

Resistance Tester

DC Resistance Meter TR-2305 Series

Product description:

New DC resistance meter, LCD display, easy to use, excellent performance, 32-bit CPU and 24-bit high-density SMD technology. Leading role in testing relay contact resistance, interconnection resistance, conductor resistance, PCB resistance, temperature compensation and conversion functions, making the test free from the impact of ambient temperature, and offset voltage compensation effectively limit voltage of DUT. The potential difference of the automatic touch system in the production line can be greatly improved by realizing the ultra-high testing speed and output 3 signals to compare the results through the HANDLER interface.



Features

- Minimum resolution 1 $\mu\Omega$ to Maximum value 20M Ω
- Low resistance test mode can effectively protect the DUT
- Multiple measurement values of R, LPR and T are combined
- Temperature compensation (TC) and temperature conversion (Δt)
- 30 groups of parameter files can be saved and retrieved
- Maximum sampling rate: 50 values/s
- Management interface To take into account on-line operation
- Offset voltage compensation (OVC)
- Screen data can be stored in U-disk
- Simultaneous output of 10 bins of comparison results (OVER, PASS and beep)
- Data saving function brings convenience for recording measurement results
- Software values can be changed automatically by operating through USB host
- Interfaces such as RS232, USB HOST, USB DEVICE and LAN (GPIO is optional)

- High accuracy 0.05%
- Temperature accuracy 0.2°C
- Zero ADJ can be wiped
- Statistics function: Cpk, Cp

Ordering Informations

TR-2305 : 1 $\mu\Omega$ ~ 2M Ω DCR Meter

TR-2305A : 10 $\mu\Omega$ ~ 200k Ω DCR Meter

TR-2305B : 1 $\mu\Omega$ ~ 20k Ω DCR Meter

TR-2305+ : 1 $\mu\Omega$ ~ 20M Ω DCR Meter

Standard Accessories :

- User Manual
- Power cord
- Four-terminal Test Lead
- Temperature sensor (only TR-2305, TR-2305+)

Specifications

Model		TR-2305			TR-2305A			TR-2305B			TR-2305+	
Display		24-bit color RGB true color TFT LCD display with resolution of 480x272										
Reading Digits		4½ digit										
Measurement Range		1μΩ ~ 2MΩ			10μΩ ~ 200kΩ			1μΩ ~ 20kΩ			1μΩ ~ 20MΩ	
Resistance Range		20mΩ	200mΩ	2Ω	20Ω	200Ω	2kΩ	20kΩ	200kΩ	2MΩ	20MΩ	
		TR2305A N/A						TR2305B N/A		TR2305 only	TR2305+ only	
Basic Meas. Accuracy		0.05% (For detailed information , refer to the instruction manual)										
Resistance Meas. Time		Fast : 10mS Med : 24mS Slow 1 : 110ms Slow 2 : 450ms										
Temp. Meas. Time		100 ± 10mS										
Test Terminal		4-Wire										
Low Voltage Measurement		Open circuit voltage : ≤40mV Effective range : 2Ω 20Ω 200Ω 2kΩ Except : TR2305B										
Thermo Electromotive Force Elimination		√										
Statistics Function		Average, Max, Min, Total standard deviation, Sampling standard deviation, Engineer capability index Dispersion Cp, Bias, CpK)										
Setting Data Storage		30 groups										
Tempertaure Meas.		Sensor : Pt100, Pt500, Range -10°C ~ 299.9°C, Display : - 99.9°C ~ 999.9°C (only TR-2305, TR-2305+)										
Other Functions		Temperature compensation function, Tempertaure conversion function										
Comparator	Signal O/P	HI/IN/LO										
	Beep	Beep mode : OFF, IN, HI/LO										
	Limit set-up	10 grids, absolute upper/lower limits, % upper/lower limits +normal value										
Interface		USB Deivce, USB Host, RS232, LAN, HANDLER, GPIB (Option)										
Working Environment		Tempertaure : 0 ~ 40°C, Humidity : ≤80%RH										
Storage Environment		Tempertaure : -10 ~ +40°C, Humidity : ≤90%RH										
Input Power		99 ~ 240Vac 47.5 ~ 63Hz										
Dimension (WxHxD)		215x88x335 mm.										
Weight		3.6 kg.										