



GPS-

9020 series



Built to provide a cost effective, yet powerful solution to hipot testing, whether on a production line or in a laboratory environment for compliance testing purposes.

The GPS-9020 series of hipot testers come with a 5-inch TFT true colour touchscreen LCD display running on a high performance 32-bit ARM processor. The instrument takes up little desk space, is light weight, super cost-effective and easy to operate. The high-voltage module of the instrument uses a DA as base, a controllable sine generator, a class AB power amplifier, 40-600Hz high-voltage transformer for boosting, and the output voltage is closed-loop controlled.

9020 series is equipped with Handler interface (PLC interface), RS232C, USB can easily carry out data communication and remote control with PC, to meet automated testing and improve production efficiency.

The 9020 series can not only independently perform AC withstand voltage test, DC withstand voltage test, and insulation resistance test, but also do multiple project sequential test by project setting of test solution.

Key Features

- ACW rated output: 5kV / 20mA (9020AD/9020A/9020ADI)
- DCW rated output: 6kV / 10mA(9020AD/9020ADI)
- IR rated output: 1kV / 10G (9020ADI)
- DC fast discharge, electric shock protection and Arc detection
- Voltage rise time, test time, and Fall time can be arbitrarily set within 999.9 seconds
- Can store and edit 10 test groups, each with 16 steps
- HANDLER (PLC) interface and RS-232C interface
- Controllable sine generator: It can be set to work at 50 or 60Hz when AC output, no longer limited by line voltage
- Linear power amplifier: the distortion of the voltage waveform is small; the control is simple and the reliability is high
- Output voltage closed-loop control: to ensure that the load adjustment rate is small and the test data is reliable
- Safety performance inspection of household appliances, transformers, electrical equipment and electronic components

www.gpslimited.com/9020series
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Technical Specifications

HIPOT TESTER

AC Withstanding Voltage (all models)			
Rate Output	5kV / 20mA		
	Range	Resolution	Accuracy
Output Voltage	0.050kV-5.000kV	0.001 [1V]	± (2% x Reading + 5digital)
Test Current	0.001mA-20.00mA	0.001 / 0.01	± (2% x Reading + 5digital)
Frequency	50Hz or 60Hz, ±0.1%		
Output Waveform	Sine wave, distortion less than 3% (pure resistive load)		
Voltage Regulation	± (2% Reading+5V) (From empty to full)		
DC Withstand Voltage (9020ADI/9020AD only)			
Rate Output	6kV / 10mA		
	Range	Resolution	Accuracy
Output Voltage	0.050kV-6.000kV	0.001 [1V]	± (2% x Reading + 5digital)
Test Current	0.1uA- 10.00mA	0.1 / 0.01	± (2% x Reading + 5digital)
Insulation Resistance (9020ADI only)			
Rate Output	1kV / 10GΩ		
	Range	Resolution	Accuracy
Output Voltage	0.050kV-1.000kV	0.001 [1V]	± (1% x Reading + 2digital)
Measuring Range	0.02MΩ to 10GΩ		
Measuring Accuracy	≥500V	<500V	
	1MΩ -1GΩ ± (5%Reading+5digital)	0.1MΩ -1GΩ ± (10%Reading+5digital)	
	1GΩ -10GΩ ± (10%Reading+5digital)	1GΩ -10GΩ For reference only, no precision requirements	
General Parameters			
Discharge Function	Automatic discharge after test is over		
Arc Detection	1-9 level		
Voltage Rise/Test/Fall Time	0.1s – 999.9s		
Interface	HANDLER interface (PLC Interface), RS232C, USB		

General Specifications

Model	ACW	DCW	IR	Part Number
9020ADI	✓	✓	✓	869164
9020AD	✓	✓		869068
9020A	✓			869020

Mass
8kg/17.6lbs approx.

Operating
Temp 10°C - 40°, humidity 10-80%RH

Power Supply
110VAC/220VAC (1±10%)

Fuse
110V 5A slow melting,
220V 3A slow melting

Power
MAX 300VA

Services
1-year warranty (subject to product registration with GPS Ltd)

Please contact for more information

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