

ES3072 DC Resistance tester



I. Brief introduction

ES3072 DC resistance tester is also known as transformer DC resistance tester, DC resistance rapid tester, grounding conduction tester, using microprocessor technology, four-wire method test, safe, precise and reliable. It is mainly used to measure the resistance of transformer winding, transformer resistance resistance, grounding conductor conduction test, wire resistance, contact resistance, cable resistance, coil, relay, motor, equipment shell, lightning belt, beam, structure, cabinet, steel bar, water pipe, window, metal, fence, radiator, assembly line test between metal components. It is widely used in telecommunications, electric power, meteorology, machine room, oil field, power distribution line, iron tower transmission line, gas station, factory grounding network, lightning rod, etc.

ES3072 The DC resistance tester is composed of the host machine, monitoring software, test line, communication line, etc. The host handheld portable design is convenient for field application, with charging function without field power search, full-color large screen LCD display, clear at a glance, touch screen operation is convenient and easy to use, port anti-overload function. Large capacity storage of 800 sets of data, resistance measurement range: $10.0\mu\Omega$ - $1000.0\text{K}\Omega$, measurement accuracy: $\pm 0.2\%\text{FS} \pm 10\text{dgt}$. The upper computer software has the functions of historical data reading, consulting, saving, reporting and so on.

II. Range and technical specifications

Function	It is mainly used for measuring the transformer DC resistance, transformer winding resistance, ground grid connection conductivity, cable wire resistance, switch, connector, relay contact resistance, coil, motor, transformer winding resistance and metal riveting resistance, metal components between the
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	connection resistance test, low value resistance test, contact resistance test, etc.
Type of material	Optional Cu, Al, Fe, Au, Ag materials
Resistance range	10.0uΩ-1000.0KΩ
Resolution	0.1 uΩ
Accuracy	±0.2%FS
Test method	Four wire method test
Test current	20A、10A、2A、0.2A、20mA、2mA、1mA
Maximum short circuit current	20A
Temperature detection	The temperature probe
Temperature conversion	Yes, in the temperature conversion, it can be converted to 75℃ measurement results
Alert setting function	Yes
Overload protection	Yes
Self discharge	Have, LCD display reminder
Power supply	Built-in: 14.6V 10000mAh rechargeable lithium iron phosphate battery
Charging function	Yes 14.6V/3A
Backlight	Yes, sliding adjustable, suitable for dim place use
Display mode	5-inch touch (854dots 480dots) Full-color LCD display
Touch screen operation	Yes
LCD size	Length and width: 108 mm×65mm
Instrument size	Length 277.2mm×width227.5mm×high153mm
Test cables length	5 meters, red, black each
Cloud services	Android APP, the upper machine
Printer	The instrument panel has an embedded printer, and press the print key to print the test results
USB Interface	USB interface
USB cable	USB one pcs communication cable
Data storage	800sets
Data transmission	USB/Blue tooth
Data access	There is a data access function
Overflow display	Overload overflow function: The OL symbol display
Battery voltage	Real-time display of battery power indicates that the battery should be charged in time when the voltage is low
Auto shut off	The instrument is be operated for about 15 minutes
Power dissipation	Standby: about 230 mA (20% brightness)
	Measured at: 27W Max
Weight	Instrument: 2300g (including battery)
	Test cables: 850g
Working temperature and	-10℃~50℃; below 70%rh

humidity	
Store temperature and humidity	-20℃~60℃; below 70%rh
Insulation resistance	10MΩ Above (500V between circuit and housing)
Withstand voltage	AC 3700V/rms (Between the circuit and the enclosure)
Electromagnetic characteristics	IEC61010-4-3, Wireless frequency electromagnetic field ≤1V/m
Suitable for safety regulations	IEC61010-1, CAT III 600V, pollution level 2, JJG724-1991 <<DC digital Ohm meter verification Regulations>>, JJG166-1993 <<DC resistor verification Regulations>>, <<DL/T967-2005 circuit resistance tester and DC resistance fast tester verification Regulations>>



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