

## 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:  $\pm 0.2\%FS \pm 10\text{dgt}$ . The upper computer software has the functions of historical data reading, consulting, saving, reporting and so on.

## II. Range and technical specifications

<b>Function</b>	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 connection resistance test, low value resistance test, contact resistance test, etc.
<b>Type of material</b>	Optional Cu, Al, Fe, Au, Ag materials
<b>Resistance range</b>	10.0uΩ-1000.0KΩ
<b>Resolution</b>	0.1 uΩ
<b>Accuracy</b>	±0.2%FS
<b>Test method</b>	Four wire method test
<b>Test current</b>	20A、10A、2A、0.2A、20mA、2mA、1mA
<b>Maximum short circuit current</b>	20A
<b>Temperature detection</b>	The temperature probe
<b>Temperature conversion</b>	Yes, in the temperature conversion, it can be converted to 75°C measurement results
<b>Alert setting function</b>	Yes
<b>Overload protection</b>	Yes
<b>Self discharge</b>	Have, LCD display reminder
<b>Power supply</b>	Built-in: 14.6V 10000mAh rechargeable lithium iron phosphate battery
<b>Charging function</b>	Yes 14.6V/3A
<b>Backlight</b>	Yes, sliding adjustable, suitable for dim place use
<b>Display mode</b>	5-inch touch (854dots 480dots) Full-color LCD display
<b>Touch screen operation</b>	Yes
<b>LCD size</b>	Length and width: 108 mm×65mm
<b>Instrument size</b>	Length 277.2mm×width227.5mm×high153mm
<b>Test cables length</b>	5 meters, red, black each
<b>Cloud services</b>	Android APP, the upper machine
<b>Printer</b>	The instrument panel has an embedded printer, and press the print key to print the test results
<b>USB Interface</b>	USB interface
<b>USB cable</b>	USB one pcs communication cable
<b>Data storage</b>	800sets
<b>Data transmission</b>	USB/Blue tooth
<b>Data access</b>	There is a data access function
<b>Overflow display</b>	Overload overflow function: The OL symbol display
<b>Battery voltage</b>	Real-time display of battery power indicates that the battery should be charged

	in time when the voltage is low
<b>Auto shut off</b>	The instrument is be operated for about 15 minutes
<b>Power dissipation</b>	Standby: about 230 mA (20% brightness)
	Measured at: 27W Max
<b>Weight</b>	Instrument: 2300g (including battery)
	Test cables: 850g
<b>Working temperature and humidity</b>	-10°C~50°C; below 70%rh
<b>Store temperature and humidity</b>	-20°C~60°C; below 70%rh
<b>Insulation resistance</b>	10MΩAbove (500V between circuit and housing)
<b>Withstand voltage</b>	AC 3700V/rms(Between the circuit and the enclosure)
<b>Electromagnetic characteristics</b>	IEC61010-4-3, Wireless frequency electromagnetic field≤1V/m
<b>Suitable for safety regulations</b>	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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