

Safety Tester/Hipot Tester

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
- Lock on fail



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	TH9130S-002	TH9130S-003	TH9130S-004	TH9130S-001	TH9130S-002	TH9130S-003	
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)				
			3mA	0.001mA-2.999mA			± (1% readout value+0.015mA)				
	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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Insulation resistance test										
Voltage	Outputs		DC:0.05 - 6.0kV							
	Resolution		2V							
	Accuracy		±（1% readout value++5V）							
Resistance	Test Range		0.05MΩ - 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)					
V<500V		1MΩ - 1GΩ		±(5% readout value+100V/Vs*10M)						
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℃ - 28℃, humidity:30% - 70%RH							
Normal operating temperature			0℃ - 45℃, humidity:20% - 90%RH							
Storage Ambient Temperature			-10℃ - 55℃, 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