



AC & AC/DC WITHSTANDING TESTER

# 5020A/5020AD

A high-precision device for withstand voltage testing with built-in ARC-sense technology. Strictly designed in accordance to the related IEC standards.

The 5020A/5020AD are accurate and durable instruments designed to perform hipot tests on all types of electrical products, systems, and components. The test instruments have been 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. They are simple to operate and are designed for use by unskilled or semi-skilled personnel in production testing for AC and DC (5020AD only) dielectric withstand testing. With ARC-sense circuitry, differentiate between the two conditions of momentary spikes in the nominal leakage and dielectric breakdown leakage current. They are capable of testing to most industry specifications such as UL, CSA, VDE, IEC, and MIL for dielectric withstand testing.



## Key Features

- ARC-sense detection with 9 selectable sensitivity settings
- Ramp test voltage set
- 50/60Hz output frequency selectable
- FAIL/PASS audible warning
- Two Tests in One Unit: eliminates need for purchasing separate AC and DC Hipots (model 5020AD only)
- Flexible/high resolution test parameters
- Remote and PLC control
- Software included

## Ideal for

- Capacitors
- Wire and Cable
- Transformers
- Connectors
- Medical devices
- Coils and chokes
- Appliances
- Other electrical apparatus

## Technical Specifications

Model	GPS-5020A	GPS-5020AD
Output Voltage Type	AC	AC/DC
AC withstanding voltage test	5KV	5KV
Output frequency	50 or 60Hz, optional	50 or 60Hz, optional
Output waveform	Sine wave, 1.3< Crest factor <1.5	Sine wave, 1.3< Crest factor <1.5
Leakage current Limit set	range : 0.01-20.00mA resolution : 0.01mA accuracy : ± (3% set point +3word)	range : 0.01-20.00mA resolution : 0.01mA accuracy : ± (3% set point +3word)
Leakage current Lower limit set	range : 0.00-20.00mA resolution : 0.01mA accuracy : ± (3%set point+3 digit)	range : 0.00-20.00mA resolution : 0.01mA accuracy : ± (3%set point+3 digit)
DC withstanding voltage test	-	5KV
Leakage current Limit set	-	range : 0.01-10.00mA resolution : 0.01mA accuracy : ± (3%set point+3word)
Leakage current Lower limit set	-	range : 0.00-10.00mA resolution : 0.01mA accuracy : ± (3%set point+3 word)
Voltage set	resolution : 1V accuracy : ± (3%set point+5V)	resolution : 1V accuracy : ± (3%set point+5V)
Voltage stability	± (1%set point±5V)	± (1%set point±5V)
Slow rise time	range : 0.1-999.9S	range : 0.1-999.9S
Test time	range : 0.5-999.9S	range : 0.5-999.9S
Arc detection	range : 1-9 scan adjustment, 0 without arc detection	range : 1-9 scan adjustment, 0 without arc detection

### Standard Accessories

Power cord  
Test cables 1set  
Manual  
Windows software

### Input Voltage

220VAC ±10%, single phase  
Frequency: 47-63Hz  
Fuse: 5A/250VAC

## General Specifications

Part Numbers / Optional Accessories		
Code	Item	Part Number
GPS-5020A	5KV AC withstanding voltage tester with RS232 and software	860033
GPS-5020AD	5KV AC/DC withstanding voltage tester with RS232 and software	860110

### Dimensions

380 x 320 x 130mm / 15 x 12.5 x 5" (w x d x h) approx.

### Mass

10.0kg/22.1lbs approx.

### Operating:

0°C ~ 40°C  
Below +35°C: ≤90% relative humidity  
+35°C ~ +40°C: ≤60% relative humidity  
≤3000m

### Services

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

Visit [www.gpslimited.com/register-product](http://www.gpslimited.com/register-product)  
Service and calibration available.

Please contact for more information

[www.gpslimited.com/HVtesters](http://www.gpslimited.com/HVtesters)  
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