



# Sentry Series 50

## High Current Ground Bond Tester

### USES:

- Production Testing of Appliances, Instruments and Information Technology Equipment with 3 Prong Power Cords
- Transformer Electrical Safety Testing
- Electric Motor Safety Testing
- Variety of Electronic Components
- Testing Electronic Components

### FEATURES:

- Adjustable Output Current from 1A to 30A AC
- Adjustable High and Low Resistance Limits
- Adjustable No-Load Voltage Limit
- Current, Resistance and Voltage Display
- Zero Offset of Lead Resistance
- Programmable Test Time
- 4 terminal Kelvin Connection
- Under Test Warning Indicator
- Setup Storage
- Remote Control
- Built-in Calibration Software
- Beeper On/Off

### Introduction

The Sentry 50 provides high current testing of ground continuity between chassis and power cord ground on a wide variety of electrical products and appliances. The unit is designed for maximum flexibility and operator convenience in mind. The Sentry 50 is ideal for Electrical Safety Compliance Testing in a variety of environments.

### Description

**Wide Test Current Range** User programmable output current, 1A to 30A AC in 0.01A steps, provides extensive coverage for testing to UL, CSA, VDE, IEC and other agency safety requirements.

**Programmable High and Low Resistance Limits** A resistance measurement range from 0.1mΩ to 510mΩ and user programmable high and low resistance limits with pass/fail indication.

**Remote Control** Can be incorporated into an automated manufacturing environment with remote start and Go/NoGo results output through the rear panel PLC interface.

**Connection to Sentry 10 through 35 AC/DC Hipot Testers** The Sentry 50 can be used alone or connected to a Sentry 10 - 35 for complete product testing with the push of one button. When the Sentry 50 has completed a continuity test, with pass indication, it can remotely start the Sentry 10 - 35 for a Hipot test in sequence.

**Easy to Use** The simple front panel of the Sentry 50 requires less effort to operate. Digital display and user friendly control allows test parameters and limits to be set easily without the high current activated. The instrument can be put on line fast, providing useful measurements by operators with little to no training.

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

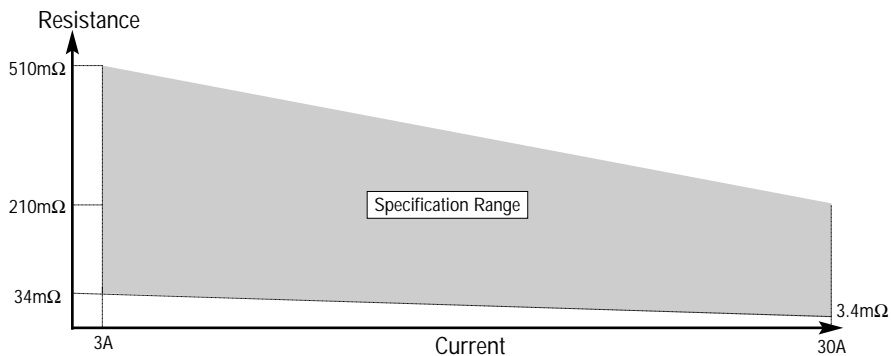


For more detailed specifications, visit [www.quadtech.com](http://www.quadtech.com)

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

1-800-253-1230  
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**Output Current:** Range: 3.00A to 30.00A AC, Setting 0.01A/step  
 Useable down to 1.00A  
 Accuracy: +/- (1% of setting + 0.3A)  
 +/- (2% of reading + 5 counts)  
 Frequency: 50 or 60 Hz

**Voltage Limit:** Range: 6.0 to 15VAC, Setting 0.01V/step

**Resistance:** Range: 0.1mΩ - 510.0mΩ, 4 digits, (See Figure Above)  
 Hi/Lo limits  
 Accuracy: +/- (1% of reading + 5 counts)

**Offset Function:** 0 to 100mΩ offset, user selected

**Test Time:** 0.1 - 999sec (+/-20ms) for I < 25A AC  
 0.1 - 60sec (+/-20ms) for I ≥ 25A AC  
 setting 0.1sec < 100sec and 1 sec ≥ 100sec  
 continuous operation mode

**Remote Control:** Remote Start, Stop, Interlock, Pass/Fail Output via 9-Pin D series connector and terminal strip  
 Start/Stop/Interlock: active low  
 Pass/Fail Output: via relays, 115V AC 300mA

**Mechanical:** Bench mount with carry handle

**Dimensions:** (w x h x d): 11x4x14 in (270x100x350mm)

**Weight:** 25 lbs (12kg)  
 Shipping: 30 lbs (14kg)

**Environmental:** Meets MIL-T-28800E, Type 3, Class 5  
 Operating: 0 to + 40° C  
 Humidity: <75%  
 Storage: - 10 to + 60° C  
 Warm-up Time: 1minute

**Power:** • 90 - 130V AC • 50 or 60Hz  
 • 200 - 250V AC • 300W max

**Ordering Information**

Sentry 50 Ground Bond Tester	<b>Optional Accessories:</b>	G14	Power Entry Adapter
<b>Includes:</b>	Calibration Data	G15	GC lead set (std w/unit)
150285 Instruction Manual	S05 Foot Switch	G16	International Power Strip
700070 Power Cable	S15 Interconnection Cable to S10-S35	G25	Corded Product Adapter (240V)
G15 Ground Continuity Lead Set	S16 Rack Mount Kit		
Calibration Certificate Traceable to NIST	G13 Corded Product Adapter (115V)		
Fuse			

