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Datasheet

Wrist & Foot ESD Test Meter

RS Stock number [733-996](#)



Description

The Compact Tester series can be used to test personnel wrist straps ([222504](#), [222506](#)) and footwear ([222507](#)). 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 [222507](#) 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 coordinator, and is recommended to be between $7,5 \times 10^5$ and $3,5 \times 10^7$ ohms]. The check shall be made before entering the EPA.” [EN 61340-5-1 Daily checks, clause 9.6.3 Non-permanent footwear]



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Specifications:

Dimensions: 115 x 70 x 26mm

Mass: 0.1 kg excluding battery

Resistance Limit:

Low: 750 kilo ohms

High: 35 mega ohms

Accuracy: $\pm 5\%$

Power Supply: 9V PP3 Battery

Typical Battery Life: 3500 tests

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.