

Sentry

50 Plus Ground Bond Tester

USES:

- Production Testing of Instruments and Appliances
- Testing of Information Technology Equipment, Medical Instrumentation, and other Electrical Products with 3-prong Power Cords
- Electrical Safety Testing of Motors, Generators, and Transformers
- Low Resistance Testing of Electrical Connections

FEATURES:

- Programmable Output Current from 3A to 30A AC
- Programmable Source Voltage from 1.0 to 8.0V rms
- Resistance Measurements from 0.1mΩ to 510mΩ
- Programmable High and Low Limits
- Programmable Test Time
- Storage of 99 Tests Setups with Multiple Steps per Measurement
- Remote I/O Interface
- Graphic LCD
- Front Panel Lockout
- 4-Terminal Kelvin Connection
- Built-in Calibration Software
- Compatible with Sentry & Guardian Series Hipot Testers

High Current Testing To 30 Amps

Introduction

The Sentry 50 Plus Ground Bond Tester provides up to 30A for high current testing to even the most stringent standards. The front panel of the Sentry instrument includes a digital display and user friendly control allowing test parameters and limits to be set easily without the high current activated.

Description

Wide Test Current Range: User programmable output current, 3A to 30A AC in 0.01A steps, provides extensive coverage for testing to UL, CSA, VDE, IEC and other agency safety requirements.

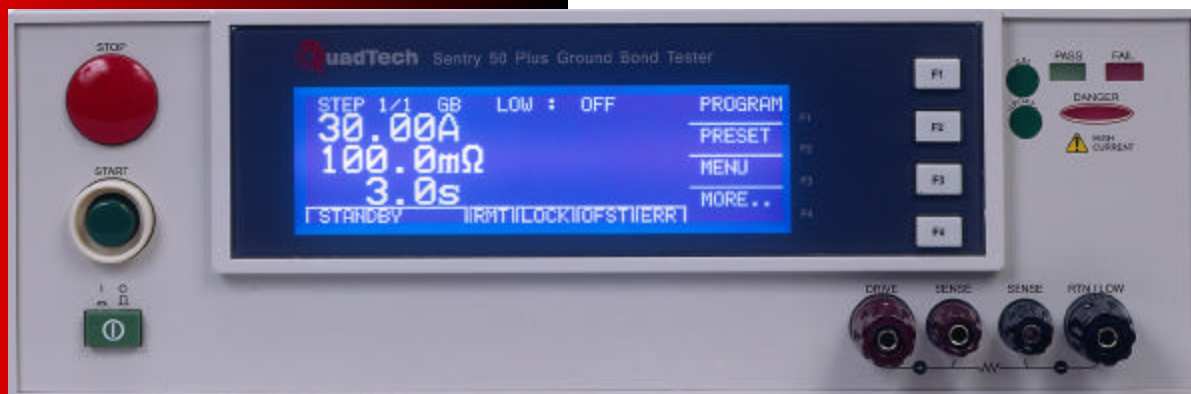
Programmable Source Voltage: Limit the voltage to the DUT using the programmable source voltage from 1.0V to 8.0V rms and meet the low voltage requirement of CSA 22.2 No. 0.4 Bonding and Grounding of Electrical Equipment (4V, 30A, 100mΩ limit, 2-minute test) plus many others.

Programmable High and Low Resistance Limits: A resistance measurement range from 0.1mΩ to 510mΩ, plus user programmable high and low resistance limits with Pass/Fail indication, make this tester ideal for production Go/NoGo testing.

Remote Control: Incorporate the Sentry 50 Plus unit into an automated manufacturing environment with remote start and Go/NoGo results output through the rear panel PLC interface.

Hipot Compatibility: The Sentry 50 Plus can be used alone or connected to the Sentry Plus 10, 20 or 30 Hipot Testers for complete product electrical safety testing with the push of one button. When the Sentry 50 Plus has completed a continuity test, with pass indication, it can remotely start the Sentry Plus Series instrument for a hipot test in sequence.

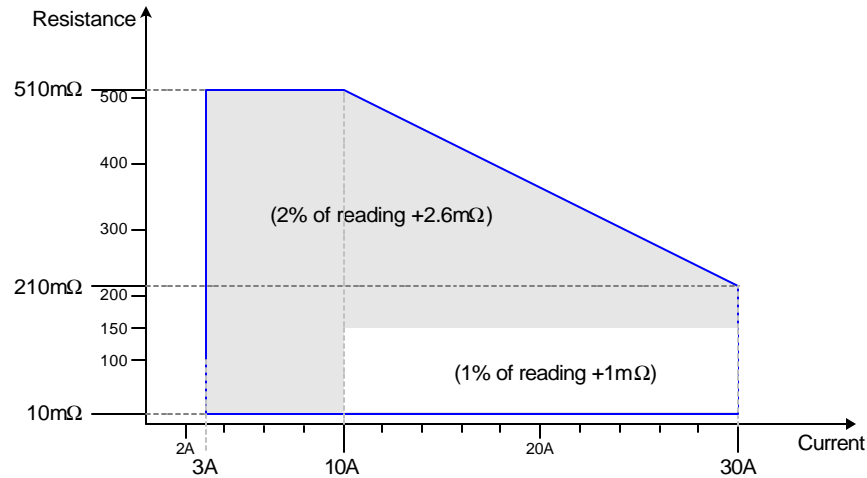
Built-in Calibration via Software: Front panel display of an operator prompted calibration routine makes for no internal adjustments.



Distributed by
TestEquity Inc.
800-732-3457



Sentry 50 Plus



Output Current: Range: 3.00A to 30A AC
 Resolution: 0.01A, 3-30A
 Accuracy: ±(1.5% of setting + 0.15A)
 Accuracy: ±(1.5% of reading + 0.15A)
 Frequency: 50 or 60 Hz, ±0.1%

Source Voltage: Range: 1.0V to 8.0V rms
 Resolution: 0.1Volt/step

Resistance: Range: 0.1mΩ - 510mΩ
 Accuracy: 10-30A, 10-150mΩ: ±(1% reading + 1mΩ)
 Accuracy: All other ranges: ±(2% of reading + 2.6mΩ)

Limits: High: 0.1mΩ - 510mΩ
 Low: 0.1mΩ - High Limit, or OFF

Offset: 0 to 100mΩ, user selectable

Indication: Pass/Fail display, LEDs & audible alarm

Test Time: 0.5 to 999s
 Continuous Mode

Standard Interface: Remote
 Inputs: Start, Stop and Interlock
 Characteristics: 24V Active Low, Pulse Width ≥20ms.
 Outputs: Pass/Fail/Under Test
 Characteristics: Dry Contact relay
 Elec Characteristics: 30VAC/60VDC, <0.3A
 Logic: Closed if True
 Connector: 9 pin Male D-Series

Test Setups: 99 Memory Locations, 99 Steps, max 500

Connectors: 4-Terminal Kelvin Connection
 4 Binding/Banana Sockets: Front & Rear
 1 Chassis Ground Banana Socket

Front Panel Lockout: 11-digit password with or without setup recall

Display: 40x4 Character Graphic LCD

Hipot Compatibility: Sentry & Guardian Series Hipot Testers

Dimensions: (w x h x d): 12.5 x 4.5 x 15.5 inches (312.5 x 112.5 x 387.5 mm)

Weight: 34 lbs (15.4kg) net,
 40 lbs (18.1kg) ship

Environmental: Meets MIL-T-28800E, Type 3, Class 5
 Specifications: 18°C to + 28°C, 70% RH
 Operating: 0°C to + 40°C, 80% RH
 Storage: - 10°C to + 60°C, 90% RH

Power: 100V, 120V, 220V AC ±10%
 240V AC -10% +5%
 50 or 60Hz
 880W max

Ordering Information

Sentry 50 Plus Ground Bond Tester

Includes:

150743 Instruction Manual
 700070 Power Cable
 G15 Ground Continuity Lead Set
 520107 10A 250V Fuse (1)
 520068 5A 250V Fuse (1)
 N/A Calibration Certificate Traceable to NIST

Optional Accessories:

Calibration Data
 S05 Foot Switch
 S15 Interconnection Cable to SPlus Series
 G13 Corded Product Adapter(115V)
 G15 Ground Continuity Lead Set
 G16 International Power Strip
 G25 Corded Product Adapter (240V)