

Resistance Tester

F. TH2683A/B Insulation Resistance Meter

Features

- Test voltage range: 1-1000V(TH2683A)
1-500V(TH2683B)
- Insulation resistance test range: 100KΩ-10TΩ
- Insulation resistance, leakage current dual display
- 24-bits, 4.3-inch and 4-wire touch LCD screen
- LCD resolution: 480*272
- Zero clearing function
- Contact detection function for capacitive components
- Fast test: 30ms
- Programmable sequence test mode
- 6 ranges, manual or auto range mode
- 4-bin comparison function: 3 bins for PASS, 1 bin for FAIL
- 20 setup files can be stored in the internal memory, support U-disk
- Measurement data can be stored on U-disk
- Automatically upgrade firmware by a disk
- Selectable Chinese and English operation interfaces
- Handler interface realizes on-line operation
- Achieve remote control by RS232C and USB Device interface
- Footswitch trigger function



TH2683A/TH2683B

Brief Introduction

■ With touch, color LCD screen and unique insulation resistance/leakage current dual test function, TH2683A/TH2683B insulation resistance meter is an intelligent measurement instrument that is used for rapid measurements on insulating properties of electronic parts and components (especially the capacitance), dielectric material, equipments, wires, cables, etc. TH2683A/TH2683B is provided with sorting output and external single pulse signal input interface, making it easy for pipeline operation. The equipped communication interface can achieve the off-site operations of all functions of the instrument through microcomputer. The instrument has a powerful anti-jamming capability, which makes the measurement more reliable.

Specifications

Model	TH2683A	TH2683B
Resistance test		
Test range	100kΩ–10TΩ	
Test accuracy	I>10nA :±2% I≤10nA :±5%	
Current test		
Test range	Range 1: 100uA - 1mA, internal input impedance 10kΩ	
	Range 2: 10uA - 100uA, internal input impedance 10kΩ	
	Range 3: 1uA - 10uA, internal input impedance 10kΩ	
	Range 4: 100nA - 1uA, internal input impedance 10kΩ	
	Range 5: 10nA - 100nA, internal input impedance 1MΩ	
	Range 6: 1nA - 10nA, internal input impedance 1MΩ	
Test accuracy	2%±3pA	
Test voltage		
Range	1V–1000V	1V–500V
Accuracy	Voltage≥10V: 1%±1V Voltage<10V: 10%±0.1V	
Current limit	10mA	
ON/OFF	Manually turn on or off it on front panel, or controlled by built-in timer, or by remote control	
Charge time	0–999s programmable	
Measurement delay	0–999s programmable	
Measurement speed	Fast: single measurement time≤30ms Slow: single measurement time≤60ms	
Comparator function	4 bins: 3 bins for PASS, 1 bin for FAIL	
Range mode	Auto, Hold	
Memory	Internal memory and external USB disk	
Standard interface	RS232C,USB HOST,USB DEVICE,HANDLER	

General Specifications

Operating Temperature And Humidity	0°C - 40°C, ≤90%RH	
Power Requirements	Voltage	90–121 V AC (60Hz) or 198–242V AC (50Hz)
	Frequency	47.5Hz - 52.5Hz
Power Consumption	< 50 VA	
Dimensions (W×H×D)	235mm×104mm×360mm	
Weight	Approx.3.6kg	