

Compact Tester Installation, Operation and Maintenance



Made in the
United States of America



Figure 1. VER-29203 Wrist Strap Test Station.

Description

The Vermason Compact Tester series can be used to test personnel wrist straps and footwear. The tester uses LEDs and an audible alarm to indicate whether the measured resistance is within the range specified by EN 61340-5-1.

A foot plate is included with the Vermason Compact Tester to allow users to test both their footwear and wrist strap. The Compact Tester is powered by a 9V PP3 battery for portability.

“Wrist straps shall be checked before use. Each check shall be made with the wrist band worn in contact with the wearer’s skin and with the ground cord attached to the appropriate tester.” [EN 61340-5-1 clause 9.6 Daily checks, clause 9.6.2 Wrist strap]

“Where toe and heel straps are used as ESD footwear, once these are worn outside the EPA [ESD protected area], particularly on carpets, they are likely to accumulate fluff and become ineffective; this requires that they be checked or replaced on every visit to the EPA. ...When ESD footwear is used, it should be noted that ESD footwear alone cannot achieve protection, but needs to be used in conjunction with a suitable ESD floor.” [EN 61340-5-2 Clause 5.2.8 Footwear]

“All wearers shall check that their heel and toe straps meet requirements [of Table 1 NOTE 2 – ‘When the footwear/ floor systems are used as the primary means of grounding personnel, the resistance of the combination shall be determined by the ESD co-ordinator, and is recommended to be between 7.5×10^5 and 3.5×10^7 ohms]. The check shall be made before entering the EPA.” [EN 61340-5-1 Daily checks, clause 9.6.3 Non-permanent footwear]

Packaging

Remove the test unit from the carton and inspect for shipping damages.

- 1 Compact Wrist Strap Tester
- 1 9V PP3 Alkaline Battery
- 1 Wall Plate

Procedure to test wrist strap

1. Wear wrist band. Choose one that fits snugly or adjust it to do so.
2. Connect the ground cord securely to the band using the snap connector.
3. Connect the other end of the cord to a matching termination on the tester.
4. Push the contact plate on the tester with one or two fingers. The tester will now indicate whether the total resistance is within the acceptable range.
5. Green light and buzzer indicate that the specification is met.
Green = OK
6. A red light on either High fail or Low fail indicates non-conformance.
Red = FAIL

If the wrist strap fails, do not proceed. Contact your supervisor or follow your company procedure.

Procedure to test Footwear

1. Place one foot on the test plate and depress the contact plate on the tester. The tester will now indicate whether the total resistance is within the acceptable range.
2. Green light and buzzer indicate that the specification is met.

Green = OK

3. A red light on either High fail or Low fail indicates non-conformance.

Red = FAIL

If the test plate fails, do not proceed. Contact your supervisor or follow your company procedure.

In case of non-conformance

The instrument measures the resistance of the external circuit between the metal contact button and the cord connectors or the foot test plates. The wrist band and cord, the plates and the footwear, the connection to the operator, the operator’s body resistance and the fingertip button contact are all part of the circuit. In case of a failure being indicated, determine whether the wrist strap or the footwear alone is failing by ensuring that the other elements of the circuit are sound.

Note:

If ‘battery low’ light comes on, insert a new 9V alkaline PP3 battery. The ‘battery low’ threshold is factory set at 6.5V.

Calibration

Frequency of recalibration should be based on the critical nature of those ESD sensitive items handled and the risk of failure for the ESD protective equipment and materials. Vermason recommends annual calibration for all testers, monitors and ionisers. Please use VER-28532 to verify the calibration of your Compact Tester.

Limited Warranty

Vermason expressly warrants that for a period of one (1) year from the date of purchase, Vermason Compact Testers will be free of defects in material (parts) and workmanship (labour). Within the warranty period, a unit will be tested, repaired or replaced at Vermason's option, free of charge. Call Customer Service at 0044 (0) 1462 672005 for a Return Material Authorisation (RMA) and for proper shipping instructions and address. Any unit under warranty should be shipped prepaid to the Vermason factory. You should include a copy of your original packing slip, invoice, or other proof of purchase date. Warranty repairs will take approximately two weeks.

If your unit is out of warranty, Vermason will quote repair charges necessary to bring your unit to factory standards. Call Customer Service at 0044 (0) 1462 672005 for a Return Material Authorisation (RMA) and proper shipping instructions and address.

Warranty Exclusions

THE FOREGOING EXPRESS WARRANTY IS MADE IN LIEU OF ALL OTHER PRODUCT WARRANTIES, EXPRESSED AND IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH ARE SPECIFICALLY DISCLAIMED. The express warranty will not apply to defects or damage due to accidents, neglect, misuse, alterations, operator error, or failure to properly maintain, clean or repair products.

Limit of liability

In no event will Vermason or any seller be responsible or liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, users shall determine the suitability of the product for their intended use, and users assume all risk and liability whatsoever in connection therewith.

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