

HIGH SPEED, HIGH ACCURACY WRIST STRAP TESTER AND TEST STATION

Installation, Operation and Maintenance



Figure 1. 222514 Test Station.

Description

A digital instrument with a programmable IC at its heart that will test the resistance of an operator's grounding system. The tester will test the operator's wrist strap. The instrument will indicate whether the resistance is in the ranges specified in EN 61340-5-1.

"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 paragraph 9.6 Daily checks, paragraph 9.6.2 Wrist strap]

Inspection

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

Each 222508 unit includes the following:

- 1 Test unit, item #222508

Each 222514 unit includes the following:

- 1 Test unit, item #222508
- 1 Wall panel

Installation

1. Mount wall panel (if supplied) at eye level on a wall conveniently situated near the EPA. Staff will use the test station upon entering the EPA.

2. Install a battery in the tester.
3. Mount tester on the wall panel.

Procedure to test wrist strap

1. Wear wristband. 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 round metal button in the centre of the tester with one finger. The tester will now indicate whether the total resistance is within the acceptable range.
5. Green light and buzzer indicate that the total resistance is either less than 10M Ω or less than 35M Ω .

Green = OK

6. A red light indicates non-conformance.

Red = FAIL

Do not proceed in the usual manner but contact your supervisor or follow your company procedure.

7. Contact your supervisor if the battery low light comes on.

In case of non-conformance

The instrument measures the resistance of the external circuit between the metal contact button and the cord connector. The wristband and cords 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 wriststrap alone is failing by ensuring that the other elements of the circuit are sound.

Note:

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

Specifications

Resistance Limits

Wrist straps: Low - 0.75M Ω
High - 10 and 35M Ω

Accuracy $\pm 5\%$

Weight 0.1kg excluding battery

Dimensions 145 x 90 x 32mm

Power supply 1 x 9 volt PP3 cell, preferably alkaline

Battery life typical 3000 tests (3s per test)

Limited Warranty

Vermason expressly warrants that for a period of one (1) year from the date of purchase, Vermason High Speed, High Accuracy Wrist Strap Testers and Test Stations 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.