



RS-253-0727

Compact Wrist Strap Tester Installation, Operation and Maintenance



Figure 1. 253-0727 Compact Wrist Strap Tester

Description

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

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]

Packaging

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

Each 253-0727 unit should include the following:

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

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
- Do not proceed in the usual manner but 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. The wrist band and cord, 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 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

RS recommends annual calibration for all testers, monitors and ionisers. Please use the RS 763-0945 to verify the calibration of your Compact Tester.

Specifications

Dimensions:

115mm x 70mm x 26mm

Mass:

0.1 kg excluding battery

Resistance Limit

Low: 750 kilohms
High: 35 megohms

Accuracy:

±5%

Power Supply:

9V PP3 Battery

Typical Battery Life:

3500 tests