

# Safety Tester/Hipot Tester

## E. TH9120A/D Hipot Tester

### 性能特点

- High voltage: AC 10kV, DC 12kV
- Breakdown voltage test: AC can reach 10kV, DC can reach 12kV; Component voltage stepping (10V) and Normal stepping (divided according to test steps)
- High resolution: 7 inch 800 × 480 dots, TFT-LCD display
- Chinese and English menu operation interface
- ARC detection function
- OSC check function
- One-click screen capture function
- Rear panel output function for automatic test of production line
- Storage: 100 files, up to 50 steps per file
- Pin detection
- Insulation resistance can reach 50G

### Application

- High withstand voltage test  
High-voltage optocouplers, high-voltage relays, high-voltage switches and other high-insulation devices
- Electronic components  
Capacitors, coils, cores, chokes, filters, etc.
- Electrical products  
Household appliances, information products, audio-visual equipment, electric heating appliances, lighting equipment

### 技术参数

Model	TH9120A		TH9120D	
Test mode	AC/OSC		DC/IR	
Withstand voltage test				
Output voltage	AC	Voltage range	0.05-10.0kV	
		Voltage waveform	50/60Hz ±0.1% Sine wave	
		Output power	200VA(10.0kV 20mA)	
	DC	Voltage range	0.05-12.0kV	
Output power		120VA(12.0kV 10mA)		
Load change rate	±(1% set value + 10V) (rated power)			
Voltage resolution	2V			
Voltage accuracy	±(1% set value + 0.1% full scale)			
Current test range	AC	Current range	0.001mA-20mA	
		Current resolution	0.001mA	
		Current accuracy	0.100mA-2.999mA	±(1% reading + 0.5% full scale)
			3.00mA-20.00 mA	±(1.5% reading + 0.5% full scale)
	DC	Current range	0.0001mA-10mA	
		Current resolution	0.1uA	
Current accuracy		±(1% reading + 0.5% full scale)		
Maximum short circuit current	40mA (AC test only)			
Fast discharge function	Automatic discharge after test (DCW)			
Insulation resistance test				
Output voltage	DC:0.05-5.0kV			
Voltage resolution	2V			
Voltage accuracy	±(1% set value + 0.5% full scale)			
Resistance test range	0.1MΩ– 50.0GΩ			

NEW



Standard RS232  USB HOST  USB DEVICE  HANDLER  LAN

Option GPIB

Dimension(mm):430mm(W)x132mm(H)x500mm(D)  
Weight: 21kg

- Non-electrical products  
Withstand voltage and insulation resistance test of wire, non-woven fabric, insulating material, etc.
- New energy vehicles
- Automatic test system

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Resistance test accuracy	Voltage $\geq$ 0.5kV	-----	1M $\Omega$ –1G $\Omega$ $\pm$ (3% reading + 0.1% full scale)
			1G $\Omega$ –10G $\Omega$ $\pm$ (7% reading + 2% full scale)
			10G $\Omega$ –50G $\Omega$ $\pm$ (10% reading + 1% full scale)
	Voltage<500V	-----	0.1M $\Omega$ –1G $\Omega$ $\pm$ (5% reading + 2% full scale)
Arc detection			
Program setting	AC	1.0mA-20.0mA	-----
	DC	-----	1.0mA-10.0mA
OSC open and short detection			
Sampling standard capacitance range		0.001—40nF	-----
Open circuit judgment range		10%—100%	-----
Short circuit judgment range		100%—500%	-----
Time setting			
Test time		0.3—999s, 0 means continuous test	
Rise time		0.1—999s, 0 means OFF	
Fall time		0.1—999s, 0 means OFF	
Waiting time		0.1—999s, 0 means OFF (DC withstand voltage only)	
Safety protection function			
Shock protection		0.5mA $\pm$ 0.25mA Optional: ON or OFF	
Start protection (Interlock)		When the pin is connected with low terminal, high voltage output is allowed.	
Panel operation protection		Key lock, password	
Alarm indication		PASS: short sound, green light; FAIL: long sound, red light	
Storage and interface			
Internal memory		100 files can be stored and 50 steps can be edited in each file	
Standard interface		RS232、USB DEVICE、USB HOST、LAN、HANDLER	
Optional interface		GPIB	
Ambient temperature and humidity			
Parameter comparison temperature		18 $^{\circ}$ C~28 $^{\circ}$ C, Humidity: 30%~70%RH	
Normal working temperature		0 $^{\circ}$ C~45 $^{\circ}$ C, Humidity: 20%~90%RH	
Storage environment temperature		-10 $^{\circ}$ C~55 $^{\circ}$ C, Humidity:< 80%RH	
General specification			
Power supply		100V~240VAC, 47Hz~63Hz	
Power		No load:< 100W Rated power:300W	
Volume		430mm (W) x 132mm (H) x 500mm (D)	
Weight		21kg	