Safety Tester/Hipot Tester

E. TH5100 AC/DC Withstanding Voltage Tester

Features

- TH5101/TH5101B AC/DC Withstanding Voltage Tester TH5101A/TH5101C AC Withstanding Voltage Tester TH5101D/TH5101E AC/IR Withstanding Voltage Tester
- Clear and nice display on high-brightness VFD
- 0-5kV AC/DC voltage output, up to 100mV AC current, and 100 m A DC current
- Measurement voltage of insulation resistance is 100V/500V/1000V, and the upper limit of insulation resistance measurement is up to $10G\Omega$
- Automatic range-switch of insulation measurement
- Single high voltage output terminal, switch of output terminal is needless in switching AC/IR, and the automatic switch of W-I,I-W can be performed
- Short-circuit test function at grounding terminal
- Analog or digit indicates voltage
- Comparison of upper and lower limit window, PASS/FAIL judgment outputs Single high voltage output terminal, switch of output terminal is needless in switching AC/DC
- Time test function from 0.5s to 999s
- Over zero startup and cutoff to prevent component under test being damaged
- Four special test modes to improve security
- DC auto discharge function (TH5101/TH5101B)
- Excellent noise retraining circuit to improve reliability of operation
- REMOTE, signal input/output interface, RS-232C, make the operation convenient for user and improve the safety of measurement.
- Memory backup function



TH5101

Brief Introduction

As a newly-developed hipot test series of our company, TH5101/TH5101A/TH5101B/TH5101C/TH5101D/TH5101E hipot tester is used to perform hipot test for electronic device and component to make safety evaluation. The product provides highest security, stability and maneuverability. High voltage indicator will indicate to warn you of the danger of possible electric shock if there is electricity at high-voltage output port. And it is quick and convenient for you to read voltage data through double analog meter indication. The instrument provides REMOTE interface and input/output interface, by which the instrument can be controlled remotely, thus the safety of operation is improved. RS-232C interface provides convenient condition for communication with computer.

Safety Tester/Hipot Tester

E. TH5100 AC/DC Withstanding Voltage Tester

Specifications

Model		TH5101	TH5101A	TH5101D	TH5101B	TH5101C	TH5101E		
Voltage output									
AC	voltage range	0—2.5kV/0-5kV							
	Max. output current	100mA(rated power voltage)			40mA(rated power voltage)				
	Max. output power	500VA			200VA				
	Voltage adjustable rate	≤15% max. rated load changes to idle							
	Voltage waveform	power voltage waveform							
	HV ON/OFF	zero startup switch control							
DC	Voltage range	0—2.5kV/0- 5kV			0—2.5kV/0- 5kV				
	Max. output current	10mA			10mA				
	Max. output power	50VA			50VA				
	Voltage adjustable rate	≤3% max. rated load changes to idle			≤3% max. rated load changes to idle				
	(5kV) Ripple	50Vp-p idle 100Vp-p 10mA resistance load			50Vp-p idle 100Vp-p 10mA resistance load				
IR	Voltage range			DC 100V/500V/1.0kV			DC 100V/500V/1.0kV		
	Max. output power/current			1W (1.0kV,1.0mA)			1W (1.0kV,1.0mA)		
	Voltage adjustable rate			≤1% (0-1mA load)			≤1%(0-1mA load)		
	Voltage waveform/rip- ple			< 20mVp-p (idle) < 1 0 0 m V p - p (max. load)			< 20mVp-p (idle) < 100mVp-p(max. load)		
Voltmeter									
Analo-gy	scale	AC/DC	AC	AC/IR	AC/DC	AC	AC/IR		
		6kV RMS F.S.							
	accuracy	±5% F.S.							
Digit	full scale	2.5kV/5kV F.S.		IR 1.0kVF.S	2.5kV/5kV F.S.		IR 1.0kV F.S.		
	accuracy	±1.5% F.S.		IR ≤1% F.S.	±1.5% F.S.		IR ≤1% F.S.		
	Reponse time	200ms, RMS	display						

Safety Tester/Hipot Tester

E. TH5100 AC/DC Withstanding Voltage Tester

Current mete	er/Ohmeter							
Digit current meter	Accuracy	upper cutoff current ±(5%+20uA)						
Digit resistance meter	Accuracy			≤2%(< 100 MΩ) ≤5%(≥100MΩ)			≤2%(< 100 MΩ) ≤5%(≥100 MΩ)	
Reponse time		200ms,RMS display						
Timer								
Setting Range		timerON: 0.5s-999s, min. resolution0.1s						
Accuracy		±20ms						
Comparator								
AC current lir	mit range	0.1-110mA			0.1-45mA			
DC current lir	mit range	0.1-11mA			0.1-11mA			
IR resistance test range				100V: 200 kΩ-1.0 GΩ 500V: 1 MΩ-5.0 GΩ 1.0kV: 2 MΩ-10 GΩ			100V: 200 kΩ-1.0 GΩ 500V: 1 MΩ-5.0 GΩ 1.0kV: 2 MΩ-10 GΩ	
Min. resolution	on of current limit	0.1mA						
Min. resolution of resistance limit				0.01ΜΩ			0.01ΜΩ	
storage and i	nterface							
parameter sto	orage	Set the auto saving of parameter(at least after a measurement),these will be automatic recovery on the next startup						
REMOTE cor	ntrol(front panel)	START · STOP · STARTENABLE · HV ON indication						
	output interface	status output: PASS \ U-FAIL \ L-FAIL \ PROTECTION \ READY \ TEST \ HV-ON control: START \ STOP \ ENABLE \ INTERLOCK special test mode setting: double effect, pass hold, momentary test, un-pass hold						
Communicati	ion interface	RS232C						

General Specifications

Operation Tempera	ature And	0°C - 40°C , ≤90% RH		
Power Requirements		198 V - 242 V AC , 47.5 Hz - 52.5 Hz		
Power Consumption	TH5101 /A TH5101B/ C	No-load 50VA, AC full-load ≤ 600VA No-load 50VA, AC full-load ≤ 250VA		
Dimensions (W x H x [D)	320mm(W) x 132mm(H) x300mm(D)		
	TH5101	14Kg Approx.		
Weight	TH5101A	13Kg Approx.		
1113.11	TH5101B	11Kg Approx.		
	TH5101C	10Kg Approx.		

Ordering Information

TH5101 AC/DC Withstanding Voltage Tester(500W) TH5101A AC Withstanding Voltage Tester(500W) TH5101B AC/DC Withstanding Voltage Tester(200W) TH5101C AC Withstanding Voltage Tester(200W) TH5101D AC/IR Withstanding Voltage Tester (500W) TH5101E AC/IR Withstanding Voltage Tester (200W)

Instrument Accessories

TH90001R	withstanding voltage test fixture	1
TH90001B	withstanding voltage grounding clip	1
TH90002	withstanding voltage test lead	1
TH5100-IL	cable plug	1

Options

TH90003 remote control withstanding voltage test lead TH90005 remote controlling box TH5100-SOFT RS232C communication control software