



Hot News



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Dr. Zap

ESD SP9.2 Footwear Foot Grounders Resistive Characterization

2.0 Definitions

Foot Grounders: "Personnel grounding device worn on the shoe. The device makes electrical contact with the surface on which the wearer is standing. The device also makes contact with the wearer through either direct skin contact or by contacting moisture inside the shoe. This definition includes heel/toe grounders and booties or similar devices (excluding static control shoes)."

5.3 Marking (labeling)

"It is recommended that each foot grounder be marked with the manufacturer's name or logo and the current limiting resistance."

6.2 Compliance Verification Testing of the Foot Grounder System

"This test verifies the resistance of the foot grounder system. This can be accomplished by using an Integrated Tester"

APPENDIX A - Tester Voltage Influence on High/Accept/Low Indications - Results of a foot grounder continuity test may vary due to skin contact resistance. The variations of the skin resistance are mainly caused by the contact area, and the moisture on the skin. The higher the voltage applied to the skin, the less the skin contact resistance affects the total resistance of the system test.

Make sure to follow the manufacturer's instructions aware that different models may have some difference. Follow instructions:

- 1) Press the rocker switch toward "FOOTPLATE"
- 2) Place one foot on the plate. If the floor is conductive, lift the foot you are not testing off of the floor during this test. Make sure there is no cord plugged into the "WRIST CORD" jack.
- 3) Press the test button so that the unit activates. Hold for 2-3 seconds while flexing coil cord area near resistor.
- 4) Lighting of the green "PASS" LED indicates that the foot ground assemblies are functioning properly.
- 5) If either red "Fail LO" or red "Fail HI" LEDs light and the audible indicator sounds, the wearer should check the foot grounding device immediately.
- 6) Repeat steps with other foot.

This is consistent with ESD SP9.2 section 6.2.2 Integrated Tester Procedure

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Product




41203 - Combo Tester



The ESD Systems.com 41203 Combo Tester is a 3-state touch tester designed for fast, frequent testing of ESD personnel grounding devices. The Combo Tester incorporates a unique dual test circuit design which improves accuracy of testing and eliminates the need for separate wrist strap and foot grounder test units.

Features

- Dual test circuits - versatile, can test footwear or wrist straps
- LEDs display test results - simple operation with clear test result
- Battery powered
- Low battery indicator provides early warning to replace battery
- Optional AC adapter available
- Made in America

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Product

62580 - Semtronics SmartLog X3

Use ESD Systems.com item 62580 SmartLog X3 for Automated Personnel Grounding Verification tests. Just depress contact once to test footwear independently and wrist strap. Dual Independent Footwear and Wrist Strap Tester with latest automated logging.



Features

- 3 tests with 1 ID and 1 contact depressed
- All required components included in system
- Can be networked to company's Intranet with optional Ethernet Adapter, Item 62532
- Advanced Password Protection allows administrators to control changes
- Optional 26-bit proximity interface
- Optional Laser scanner
- Made in America

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Product

62100 - Semtronics Dual Independent Footwear and Wrist Strap Tester



The ESD Systems.com item 62100 Dual Independent Footwear and Wrist Strap Tester enables users to easily connect to automated door openers.

Features

- Tests either single or dual wrist strap
- Provides versatility for user to use either single or dual wire technology
- Relay time for door locking systems, password protection
- Independent alarming conditions
- Audio and visual alarms if the total resistance is below, within, or exceeds the user limits
- Stainless steel test plate
- Allows for individual footwear testing all in one test
- Made in America




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Applications for Periodic Testers

Periodic Testing Selection Chart

Comparison of our three Periodic Wrist Strap and Footwear Testing Options

Model #	Testing ranges	Compatible with dual wire wrist straps	Test wrist straps and footwear simultaneously	Logging function	Application	List Price	Estimated payback for 10 person program
 41203	Wrist straps(1) 1-10 Meg Foot grounders(1) 1-100 Meg	Single wire	3 separate tests required	Manual log paper	Small labs or areas with only a few operators	\$354.48	N/A
 62100	Wrist straps(1) 10-35 Meg Foot grounders(1) 35-100 Meg Shoes	Single & Dual wire	Tests all three testing circuits simultaneously	Manual log paper	Medium size operations where time savings are important	\$606.10	3 months
 62580	Wrist straps(1) *10-35 Meg Foot grounders(1) *35-100 Meg *Default Shoes	Single & Dual wire	Tests all three testing circuits simultaneously	Automatic Computer interface. Paperless data acquisition	Larger programs where time savings and automatic documentation are required	\$2,500.00	3 months

Application for periodic testers: Operations where mobility is important to production process. For applications where operator is stationary at workstation, constant monitoring is recommended as the most efficient and cost effective.

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Q:1210 When I come close to a post I usually get shocked. I don't even have to touch it. Do you have any suggestion, and what should I connect to the "ground"?

[see ANSWER 1210](#)

Q:1194 Are wrist straps just as powerful as smocks? Are my co-workers deluded in believing that their wrist straps are dissipating charges from loosely worn polyester-type street clothing as effectively as smocks?

[see ANSWER 1194](#)

Q:1192 Is it necessary to use special cloths with anti-stat cleaning solutions? If so, what kind? We're especially interested in cleaning the blue (dissipative) mats on our test bench?

[see ANSWER 1192](#)

Q:1191 Is it necessary to remove foot/heel grounders as one departs an ESD protected area? For workers that are continually stepping in and out (e.g. Quality Managers), are they inadvertently nullifying the protective properties of their footwear if they keep them on continuously?

[see ANSWER 1191](#)

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