



EK-C364A Micro-ohmmeter



Product Function

Used for measuring: resistance of new energy vehicles and small transformer windings; grounding continuity resistance; cable and wire resistance; contact resistance of switches, connectors, relays; metal riveting resistance; winding resistance of coils, motors, transformers; connection resistance between metal components; electric welding point resistance; battery parallel connection resistance; and wire length measurement and calculation, etc.

Product Features

1. Maximum test current 1A, wide range: $1.0\mu\Omega \sim 40k\Omega$, high resolution $0.1\mu\Omega$, highest accuracy $\pm 0.2\% \pm 2\mu\Omega$.
2. Two measurement modes. Auto mode: automatically selects the range according to the load. Manual mode: 8 ranges available.
3. Temperature compensation function, which compensates for copper wires with temperature dependence.
4. Average function, which performs moving average processing on multiple measured values to reduce deviation.
5. Auto power off, Bluetooth communication, USB interface, and settable resistance alarm function.

Technical Specification

Power Supply	DC 7.4V, 2600mAh rechargeable lithium battery
Display Screen	4.3-inch colorful screen, resolution 480×272
Resistance Measurement Range	$1.0\mu\Omega \sim 40k\Omega$
Highest Measurement Accuracy	$\pm 0.2\% \pm 2\mu\Omega$
Highest Resolution	$0.1\mu\Omega$
Test Range	4mΩ, 40mΩ, 400mΩ, 4Ω, 40Ω, 400Ω, 4kΩ, 40kΩ
Test Current	1A, 1A, 100mA, 100mA, 100mA, 10mA, 1mA, 0.1mA
Test Method	Precision four-wire method, dual-channel A/D simultaneous detection
Test Mode	Auto, manual
Measurement Time	Sampling AD rate 1 time/sec
Alarm Function	Available. Alarm threshold setting range: $1m\Omega \sim 40k\Omega$, 0Ω disables alarm
Data Storage	1000 groups (data will not be lost after power failure or battery replacement)
Data Hold	Automatically holds the measured result after each test
Clock Function	24-hour format, displays hour, minute, second
Temperature Compensation Function	Converts the resistance value of the test piece to the resistance value at a specific temperature
Average Function	Performs moving average processing on multiple measured values to reduce deviation
Withstand Voltage	AC 3700V/rms (between housing and screw)
Bluetooth Communication	Available. After installing the mobile APP, test records can be viewed on the mobile phone
USB Communication	Available. After installing the host computer software, stored data can be uploaded to computer
Meter Dimensions	226mm×144mm×65mm
Meter Weight	Approx. 2kg (including accessories)
Operating Environment	-10℃~40℃; below 80%RH
Suitable Safety Standard	IEC61010-1, CAT III 600V, Pollution Degree 2, JJG724-1991 "Verification Regulation of DC Digital Ohmmeter"
Accessories	Tester: 1 unit; Test leads: 2 pieces; Temperature test lead: 1 piece; USB communication cable: 1 piece; Charger: 1 unit; Tool bag: 1 piece

