STATICO

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S2221
Wrist Strap Monitoring System
For Single Operator

Front View

Back View

Description

The S2221 is a small & precise device for constant performance monitoring of standard single conductor wrist grounding straps, with Audio/Visual alarm features.

Specifications

- On/Off Switch on the front panel
- When powered up & at the On position, Constantly Monitors of the Wrist Strap for Skin Contact, 1 Meg Resistor, & Ground Connection
- LED Indicator on the front panel

    a. **Green** *for* **Pass** (indicates that Wrist Strap resistance is low enough for safety of electronic devices being handled by user).

b. **Red** *for* **Fail** (indicates that Wrist Strap resistance is too high to dissipate charges fast enough to guarantee safety of electronic devices being handled by user).
- Wrist Strap Receptacle on the front panel
- 6V DC Receptacle on the back panel
- 2 Recessed holes for Mounting Screws
- Ground Connection Post on the back panel
- The S2221 is packed in a box of 5"X3.5"X2" (140X90X50mm) & consist of
  - The Monitor 2-5/16"X2-1/4"X1"(60X55X25mm)
  - A Grounding Wire
  - 2 Mounting Screws
  - An AC/DC class 2 Adapter (Input: 120VAC 60Hz 35mA; Output: 6V DC 300mA), UL Listed.

Installation

1. Mount the Monitor in the desired location with good visibility & convenience for operator to plug into.
2. Connect the supplied Grounding Wire (Green color with Yellow line) to the Ground terminal on the back panel, by unscrewing the Ground Post, sliding the ring terminal of the cord on the post, and screwing it back.
3. Connect the other end of Grounding Wire to the ESD Ground.
4. Connect the 6V Power Plug into the Monitor at the Receptacle on the back panel, and then Plug-In the monitor Power Supply to the 115VAC power outlet.

Operation

1. Turn the Monitor On by shifting the sliding switch to ON position, on the front panel labeled Off/On.
   At this position the Monitor should give sound alarm and the LED should turn to blinking Red.
2. Wear the Wrist Strap & make sure that your wrist strap is in good contact with your skin and properly fastened.
3. Plug-In the wrist strap to the Receptacle on the front panel labeled Wrist Strap.
4. At this position if your wrist strap is OK the audible alarm will stop & LED will turn to a constant Green.
5. As long as the Monitor & Wrist Strap is properly connected, LED will stay Green, otherwise the audible alarm and the Red blinking LED will go on indicating one or more of the above mentioned steps are missing or you have a bad wrist strap with resistance higher than 10Meg .
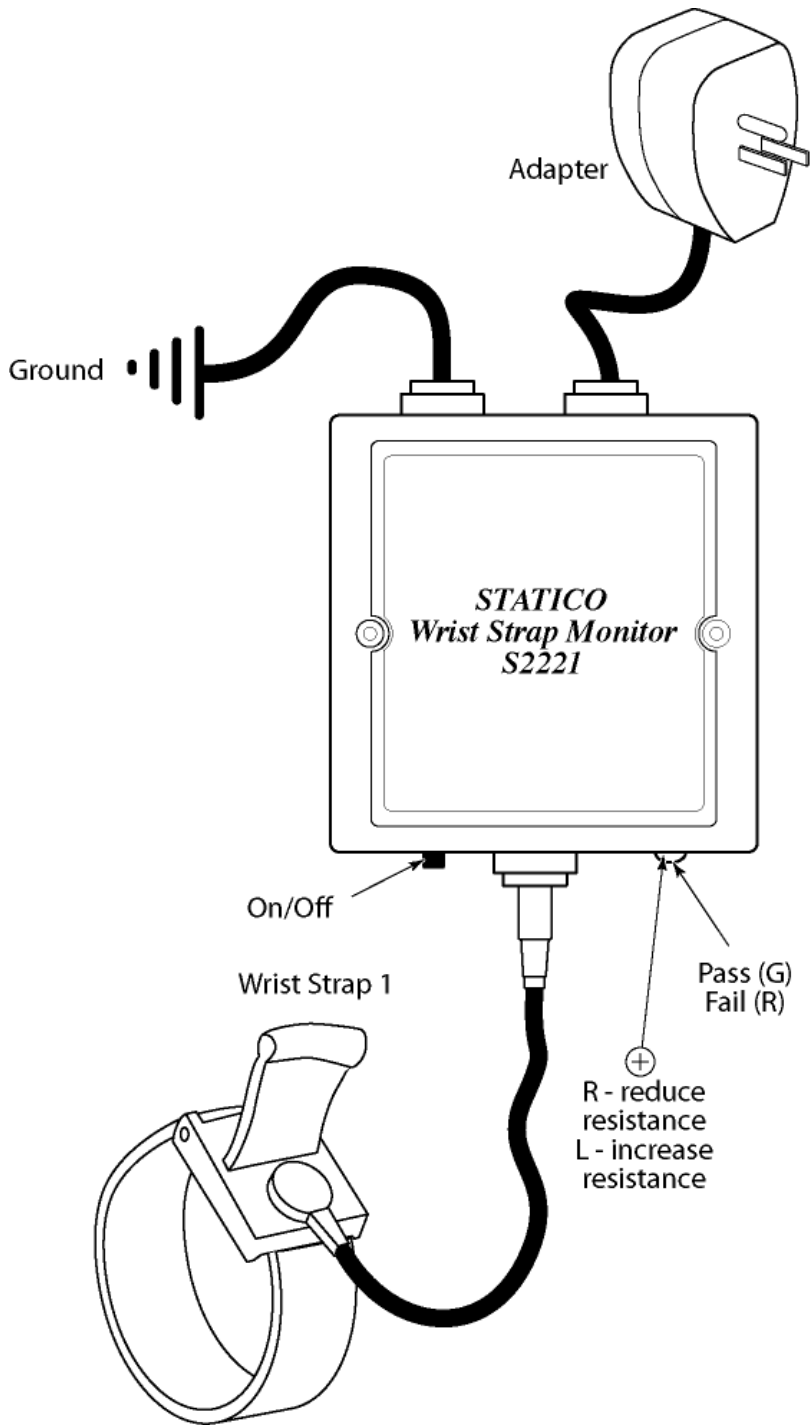
Calibration

Refer to Calibration Procedure Document (S2221/CP).

Note.:

The S2221 is a Capacitance-Base monitor. It may require adjustment, as body resistance differs for each individual user.

- If the body resistance is low, turn the adjustment pot to the Left to increase the resistivity. At the adjusted point the LED will turn GREEN.
- If the body resistance is High, turn the adjustment pot to the Right to decrease the resistivity. At the adjusted point the LED will turn GREEN.

PDS/S2221/Rev.2/614.

Adapter

Ground

STATICO
Wrist Strap Monitor
S2221

On/Off

Wrist Strap 1

Pass (G)
Fail (R)

R - reduce
resistance
L - increase
resistance

PI/S2221/Rev1.0709.