

S453 Microhmmeter



FEATURES

Output Current up to 220A
Resolution: 0.01 $\mu\Omega$
4-Wire Kelvin Measurement
Fast Measurement Mode + selectable 10-60 s
APP & PC Software: Instrument Control, Report Generation
Optional Printer + Built-in Self-test Resistor
Protections: Open-circuit & Overheating



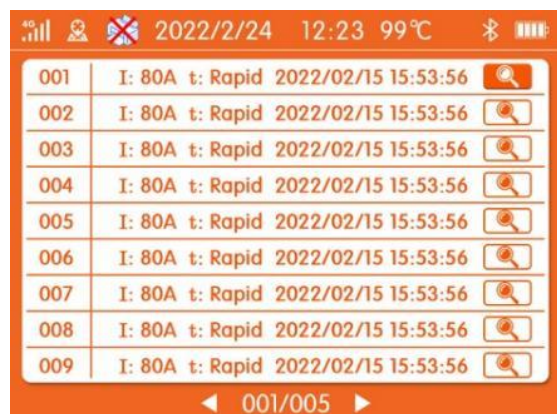
SPECIFICATIONS

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, 200A, 220A Step: 2.5A, up to 87 current levels
Measurement Range	≤5A: 1 $\mu\Omega$ ~ 3.5 Ω 10A: 0.1 $\mu\Omega$ ~ 200m Ω 30A: 0.1 $\mu\Omega$ ~ 20m Ω 50A: 0.01 $\mu\Omega$ ~ 15m Ω 80A: 0.01 $\mu\Omega$ ~ 10m Ω 100A: 0.01 $\mu\Omega$ ~ 5m Ω 200A: 0.01 $\mu\Omega$ ~ 600 $\mu\Omega$ 220A: 0.01 $\mu\Omega$ ~ 500 $\mu\Omega$

Resolution	0.01 $\mu\Omega$
Accuracy	30A~220A (0.01 $\mu\Omega$ ~20m Ω): $\pm(\text{Reading}\times 0.1\% + \text{Range}\times 0.2\% + 1\mu\Omega)$
	10A (0.1 $\mu\Omega$ ~200m Ω): $\pm(\text{Reading}\times 0.5\% + \text{Range}\times 0.2\% + 10\mu\Omega)$
	$\leq 5\text{A}$ (1 $\mu\Omega$ ~1000m Ω): $\pm(\text{Reading}\times 0.5\% + \text{Range}\times 0.2\% + 10\mu\Omega)$
	$\leq 5\text{A}$ (1 Ω ~3.5 Ω): $\pm(\text{Reading}\times 0.5\% + \text{Range}\times 0.2\% + 0.1\Omega)$
Test Duration	$\leq 100\text{A}$: Quick (Recommended), 10s, 20s, 30s, 40s, 50s, 60s
	$> 100\text{A}$: Quick mode only
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 $< 10\text{m}\Omega$
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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