Safety Tester/Hipot Tester

E. TH9520 Winding Component EST Tester

Features

- High-resolution: 7-inch 800 × 480 dots, TFT-LCD display
- Six-in-one comprehensive analysis, one machine can achieve the comprehensive test needs of coil components
  High-power AC withstand voltage analysis
  DC voltage analysis
  Insulation resistance analysis
  Turn-to-turn insulation analysis
  DC low resistance analysis
  Inductance test analysis
- Eight-channel switching technology that can test eight different components simultaneously
- 500VA power AC withstand voltage design, in line with UL 1004-1 motor test standards
- Insulation resistance test: maximum voltage can reach 5kV
- DC / IR automatic rapid discharge function
- Turn-to-turn insulation test: sampling ADC promoting to 12bit, 200MHz sampling rate
- DC low resistance test: support DC resistance calculation of △ Y-type motor
- DC low resistance temperature conversion function and optional temperature sensor
- Inductance test analysis of up to 100kHz frequency
- Quick contact check function to realize rapid detection of test fixture
- New-type high voltage test fixture
  Four-terminal Kelvin test of DC low resistance and inductance
- Test steps up to 32
- Internal file storage and external U disk file saving

NEW

TH9520

Dimension(mm): 430(W)×177(H)×570(D)
Weight: 25kg

Standard	RS232 ☑	USB HOST ☑	USB DEVICE ☑	HANDLER ☑	LAN ☑

Option	GPIB ☐

Application

- Comprehensive analysis test of motors
- Comprehensive analysis test of transformers
- Comprehensive test of inductors
- Comprehensive analysis test of charging pile inductance characteristics
- Comprehensive analysis test of magnetic components

Specifications

Model		TH9520				
Number of channels		8				
Withstand test						
Output voltage	AC	0.050 - 5.000kV，Step 0.001kV，Frequency 50Hz/60Hz ±0.1%，sinusoidal waveform				
	DC	0.050 - 6.000kV，Step 0.001kV				
	Accuracy	± (1% set value + 0.1% of full scale)				
	Adjustment rate	(1% output + 0.1% of full scale) rated power				
Current range	AC	Voltage≤4.000kV： 0.001mA - 120.0mA, Voltage＞4.000kV：0.001mA – 100.0mA				
	DC	0.1uA - 20.00mA				
	Accuracy	± (1% of reading + 0.5% of full scale), AC Real: ± (1% of reading + 5% of total current reading + 5 digits)				
Output power		500VA				
ARC	AC	1.0mA - 20.0mA，0.1mA Step				
	DC	1.0mA - 10.0mA，0.1mA Step				
Insulation resistance test						
Output voltage		0.050 - 5.000kV，Step 0.001kV Accuracy: ± (1% of set value + 0.1% of full scale)				
Resistance test range		0.100MΩ- 99.99GΩ Resolution：0.1MΩ				
Measurement accuracy	⩾500V	1.000MΩ – 1.000GΩ, ± (3% of reading + 5 digits)				
		1.000GΩ – 10.00GΩ, ± (7% of reading + 5 digits)				
		10.00GΩ – 99.99GΩ, ± (10% of reading + 5 digits)				
	< 500V	0.100MΩ – 1.000GΩ， ± (7% of reading + 5 digits)				
		1.000GΩ – 99.99GΩ，for reference only, no accuracy requirements				
Time setting						
Rise time		OFF，0.1s – 999.9s，Step 0.1s				
Test time		0.1s - 999.9s，Step 0.1s				
Fall time		OFF，0.1s – 999.9s，Step 0.1s				
Waiting time		OFF，0.1s – 999.9s，Step 0.1s				
Turn-to-turn insulation test						
Output pulse voltage		0.01kV – 6.000kV，0.01kV Step，± 5% set value ± 15V				
Inductance test range		≥10μH				
Pulse energy		up to 0.36 Joule				
Waveform Sampling		Sampling rate: 12bit, Sampling speed: 200MHz, adjustable 8-level, Memory depth: 12k Byte, Sample average: 1 - 32				
Number of applied pulses		up to 32				
Judgment method		Area comparison, area difference comparison, corona discharge, phase difference comparison				
DC low resistance test / △ and Y type resistance test						
Test signal		100 mΩ 1A，1Ω 0.5A，others ≤3V				
Test range		0.01mΩ - 1.2MΩ				
Resistance	Range	0.01mΩ - 120.00mΩ	0.1mΩ - 1200.0mΩ	0.001Ω - 12.000Ω	0.01Ω - 120.00kΩ	0.1kΩ - 1200.0kΩ
	Accuracy	± 0.5% of reading + 0.04% of full scale	± 0.3% of reading + 0.03% of full scale	± 0.2% of reading + 0.03% of full scale	± 0.1% of reading + 0.03% of full scale	± 0.2% + 0.03% of full scale)
Inductance test						
Test parameters		Ls，Lp，Rs，Rp，Q				
Measurement accuracy		0.5%				
Test frequency		100Hz,120Hz,1kHz, 10kHz, 100kHz				
Test signal level		1.0Vrms，10% accuracy				