STATICO

Product Specifications for S2221 Wrist Strap Monitoring System for Single Operator

Front View

Back View

Description

The S2221 is a small & precise device for constant 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 the Wrist Strap for Skin Contact, 1 Meg Resistor, & Ground Connection**
- **LED Indicator on the front panel**
  - *a.* **Green for Pass**
  - b. **Red for Fail**
- **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**
  - o **The Monitor 2-5/16"X2-1/4"X1"(60X55X25mm)**
  - o **A Grounding Wire**
  - o **2 Mounting Screws**
  - o **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 Grounding Wire (Green color with Yellow line) to the Ground Connection Point on the back panel. Unscrew the Ground Post, slide the ring terminal of the cord on the post, and screw 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. 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.
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.
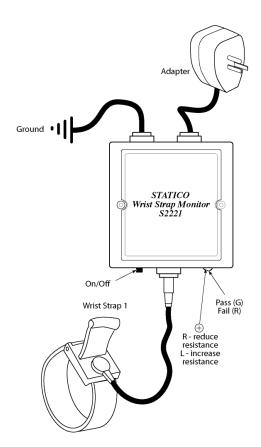
Calibration

1. Connect a resistance decade box to the ground terminal and operator jack on the monitor.
2. Set the resistance decade box to 1.2 megohms.
3. Power the monitor ON.
4. Turn the monitor's potentiometer until it just reaches PASS.
5. Set the resistance decade box to 2.0 megohms. Confirm that its LED indicates FAIL.

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.