



ACL 450

Ionized Environment Electrostatic Locator

Measure static accurately in ionized environments

The ACL 450 Digital Static Locator is ideal for determining the source of electrostatic charges in areas where static is of concern, particularly in ionized environments. Unlike other field meters, the chopper-stabilized circuitry of the ACL 450 is immune to interference caused by ionizers.

This handheld field meter can be used to perform static surveys and evaluate charge accumulation in electronic manufacturing and in industrial operations such as converting, printing, packaging, and plastics processing. The meter's ability to make consistent and accurate measurements makes it perfect to use in electronic component production and assembly areas, textiles, packaging, engineering labs, and printing. The auto-zeroing and HOLD button features add to the ease of use.

A pulsing beam allows for precise measurements at a 1" distance in the voltage range of ± 19.99 kV. The meter can gauge higher voltages at farther distances. For long-term monitoring, the 2.5 mm monaural output jack provides easy interfacing with a recorder, oscilloscope, or analog automated data acquisition system. A charged plate adapter is available for testing ionizing systems.

Easy to Use:

Turn the instrument ON and discharge body by touching a grounded metal object. Point the aperture toward a grounded object and press the ZERO button. To read the voltages, approach target surface from at least 12" away while aiming the aperture toward the static generator. Use range specifications as a guide.

Slowly move toward surface and press the HOLD button to freeze display and capture reading. For voltages of less than 20 kV, adjust the distance until the flashing beams of the instrument's LEDs converge (approximately 1"). Read the voltage and polarity of the charged surface on the meter display.

Product # ACL 450 includes carrying case, 9-volt battery, and NIST-traceable calibration certificate.

Product # ACL 450CPS includes charge plate monitor and carrying case.

Specifications:

- Accuracy: $\pm 5\%$ of reading, + zero offset, ± 2 lsd
- Ranges: 0 ± 19.99 kV at 1 inch
 0 ± 40 kV at 4 inch (multiply reading by 2)
 0 ± 60 kV at 6 inch (multiply reading by 3)
 0 ± 80 kV at 8.5 inch (multiply reading by 4)
- Display: LCD, 3.5 digit with auto polarity readout, with HOLD and LOW BATT indicators
- Response Time: 80 - 100 millisecond (10 - 90%)
- Power Supply: 9-volt alkaline battery
- Weight: 5 ounces (with battery)
- Size: 2.4" x 4.2" x 0.9" (6.1 x 10.7 x 2.3 cm)
- CE mark