

RJ3545 Precision DC Resistance Tester



Product Description

RJ3545 Precision DC Resistance Tester can measure the resistance of motors, transformers and other coils and the contact resistance of relay contacts, and measure the DC resistance of fuses, resistors and various conductive materials through the four-terminal method. Built-in OVC voltage compensation function makes the test results more accurate.

RJ3545 not only meets the requirements of high-precision testing in the laboratory, but also has a variety of communication interfaces to meet the needs of high-volume testing of automatic production lines.

Key Features

- Wide measuring range $0.01\mu\Omega$ - $1200M\Omega$, 12 steps, max. 6.5 display digits;
- Maximum test current 1A;
- Flexible I/O interface, compatible with various test systems;
- OVC thermopotential compensation function, effectively eliminating thermopotential effects;
- Low current mode test prevents the object under test from fusing, heating or magnetizing.
- Multi-channel scanning mode can be set, external RJ35-SXX multi-channel scanning unit (optional), to realize multi-channel test.

Specification

Model		RJ3545
Measuring range		0.01 $\mu\Omega$ -1200M Ω 12 level
Measuring current		0.1 μ A~1A
Open Voltage		DC 20V (range 10 k Ω ~1000M Ω) Maximum 5.5 V (range 10m Ω ~1000 Ω)
Measuring range	Large current mode	10.00000m Ω -1000M Ω
	Large current OVC pulse mode	10.00000m Ω -1000 Ω
	Small current mode	100.0000m Ω -100 Ω
	Large current OVC pulse mode	100.0000m Ω -100 Ω
	Low current OVC pulse mode	1000.000m Ω -1000 Ω
Measuring Accuracy	Large current mode	\pm (0.06%rdg.+0.08%f.s.) 10m Ω \pm (0.06%rdg.+0.01%f.s.) 100m Ω \pm (0.012%rdg.+0.008%f.s.) 1000m Ω \pm (0.008%rdg.+0.008%f.s.) 10 Ω \pm (0.007%rdg.+0.001%f.s.) 100 Ω \pm (0.006%rdg.+0.001%f.s.) 1000 Ω \pm (0.007%rdg.+0.001%f.s.) 10k Ω \pm (0.007%rdg.+0.001%f.s.) 100k Ω \pm (0.008%rdg.+0.2%f.s.) 1000k Ω \pm (0.03%rdg.+0.2%f.s.) 10M Ω \pm (0.2%rdg.+1%f.s.) 100M Ω (100M High-precision mode) Below 10.00M : \pm (0.5%rdg.+0.02%f.s.) 100M Ω (100M Low-precision mode) Above 10.01M : \pm (1%rdg.+0.02%f.s.) 100M Ω (100M Low-precision mode)

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		<p>Below 100.0M:± (1%rdg.+0.02%f.s.) 1000MΩ (100M Low-precision mode)</p> <p>Above 100.1M :± (10%rdg.+0.02%f.s.) 1000MΩ (100M Low-precision mode)</p>
	Large current OVC pulse mode	<p>± (0.06%rdg.+0.001%f.s.) 10mΩ</p> <p>± (0.06%rdg.+0.001%f.s.) 100mΩ</p> <p>± (0.012%rdg.+0.001%f.s.) 1000mΩ</p> <p>± (0.008%rdg.+0.005%f.s.) 10Ω</p> <p>± (0.007%rdg.+0.001%f.s.) 100Ω</p> <p>± (0.006%rdg.+0.001%f.s.) 1000Ω</p>
	Small current mode	<p>± (0.014%rdg.+0.05%f.s.) 100mΩ</p> <p>± (0.008%rdg.+0.05%f.s.) 1000mΩ</p> <p>± (0.008%rdg.+0.05%f.s.) 10Ω</p> <p>± (0.008%rdg.+0.01%f.s.) 100Ω</p>
	Large current OVC pulse mode	<p>± (0.014%rdg.+0.006%f.s.) 100mΩ</p> <p>± (0.008%rdg.+0.002%f.s.) 1000mΩ</p> <p>± (0.008%rdg.+0.005%f.s.) 10Ω</p> <p>± (0.008%rdg.+0.010%f.s.) 100Ω</p>
	Low current OVC pulse mode	<p>± (0.2%rdg.+0.003%f.s.) 1000mΩ</p> <p>± (0.2%rdg.+0.002%f.s.) 10Ω</p> <p>± (0.2%rdg.+0.002%f.s.) 100Ω</p> <p>± (0.2%rdg.+0.002%f.s.) 1000Ω</p>
External interface	RS232/485 communications interface, Handler interface (PLC interface)	
Other Functions	OVC voltage compensation, comparator function, low current test mode, low current test mode, contact detection function, resistivity test function, temperature test (optional), temperature compensation function (optional)	
Usage environment	20°C~26°C, 20%RH~70%RH	

Power supply	AC220V±10%, 50/60Hz, 20VA
Weight	3.7Kg
Dimensions	213mm×88mm×350mm(W×H×D) excluding the feet height, the feet height is15mm
Accompanying documents and Accessories	1 instruction manual, 1 power cable (1.5 m), 1 communication cable (1.5 m), 1 set of test cables (1.5 m),1GPIB connector plug