

Resistance Tester

High-Precision DC Resistance Meter TR-2301 Series

Product description:

4.3-inch 24-bit true color LCD screen maximum sampling rate of 100 times/second, 5½digit high-resolution measurement result display, maximum resistance accuracy 0.01%, test range 0.1μΩ up to 2GΩ, temperature accuracy: 0.1°C; intelligent detection of test state faults; R, LPR, T and other test function combinations support PT100 and PT500 temperature sensors, low voltage test mode to effectively protect the DUT, temperature compensation function (TC), off-set voltage compensation function (OVC), user self-calibration function (Zero : 0 ADJ) statistical function, providing CpK, Cp and other statistical quantities, screenshot function, data recording and parameter saving function, simultaneous output of 10 level comparison results (out of limit, qualified and alarm), Handler interface for online operation



Features

- 4.3 inch 24-bit true color LCD screen 480×272 resolution.
- The maximum sampling rate is about 100 times/second
- 5½ Digit high-resolution measurement result display
- Highest resistance accuracy: 0.01%, minimum resolution: 0.1μΩ
- Intelligent detection of test status faults
- Supports PT100 and PT500 temperature sensors
- Low voltage test mode, effectively protecting the device under test
- Statistical function, providing statistics such as CpK, Cp, etc.
- Screen capture function, data recording and parameter saving function
- Handler interface is used to implement online operations
- Simultaneously output 10-level comparison results (out of limit, qualified and alarm)
- Handler interface is used to implement online operations
- Test range up to 2GΩ
- Basic temperature accuracy: 0.1°C
- R, LPR, T and other test function combinations
- Offset voltage compensation function (OVC)
- Temperature compensation function (TC)
- User self-calibration function (OADJ)

Ordering Informations

TR-2301 : 0.1μΩ ~ 110MΩ DCR Meter

TR-2301+ : 0.1μΩ ~ 2000MΩ DCR Meter

Standard Accessories :

- User Manual
- Four-terminal Test Lead
- Power cord
- Temperature sensor

Specifications

Model	TR-2301	TR-2301+
Display	24-bit true color LCD screen 480×272 resolution	
Reading Digits	5½ Digits	
Measurement Range	0.1μΩ ~ 110MΩ	
Resistance Range	20mΩ 200mΩ 2Ω 20Ω 200Ω	0.1μΩ ~ 2000MΩ
	1A 100mA 10mA 1mA 100μA 10μA 1μA 100nA ≤100nA	TR2301 only TR2301+ only
Basic Meas. Accuracy	0.01% (For detailed information , refer to the instruction manual)	
Resistance Meas. Time	Fast : 7mS Med : 22mS Slow 1 : 102ms Slow 2 : 402ms	
Temp. Meas. Time	50 ± 10mS	
Test Terminal	4-Wire	
Low Voltage Measurement	Open circuit voltage : ≤60mV Effective range : 2Ω 20Ω 200Ω 2kΩ	
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	
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.	