

HF-WC-630

Ground Loop Impedance Tester



Ground Loop Impedance Tester reliably measures earth loop impedance and prospective short-circuit current without disconnecting power supply. It assesses electrical safety risks effectively and is widely used for routine inspection, acceptance testing and fault checking of low-voltage distribution systems in buildings and industrial sites.

Key features

- Handheld and portable design, compact and lightweight, no external power supply required, suitable for mobile field operation.
- Controlled by high-speed chip, high automation level and easy operation.
- Built-in lithium battery power supply with fast charging support.
- Maximum output current up to 200A, fast testing and high measurement accuracy.
- High-definition LCD screen with no visual blind spot, adapting to outdoor strong light conditions.

Technical specifications

Parameter	Value
Test Current	100A/200A adjustable (fixed at 200A under intelligent test mode)
Measuring Range	10uohm ~ 10mohm
Minimum Resolution	0.1uohm
Measuring Time	100A range: selectable 1s/5s/10s/30s/60s 200A range: selectable 1s/5s Intelligent mode: non-selectable, <=5s
Measurement Accuracy	Conventional loop resistance mode: $\pm(\text{Reading} \times 0.5\% + 0.2\text{uohm})$ Intelligent test mode: $\pm(\text{Reading} \times 2\% + 0.5\text{uohm})$
Number of Measurements	≥ 400 times (100A/1mohm/1s mode, full battery)
Data Storage	Auto storage, max. 100 groups of historical records, query supported
System Protection	Overcurrent & short-circuit protection: 330A threshold, quick cut-off within 5ms Overheat protection: protects battery and power components, threshold: 70°C Battery low power protection: testing prohibited when power is low; auto shutdown during over-discharge Battery overcurrent protection: built-in software curve, automatically limits output current
Human-Machine Interface	Self-luminous LCD, voice broadcast for data
Advanced Function	Optional BLE4.0 Bluetooth printer
Measurement Principle	Clamp Hall, non-contact measurement
Measuring Range	DC 0~400A
Measurement Accuracy	$\pm(\text{Reading} \times 2\% + 0.5\text{A})$
Resolution	DC 0.1A
Display	LCD, dimension: 32mm×15mm
LED Indicator	Power, charging, fully charged, low battery
Power Supply	Built-in lithium battery
Power Adapter	5V/1A
Charging Port	Type-C
Jaw Diameter	Phi68mm
Overall Dimension	215mm×65mm×34mm

Parameter	Value
Weight	0.5kg
Power Supply	Built-in lithium battery, fast charging supported
Housing Material	Oxidation-resistant insulated ABS
Main Unit Weight	<=1.2kg
Main Unit Dimension	155mm(L) ×110mm(W) ×70mm(H)

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.