

Resistance Tester

F. TH2518 Series Resistance/ Temperature Scanner

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

Specifications

Model	TH2518	TH2518A
Measuring parameters	DC resistance, temperature	DC resistance
Resistance test range	10μΩ — 200kΩ	
Basic resistance test accuracy	0.05%	
Resistance range	Auto and manual (200mΩ, 2Ω, 20Ω, 200Ω, 2kΩ, 20kΩ, 200kΩ)	
Temperature sensor type	PT500 platinum resistance, PT100 platinum resistance, analog voltage input Temperature test range	-----
Temperature test range	PT100,PT500:-10℃ — 99.9℃, Analog:0V — 2V	-----
Temperature test accuracy	PT100, PT500:0.3%*measured value ±0.5℃, Analog:±1%Rd ± 3mV	-----
Measurement mode	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	Support full-scale short-circuit clearing for all 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	
Test terminal	Four-terminal test	
Storage	30 sets of instrument parameters	

Standard accessories

Three-core power line
TH26050S Four-terminal test cable



Standard RS232 ☒ USB DEVICE ☒ USB HOST ☒ HANDLER ☒ LAN ☒

Option Foot switch ☐

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