

Multichannel Programable safety tester CS99x9



Features

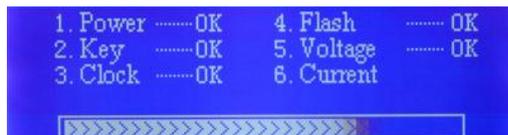
- Electric safety wall system function: The tester will first check whether the input power supply right connected to N,L,G automatically after power on. and give the prompt information if finds any misconnection.
- Output voltage with out of tolerance auto-detection function; once the error between actual output voltage and setting voltage exceeds $5\% \pm 5V$, tester will alarm with out of tolerance of voltage after testing.
- Automatic detection whether operators touched the hi-pot probe, once the hi-pot probe is touched, test can't be performed.
- Key lock, preventing operators from modifying test parameters
- Stabilized voltage output with the stability of 1% prevents inaccurate test results induced by output supply voltage instability or load fluctuation
- Signal source is a sine wave based on DOS core, which can be amplified by linear power amplifier. Thus THD is less than 0.5% within full work voltage range, and the tester satisfies the safety regulation criterion, requiring the crest factor must be within a range of 1.3 to 1.5
- DC ripple factor less than 1%
- 0.2s quick discharge after DC withstanding voltage testing and 0.4ms rapid cut-off after AC withstanding voltage testing.
- In AC withstanding voltage testing, the frequency is either linear programmed between 40 and 400Hz (at resolution of 0.1 Hz) or 50/60Hz changeable
- Optional grounding mode: Grounding connection mode or Float grounding mode. Float grounding mode can ensure accuracy of low current measurement under high voltage output.
- 240*64 graphic dot matrix LCD, displaying setting parameters and testing parameters strikingly and visually.
- LCD contrast, buzzer volume, retention time of PASS signal can be adjusted by keystrokes
- 50 memory groups, 30 test steps per group
- Users can freely name memory groups as required, which maximum can be up to 14
- Users can perform the test beginning with any step during a multistep test.
- Optional output voltage modes: Normal mode and Step mode. Normal mode is that tester automatically ends hi-pot output when test times out; Step mode is according to users' setting value, tester automatically will switch to second-step voltage output upon the first-step voltage test times out. Users can perform single-step test or multi-step consecutive test with any step
- AC withstanding voltage test can measure the real current of capacitive load
- Rectification circuit adopts RMS-DC converter, truly reflecting tester's output voltage and measured current value
- DC and insulation test with CHARGE-LO function
- Fast switching among common interfaces
- File common operations, such as new, delete, edit, etc

Application area

- Test mainly in hi-pot, lowest current and used for AC/DC standard voltage source with high accuracy, high stability, low degree of distortion and variable frequency
- Can be used as high-voltage variable frequency experimental power source
- Reverse leakage current and reverse voltage measurement of various diodes of high voltage silicon stack and high inverse-voltage; Leakage current measurement of electronic transformer, connectors and optoelectronic devices

Interface function

- Standard PLC interface, optional ports: RS232C, RS485, GPIB, USB
- Control eight memory groups through PLC interface; level signal or contact signal can be selected as PLC test signal, and if level signal selected, PLC high output level is 24V during testing. Test results which maximum can be up to 9999 will be stored into the tester or sent to PC through RS232 interface



ISOTEST, S.L.,

Dirección fiscal: C/Ikea, 51 — 48940 — Leioa — Bizkaia

Dirección almacenes y Laboratorios: C/Brazomar 52A, nº 7—39700—Castro-Urdiales—Cantabria

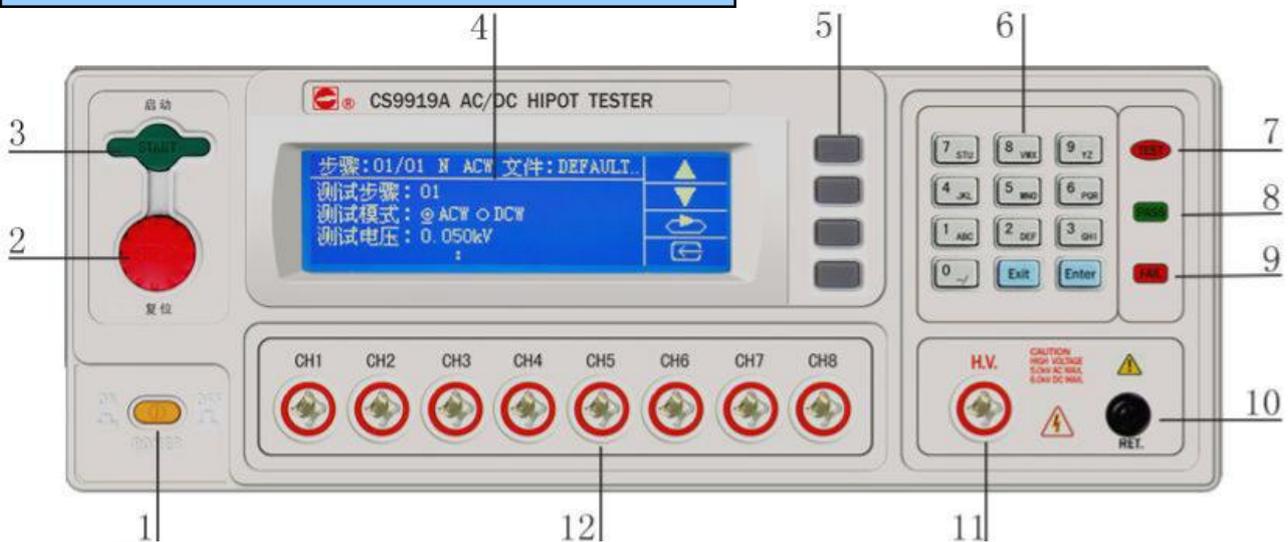
Tfno.: 944803040—Fax: 944348191—email: isotest@isotest.es— web: <http://www.isotest.es>

Specifications

Model		CS9919AX	CS9919BX	CS9929AX	CS9929BX
ACW	Output voltage	range	0.050kV~5.000kV		
		accuracy	± (2% read value +5V)		
		resolution	1V		
	Max output power	100VA (5.000kV/20mA)			
	Max test current	20mA			
	Low-current	0~20mA,0=disable			
	Range	200uA、2mA、20mA			
	waveform	Sine wave			
	Distortion	≤2% (Unloaded or resistance of the load)			
	Crest factor	1.3~1.5			
	Waveform mode	DDS+ Amplifier			
	Rise time	0.3s~999.9s 0=OFF			
	Test time	0.3s~999.9s 0=Continuous			
	Descend time	0.3s~999.9s 0= OFF			
	Interval time	0.0s~999.9s 0= OFF			
	Channel	8	4	8	4
	Output voltage mode	N mode、G mode			
DCW	Output voltage	range	0.050kV~6.000kV		
		accuracy	± (2% read value +5V)		
		resolution	1V		
	Max output power	60W (6.000kV/10mA)			
	Max test current	10mA			
	Current range	2uA、20uA、200uA、2mA、10mA			
	Ripple factor	≤5% (6kV/10mA)			
	Discharge time	≤200ms			
	Maximum charge current	10mA			
	Voltage rise time	0.3s~999.9s 0= OFF			
	Test time	0.3s~999.9s 0= Continuous			
	Fall time	0.3s~999.9s 0= OFF			
	Interval time	0.0s~999.9s 0= OFF			
	Delay alarm time	0.3s~999.9s 0= OFF			
		Channel	8	4	8
	Output voltage mode	N mode 、G mode			
IR	Output voltage	range	-----		
		accuracy	-----		
		resolution	-----		
	Maximum upper-limit	-----			
	Maximum lower-limit	-----			
	Minimum lower-limit	-----			
	Voltage rise time	-----			
	Test time	-----			
	Interval time	-----			
	Auto range	-----			
	Discharge time	-----			
	Channel	8	4	8	4

Volt meter	Range		0.000kV~6.000kV
	Accuracy		± (2% read value +5V)
	Resolution		1V
	Displayed value		RMS
Ampere meter	range	AC	0 ~ 20mA
		DC	0 ~ 10mA
	resolution	AC	200uA; 0.1uA,2mA; 1uA,20mA, 10uA
		DC	2uA; 0.001uA, 20uA; 0.01uA, 200uA; 0.1uA, 2mA; 1uA, 10mA; 10uA
	accuracy		≥2mA:± (2%+5counts) , <2mA:± (3%+5counts)
	OFF-SET		The current of the test leads and the accessories can be deducted.
	Test mode		GND; RETURN terminal connect to the outer case FLOAT; RETURN terminal do not be connected to the outer case
OHM METER	Range		1MΩ~9999MΩ (Except CS9919AX)
	Resolution		1MΩ~9.999MΩ:0.001MΩ,10MΩ~99.99MΩ:0.01MΩ, 100MΩ~999.9MΩ:0.1MΩ,1000MΩ~9999MΩ:1MΩ (Except CS9919AX/CS9919BX)
	Accuracy		0.100kV~0.200kV:1MΩ~999MΩ ±5%, 1000MΩ~3000MΩ ±10% 0.201kV~0.499kV:1MΩ~999MΩ ±5%, 1000MΩ~5000MΩ ±10% 0.500kV~1.000kV:1MΩ~999MΩ ±5%, 1000MΩ~9999MΩ ±10% (Except CS9919AX/CS9919BX)
Timer	Range		0~999.9s
	Resolution		0.1s
	Accuracy		± (0.1%+50ms)

Front panel specifications



(1) POWER SWITCH

Pressing inward is ON, flicking out is OFF;

(2) STOP

While in testing, pressing it can stop testing. While DUT fails the test, the corresponding light turns bright, pressing it the tester will stop warning and enter next test.

(3) START

In the state of reset, pressing it will start testing.

(4) LCD display

240X64 graphic LCD display. It displays voltage, current, time and test information

(5) Screen key

Function key or short-cut key of screen. From up go to down and one by one in order is F1、F2、F3、F4

(6) Keyboard

A、 numeral key: 0~9

When users set test parameters, press the key 0~9 can change the set value; When input the name of file, press the letter on the relevant key.

B、 Function key

Includes two keys: (EXIT) and (ENTER);

EXIT: At a random display interface, press the key EXIT to return the main interface.

ENTER: When set parameters, press the key ENTER, the tester will save the set parameters to the memory groups automatically.

(7) Test indicator

When the test indicator is light, the tester is on the test status. The H.V. output terminal will output high voltage. Do not touch the high voltage port, high voltage output wire, test leads with clip set and the DUT.

(8) PASS indicator

When the indicator is light, the test is passed. If the test time is 0, the tester will not judge.

(9) FAIL indicator

When the indicator is light, the test is failed;

(10) RETURN terminal

It is the input terminal of measuring current.

(11) High voltage output terminal (H.V.)

Pressing down the "START" key, it will output high voltage. do not touch the high voltage port, high voltage output wire, test leads with clip set and the DUT.

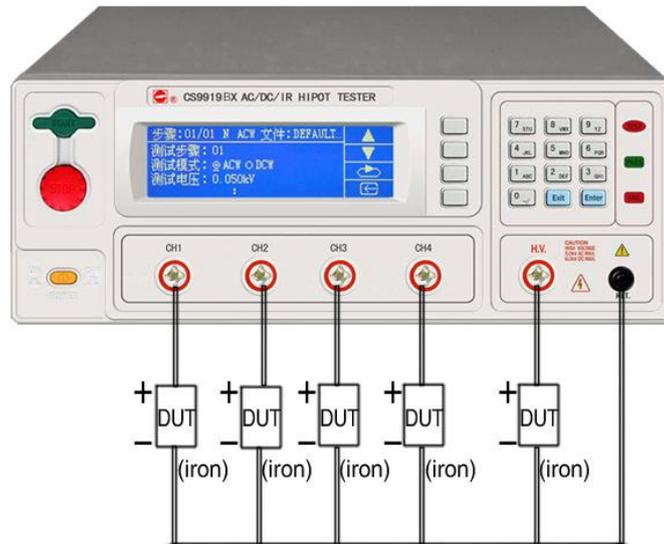
(12) Multi channel output terminal

CS9919AX/CS9929AX 8-channel output

CS9919BX/CS9929BX 4-channel output

The multi-channel output terminals can be programmable for H.V. output, current input and off. (three status in total)

Accessories included with the instrument



CS26009-1 Programmable test probe: 1 pc



CS26009-3 Programmable current test clip (black): 1 pc



CS26009-2 Programmable test clips Red) : 5 or 8 pc's