

# STB5518 DC Resistance Meter

### **Features**

- 4.3 inch 24-color touch LCD screen with 480 × 272 resolution
- Chinese and English optional operation interface
- Up to 90-channel resistance/temperature scan tests
- Support 6 units for free insertion and removal, simultaneous measurement between test units
- Maximum test speed can reach 600 times / sec
- Maximum resistance accuracy: 0.05%, minimum resolution: 10uΩ
- Basic temperature accuracy: 0.2 °C
- The adopted test end of the scan test channel is programmable
- Compatible with scanning and stand-alone measurement modes
- Temperature measurement can support PT100, PT500 and analog voltage three temperature sampling methods
- Temperature compensation function (TC)
- One-click screen capture function
- Data logging function
- Automatic upgrade of instrument operating software via USB HOST
- Comparison sort results of channel, board and machine-level can be output
- Handler interface for online operations



RS232	USB HOST	USB DEVICE	HANDLER	LAN	
standard	standard	standard	standard	standard	
Foot quitch					

Dimension(mm):280(W)×88(H)×440(D) Weight:7.5kg

## **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

## **Specifications**

Model         STB5518         STB5518A           Measuring parameters         DC resistance, temperature         DC resistance           Resistance test range         10μΩ — 200kΩ           Basic resistance range         Auto and manual (200mΩ, 2Ω, 20Ω, 20Ω, 20Ω, 20kΩ, 20kΩ, 20kΩ)           Resistance range         Auto and manual (200mΩ, 2Ω, 20Ω, 20Ω, 20Ω, 20kΩ, 20kΩ, 20kΩ)           PT500 platinum resistance, PT100 platinum resistance, analog voltage input Temperature test range         ————————————————————————————————————				
Resistance test range $10\mu\Omega - 200k\Omega$ Basic resistance test accuracy $0.05\%$ Resistance range       Auto and manual $(200m\Omega, 2\Omega, 20\Omega, 200\Omega, 2k\Omega, 20k\Omega, 20k\Omega)$ Temperature sensor type       PT500 platinum resistance, PT100 platinum resistance, analog voltage input Temperature test range	Model	STB5518	STB5518A	
Basic resistance test accuracy       0.05%         Resistance range       Auto and manual (200mΩ, 2Ω, 20Ω, 200Ω, 20kΩ, 20kΩ, 20kΩ)         Temperature sensor type       PT500 platinum resistance, PT100 platinum resistance, analog voltage input Temperature test range	Measuring parameters DC resistance, temperature		DC resistance	
Resistance range       Auto and manual (200mΩ, 2Ω, 20Ω, 200Ω, 20kΩ, 20kΩ, 20kΩ, 200kΩ)         Temperature sensor type       PT500 platinum resistance, PT100 platinum resistance, analog voltage input Temperature test range	Resistance test range	$10\mu\Omega$ — $200$ kΩ		
Temperature sensor type  PT500 platinum resistance, PT100 platinum resistance, analog voltage input Temperature test range  Temperature test range  PT100,PT500:-10°C — 99.9°C, Analog:0V — 2V  Temperature test accuracy  PT100, PT500:0.3%*measured value ±0.5°C, Analog:±1%Rd ± 3mV  Measurement mode  Stand-alone, scanning  Scanning channels  Scanning channels  Test terminal selection of test channel  Arbitrary configuration between channels (programmable)  Test current  ≤100mA  Measurement speed  ingle board: 100 times / sec, 40 times / sec, 2 times / sec, 6 boards: 600 times / sec, 240 times / sec, 12 times / sec  Temperature compensation  Display results  Simultaneous display the test results of 16 channels and support page turning  Short-circuit clear correction  Comparators  Comparison boundaries are set separately for each test channel  Limit mode  ABSDev, ABS, %  Trigger mode	Basic resistance test accuracy	0.05%		
Temperature sensor type resistance, analog voltage input Temperature test range  PT100,PT500:·10°C — 99.9°C, Analog:0V — 2V  Temperature test accuracy  PT100, PT500:·0.3%*measured value ±0.5°C, Analog:±1%Rd ± 3mV  Measurement mode Stand-alone, scanning Scanning channels Scanning selection of test channel Test terminal selection of test channel Test current  Arbitrary configuration between channels (programmable)  Test current  Measurement speed ingle board: 100 times / sec, 40 times / sec, 2 times / sec, 6 boards: 600 times / sec, 240 times / sec, 12 times / sec  Temperature compensation  Display results Simultaneous display the test results of 16 channels Comparators Comparison boundaries are set separately for each test channel Limit mode ABSDev, ABS, % Trigger mode  Auto trigger, manual trigger, bus trigger, Handler trigger, foot switch trigger	Resistance range	Auto and manual (200m $\Omega$ , 2 $\Omega$ , 20 $\Omega$ , 200 $\Omega$ , 2k $\Omega$ , 20k $\Omega$ , 200k $\Omega$ )		
Temperature test accuracy  PT100, PT500:0.3%*measured value ±0.5°C, Analog:±1%Rd ± 3mV  Stand-alone, scanning  Scanning channels  15 channels/boards, and up to 6 boards and 90 channels can be inserted. The board channel is for scanning test, and it is synchronous test between the test boards.  Test terminal selection of test channel  Arbitrary configuration between channels (programmable)  Test current  ≤100mA  Measurement speed  ingle board: 100 times / sec, 40 times / sec, 2 times / sec, 6 boards: 600 times / sec, 240 times / sec, 12 times / sec  Temperature compensation  √  □  Display results  Simultaneous display the test results of 16 channels and support page turning  Short-circuit clear correction  Comparators  Comparison boundaries are set separately for each test channel  Limit mode  ABSDev, ABS, %  Trigger mode  Auto trigger, manual trigger, bus trigger, Handler trigger, foot switch trigger	Temperature sensor type	resistance, analog voltage input		
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	Limit mode	ABSDev, ABS, %		
Tout terminal	Trigger mode	Auto trigger, manual trigger, bus trigger, Handler trigger, foot switch trigger		
rest terminal Four-terminal test	Test terminal	Four-terminal test		
Storage 30 sets of instrument parameters	Storage	orage 30 sets of instrument parameters		

#### **Standard Accessories**

Three-core power line SBF0050S Four-terminal test cable

PT500 temperature sensor (only for STB5518) 40-core flat cable