

Guardian

5000 Safety Analyzer

AC/DC/IR/GC Electrical Safety Analyzer

USES:

- **Production and Compliance Testing of Appliances, Instruments and Information Technology Equipment in Accordance with UL, CSA, IEC, TUV and Other Standards such as EN60335, EN60950, EN61010, CSA C22.2 No. 1010.1, UL3111 and UL1950**
- **Transformer Electrical Safety Testing**
- **Electric Motor Safety Testing**
- **Power Supply Safety Testing**
- **Verification of the Ground Connection on Products with a Three Prong Power Cord**

FEATURES:

- **Programmable output voltage to 5KV**

Introduction

The Guardian 5000 is four instruments in one providing AC Hipot, DC Hipot, Insulation Resistance, and Ground Bond measurements from a single test connector in one versatile instrument. This provides a cost effective solution to electrical safety compliance testing with maximum flexibility for present and future requirements. Performing all of the electrical safety tests in one box can reduce test time, increase productivity and reduce the number of boxes requiring calibration.

Description

The Guardian 5000 AC Hipot Tester performs AC dielectric testing (hipot) over the voltage range from 100V to 5000VAC RMS. The maximum leakage current of 40mA RMS makes the Guardian 5000 ideal for testing devices with high leakage currents such as power supplies which have large filter or "Y" capacitors for noise reduction. Both the actual test voltage and total current are displayed during testing.

The Guardian 5000 DC Hipot Tester voltage range for DC dielectric testing is 100V

Guardian 5000

AC Output Voltage:

Range:	100V to 5000V AC Resolution: 10 Volts / step Frequency: 50/60 Hz selectable Waveform: Sinusoidal Regulation: +/- (1% of setting + 5V)
Voltage Display:	Accuracy: +/- (1% of reading + 5V) Resolution: 1Volt
AC Current Display:	Total current Range: 0.001 to 40mA AC Resolution: 0.001mA Accuracy: +/- (1.5% of reading + 5cnt)
High/Low Limit Test:	1mA to 40mA AC Accuracy: +/- (1% of limit + 1mA) Low limit can be turned OFF
ArcDetection:	Arc Level: >1mA to 40 mA & OFF in 0.001mA / Step

DC Output Voltage

Range:	100V to 6000V DC Resolution: 10Volts / step Regulation: +/- (1% of setting + 5V)
Voltage Display:	Accuracy: +/- (1% of reading + 5V) Resolution: 1Volt

Display:	+/- (1% of setting + 0.3A)
Frequency:	50 or 60Hz Selectable
No Load Voltage:	6 to 15 V programmable
Resistance:	Range: 0 - 500.0mV, 4 digits Accuracy: +/- (1% of reading + 3 cnts)
Hi Limit:	10 mV to 510 mV
Offset Function:	0 to 100 mV, user selectable
Test Time:	0.5 - 999sec(+/-20ms)

Common Features

AC/DC Test Time:	Ramp: 0.1 to 99.9s (+/- 20ms) Test: 0.1 to 999s (+/- 20ms) and Continuous
Remote Control:	Inputs: Start, Stop Characteristics: Optically Isolated with +24V Active Low, Pulse Width >1ms. Outputs: Pass/Fail/Under Test Characteristics: Dry Contact relay Ele. Characteristics: 120V 100mA max. Logic: Closed if True Connect: Terminal Strip & 9 pin D Serie
Test Setups:	50 Test Setups with 15 Steps each
Connectors:	Front Connection and Rear Connections