



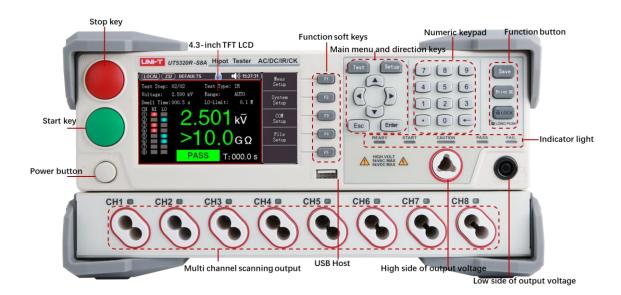
Datasheet

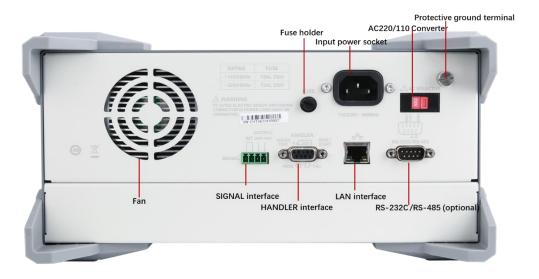
UT5320R-SxA Series Hipot Tester

Main Features

- 4.3 inch TFT true color LCD
- 4/8 channels, multiple outputs
- Support AC/DC withstand voltage test, IR insulation test, contact test
- Fully isolated and floating output
- AC withstand voltage (ACW): 5kV/20mA
- DC withstand voltage (DCW): 6kV/10mA
- Insulation resistance (IR): $2.5kV/10G \Omega$ (optional to 5kV)
- Rise up time/slope down time/test time/compensation return to zero, multiple functions can be set flexibly
- Intelligent judgment: over-upper limit/over-lower limit/arc/over-charging lower limit (sound and light indication)
- Overvoltage/short circuit protection/rapid discharge/earth failure multiple protection
- Anti-electric wall technology detects the circuit at any time to prevent electric shock and ensure personnel safety
- Overvoltage, overcurrent protection, current base reset function
- Can store 100 test files, each file can store 20 test steps, test modes can be combined arbitrarily
- Comply with standard SCPI and Modbus communication protocols
- Equipped with Handler (PLC) interface, RS-232C and LAN interface

Panel Structure



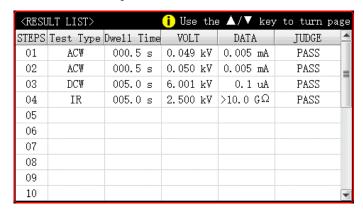


Product Introduction

UT5320R-SxA series is an instrument that integrates multiple testing functions of electrical strength (AC/DC withstand voltage) and insulation resistance. It can be widely used in the safety performance inspection of household appliances, transformers, electrical equipment and components.

Multiple test modes

Support multiple test modes, support AC, DC withstand voltage test, insulation resistance test. high accuracy and fast measurement speed



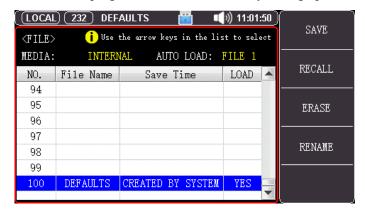
Easy to operate

With 4.3 inch LCD screen, numeric keys and function keys, it is convenient to set up, select and control the test process. The screen is large and the displayed content is specific and clear.



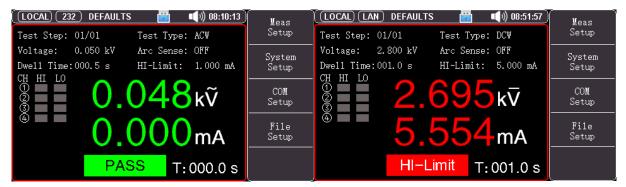
File management

Programmable 100 groups of test files, each group can contain 20 steps of test operations. Create favorable conditions for programmatic control of safety testing operations.



Intelligent judgment

Upper and lower limit intelligent judgment function, and provide sound and light alarm at the same time. Provide a good prompt for the measurement work, and broadcast the results immediately.



IR measurement

Insulation resistance test voltage is 2.5kV as standard, 5.0kV is optional, suitable for more test occasions.



Rich interface

Equipped with Handler (PLC) interface for industrial control, RS485 (option), RS-232C and LAN interface for connecting to a computer. At the same time, it supports two communication protocols, SCPI and Modbus RTU, and efficiently completes the functions of remote control and data acquisition.

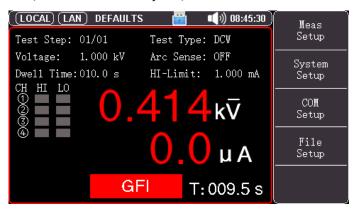


Multiple Protection Mode

Multiple protection functions provide you with a safer test environment Short protection



GFI(Ground Fault Interruption)



Arc Test



Contact Test

Unique hardware contact test, fast and reliable



Technical Parameter

Model			UT5320R-SxA series			
Withstand voltage test	Withstand voltage test					
Output voltage	AC	Voltage range	0.050kV—5.000kV			
		Voltage waveform	Sine wave			
		Distortion	< 3%			
		Operating frequency	50、60Hz optional			
		Frequency accuracy	±1%			
		Output power	100VA(5.000kV 20mA)			
		Voltage regulation	±(1.0%+50V)(rated power)			
	DC	Voltage range	0.050 kV—6.000kV			
		Signal source frequency	600Hz			
		Output power	60VA(6.000kV 10mA)			
		Voltage regulation	±(1.0% +100V) (rated power)			
	Voltage resolution		1V			
	Volt	age output accuracy	±(1.0%set value+5V) (no load)			
	Volt	age test accuracy	±(1.0%reading+5V)			
	Voltage generation mode		DDS signal source plus AB class amplifier			
Current test range	AC	Current range	0.001mA – 20mA			
		Short-circuit current (moment)	>40 mA(set output voltage>500V)			
		Current resolution	0.001 mA			
		Current accuracy	±(2.0% reading + 5 digits)			
		Actual current	OFF, 0.001 mA-20mA			
	DC	Current range	0.1uA – 10.00mA			
		Current accuracy	±(2.0% reading + 5 digits)			
		Discharge function	Automatic discharge after test			
Insulation resistance test						

Output voltage		0.050kV – 2.500kV(Optional 5.00kV)		
Voltage resolution		1V		
Voltage test accuracy		±(1.0% reading +2V)		
Maximum output current		10mA		
Maximum output power		25VA (2500V/10mA)		
Output instantaneous short-ci	rcuit current	>20mA(Set output voltage>500V)		
Load regulation	care carrette	≤1% (rated power)		
Ripple (1kV)		≤3% (1kV, no load)		
Discharge function		Discharge automatically after the test		
Resistance measurement rang		Discharge automatically after the test $0.1M\Omega$ – $10G\Omega$		
Resistance display range(1000)	10mA 0.1 MΩ-0.5 MΩ			
hesistance display range(1000				
		200uA 5 MΩ-50 MΩ		
		20uA 50 MΩ-500 MΩ		
Accuracy of resistance measur	omant	2uA 500 MΩ-10GΩ		
Accuracy of resistance measur	ement	≥500V		
		$1M\Omega$ – $1G\Omega$ ±(5% reading+5digits)		
		$1G\Omega$ – $10G\Omega$ ±(10% reading+5digits)		
		< 500V		
		0.1MΩ $-$ 1GΩ \pm (10% reading+5digits)		
		1GΩ $-$ 10GΩ For reference only, no		
Accuracy of current measurem	uont .	accuracy requirements ±(1.5% reading+5digits) After		
Accuracy of current measurem	ient	±(1.5% reading+5digits) (After clearing)		
ARC Detector		Clearing /		
Measuring range AC		OFF,1-9 level		
DC		OFF, 1-9 level		
		OFF, 1-9 level		
Comparator Discrimination mode		window comparison method		
Discrimination mode		window comparison method		
		Idown ON: when Idown< Ix < Iup ,		
		PASS;		
		when $Ix \leq Idown \text{ or } Ix \geq Iup$, FAIL; (Idown < Iup)		
		Idown OFF: when Ix < lup, PASS;		
		when $Ix \ge Iup$, FAIL;		
		Insulation resistance discrimination		
		method is the same as above		
Current upper limit setting lup	AC	0.001mA – 20mA		
Sarreine apper minic secting tup	DC	0.1uA – 10mA		
Current lower limit setting		0.001mA – 20mA		
Idown (LOWER OFF)	DC	0.1uA –10mA		
Resistance upper limit setting		OFF, 0.1ΜΩ - 10GΩ		
Resistance lower limit setting	0.1ΜΩ-10GΩ			
Discrimination output		PASS/FAIL LCD and LED Separate		
		display and sound alarm		
		uispiay anu sounu alami		

Parameter setting	
Voltage rise time	0.1s - 999.9s
Voltage drop time	0 s - 999.9s, (Only after withstand voltage PASS)
Voltage waiting time	0.3s - 999.9s (Only DC withstand
	voltage, and meet the rise time + test
	time > waiting time)
Test time setting	0.1s – 999.9s (when TIMER ON)
Time accuracy	± (0.2% set value ± 0.1s)
Measurement function	2 (0.273 000 10.00 2 0.20)
Keyboard lock	Prevent accidental modification of test
	conditions, or prohibit test conditions
	from being modified
Base number clearing	The current flowing through the
G	insulation resistance and distributed
	capacitance between the output lines
	can be reset to zero
Start wait delay	When starting the test (pressing
	START), the high voltage start signal is
	output first, and the high voltage
	output starts after a certain period of
	time.
Current over-range judgment	Hardware quickly judges insulation
	breakdown, which is faster and safer
	than voltage sampling, and reduces
	impact damage to products
ARC detection	Sampling the sudden change signal of
	the current to judge the potential
	hidden dangers and approximate scale
	of the circuit
Ground current detection	Protect personal safety in case of
	accidental electric shock or high
	voltage leakage to the casing
Alarm volume adjustment	Off, Low, Medium, High
High voltage indication	Window indication and LED light
	indication
Storage and interface	D 11 400 + 50 + 50
File programming and storage	Programmable 100 test files, each file
LICE LIGHT: 1 C	can have 20 test items.
USB HOST interface	Yes (maximum support 128G)
Save boot parameters	The set parameters are saved as
	default parameters, and they can be
	automatically restored next time the
Display	machine is turned on.
Display	4.3inch (480x272) TFT LCD

Control interface	HANDLER, SIGNAL	
Communication protocol	SCPI,Modbus RTU	
Communication Interface	RS232C, LAN, optional RS485	
Environment	Specifications Temperature 18°C~28°C	
	Operation Temperature 10 °C ~40 °C	
	Humidity 10~80% RH	
	Storage Temperature 0 °C ~50 °C	
	Humidity 10~90% RH	
Power	100V-121V,198V-242V,47.5-63Hz	
Power dissipation	≤400VA	
Size	280mm*138mm*428mm	
Weight	16.27kg(S4A)/16.87kg(S8A)	

Order Information

	Description	Standard Quantity per Carton	Order No.
Model	UT5320R-S4A (AC/DC/IR, Programmable, 20mA, 4CH)	1 pcs	UT5320R-S4A
	UT5320R-S8A (AC/DC/IR, Programmable, 20mA, 8CH)	1 pcs	UT5320R-S8A
Standard accessories	Power cord that conforms to the standard of the destination country	1 pcs	
	RS232C Data Cable	1 pcs	
	High voltage test probe	1 pcs	
	High voltage test clips	1 pair	
	Double head high voltage test wire (no clips)	4 pcs(S4A)/8 pcs(S8A)	
	Double head high voltage test wire (with clips)	1 pair	
	Fuse	2 pcs	
Optional accessories	Remote control high voltage rod test line (support remote start)		UT-L62

Note: All mainframes, accessories and options can be ordered from your local UNI-T dealer.

Warranty

Three-years warranty, excluding probes and accessories. Please visit https://instruments.uni-trend.com/list 190/65.html to learn more information. To protect your investment, please purchase from UNI-T official authorized global distriburots.

Find a Distributor

Find an authorized distributor here: https://instruments.uni-trend.com/Network

Contact UNI-T

E-mail: info@uni-trend.com

Test & Measurement Instruments Website: instruments.uni-trend.com

UNI-T Corporate Website: www.uni-trend.com

UNI-T group maintains a wide products category includes Digital Test & Measurement instruments, Field Testing Meter, Infrared thermal imaging products. As early as 2008, we continue to introduce self-developed Digital Test and Measurement instruments to the market and have made remarkable achievements. At present, we have formed a variety of product lines of Oscilloscope, AWG, Spectrum Analyzer, Bench Multi-meter, Power Supply, DC Load, Power Meter, LCR Meter, Micro Ohm Meter and Data logger. We have separated instruments sub-sites, instruments.uni-trend.com, on the basis of the original website www.uni-trend.com, in order to be more targeted to provide customers with better service and value.

UNI-T/MKT-SC/AL-2210-040 Instrument.uni-trend.com

