

Micro Signal Type Tester

II. TH2692 Insulation Resistance Tester

Features

- 5-inch capacitive touch screen, 800 x 480 resolution
- Chinese and English user interface
- Up to 1000V adjustable test voltage, maximum 2.4mA test current
- 10kΩ-100GΩ resistance test range
- Fastest single test about 50ms
- Resistance and current can be sorted and evaluated
- Four-terminal contact test function
- Short circuit test function (battery micro short circuit test)
- 16 test files for quick switching between different test conditions
- Interface: USB DEVICE, RS232C, EXT.I/O, Analog Output, USB-HOST



RS232	USB HOST	USB DEVICE	Analog Output	EXT.I/O
standard	standard	standard	standard	standard

Dimension(mm): 215(W)×89(H)×154(D) Weight: 1.9kg

Application

- Material Characterization Test
Semiconductors, nanomaterials, polymer materials, dielectric materials, electrochemical materials, ferroelectric materials, graphene, ceramics, biomaterials, rubber, thin films, metals, organic materials, etc.
- Leakage current and insulation resistance testing of electronic components
Capacitors, resistors, diodes, transistors, sensors, TFT and CNT types, optoelectronic devices, nano devices, solar cells, switches, relays, etc.
- New Energy Batteries
Battery cell micro-short test, insulation resistance test
- I-V characterization of semiconductors and other devices

Specifications

Models		TH2692			
Display	Monitor	5-inch capacitive touch screen, with Chinese and English language user interface			
	Measurement Resolution	3 ¾			
Resistance Measurement	Measurement Range	10kΩ - 100GΩ			
	Measurement Accuracy	I > 100nA	±2% reading		
		10nA < I ≤ 100nA	±5% reading		
		1nA < I ≤ 10nA	±25% reading		
Display Resolution	R < 1GΩ	3 ¾ digit			
	1GΩ ≤ R < 10GΩ	2 decimal places			
	R ≥ 10GΩ	1 decimal place			
Voltage Output	Setting Range	25V - 1000V			
	Setting Resolution	1V			
	Output Accuracy	1%set voltage ±1V			
	Reading Accuracy	1%set voltage ±1V			
	Display Resolution	25V ≤ set voltage < 40V	0.01V		
40V ≤ set voltage < 400V		0.1V			
400V ≤ set voltage ≤ 1000V		1V			
Current Measurement	Range	2mA	200μA	20μA	2μA
	Test Range	220μA - 2.4mA	22μA - 220μA	2.2μA - 22μA	0 - 2.2μA
	Display Resolution	3 ¾			
Test Speed	Range	2mA	200μA	20μA	2μA
	Fast	30-50ms			80ms
	Medium	200ms			
	Slow	500ms			
Comparator Functions		Upper and lower resistance limits, upper and lower current limits			
Ranges		Auto, 2mA, 200μA, 20μA, 2μA			
Interfaces		RS232C, USB DEVICE, USB HOST, EXT.I/O, Analog			
Memory Capacity		Up to 16 test files inside the instrument			
Operating Temperature and Humidity		0°C - 40°C, ≤80%RH			
Power Supply		AC: 90V-121V (60Hz) or 198V-242V (50Hz) , 50/60Hz			
Power		25VA			