Micro Signal Type Tester

II. TH2515 DC Resistance Meter

Features

Maximum accuracy: 0.01%Temperature accuracy: 0.1°C

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



		USB DEVICE			GPIB
standard	standard	standard	standard	standard	option

TH2515

Rack mount $(mm):215(W)\times88(H)\times335(D)$ Dimension $(mm):235(W)\times105(H)\times360(D)$ 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 $\mu\Omega$ 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	TH2515					
Display							
Display	24-bit, 400 X 272 and tou	24-bit, 400 X 272 and touch TFT LCD screen					
Reading digits	5 ½ digits	5 ½ digits					
Resistance measurement							
Measurement range	0.1μΩ110ΜΩ	0.1μΩ110ΜΩ					
Resistance range	Current	Resolution	*Accuracy±(ppm of Rd + ppm of Fs)				
20 mΩ	1A	0.1μΩ	2500+10				
200 mΩ	TA .	1μΩ	2500+10				
200 mΩ	100mA	1μΩ	3500+10				
2Ω	100mA	10μΩ	350+10				
Model	TH2515						

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20Ω		10mA	100μΩ	250+10		
200 Ω		TOTIA	1m Ω	100+10		
2k Ω		1mA	10m Ω	100+10		
20k Ω		100μΑ	100m Ω	100+5		
100/200kΩ			1Ω	100+30		
1/2M Ω		10μΑ	10Ω	200+10		
10M Ω		1μΑ	100Ω	1000+60		
100M Ω		100nA	1kΩ	8000+600		
Measuremer	nt function					
Resistance	nt time	FAST: 7ms; MED: 22ms; SLOW1: 102ms; SLOW2: 402ms				
	measurement time 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	е	Internal, Manual, External, BUS				
Power frequency selection		√ (avoid the interference of the power noise)				
Setting data		30 groups				
storage Low voltage measurement		Open voltage≤ 60mV Effective range: 2Ω, 20Ω, 200Ω, 2kΩ				
		Ellective range: Z52, Z052, Z0052, ZK52				
Thermal electromotive force elimination		√				
Statistics function		AVG, MAX, MIN, OSD(Overall standard deviation), SSD(Sample standard deviation), Process capacity index (Cp, CpK)				
	asurement error detection √ (Detect the measurement cable has been connected correctly or not.)					
Multipole co		√ (Noise abatement function of h		,		
Beep state		Comparator, Bin compare, Button				
Key lock		√				
Temperature	e measurement					
Temperature measurement1		-10.0°C99.9°C Sensor: PT500				
Temperature measurement2		Analog input: 0V2V Display: -99.9°C 999.9°C				
Temperature compensation		(Convert the resistance measurement value to that one measured under preset temperature)				
Temperature		(Temperature rising is gained from	n resistance test values before and aff	ter warming)		
Compare Ju				<u> </u>		
	Signal output	HI/IN/LO				
Comparator	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: 0.0009.999s				
External input trigger		Rising/Falling edge				
Interface						
Interface		USB DEVICE, USB HOST, RS232C, HANDLER, GPIB (OPTION)				
General spe	cification					
Working condition		Temperature:0°C - 40°C, Humidity:≤ 80%RH				
Storage condition		Temperature:-10°C-50°C,Humidity: ≤90%RH				
Accuracy guarantee condition		Temperature:18°C - 28°C, Humidity:≤ 80%RH				
Power	1 3 4 14	99V—242V				
Power	Voltage					
Power	Voltage Frequency	47.5Hz—63Hz				
Power Consumption	Frequency	30 VA				
	Frequency		e) 235mm×105mm×360mm (w	vith foam sheath)		

^{*:} the accuracy is guaranteed under certain environmental and test conditions:temperature of 18° C- 28° C, humidity is $\leq 80\%$ 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