

Resistance Meter

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	4 1/2 digit			
Measurement Range	1 $\mu\Omega$ ~ 2M Ω	10 $\mu\Omega$ ~ 200k Ω	1 $\mu\Omega$ ~ 20k Ω	1 $\mu\Omega$ ~ 20M Ω
Resistance Range	20m Ω 200m Ω 2 Ω 20 Ω 200 Ω	2k Ω 20k Ω 200k Ω	2M Ω 20M Ω	20M Ω
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 \pm 10ms			
Test Terminal	4-Wire			
Low Voltage Measurement	Open circuit voltage : \leq 40mV Effective range : 2 Ω 20 Ω 200 Ω 2k Ω Except : TR2305B			
Thermo Electromotive Force Elimination	\checkmark			
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			
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 : \leq 80%RH			
Storage Environment	Tempertaure : -10 ~ +40°C, Humidity : \leq 90%RH			
Input Power	99 ~ 240Vac 47.5 ~ 63Hz			
Dimension (WxHxD)	215x88x335 mm.			
Weight	3.6 kg.			