

Single-Line Wrist Strap & Mat Monitoring System

Part No. CM-S2555



CM-S2555

The CM-S2555 is a precise capacitance-base system for monitoring a standard single-conductor Wrist Strap & Cord, and the ground connection of a static dissipative bench surface. The system constantly checks the integrity of the Wrist Strap & Cord for a built-in 1 Meg Ω current limiting safety resistor and continuity from the operator, through the Wrist Strap & Cord to the Common Ground.

The System consists of:

- A. 1 off - Monitor (S2555)
- B. 1 off – 1.8m Straight Cord, Banana-To-Mono end terminations, to connect the Monitor to the Common Point Ground (CPG) on the Mat.
- C. 1 off - Isolated Adapter with 2.1m straight cord, 3-Prong-To-Mono end terminations, to connect the Monitor to the power outlet.
- D. 1 Pair – 25 x 50mm (Hook & Loop) Velcro, to mount the Monitor to the bench.
- E. An Optional Insulated Metal Bracket with 2 screws is also available for mounting the Monitor to the bench.
- F. 1 off - Alligator Clip.

Specifications/Operations

1. Inspect the package to ensure all components, as listed above, are in the box.
2. Mount the Monitor in a visible, convenient location.
3. Connect the Adapter “C” to the Monitor “A” at the back; marked POWER.
4. Plug-In the Adapter “C” to the Power outlet.
5. Connect Mono plug of “B” to the back of Monitor “A”; marked BENCH SYSTEM GROUND.
6. Connect Banana plug of “B” to the Common Point Ground (CPG) on the mat or via the Alligator Clip to the bench mat if 2-layer bench mat is used.
7. Make sure that the Mat is properly grounded.
8. Insert banana plug of Wrist Strap to the 4mm socket on the front panel of the Monitor; marked GREEN-Pass / RED- Fail.
9. Wear the wrist strap properly and make sure that the inner layer of wrist strap making a good contact with your skin.
10. Both LEDs on the front panel of “A”, marked as Bench & Operator, should turn Green & Stop Beeping. Otherwise, go through step 1-9 & make sure all has been followed and checked. If either one of 2 LEDs on the Monitor did not turn Green, contact your supervisor.
11. Operator Fail Test Range: > 6.5 meg ohm
12. Mat Fail Test Range: >6.8 Meg Ω .
13. The CM-S2555 does not require adjustment, but periodical verification of its performance is recommended.
14. To test the proper functioning of the Monitor, use CMS-MTB1 Test Box for periodical performance check of the CM-S2555.

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