

■ Product Introduction

KM OHM 8501 digital DC low resistance meter, also known as micro-ohmmeter, ohmmeter, equipotential tester, adopts microprocessor technology, four-wire method for testing, safe, precise and reliable. Mainly used to measure the wire resistance of cables, the contact resistance of switches, connectors, relays, the resistance of coils, motors, transformer windings, and equipment enclosures, lightning protection belts, ground beams, structures, cabinets, steel bars, water pipes, windows, guardrails, and heat dissipation. Test the connection resistance between metal components of objects such as devices, assembly lines, etc. It is widely used in telecommunications, electric power, meteorology, computer rooms, oil fields, power distribution lines, tower transmission lines, gas stations, factory grounding grids, lightning rods, etc.

KM OHM 8501 digital DC low resistance meter is composed of host, monitoring software, test line, communication line, etc. The large-screen LCD display of the main unit is clear at a glance, and the port overload prevention function prevents the instrument from being burned out by misoperation. Can store 500 sets of data, resistance measurement range: 0.001mΩ ~ 300.0KΩ. The upper computer software has functions such as historical data reading, consulting, saving, and reporting.

■ FEATURES

- Resistance range : 0.001mΩ ~ 300.0KΩ
- Resolution : 1μΩ
- Accuracy : ±0.1%FS
- Data storage : 500 Sets
- USB data upload function
- Charging function

■ TECHNICAL SPECIFICATIONS

Function	Mainly used to measure the wire resistance of cables, the contact resistance of switches, connectors, relays, the resistance of coils, motors, transformer windings, and metal riveting resistance, the connection resistance test between metal components, the low-value resistance test, and the ground grid and ground poles. Resistance test of connecting conductor, contact resistance test, etc.
Detection method	Four-wire method test
Test current	≥1A
Open circuit voltage	≤4.2V
Overload protection	Yes
Power	Measuring power≤8W
Power supply	DC 3.7V 2000mAh
Back light	Controllable gray and white screen backlight, suitable for dim places
Display mode	LCD
LCD size	72 mm×55mm
Instrument size	187 mm×119 mm×50mm



Preliminary Data



All Specifications are subject to change without prior notice.

Test line length	About 60cm, red, black 1pcs
Measure time	About 2 times/sec
USB interface	With micro USB interface
Communication line	micro USB 1pcs
Data storage	500 groups, "MEM" storage indication, display "FULL" symbol to indicate storage is full
Data review	Data review function: "MR" symbol display
Overflow display	Over-range overflow function: "OL" symbol display
Battery voltage	Real-time display of battery power, reminding timely charging when battery voltage is low
Automatic shut-down	"APO" indicates, automatic shutdown after 15 minutes
Power consumption	Standby: about 100mA (backlight off)
	Turn on backlight: about 105mA
	Measure : 2A Max (backlight off)
Weight	Instrument: 480g (including battery)
	Test line: 250g
Working temperature and humidity	-10°C ~ 50°C; below 80%rh
Storage temperature and humidity	-20°C ~ 60°C; below 70%rh
Overload protection	AC 220V/0.0001 second between C1-C2 P1-P2 ports, after overload protection, you need to restart the meter to test normally
Insulation resistance	More than 10MΩ (Between circuit and case 500V)
Pressure resistance	AC 3700V/rms (between circuit and case)
Electromagnetic properties	IEC61010-4-3, Wireless frequency electromagnetic field≤1V/m
Suitable for Safety Regulations	IEC61010-1, CAT III 600V, pollution level 2, JJG724-1991 "Determination of Direct Current Digital Ohmmeters", JJG166-1993 "Dialect Resistor Verification Regulations", "DL/T967-2005 Loop Resistance Tester and DC Resistance Fast Tester Verification Procedures"

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