

ES3070 Handheld DC Resistance Tester



I . Characteristic

ES3070 Handheld DC Resistance Tester, also known as Transformer DC Resistance Tester, DC Resistance Quick Tester, and Grounding Continuity Tester, adopts microprocessor technology and four-wire test, which is safe, precise and reliable. Mainly used to measure the resistance of transformer windings, transformer winding resistance, grounding conductor continuity test, wire resistance of cables, switches, connectors, contact resistance of relays, coils, motors, and equipment shells, lightning protection belts, grounding Connection resistance test between metal components of beams, structures, cabinets, steel bars, water pipes, windows, guardrails, radiators, assembly lines and other objects. Widely used in telecommunications, electricity, meteorology, computer rooms, oil fields, power distribution lines, tower transmission lines, gas stations, factory grounding grids, lightning rods, etc.

ES3070 Handheld DC Resistance Tester consists of host, monitoring software, test line, communication line, etc. The handheld portable design of the host is convenient for on-site application, with a charging function without on-site power search, full-color large-screen LCD display, which is clear at a glance, touch-screen operation is convenient and easy to use, and the port has an anti-overload function. Large-capacity storage of 500 sets of data, resistance measurement range: $10.0\mu\Omega$ - $50.00K\Omega$, measurement accuracy: 0.2%. The upper computer software has the functions of reading, viewing, saving and reporting historical data.

II . Technical Specification

Features	Mainly used to measure the DC resistance of transformers, transformer winding resistance, grounding network connection continuity, wire resistance of cables, contact resistance of switches, connectors, relays, coils, motors, transformer winding resistances and metal riveting resistance, metal components Connection resistance test, low value resistance test, contact resistance test, etc.
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Resistance range	10.0uΩ-50.00KΩ
Resolution	0.1uΩ
Accuracy	0.2%FS
Detection method	Four-wire method test
Test current	10A, 5A, 1A, 0.1A, 10mA, 1mA
Maximum short circuit current	10A
Overload protection	Have
Automatic discharge	Have
Power supply	DC12.6V 2500mAh large capacity lithium battery
Charging function	Have
Backlight	Yes, suitable for dark places
Display mode	Full color LCD display
Touch screen operation	Yes
LCD size	Length and width: 108mm×65mm
Meter size	Length, width and height: 240mm×188mm×85mm
Test lead length	5 meters, 1 red and 1 black
USB interface	With USB interface
Communication line	1 USB communication line
Data storage	500 groups, "MEM" storage indication, displaying "FULL" symbol means the storage is full
Data access	Data access function: "MR" symbol display
Overflow display	Overrange overflow function: "OL" symbol display
Battery voltage	The battery level is displayed in real time, indicating that the battery needs to be charged in time when the battery voltage is low
Automatic shut-down	The meter shuts down after about 15 minutes of inactivity
Power consumption	Standby: about 120mA (20% brightness)
	Measurement: 27W Max
Quality	Meter: 1100g (including battery)
	Test line: 850g
Working temperature and humidity	-10℃~50℃; below 70%rh
Storage temperature and humidity	-20℃~60℃; below 70%rh
Insulation resistance	10MΩ or more (500V between circuit and case)
Pressure resistance	AC 3700V/rms (between circuit and case)
Electromagnetic properties	IEC61010-4-3, radio frequency electromagnetic field≤1V/m
Suitable for safety regulations	IEC61010-1, CAT III 600V, pollution level 2, JJG724-1991 "Verification Regulations for DC Digital Ohmmeter", JJG166-1993 "Verification Regulations for DC Resistors", "DL/T967-2005 Loop Resistance Tester and DC Resistance Fast Tester Verification Regulations"

III. Packing List

Meter	1 set
Test line	2 (red, 1 black each)
CD	1 piece
Data line	1
Charger	1
Manual, Warranty	1 set
Instrument box	1

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