

Portable Wrist Strap Tester Installation, Operation and Maintenance



Made in the
United States of America



Figure 1. Vermason [225221](#) Portable Wrist Strap Tester

Description

Per ANSI/ESD S20.20, test equipment is required to enact the Compliance Verification Plan Requirement. Test equipment shall be selected to make measurements of appropriate properties of the technical requirements that are incorporated into the ESD program plan. The Wrist Strap Tester can be used to fulfill ANSI/ESD S1.1, "The wrist strap system should be tested daily to ensure proper electrical value" (Annex A3). Being a portable battery powered tool, it is perfect for small labs or for a supervisor to spotcheck workers and/or ensure compliance.

The Vermason 225221 Portable Wrist Strap Tester is a battery operated "on demand" wrist strap tester. When the wearer of a wrist strap plugs in their coil cord and touches the metallic surface of the Wrist Strap Tester, a path for current flow is completed from the wearer's skin, through the wrist strap. This action will cause the green "test good" LED to illuminate as long as the resistance of the circuit path is between 750 kilohms and 35 megohms.

Packaging

- 1 Wrist Strap Tester
- 1 9V Alkaline Battery
- 1 Hook and Loop Fastener Strip
- 1 Certificate of Calibration

Installation

Open the tester's battery compartment and install the included 9V battery. Use the included hook and loop fastener strip to mount the tester to a wall or worksurface.

NOTE: The low battery indicator flashes briefly every time the unit is used. Replace the battery once the indicator becomes constant during testing.

Operation

1. Fit the wristband snugly onto your wrist.
2. Snap the wrist cord to the wristband.
3. Plug the wrist cord into the tester.
4. Push and hold the test button until the test results are displayed.
5. An audible alarm will sound if the test fails. Verify that your wrist strap is being worn correctly or needs to be replaced. If your test result fails high, try applying an approved dissipative hand lotion such as [Menda Reztore® ESD Hand Lotion](#) to your wrist.

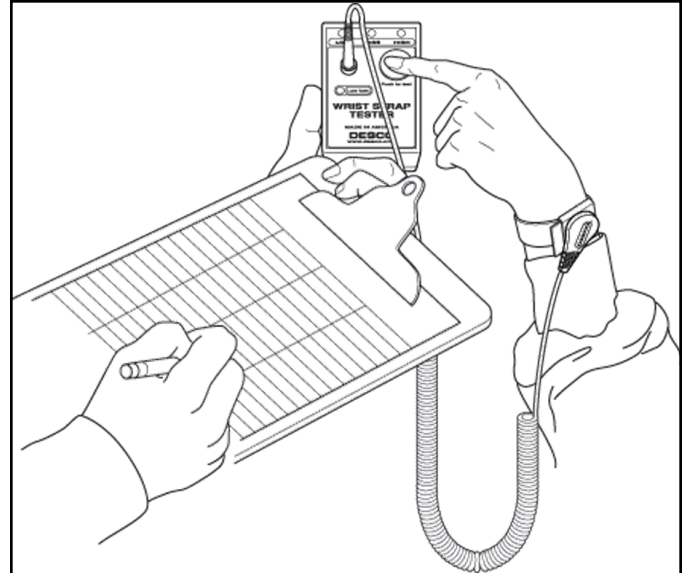


Figure 2. Using the Portable Wrist Strap Tester and recording its results

Calibration

The Vermason Portable Wrist Strap Tester is calibrated to NIST traceable standards. There are no user adjustments necessary. We recommend that calibration be performed annually using the Charleswater 99090 Calibration Unit. It is a convenient product which allows the customer to perform NIST traceable calibration on single-wire personnel testers. The 99090 is designed to be used on the shop floor at the workstation, virtually eliminating downtime, verifying that the continuous monitor is operating within tolerances.

View technical bulletin PPE-5034.E for more information on the Charleswater 99090 Calibration Unit and instructions to calibrate the Portable Wrist Strap Tester.

Specifications

Power Supply	9V Alkaline Battery
Operating Temperature	32°F to 104°F (0 to 40°C)
Test Limits	750 kilohms to 35 megohms
Test Accuracy	±10% @ 750 kilohms ±15% @ 35 megohms
Test Voltage	4 VDC
Dimensions	3.6" x 2.6" x 1.1" (91 mm x 66 mm x 28 mm)
Weight	4 oz (113 g)



Figure 3. Charleswater 99090 Calibration Unit

Limited Warranty, Warranty Exclusions, Limit of Liability and RMA Request Instructions

See the Desco Europe Warranty - DescoEurope.com/Limited-Warranty.aspx