Static Locator
Operation and Maintenance

Description

Use the SPI 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 1. SPI Static Locator

Figure 2. SPI 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 SPI Static Locator with the SPI Ion Gun

Limited Warranty
SPI expressly warrants that for a period of one (1) year from the
date of purchase, SPI Static Locator 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 our Customer Service Department at 909-
664-9986 for a Return Material Authorization (RMA) and proper
shipping instructions and address. Include a copy of your
original packing slip, invoice, or other proof of purchase date.
Any unit under warranty should be shipped prepaid to the SPI
factory. Warranty repairs will take approximately two weeks.

If your unit is out of warranty, call our Customer Service
Department at 909-664-9986 for a Return Material Authorization
(RMA) and proper shipping instructions and address. SPI will
quote repair charges necessary to bring your unit up to factory
standards.

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 SPI 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.