
Display Mode	4-digit large LCD with white backlight
Measurement Indication	Flashing LED during measurement, LCD countdown & progress bar display
LCD Dimensions	128mm×75mm; Viewing area: 124mm×67mm
Overall Instrument Size	212mm×175mm×85mm
Standard Test Leads	4 pcs: 20m red, 20m black, 10m yellow, 10m green
Simplified Test Leads	2 pcs: 1.6m red, 1.6m black
Auxiliary Ground Rods	4 pcs, Φ9mm × 230mm
Measuring Speed	Ground Voltage: approx. 3 times/second Ground Resistance & Soil Resistivity: approx. 15 seconds/time
Service Life	Over 5000 measurements (short-circuit test: 1 test every 30 seconds)
Rated Line Voltage	Measurement below AC 600V
Communication Interface	USB port; supporting PC monitoring, data upload, storage & printing
USB Cable	1 piece, length: 1.5m
Data Storage Capacity	300 groups; "FULL" symbol displayed when memory full
Data Hold	"HOLD" symbol for frozen readings
Data Recall	"READ" symbol displayed during data query

Parameter	Value
Over-range Indication	"OL" symbol shown when exceeding measuring range
Interference Detection	Automatically detect noise; "NOISE" symbol triggers when interference voltage>5V
Auxiliary Ground Resistance Test	Built-in function, range: 0.00kohm~30kohm
Alarm Function	Beeping alert when measured value exceeds preset threshold
Low Battery Prompt	Low battery icon pops up when voltage drops to ~7.5V
Operating Current	Standby: ~20mA (backlight off) Power-on with backlight: ~45mA (25mA without backlight) Measuring state: ~100mA (backlight off)
Weight	Instrument only: approx. 1330g Total weight (with package): approx. 4.5kg
Operating Temperature & Humidity	-10°C ~ 40°C, RH<80%
Storage Temperature & Humidity	-20°C ~ 60°C, RH<70%
Overload Protection	AC 280V/3s between terminals for ground resistance measurement
Insulation Resistance	≥20Mohm (500V applied between circuit and housing)
Withstand Voltage	AC 3700V rms (between circuit and housing)
EMC Performance	Complies with IEC 61326
Safety Standards	IEC 61010-1 (CAT III 300V, CAT IV 150V); IEC 61010-031; IEC 61557-1/-5; JJG 366-2004

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.