

Static Locator Operation and Maintenance



Figure 1. EMIT Static Locator.

Description

Use the EMIT 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

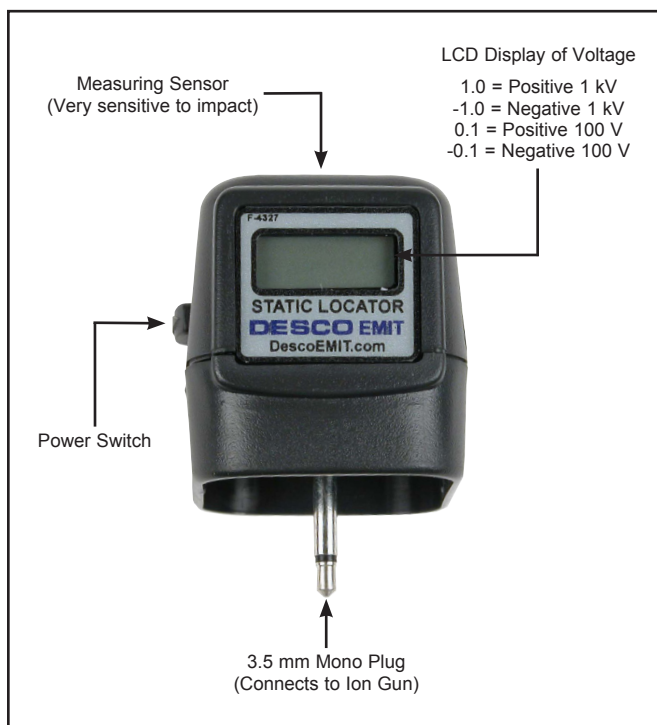


Figure 2. EMIT Static Locator Features and Components.

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 EMIT Static Locator with the EMIT Ion Gun.



Figure 3. Connecting 50629 Desco EMIT Static Locator and 50627 / 50628 EMIT Ion Gun.

Limited Warranty, Warranty Exclusions, Limit of Liability and RMA Request Instructions

See EMIT's Warranty -

<http://emit.descoindustries.com/Warranty.aspx>