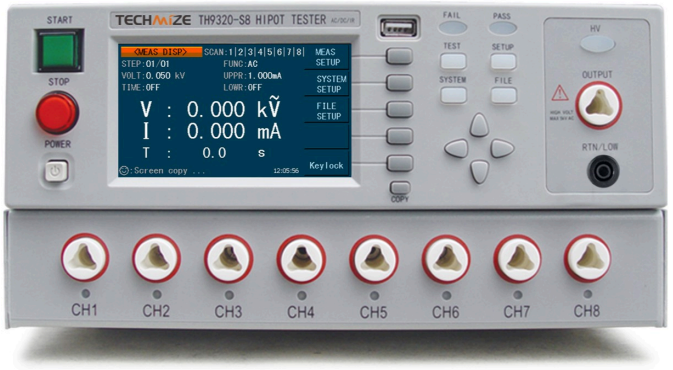
TH9320-S Series

4/8-Channel Scanning AC/DC Withstand Voltage Tester

The TH9320-S series adds built-in high-voltage scanning to the TH9320 platform, so a single instrument can sequence AC/DC withstand-voltage, insulation-resistance and contact-check tests across multiple points on a DUT — or across multiple DUTs — without external switching hardware. It shares the same 480 × 272 colour TFT-LCD, control panel, test performance and operation manual as the TH9320 series. TH9320-S4 provides 4 scan channels; TH9320-S8 provides 8.

Dimensions: 280(W) × 138(H) × 428(D) mm · Weight: 18 kg (both models)



- **AC withstand voltage** 0.05–5.00 kV, up to 20.00 mA, 50/60 Hz selectable
- **DC withstand voltage** 0.05–6.00 kV, up to 10.00 mA
- **Insulation resistance test** 0.10–1.00 kV, 0.1 MΩ–10.0 GΩ
- Built-in **4-channel (TH9320-S4)** or **8-channel (TH9320-S8)** high-voltage scanning
- Programmable contact-check steps verify DUT connection before withstand-voltage testing
- 480 × 272-dot TFT-LCD colour display, English UI
- Rapid discharge and arc detection (ARC)
- Enhanced operator protection: ground-leakage (GFI) shock protection
- 20 stored test files, 20 test steps per file
- Standard RS232, USB Host, USB Device, HANDLER, SIGNAL, PLC; SCPI & MODBUS

Two models, one platform

TH9320-S4

4-channel scanning

Scan channels	4
AC withstand voltage	5 kV / 20 mA
DC withstand voltage	6 kV / 10 mA
Contact check	Yes

TH9320-S8

8-channel scanning

Scan channels	8
AC withstand voltage	5 kV / 20 mA
DC withstand voltage	6 kV / 10 mA
Contact check	Yes

TH9320-S4 and TH9320-S8 share identical test performance, chassis, display and interfaces; they differ only in the number of built-in scan channels. Each channel is sequenced automatically as part of a stored test file, so multi-point DUTs can be tested with a single connection cycle.

Applications

Test & production systems

Automated test systems, electronic components, electrical equipment safety testing.

Consumer & household

Household appliances, electric heating appliances, lighting products.

Industrial & e-mobility

Transformers and motors, new-energy-vehicle components, medical devices.

Technical specifications

Parameter	TH9320-S4	TH9320-S8
Display	480 × 272-dot TFT-LCD, colour	
Scan interface	4 channels	8 channels
AC WITHSTAND VOLTAGE TEST		
Output voltage	0.05 – 5.00 kV, ±(2% reading + 5 V); 50 Hz / 60 Hz selectable	
Current test range	1 µA – 20.00 mA, ±(2% reading + 5 digits)	
DC WITHSTAND VOLTAGE TEST		
Output voltage	0.05 – 6.00 kV, ±(2% reading + 10 V)	
Current test range	0.1 µA – 10.00 mA, ±(2% reading + 5 digits)	
Discharge function	Automatic discharge after test ends (DCW)	
INSULATION RESISTANCE TEST		
Output voltage	0.10 – 1.00 kV, ±2%	
Resistance test range	0.1 MΩ – 10.0 GΩ	
Resistance test accuracy	0.10–999 MΩ: ±(10% rdg + 2 digits) 1.00–10.0 GΩ: ±(20% rdg + 2 digits)	
Discharge function	Automatic discharge after test ends	
ARC DETECTION		
Arc-current detection range	1 – 20 mA, independent of the model's withstand-voltage current rating (separate sensing circuit)	
GENERAL PARAMETERS		
Voltage rise time	0.1 – 999.9 s	
Test time setting (AC/DC)	0.2 – 999.9 s	
Voltage fall time	0.1 – 999.9 s	
Waiting time (IR)	0.2 – 999.9 s	
Time accuracy	±(1% + 0.1 s)	
Memory	20 test files, 20 test steps per file	
Dimensions (W × H × D)	280 × 138 × 428 mm	
Weight	18 kg	
Power supply	100–121 V / 198–242 V AC (switchable), 47.5–63 Hz	
Interfaces, standard	RS232, USB Device (PC), USB Host (USB drive), HANDLER, SIGNAL, PLC	

Interfaces

RS232	USB Host	USB Device	Handler	Signal	PLC
standard	standard	standard	standard	standard	standard

Remote-control protocols: SCPI and MODBUS, both standard over the interfaces above.

Standard accessories

Item	Description
—	EU power cable (Schuko, CEE 7/7)
TH90003D	Withstand voltage test cable
TH90003R	Withstand voltage test cable × 5 (TH9320-S4 only)
TH90003R	Withstand voltage test cable × 9 (TH9320-S8 only)

Techmize Electronic GmbH

Office 125–126, Regus
Carl-Zeiss-Ring 15a, 85737 Ismaning, Germany
An international subsidiary of Changzhou Tonghui Electronic Co., Ltd. (China)

Contact

Mobile: +49 171 4981898
Email: dx.han@tonghui.com.cn
Web: en.tonghui.com.cn

Registration

Managing Director: Haohua Zhao
Register Court: Amtsgericht München
HRB 312530
VAT ID DE463170824

Website LinkedIn YouTube

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