

# New Products

## IV. TH9130S/TH9131S Series Multifunction Safety Compliance Analyzer



### Features

- 7-inch capacitive touch screen, 800 x 480 resolution Linux operating system, Chinese and English interface
- Five-in-one integrated test system, single machine to achieve all the safety testing needs:
  - 1) High Power AC Withstand Voltage Test
  - 2) DC Withstanding Voltage Test
  - 3) Insulation Resistance Test
  - 4) Ground Resistance Test
  - 5) Conductivity test
- 500VA power AC withstand voltage design
- Insulation resistance test up to 6kV
- Hardware contact check (CK) function
- Open Short Circuit Detection OSC
- Arc detection ARC function
- Crash voltage test function
- Four/eight channel output
- Single screen displays test mode, time, voltage, current, resistance value, and test steps
- List display function: Simultaneously display test results of multi-step setup and sequential execution
- Storage: 100 files, 50 steps / file



RS232	USB HOST	USB DEVICE	HANDLER	LAN
standard	standard	standard	standard	standard

### TH9130S Series

Dimension(mm):430mm(W)x132mm(H)x550mm(D)  
Weight: 40kg

### Application

- Comprehensive electrical performance test analysis of household electrical
- Lighting Appliance Comprehensive Test and Analysis
- Comprehensive analysis and testing of electric motors
- Test and analysis of high-power electrical appliances
- Comprehensive test and analysis of electronic parts

### Specifications

Model		TH9130S				TH9131S				
Scanning module		TH9130S-004	TH9130S-001	OTH9130S-02	TH9130S-003	TH9130S-004	TH9130S-001	TH9130S-002	OTH9130S-03	
Functions & Channels	High voltage:ACW, DCW, IR	4	8	8	☑	4	8	8	☑	
	CK Contact Check	☑	☑	☑	☑	☑	☑	☑	☑	
	Ground resistance (GB)	Channel	4	8	☑	8	4	8	☑	8
		Wire	Four-wire	Two-wire	☑	Four-wire	Four-wire	Two-wire	☑	Four-wire
	Conduction	☑	☑	☑	☑	☑	☑	☑	☑	
Pressure Resistance Test										
Output Voltages	AC	Range	0.05 - 5.0kV							
		Waveform	50/60Hz±0.1% Sine wave							
		Output power	500VA (5.0kV/100mA) 200VA							
	DC	Range	0.05 - 6.0kV							
		Output power	150VA (6.0kV/25mA) 120VA							
		Load variation rate	± (1% set value+10V) (Rating power)							
	resolution	2V								
	accuracy	± (1% set value+5V)								
current test	AC	Range	V≤4kV	0.001mA - 120mA				0.001mA -40mA		
			V>4kV	0.001mA - 100mA				0.001mA -40mA		
		resolution	0.001mA							
		accuracy	120mA	0.1mA-120.0mA				± (1% readout value+0.6mA)		
			30mA	0.01mA-29.99mA				± (1% readout value+0.15mA)		
	DC	Range	V≥1.5kV	0.0001mA - 25mA				0.0001mA - 20mA		
			V<1.5kV	0.0001mA - 20mA				0.0001mA - 20mA		
		resolution	0.1μA							
		accuracy	25mA	0.01mA - 25.00mA				± (1% readout value+0.12mA)		
			3mA	0.001mA - 2.999mA				± (1% readout value+0.015mA)		
	5.1μA	0.1μA-299.9μA				± (1% readout value+1.5μA)				
time setting	Testing time	0.3 - 999s, 0 for continuous test								
	rising time	0.1 - 999s, 0 for closed								
	Falling time	0.1 - 999s, 0 for closed								
	Waiting time	0.1 - 999s, 0 for closed (DC withstanding voltage only)								
Arc detection	AC	1.0mA - 20.0mA				1.0mA - 20.0mA				
	DC	1.0mA - 10.0mA								
Maximum short-circuit current (AC test only)		200mA				80mA				
Fast discharge function		Automatic discharge after test (DCW)								

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### Specifications

Insulation resistance test									
voltage	outputs	DC:0.05 - 6.0kV							
	resolution	2V							
	accuracy	± (1% readout value++5V)							
resistance	Test Range		0.1MΩ - 50.0GΩ						
	Test Accuracy	V≥1kV	1MΩ - 1GΩ	±(3% readout value+1M)					
			1GΩ - 10GΩ	±(7% readout value+0.2G)					
			10GΩ - 50GΩ	±(10% readout value+0.5G)					
	500V≤V<1kV	0.1MΩ - 1GΩ	±(3% readout value+1M)						
		1GΩ - 10GΩ	±(7% readout value+0.2G)						
10GΩ - 50GΩ		±(10% readout value+0.5G)							
time setting	Testing time		0.3 - 999s, 0 for continuous test						
	rising time		0.1 - 999s, 0 for closed						
	Falling time		0.1 - 999s, 0 for closed						
	waiting time		0.1 - 999s, 0 for closed						
Fast discharge function		Automatic discharge after test							
AC Ground Resistance Testing									
Output Current	range	1.00 - 40.00A							
	resolution	0.01A							
	accuracy	± (2% set value+2 words)							
Test Voltage	range	3.00 - 8.00V							
	resolution	0.01V							
	accuracy	± (2% set value+3 words)							
Test Frequency		50/60Hz±0.1%							
Output Adjustment Ratio		± (1% output value++0.02A)							
Resistance Test	range	1.00 - 10.00A	0 - 600mΩ						
		10.01 - 30.00A	0 - 200mΩ						
		30.01 - 40.00A	0 - 150mΩ						
	accuracy	1.00 - 3.00A	0 - 600mΩ± (3% readout value+3 words)						
		3.01 - 10.00A	0 - 600mΩ± (2% readout value+2 words)						
		10.01 - 30.00A	0 - 200mΩ± (2% readout value+2 words)						
30.01 - 40.00A	0 - 150mΩ± (2% readout value+2 words)								
Testing time		0.5 - 999s, 0 for continuous test							
Conductivity Test									
Test Current	0.1A	0.00 - 10.00Ω							
	0.01A	10.1 - 100.0Ω							
	0.001A	101 - 1000Ω							
	0.0001A	1001 - 10000Ω							
Resistance Test Accuracy	0 - 1000Ω	± (1% readout value+3 words)							
	1001 - 10000Ω	± (1% readout value+10 words)							
Testing time		0.3 - 999s, 0 for continuous test							
OSC open/short circuit detection									
Sampling standard capacitance range		0.001 - 40nF							
Open Circuit Judgment Range		10% - 100%							
Short-circuit judgment range		100% - 500%							
Safety and Security Functions									
electric shock protection		0.5mA±0.25mA selectable: On or Off							
Startup Protection Interlock		High-voltage output is allowed only if the pin is connected low							
Panel Operated Protection		key lock							
Alarm indication		Pass: short tone, green light; Fail: long tone, red light							
Synchronized output test for withstand voltage and grounding		5kVac/30mAacand 30Aac/150mΩ							
Storage and Interface									
internal storage		Up to 100 files can be stored and each file can be edited with 50 steps							
Standard Interface		RS232、USB DEVICE、USB HOST、LAN、HANDLER							
Optional Interface		GPIB							
Ambient Temperature & Humidity									
Parameter Comparison Temp.		18°C - 28°C, humidity:30% - 70%RH							
normal operating temperature		0°C - 45°C, humidity:20% - 90%RH							
Storage Ambient Temperature		-10°C - 55°C, humidity:<80%RH							
General Indicator									
power supply		100V - 240VAC, 47Hz - 63Hz							
power		no-load:<100W, Rated power:1200W							
Dimension (W) × (H) × (D)		430mm×132mm×550mm							
Weight	40kg	40kg	40kg	40kg	38kg	38kg	38kg	38kg	