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Sentry

USES:

- Production Testing of Appliances, Instruments and Information Technology Equipment in accordance with UL, IEC, TÜV and Other Standards such as EN60335, EN60950, EN61010, CSA C22.2 No. 1010.1, UL3111 and UL1950
- Electric Motor Safety Testing
- Lighting Fixtures Safety Testing

FEATURES:

- Upgradeable: Add DC and/or IR
- Output Voltage: 5kVAC and 6kVDC
- Leakage Current: 20mAAC, 5mADC
- Resistance Measurements from 0.1MΩ to 50GΩ
- Programmable Ground Continuity from 0.1- 5Ω
- Programmable Ramp, Test & Fall Times
- Store/Recall: 60 Tests
- Ground Fault Interrupt (GFI)
- Fast Discharge of DUT & Fast HV Output Cutoff
- Monitor DC In-Rush Current
- EN 50191 3mA Current Limit
- Pause Mode
- Open/Short Circuit Detection Mode
- Remote I/O Interface
- Large Enhanced Graphical Display
- Front & Rear Output Connectors

Sentry Plus Hipot Testers

Upgradeable AC/DC/IR Hipot Testers

Introduction

The Sentry Plus instruments provide a complete dielectric testing solution. The Sentry 10 Plus for AC Hipot testing, the Sentry 20 Plus for AC/DC Hipot testing and the Sentry 30 Plus for AC/DC Hipot tests plus IR measurements. The large enhanced digital display and user friendly controls of the Sentry Plus instrument allow test parameters and limits to be easily programmed and viewed.

Description

The Sentry Plus Series units are advanced digital hipots with load and line regulation to ensure measurement integrity. Multistep capability allows the user to perform multiple tests in a sequence with the push of one button.

The Sentry 10 Plus AC Hipot Tester performs AC dielectric withstand (hipot) tests. The test voltage is programmable from 50V to 5kV AC with a resolution of 1V. The current range is 1μA to 20mA.

The Sentry 20 Plus AC/DC Hipot Tester has all the features of the Sentry 10 Plus in addition to DC hipot capability. The test voltage is programmable from 50V to 6kV DC with a resolution of 1V. The current range is 0.1μA to 5mA.

The Sentry 30 Plus AC/DC/IR Hipot Tester has all of the features of the Sentry 20 Plus in addition to Insulation Resistance (IR) testing. The IR measurement range is from 0.1MΩ to 50GΩ with test voltages from 50 to 1000VDC.

Program & Display Ground Continuity: The Sentry Plus Series can measure and display the resistance between the ground blade of the power cord and any exposed metal on the product.

Upgradeable: With the Sentry Plus Series, it is possible to add DC and/or IR test capability without purchasing a new instrument. The Sentry 10 Plus can be upgraded to a Sentry 20 or 30 Plus and the Sentry 20 Plus can be upgraded to a Sentry 30 Plus.

Meets UL Hipot Tester Requirements: The Sentry Plus instruments measure & display the output voltage directly at the output terminals. The instruments have both visual and audible failure indications, and after a failure the STOP switch must be pressed prior to another measurement.

Open/Short Circuit Mode: All Sentry Plus models have OS mode to detect connection of the device in order to prevent false readings. Open ensures the device under test is connected properly and Short ensures the device is not shorted prior to applying the high voltage. The Open value is programmable from 10-100% and the Short value from 100-500%.



For more detailed specifications, visit www.quadtech.com



For more information about special purchase, rent & lease options, call

1-800-253-1230
Fax 1-978-461-4295
Intl. 1-978-461-2100



HIPOT • LCR METERS • MEGOHMMETERS • MILLIOHMMETERS • CABLE TESTERS

Sentry 10, 20 & 30 Plus

AC Output Voltage:	Range: 50V to 5000V AC Resolution: 1Volt/step Frequency: 50/60 Hz selectable Waveform: Sinusoidal Regulation: $\pm(1\%$ of setting +5V)
Voltage Display:	Accuracy: $\pm(1\%$ of reading + 5V) Resolution: 1 Volt
AC Current Display:	Range: 0.001mA to 20mA AC Resolution: 1 μ A Accuracy: $\pm(1.5\%$ of reading + 5cnt)
High/Low Limit Test:	Range: 0.001mA to 20mA AC Low limit can be turned OFF

Sentry 20 & 30 Plus

DC Output Voltage:	Range: 50V to 6000V DC Resolution: 1Volt/step Regulation: $\pm(1\%$ of setting +5V)
Voltage Display:	Accuracy: $\pm(1\%$ of reading + 5V) Resolution: 1 Volt
DC Current Display:	Range: 0.0001mA to 5mA DC Resolution: 0.1 μ A Accuracy: $\pm(1.5\%$ of reading + 5cnt)
High/Low Limit Test:	0.1 μ A to 5mA DC Low limit can be turned OFF
Charging Current:	5mA max
In-Rush Current:	Monitors: 0.5 μ A - 5mA, OFF

Sentry 30 Plus

Insulation Resistance:	Range: 0.1M Ω - 50G Ω 0.1M - 1G: $\pm(10\% + 5$ cts), <100V 0.1M - 1G: $\pm(7\% + 5$ cts), <500V 1M - 1G: $\pm(4\% + 5$ cts), \geq 500V 1G - 10G: $\pm(7\% + 5$ cts), \geq 500V 10G - 50G: $\pm(12\% + 5$ cts), \geq 500V
IR Output Voltage:	Range: 50V to 1000V DC Accuracy: $\pm(1\%$ of setting +5V)
High/Low Limit Test:	0.1M Ω - 50G Ω High limit can be turned OFF

Common Features

Open/Short Circuit:	Voltage <100V; Frequency: 600Hz Open: 10-100%; Short: 100-500%
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Ordering Information

Sentry 10 Plus AC Hipot Tester	Optional Accessories:	S11	Gun Probe with remote start
Sentry 20 Plus AC/DC Hipot Tester	Calibration Data	S12	Load Box, resistive
Sentry 30 Plus AC/DC/IR Hipot Tester	S02 HV Lead Set, 1m, (std with unit)	S14	Load Box, custom resistors
Includes:	S03 Corded Product Adapter (115V)	S15	Interconnection Cable to S50
150697 Instruction Manual	S04 HV Lead Set, 2m	G16	International Power Strip
700070 Power Cable	S05 Foot Switch	G25	Corded Product Adapter (240V)
S02 Test Leads	S06 High Voltage Probe		
700100 Ground Continuity Lead	S07 Power Entry Adapter Cable		
Calibration Certificate Traceable to NIST	S08 Gun Probe		
	S09 HV Lead, 1 meter, unterminated		
	S10 HV Lead, 2 meters, unterminated		

Common Features

Ground Continuity:	Programmable: 0.1 Ω - 5 Ω , \pm 0.2 Ω Current: 0.1A or OFF
Arc Detection:	Arc Level: adjustable OFF or 1mA - 20mA AC & 5mA DC Arc Duration: > 10 μ s
Indication:	Pass/fail lights, audible sound
Time:	Ramp: 0.1 to 999s (\pm 20ms), OFF Dwell: 0.1 to 999s (\pm 20ms), (DC & IR) Test*: 0.1 to 999s (\pm 20ms), Continuous Fall: 0.1 to 999s (\pm 20ms), OFF *Test Time \leq 60seconds when VI=100VA *Test Time for IR: 0.3 to 999s (\pm 20ms)
Fast Discharge:	<0.2s Typical Voltage Discharge across DUT back through the HV transformer
Fast Cutoff:	<0.4ms Typical Cutoff of Voltage on FAIL and when STOP is pressed
Ground Fault Interrupt:	Automatic instrument shutdown for current imbalance >0.5mA \pm 0.25mA
EN 50190 Limit:	3mA AC, 5mA DC or OFF
Standard Interface:	Inputs: Start, Stop and Interlock Characteristics: 24V Active Low, Pulse Width \geq 20ms. Outputs: Pass/Fail/Under Test Characteristics: Dry Contact relay Ele. Characteristics: 115V <300mA Logic: Closed if True Connector: 9 pin Male D-Series
Test Setups:	60 Memory Locations/10 Steps
Connectors:	Front & Rear Connectors (HV and RTN) HV OUTPUT (Custom Banana) RTN/LOW (Binding Post) GC (Binding Post, Rear Only)
Front Panel Lockout:	Key press with or without memory recall
Miscellaneous:	Zero Offset
Dimensions:	(w x h x d):10.8 x 4.0 x 14.0 inches (270 x 100 x 350 mm)
Weight:	Net: 26.0 lbs (12kg) Ship: 28.0 lbs (13kg)
Environmental:	Meets MIL-T-28800E, Type 3, Class 5 Operating: 0°C to + 40°C Humidity: <80% Storage: - 10°C to + 60°C
Power:	•90 - 132V AC •50 or 60Hz •198 - 250V AC •300W max

For more detailed specifications, visit www.quadtech.com
For more information about special purchase, rent & lease options, call
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