



Static Control & Monitoring System

Sentry MkIII Product Description

Sentry MkIII verifies ESD grounding devices (wrist straps, foot straps and footwear) and logs results. It is used in industries where static control and monitoring procedures are important, such as in electronic manufacturing, petroleum and chemical processing, munitions production and storage, flour milling and processing, and hospitals.

Sentry provides compliance with IEC61340-5 and ANS/ESD S20.20 that require:

- ☑ Wrist and foot straps should be tested regularly.
Daily, per shift or on entry and re-entry to an EPA. ESD Appendix B - Foot Grounder Usage Guidance.
- ☑ Compliance verification records shall be established and maintained to provide evidence of conformity to the technical requirements. *ANSI/ESDS20.20-2007 Section 7.3.*
- ☑ Conductive footwear tested to an upper limit of 100KΩ for hazardous areas or handling sensitive explosives.
IEC/TS60069-3-1/ESD-S20-20-2007.

Sentry tests any combination of wrist and foot straps in a single operation.

Operators enter their identity code by keypad, bar code, magnetic stripe or proximity card. The measurements are checked against user-defined limits, then stored with the date, time, operator identity and a pass/fail flag. Green and red LEDs indicate PASS and FAIL for each measurement with an audible tone on fail. Voltage-free contacts provide access control for entry doors, turnstiles and gates.

Sentry is equipped with an Ethernet port for network and non-network configurations. Communication and control for single units may be achieved with a crossover cable. Multiple units installed at EPA entrances are linked by the user network. A USB port is provided for engineering, verification and firmware update.

Sentry does not need calibration, however an optional Verification package is offered to meet the requirements of customers to confirm measurement accuracy is within published specification.

Observer software is supplied on site licence for single and multiple Sentry installations for network and non-network configurations. It runs under Windows operating systems, provides set-up control and straightforward, yet comprehensive, operation.

Observer offers a range of valuable features for the management and analysis of test results. Reports and graphs can be generated and results can be viewed and filtered with a range of parameters, such as staff name, team, date, test pass or test fail.

The workload on line-managers and supervisors is minimised because **Observer** performs routine tasks automatically. Scheduled activities can be run per shift, daily, weekly, and at selected times.

Critical information, such as reports of staff that have NOT passed the ESD test, is sent by email to managers and supervisors. This, and other essential management information, is provided in 'real-time' as the Sentry units are used.

Administrator provides the user-interface for the ESD co-ordinator or the manager responsible for the ESD procedures. It provides executive read/write capability to set up, modify and control the entire Sentry installation.

Monitor may be installed on multiple user networked PCs to be used by user managers and supervisors. It provides read-only access to the database to:

- View and analyse the test results
- Prepare, print and publish reports

Sentry Service provides communication with the Sentry units and the database in 'real-time'. It was designed to run continuously on a server or a client PC to monitor and communicate with the Sentry units.

Does your tester only indicate PASS or FAIL?

A major company discovered they were using the wrong footwear because

- ☑ **Sentry** measures resistance accurately



Sentry ■ Always on guard
Sentry is designed and manufactured in the UK.





To operate **Sentry**

- Hold either of the Sentry grab handles
- Connect wrist strap and stand on footplate
- Enter identity via keypad, barcode, mag. stripe swipe or proximity card reader.

Then **Sentry**

1. Uses the identity code to apply the appropriate tests for each individual
2. Measures resistance for wrist and feet
3. Compares measurements with programmed limits
4. Logs in local memory measured values, time, date, operator identity and pass or fail status
5. Illuminates indicators for Pass Fail status and activates buzzer for Fail.
6. Operates voltage-free relay contacts for access control
7. Passes test results to the Sentry database for immediate analysis via SQL for management software.

BENEFIT SUMMARY

Sentry offers benefits to an entire organisation:

To ESD Co-ordinators

- ◆ *Control of ESD procedures in the company Quality Manual with automatic collection of results and reporting of non-compliance.*
- ◆ **To Operators**
A simple and reliable test procedure.
- ◆ **To Line Managers and Supervisors**
Accurate information in real-time on attendance and those who have NOT tested.
- ◆ **To Quality Managers**
Compliance with IEC61340-5 and ANSI/ESD S20.20.
- ◆ **To Production Managers**
*Saves time and costs
Improves productivity and quality*
- ◆ **To Directors and Senior Managers**
Information when it is needed.
- ◆ **To Finance Managers**
ROI that can be demonstrated.
- ◆ **To All Users**
Gets rid of 'pencil and paper' recording.

Sentry - Basic Unit Configuration

- Tests wrist straps and footwear
- Measures from 2KΩ to 1GΩ
- Conductive footwear test to upper limit of 100KΩ
- Tests single-wire and dual-wire* wrist straps
- Grab handles
- LCD display screen
- Numeric pad + key lock
- 12 volt DC regulated power supply
- Interface for proximity, barcode or mag. stripe-card reader
- 10 / 100 Mbps local area Ethernet interface
- USB* and RS232 serial interface
- Free relays for door access control

NOTE: Items marked * are not available with upgrade from MkII.

Software

- **SentryNet** software and manual on CD

Options:

- Double Foot Plate
- Card Reader (proximity, barcode or mag. stripe)
- Verification Pack for in-house verification and certification
- On-site support for installation and training



Sentry

Your first choice for compliance with
IEC 61340-5 and ANSI/ESD S20.20



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