

HF-GT-205

Digital Equipotential Bonding Tester



Digital Equipotential Bonding Tester is a portable instrument designed to measure equipotential bonding resistance between metal components. It quickly verifies grounding continuity, eliminates potential difference risks, and ensures safe operation for power stations, workshops and anti-static systems.

Technical specifications

Parameter	Value
Functions	Equipotential bonding resistance test between metal parts, low resistance test, conductor resistance test between grounding grid electrodes, contact resistance test, etc.
DC Resistance Range	0.0001ohm ~ 30.00kohm, Accuracy: $\pm 1\%rdg \pm 5dgt$
Resistance Resolution	0.0001 ohm
Measurement Method	Four-wire testing
Test Current	≥ 1 A
Open-circuit Voltage	≤ 7 V
Measuring Power	≤ 15 W
DC Voltage Range	0.0V ~ 1000V DC, Accuracy: $\pm 1.5\%rdg \pm 5dgt$
DC Voltage Resolution	0.1 V
AC Voltage Range	0.0V ~ 750V AC, Accuracy: $\pm 1.5\%rdg \pm 3dgt$
AC Voltage Resolution	0.1 V
Power Supply	DC 6V 4.5Ah rechargeable lithium battery; Continuous working time ≥ 100 hours
Backlight	Adjustable grayscale backlight, suitable for dim environments
Display Mode	4-digit large LCD screen with grayscale backlight
Measurement Indication	LED flashing during measurement, countdown display on LCD
LCD Size	108mm $\times$ 65mm
Overall Dimensions	277.2mm $\times$ 227.5mm $\times$ 153mm
Test Leads	2 red 5m leads, 2 black 5m leads
Measuring Time	Resistance test: approx. 3 seconds/time; Voltage test: approx. 2 seconds/time
USB Interface	Available for software monitoring, data upload, storage and printing
Communication Cable	1 USB communication cable
Data Storage	500 groups; marked "MEM" for storage, "FULL" for full memory
Data Query	Historical data query function with "MR" symbol prompt
Overrange Display	"OL" symbol for over-limit indication
Alarm Function	Audible alarm triggers when readings exceed preset threshold
Battery Monitoring	Real-time battery level display; low battery reminder for timely charging
Auto Power-off	Automatically shuts down after around 15 minutes of inactivity
Power Consumption	Standby: Max 30mA (backlight off) Power-on with backlight: Max 43mA Measuring state: Max 2A (backlight off)

Parameter	Value
Weight	Main unit: 2397g (with battery) Test leads: 850g (including portable lead bag) Instrument case: 1200g
Operating Temperature & Humidity	-10°C ~ 40°C, relative humidity ≤ 80%RH
Storage Temperature & Humidity	-20°C ~ 60°C, relative humidity ≤ 70%RH
Overload Protection	Terminals C1-C2, P1-P2 withstand AC 280V for 3 seconds
Insulation Resistance	≥10Mohm (between circuit and enclosure at 500V)
Withstand Voltage	AC 3700V rms (between internal circuit and enclosure)
Electromagnetic Compatibility	Complies with IEC61010-4-3, radiated radio frequency field ≤1V/m
Compliance Standards	IEC61010-1, CAT III 600V, Pollution Degree 2; JJG724-1991 Verification Regulation for Digital DC Ohmmeter; JJG166-1993 Verification Regulation for DC Resistance Meter; DL/T967-2007 Verification Regulation for Loop Resistance Tester & DC Resistance Rapid Tester

Standard scope of supply

No.	Item	Qty	Notes
1	Main Unit of Digital Equipotential Bonding Tester	1 Set	Built-in rechargeable battery
2	Red Test Leads (5m)	2 Piece	For resistance & voltage testing
3	Black Test Leads (5m)	2 Piece	
4	USB Communication Cable	1 Piece	For data transmission & firmware upgrade
5	Power Charger	1 Piece	Matched 6V charging adapter
6	Portable Instrument Carrying Case	1 Pcs	Shockproof storage box
7	User Operation Manual (English + Chinese)	1 Copy	Detailed operation & parameter introduction
8	Factory Calibration Certificate	1 Copy	Traceable calibration report
9	Supporting PC Monitoring Software CD	1 Piece	For data recording, curve display & report printing
10	Accessory Storage Bag for Test Wires	1 Pcs	For organizing test leads

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.