

Static Locator Operation and Maintenance



Figure 1. Semtronics Static Locator

Description

Use the Semtronics Static Locator to locate items in the work area that are able of generating potentially harmful electrostatic charges. Per ESD Handbook TR20.20 2.4 "It should be understood that any object, item, material or person could be a source of static electricity in the work environment. Removal of unnecessary nonconductors, replacing nonconductive materials with dissipative or conductive materials and grounding all conductors are the principle methods of controlling static electricity in the workplace, regardless of activity."

Per ANSI/ESD S20.20 Paragraph 6.2.3.2. Protected Areas Guidance "All process essential insulators that have electrostatic fields that exceed 2,000 volts should be kept at a minimum distance of 12 inches from ESDS items."

Caution

- Do not handle it roughly.
- Do not use the unit in ways for which it is not designed.
- Do not disassemble the unit. This may result in damage to the unit.
- This unit is sensitive to water. The unit cannot be used in areas of steam or water.
- Do not use this unit in areas of high vibration, shock, hazardous gas, flammable gas or other dangerous environments.
- This could result in fire, shock, failure or other problems.

Specifications

Measurable Range: 0 - 19.99 kV

Measuring Distance: 2" (5 cm)

Tolerance: 5% or 100 V @ 2"

Battery Power: 6 VDC

Operating Environment: 0°C - 50°C, 20 - 90% Humidity

Storage Temperature: -10°C - 50°C

Operational Direction: Measurable toward the Sensor

Dimensions: 2"H x 1.71"W x 1.57"D

Weight: 170 g with batteries

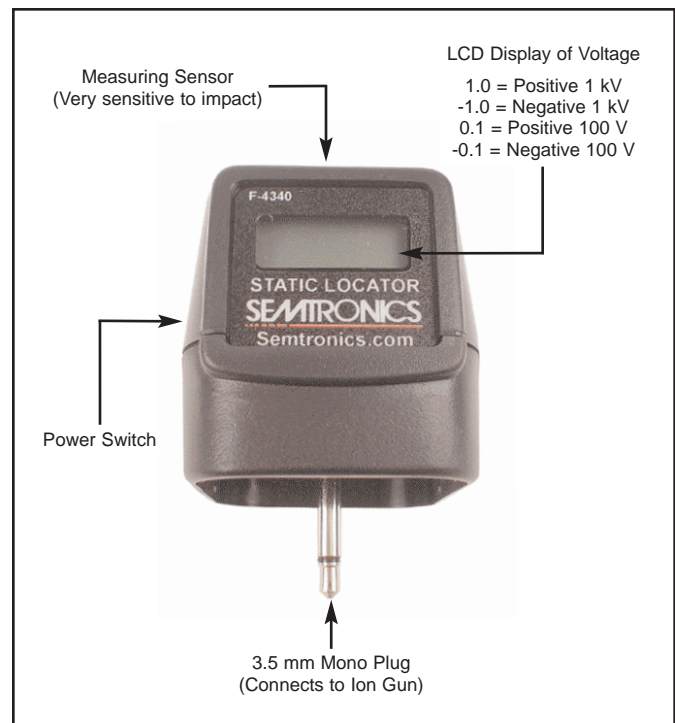


Figure 2. Semtronics Static Locator Features and Components

Operation

1. Measure Electrostatic Charge

- High charged materials will show no charge if there has been no contact and separation for some time. Electrostatic charges will normally be reduced over time in most environments as natural ions are attracted to the opposite charge thus neutralizing the charge. So in normal use, the item being tested by the Static Locator should be rubbed first, then tested.

2. Using the Static Blow Gun (sold separately)

- Attach the Static Locator to the Ion Gun and its power will automatically run off the Ion Gun. Ensure the power switch is in the ON position. There is a measured accuracy of +/- 5% when the Static Locator is 2 inches away from static charge.



Figure 4. Using the Semtronics Static Locator with the Semtronics Ion Gun



Figure 3. Connecting 62180 Semtronics Static Locator and 62418 / 62420 Semtronics Ion Gun

Limited Warranty

Semtronics expressly warrants that for a period of one (1) year from the date of purchase, Semtronics Static Locators will be free of defects in material (parts) and workmanship (labor). Within the warranty period, a unit will be tested, repaired, or replaced at our option, free of charge. Call Customer Service at 909-627-8178 (Chino, CA) or 781-821-8370 (Canton, MA) for Return Material Authorization (RMA) and proper shipping instructions and address. Include a copy of your original packing slip, invoice, or other proof of date of purchase. Any unit under warranty should be shipped prepaid to the Semtronics factory. Warranty replacements will take approximately two weeks. If your unit is out of warranty, Semtronics will quote repair charges necessary to bring your unit up to factory standards. Call Customer Service at 909-627-8178 for proper shipping instructions and address. Ship your unit freight prepaid.

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 Semtronics 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.