S451 Winding Resistance Tester

FEATURES

DC Low Resistance Measurement
Output Test Current up to 10A
Measurement Range: 500μΩ to 1MΩ
Maximum Resolution: 0.1 μΩ
PC Software for Trend Analysis and Report Export
Fast Discharge & Safety Protection

SPECIFICATIONS

Function	Transformer winding resistance test, low resistance test, equipotential bonding resistance test, metal connection resistance test, micro-ohmmeter
Power	Built-in rechargeable lithium battery: 22.2V 5.2Ah Add-ins: AC 220V/2A 50Hz/60Hz
Testing Method	Four-wire measurement
Charger	25.2V/3A
Display Mode	5.6 inch LCD color screen，640dots×480dots display domain: 116mm×88mm
Testing Interface	I+,I-,U+,U-
Output Current	10A, 5A, 1A, 400mA, 200mA, 40mA, <5mA
Output Current	10A,
Measurement Range of Resistance	10A: 500 μΩ to 1.5Ω
	5A: 1 mΩ to 4Ω
	1A: 5mΩ to 20Ω
	400mA，0.1« to 50«
	200mA: 0.2Ω to 100Ω
	40mA: 1Ω to 500Ω
	<5mA: 1Ω to 1MΩ
Max Resolution	0.1μΩ
Resistance Accuracy	500μΩ to 500Ω: ±(0.2% rdg + 5dgt) 1Ω to 1MΩ: ±(2%rdg + 5dgt) Reference Conditions: 23°C ± 5°C, < 80%RH
Over Measurement Range	--OL--
Discharge Indication	The buzzer rings after the test to indicate that the battery is discharging, and stops ringing when the discharge is complete
Printers	The instrument panel is embedded with a printer, press the print button to print the test results

Data Storage	Upon completion of the test, the data is saved automatically and circularly, which can store up to 9999 sets of data
Size	320mm(L)×275mm(c)×145mm(H)
Size of Outer Package	400mm(L)×L245mm(W)×335mm(H)
Weight	9.2kg including package
Toolkit	Military tool box design, bearing 200kg
Testing Leads	Easy connection, connect test leads in both terminals
Current and Voltage	Constant Current：10 A、5 A、1A、400 mA、200 mA、40mA Constant Voltage：<5mA；Auto Switch
Output Power	Max 150W
Delete Data	In the data review column, you can choose to delete the current data or delete all data
Data Access	Press the up and down buttons to browse the stored data in the data review column
Firmware Upgrade	The user can upgrade the instrument firmware through the U disk
Auto Shut-Down	When using battery power, it will automatically shut down if there is no operation lasting about ten minutes.
Battery Voltage	There is a battery indicator in the upper right corner of the ohmmeter，when indicating“ ”，it means that battery is exhausted and it will automatically shut down, please charge in time.
temperature conversion	The instrument automatically processes the test data and has the function of resistance temperature conversion
Cloud Service	Android APP, Bluetooth connection; upload on-site pictures, upload test data, generate test reports and data curves, share test equipment, and view data simultaneously
Data Transmission	It can be transmitted through RS232, U disk, Bluetooth, etc.
Backlit	High, medium and low brightness
Test Object	Copper (Cu) and Aluminium (Al) conductors
Temperature Compensation	Converts measured resistance to equivalent values at 75 °C and 115 °C
Fuse	10A for input, 30A for output

Tapping	0-99
Standby Current	200 mA (no test in progress)
Circuit Protection	Back-EMF protection, open-circuit protection, power-loss protection, over-temperature protection
Operating Environment	−20 °C to 40 °C, ≤ 80% RH (non-condensing)
Storage Environment	−10 °C to 60 °C, ≤ 70% RH
Safety Standard	IEC61010-1

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