

RJ3545 Precision DC Resistance Tester



Product Description

RJ3545 High precision DC resistance tester can measure the resistance of motors, transformers and other coils and the contact resistance of relay contacts through the four-terminal method, and measure the DC resistance of fuses, resistors and various conductive materials. The built-in OVC thermoelectric potential compensation function makes the test results more accurate.

The RJ3545 not only meets the high-precision testing requirements of the laboratory, but also has a variety of communication interfaces to meet the requirements of automatic production line mass testing.

Key Features

- Wide measuring range $0.01\mu\Omega\sim1200M\Omega$, 12 steps, max. 6.5 display digits;
- Maximum test current 1A;
- Flexible I/O interface, compatible with various test systems;
- OVC thermoelectric potential compensation function, effectively eliminate the effect of thermoelectric potential;
- 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.

National Service hotline: 4008-515-616

No.38 Longfei Road, Chengyang District, Qingdao

Official website: www.ruijie-ate.com

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) The maximum DC is 20 mV for LP ON
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) Below 100.0M : $\pm (1\%rdg.+0.02\%f.s.)$ 1000M Ω (100M Low-precision mode) Above 100.1M : $\pm (10\%rdg.+0.02\%f.s.)$ 1000M Ω

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	(100M Low-precision mode)	
	Large current OVC pulse mode	$\pm (0.06\% \text{rdg.} + 0.001\% \text{f.s.})$ 10m Ω
		$\pm (0.06\% \text{rdg.} + 0.001\% \text{f.s.})$ 100m Ω
		$\pm (0.012\% \text{rdg.} + 0.001\% \text{f.s.})$ 1000m Ω
		$\pm (0.008\% \text{rdg.} + 0.005\% \text{f.s.})$ 10 Ω
		$\pm (0.007\% \text{rdg.} + 0.001\% \text{f.s.})$ 100 Ω
		$\pm (0.006\% \text{rdg.} + 0.001\% \text{f.s.})$ 1000 Ω
	Small current mode	$\pm (0.014\% \text{rdg.} + 0.05\% \text{f.s.})$ 100m Ω
		$\pm (0.008\% \text{rdg.} + 0.05\% \text{f.s.})$ 1000m Ω
		$\pm (0.008\% \text{rdg.} + 0.05\% \text{f.s.})$ 10 Ω
		$\pm (0.008\% \text{rdg.} + 0.01\% \text{f.s.})$ 100 Ω
	Large current OVC pulse mode	$\pm (0.014\% \text{rdg.} + 0.006\% \text{f.s.})$ 100m Ω
		$\pm (0.008\% \text{rdg.} + 0.002\% \text{f.s.})$ 1000m Ω
		$\pm (0.008\% \text{rdg.} + 0.005\% \text{f.s.})$ 10 Ω
		$\pm (0.008\% \text{rdg.} + 0.010\% \text{f.s.})$ 100 Ω
	Low current OVC pulse mode	$\pm (0.2\% \text{rdg.} + 0.003\% \text{f.s.})$ 1000m Ω
		$\pm (0.2\% \text{rdg.} + 0.002\% \text{f.s.})$ 10 Ω
		$\pm (0.2\% \text{rdg.} + 0.002\% \text{f.s.})$ 100 Ω
		$\pm (0.2\% \text{rdg.} + 0.002\% \text{f.s.})$ 1000 Ω
External interface	RS232/RS485, 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	Storage Temperature and humidity range -10°C~ 50°C, 20%RH ~75%RH (no condensation) Temperature and humidity range 0°C ~40°C, 20%RH~ 75%RH (no condensation) The temperature and humidity ranges from 20°C~ 26°C and from 20%RH ~75%RH	
Power supply	AC100V~240V, 50/60Hz	
Net weight	3.7kg	
Dimensions	213mm×88mm×350mm(W×H×D) without foot, foot height 15mm	
Attachment	1 instruction manual, 1 power cable (1.5 m), 1 communication cable (1.5 m), 1 set of test cables (1.5 m), 1 GPIB connector plug	