S452 Microhmmeter



FEATURES

Output Current up to 100A
Resolution：0.01μΩ
4-Wire Kelvin Measurement
Fast Measurement Mode + selectable 10-60 s
APP & PC Software: Instrument Control, Report Generation
Optional Printer + Self-test Resistor
Protections: Open-circuit & Overheating

SPECIFICATIONS

Function	Contact resistance testing of high-voltage switches and circuit breakers; connection resistance of metallic welding components; circuit resistance of conductors; precision micro-ohm resistance measurement
Power Supply	Built-in 12.6V 9000mAh rechargeable lithium battery
Measurement Method	Four-wire method (Kelvin measurement)
Charger	12.6V / 2A
Display	5.6-inch industrial-grade high-brightness color LCD screen
Test Terminals	I+ (Current Positive), I− (Current Negative), U+ (Voltage Positive), U− (Voltage Negative)
Output Current	≤5A, 10A, 30A, 50A, 80A, 100A
	Step: 2.5A, up to 40 current levels
Measurement Range	≤5A: 1μΩ ~ 3.5Ω
	10A: 0.1μΩ ~ 200mΩ
	30A: 0.1μΩ ~ 20mΩ
	50A: 0.01μΩ ~ 15mΩ
	80A: 0.01μΩ ~ 10mΩ
	100A: 0.01μΩ ~ 5mΩ
Resolution	0.01μΩ
Accuracy	30A~100A (0.01μΩ~20mΩ): ±(Reading×0.1%+Range×0.2%+1μΩ)
	10A (0.1μΩ~200mΩ): ±(Reading×0.5%+Range×0.2%+10μΩ)
	≤5A (1μΩ~1000mΩ): ±(Reading×0.5%+Range×0.2%+10μΩ)
	≤5A (1Ω~3.5Ω): ±(Reading×0.5%+Range×0.2%+0.1Ω)

Test Duration	≤100A: Quick (Recommended), 10s, 20s, 30s, 40s, 50s, 60s
Printer	Optional; print results via the “Print” key
Data Storage	999 groups; automatic storage upon test completion
Dimensions (L×W×H)	Instrument: 188mm × 85mm × 312mm
	Package: 550mm × 420mm × 215mm
Weight	Instrument: approx. 2.2kg
	Total (with accessories): approx. 9.3kg
Test Leads	Standard 3m (5m optional); total resistance <10mΩ
Data Delete	Select “Format Memory” in the settings interface to delete all data
Data Query	Enter the Data Query interface and press the up/down/left/right keys to browse stored data
Data Export	Bluetooth connection via Android APP; export as Excel file
Cloud Service	Android APP via Bluetooth; upload on-site pictures and test data, generate test reports and graphs, share test equipment, view data simultaneously by multiple users
PC Software	Export test data, continuous logging, real-time display, and instrument control via PC
Auto Power-off	Automatically shuts down after 15 minutes of inactivity
Battery Indicator	Real-time status icon; low battery symbol triggers auto-shutdown
Backlight	High, Medium, Low
Working Current	Non-test state: 230mA; Test state: subject to current setting
Protection	Open-circuit protection, overheat protection, internal temperature monitoring
Operating Environment	-10°C ~ 50°C; below 90% RH (non-condensing)
Storage Environment	-10°C ~ 60°C; below 70% RH
Safety Standard	IEC61010-1



Testing Interface



Recording Interface









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