

## Datasheet

# RS PRO Compact Wrist Strap Tester

Stock No: 253-0727



### Technical Specifications:

Power Supply	9 V alkaline battery
Operating Temperature	5 to 30 ° C
Environmental Requirements	Indoor use only at altitudes less than 6500 ft. (2 km) Maximum relative humidity of 80% up to 85 ° F (30 ° C) Decreasing linearly to 50% @ 85 ° F (30 ° C)
Dimensions	115 mm x 70 mm x 26 mm
Weight	0.1 kg (excluding battery)
Test Limits	750 kΩ to 35 MΩ
Test Accuracy	± 10 %
Typical Battery Life	3,500 tests
Country of Origin	United States of America

## Features & Benefits:

- 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 9 V PP3 battery for portability.

## Quality Standards

EN 61340-5-1

# Additional Information

## 1. Typical verification frequency

“The typical verification frequency, used by industry, for wrist cords is once per shift due to the wrist cord’s importance to the success of the program and the likelihood of failure.” (CLC TR 61340-5-2 User guide compliance verification clause 4.3.3 Verification frequency).

## 2. When to substitute a new band

“While wearing the wrist strap, connect the loose end of the cord to the tester terminal and depress the test button or touch the metal test surface with a finger or hand. If the resistance is over  $3,5 \times 10^7 \Omega$ , test the cord alone for continuity. If the resistance of the cord alone is approximately  $1,0 \times 10^6 \Omega$ , check the fit of the band around the wrist and adjust it for a snug fit. Snap the cord back on the cuff and retest. If the resistance is still over  $3,5 \times 10^7 \Omega$ , substitute a new band.” (CLC TR 61340-5-2 User guide Wrist Strap clause 4.7.2.4.3 Test procedure)

## 3. Verification when a footwear is included

“For standing operations, personnel can be grounded via a wrist strap system or by a footwear-flooring system.

When a footwear-flooring system is used, personnel shall wear ESD footwear on both feet and the two following conditions shall be met:

- the total resistance of the system (from the person, through the footwear and flooring to ground) shall be less than  $1,0 \times 10^9 \Omega$ ;
- the maximum body voltage generation shall be less than 100 V.” (EN 6140-5-1 clause 5.3.3 Personnel grounding) “

The operator shall stand with one foot on the conductive footwear electrode. The hand contact plate shall be pressed to verify that the person/footwear system resistance is within acceptable parameters.

The test shall be repeated for the other foot. The test apparatus can be an integrated, commercially available tester or other instrumentation that is capable of measuring resistance from  $5,0 \times 10^4 \Omega$  to at least  $1,0 \times 10^9 \Omega$ .” (EN 6140-5-1 Annex A)

