Micro Signal Type Tester

II. TH2515 DC Resistance Meter

Features

- Maximum accuracy: 0.01%
- Temperature accuracy: 0.1℃
- Minimum resolution: 0.1uΩ (resistance)
- Low-resistance test mode can effectively protect DUT
- Multiple measurement combinations of R, LPR, T
- 24 bits, 4.3-inch and 4-wire touch LCD screen
- LCD resolution: 480×272
- Temperature compensation(TC)
- Temperature conversion(Δt)
- Maximum sampling rate: 100samps/sec
- Offset voltage compensation (OVC)
- Customer self-correction(0 ADJ)
- Simultaneously output compare results of 10 bins (OVER, PASS and BEEP)
- Statistics function: CpK, Cp
- 30 groups of parameter files can be saved and loaded
- Screen information can be stored on U-disk
- Data save function brings convenience for saving measurement result
- Automatically update operation software through USB HOST
- Operation languages: Chinese and English
- Intelligent detection for test state error
- Flexible and convenient file operation system
- Handler interface realizes on-line operation.
- Interfaces such as RS232, USB HOST, USB Device and LAN are available and GPIB is optional.
- Compatible with LXI C standard Specifications

RS232	USB HOST	USB DEVICE	HANDLER	LAN	GPIB
standard	standard	standard	standard	standard	option

TH2515

Rack mount（mm）:215(W)×88(H)×335(D)
Dimension （mm）:235(W)×105(H)×360(D)
Weight:3.6kg

Application

- Components

Resistor, inductor, transformer, motor, relay, circuit solder joint, capacitor riveting point

- Cables, connectors

Strand wire, connectors, switches

- Material

Heat-sensitive materials (fuses, sensor for thermistors), conductive materials such as metal foil

- New energy

Electric vehicle battery pack connecting bridge, battery connection resistor

Brief Introduction

- On the basis of rich experience in impedance test and wide market research, now Tonghui launches a new touch screen meter---TH2515 DC Resistance meter. TH2515, with elegant appearance, easy operation and excellent performance, is comparable to the most advanced products in the market.

TH2515 adopts 32 bits CPU and high density SMD technology. 24 bits, 4.3-inch and touch LCD screen brings ease for your eyes and convenience to your operation. For the contact influence of the thermoelectricity on DUT, its elimination is achieved. The maximum 0.01% accuracy and minimum 0.1 μΩ resolution shore up its leading role in testing relay contact resistance, interconnecting resistance, conductor resistance, PCB resistance and welding-hole resistance. Temperature compensation and conversion functions make your tests be free from the effect of the environment temperature. The offset voltage compensation has effectively eliminated the electromotive force of the DUT and its contact potential difference. Automation on production lines can be greatly improved by the realization of ultra-high test speed and the signal output of 10 compare results through HANDLER interface.

Providing 1 optional interface---GPIB and 4 standard ones---RS232C, USB HOST, USB Device and LAN, TH2515 is able to make data communication with PC and further realizes remote control.

Specifications

Model	TH2515		
Display			
Display	24-bit, 400 X 272 and touch TFT LCD screen		
Reading digits	5 ½ digits		
Resistance measurement			
Measurement range	0.1μΩ --110MΩ		
Resistance range	Current	Resolution	*Accuracy±(ppm of Rd + ppm of Fs)
20 mΩ	1A	0.1μΩ	2500+10
200mΩ		1μΩ	2500+10
200mΩ	100mA	1μΩ	3500+10
2Ω	100mA	10μΩ	350+10
Model	TH2515		

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20Ω	10mA	100μΩ	250+10
200Ω		1mΩ	100+10
2kΩ	1mA	10mΩ	100+10
20kΩ	100μA	100mΩ	100+5
100/200kΩ		1Ω	100+30
1/2MΩ	10μA	10Ω	200+10
10MΩ	1μA	100Ω	1000+60
100MΩ	100nA	1kΩ	8000+600

Measurement function		
Resistance measurement time		FAST: 7ms; MED: 22ms; SLOW1: 102ms; SLOW2: 402ms Above data is correct when DISPLAY is OFF; When DISPLY is ON, 20ms should be added.
Temperature measurement time		100 ± 10ms
Test terminal		4-terminal
Average setup		1-255
Zero clearing		√
Range switch		AUTO and Manual
Trigger mode		Internal, Manual, External, BUS
Power frequency selection		√ (avoid the interference of the power noise)
Setting data storage		30 groups
Low voltage measurement		Open voltage≤ 60mV Effective range: 2Ω, 20Ω, 200Ω, 2kΩ
Thermal electromotive force elimination		√
Statistics function		AVG, MAX, MIN, OSD(Overall standard deviation), SSD(Sample standard deviation), Process capacity index (Cp, CpK)
Measurement error detection		√ (Detect the measurement cable has been connected correctly or not.)
Multipole connector		√ (Noise abatement function of high-resistance is optional)
Beep state		Comparator, Bin compare, Button
Key lock		√
Temperature measurement		
Temperature measurement1		-10.0℃--99.9℃ Sensor：PT500
Temperature measurement2		Analog input：0V--2V Display：-99.9℃ -- 999.9℃
Temperature compensation		(Convert the resistance measurement value to that one measured under preset temperature)
Temperature		(Temperature rising is gained from resistance test values before and after warming)
Compare Judge		
Comparator	Signal output	HI/IN/LO
	Beep	Beep mode：OFF，IN，HI/LO
	Limit setup mode	Absolute value high/low limit, Percentage high/low limit +nominal value
Sorting		10 bins, absolute value/ percentage
External trigger delay time		AUTO: dependent on range, low voltage mode ON/OFF, OVC (offset voltage compensation) ON/OFF MANUAL: 0.000--9.999s
External input trigger		Rising/Falling edge
Interface		
Interface		USB DEVICE，USB HOST，RS232C，HANDLER，GPIB（OPTION）
General specification		
Working condition		Temperature:0℃ - 40℃，Humidity:≤ 80%RH
Storage condition		Temperature:-10℃-50℃,Humidity: ≤90%RH
Accuracy guarantee condition		Temperature:18℃ - 28℃，Humidity:≤ 80%RH
Power	Voltage	99V—242V
	Frequency	47.5Hz—63Hz
Consumption		30 VA
Dimension		215mm×87mm×335mm（net size） 235mm×105mm×360mm（with foam sheath）
Weight		Approx. 3.6kg

*: the accuracy is guaranteed under certain environmental and test conditions:temperature of 18℃-28℃,humidity is ≤ 80%RH,test speed is SLOW2 and OVC function is ON(see details in Manual).

Standard Accessories

Three core power cord TH26050S Four-terminal test cable PT500 temperature sensor