

STB5516 Series DC Resistance Meter



Features

- Maximum resistance accuracy: 0.05%
- Temperature accuracy: 0.2°C
- Minimum resolution: 1uΩ
- 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(∆t)
- Maximum sample rate: 50samps/sec
- Offset voltage compensation (OVC)
- Customer self-correction(0 ADJ)
- Simultaneously output compare results of 3 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
- Flexible and convenient file operation system
- Handler interface realizes on-line operation
- Achieve data communication with PC and remote control through interfaces such as RS232, USB HOST, USB Device

Brief Introduction

On the basis of rich experience in impedance test and wide market research, now Saluki Technology launches the new DC impedance measurement instrument with touch and LCD screen --- STB5516 DC Resistance meter. STB5516, with elegant appearance, easy operation and excellent performance, is comparable to the most advanced products in the market. STB5516 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. The maximum 0.05% accuracy and minimum 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. For the contact influence of the thermoelectricity on DUT, its elimination is achieved. Automation on production lines can be greatly improved by the realization of ultra-high test speed and the signal output of 3 compare results through HANDLER interface.

Specifications

Model	STB5516		STB5516A		STB5516B					
Display										
Display	24-bit, 480 X 272 and touch TFT LCD screen									
Reading digits	4½ digits									
Resistance measurement										
Measurement range	1μΩ – 2ΜΩ			10μΩ – 200kΩ			1μΩ - 20kΩ			
Resistance range	Current	Resolution	Accuracy Rd%+digits	Current	Resolution	*Accuracy Rd%+digits	Current	Resolution	*Accuracy Rd%+digits	
20 mΩ	1A	1μΩ	0.100+3				1A	1μΩ	0.100+3	
200mΩ	100mA	10μΩ		100m A	10μΩ		100mA	10μΩ	- 0.1+2	
2Ω		100μΩ		100mA	100μΩ			100μΩ		
20Ω	10mA		0.05+2	10mA	1mΩ	0.05+2	10mA	1mΩ		
200Ω	1mA			1mA	10mΩ		1mA	10mΩ		
2kΩ	100µA	100mΩ		100µA	100mΩ		100µA	100mΩ		
20kΩ		1Ω			1Ω			1Ω		
200kΩ	10µA	10Ω		10µA	10Ω					
2ΜΩ	1µA	100Ω	0.2+2							



Measurem	ent function	١							
Resistance measurem		FAST:10ms; MED:25ms; SLOW1:115ms; SLOW2:455ms Above data is correct when DISPLAY is OFF; when DISPLAY is ON, 20ms should be added.							
Temperatu measurem		100 ± 10ms							
Test termin	nal	4-terminal							
Average s	etup	1255							
Zero clear	ing	√ ·							
Range swi	itch	Auto, Manual							
Trigger mo	ode	Internal, Manual, External, BUS							
Power free selection	quency	$\sqrt{ ext{(avoid the interface of the power noise)}}$							
Setting dar storage	ta	30 groups							
Low voltag		Open voltage: \leq 40mV Effective range: 2Ω , 20Ω , 20Ω , $2k\Omega$							
Thermal electromotive force elimination		√							
Statistics f	unction	AVG, MAX, MIN, OSD (Overall standard of	AVG, MAX, MIN, OSD (Overall standard deviation), SSD (Sample standard deviation), Process						
Beep state)	Comparator, Button							
Key lock		V							
Temperatu	ire measure	ement							
Temperatu measurem		-10.0℃99.9℃ Sensor: PT500							
Temperature measurement2		Analog input: 0V2V Display: -99.9℃ 999.9℃							
Temperature compensation		√ (convert the resistance measurement value to that one measured under preset temperature)							
Temperature switch		√(temperature rising is gained from resistance test values before and after warming)							
Compare .	Judge								
	Signal output	HI/IN/LO							
Comparator	Веер	Beep mode: OFF, IN, HI/LO							
Comparator	Limit setup mode	Absolute value high/low limit, Percentage high/low limit +nominal value							
Sorting		3 bins, absolute value/percentage							
		Auto: dependent on range, low voltage mode ON/OFF, OVC (offset voltage compensation) ON/OFF Manual: 0.0009.999s							
External input trigger		Rising/Failing edge							
Interface									
Interface		USB DEVICE, USB HOST, RS232C, HAN							
- '	oecification								
Working o		Temperature:0℃ - 40℃, Humidity:≤ 80%RH							
Storage c	ondition	Temperature:-10℃ - 50℃, Humidity:≤ 90%RH							
Accuracy guarantee condition		Temperature:18℃ - 28℃, Humidity:≤ 80%RH							
Power	Voltage Frequency	99V—121V,198V—242V 47.5Hz—63Hz							
Consumption		30 VA							
Dimension		215mm×89mm×360mm (rackmout size) 235mm×104mm×360mm (with foam sheath)							
Weight		Approx.3.6kg	wij						
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^{*:} the accuracy is guaranteed under certain environmental and test conditions:temperature of $18^{\circ}-28^{\circ}$, humidity is $\leq 80^{\circ}$ RH,test speed is SLOW2 (see details in Manual).

Standard accessories

Power cord

SBF0050S Four-terminal test cable

PT500 Temperature sensor (only for STB5516)