

# STATIC METER

## Model 211 Model 212

Accurately measures the magnitude and polarity of electrostatic fields. Display measurements using either high visibility LED bar graph or easy to read digital readouts.

### Features:

- Chopper stabilized sensor
- Operates in ionized environments
- Range:
  - Model 211: Autoranging
    - $\pm 1\text{kV/inch}$  (25mm)
    - $\pm 10\text{kV/inch}$  (25mm)
  - Model 212:  $\pm 20\text{kV/inch}$  (25mm)
- Display:
  - Model 211: 10-LED multicolor bar graph
  - Model 212: 3½-digit LCD
- Measure/Hold button
- Distance ranging lights
- Recorder output
- Optional Charged Plate Detectors



### Applications:

Static meters are ideal instruments for measuring the magnitude and polarity of electrostatic potentials commonly encountered in development, manufacturing and end-user applications. The Models 211 and 212 Static Meters are lightweight, precision electrostatic field meters that feature chopper stabilized sensors for long-term, accurate measurements in both normal and ionized environments. The Model 211 10-segment, multicolor LED bar graph display provides a highly visible readout in hard to reach industrial applications and is ideal for performing electrostatic demonstrations. The Model 212 3½ digit LCD display provides a precise easy to read digital readout of the magnitude and polarity of the measured charge.

The Model 205C Charged Plate Detector accessory plus the Model 208B Charging Source can be used with the Static Meters for applications specifying charged plate measurement set-ups.



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## Description:

Models 211 and 212 Static Meters utilize chopper-stabilized sensors for long-term, accurate measurements in both normal and ionized environments. The Static Meters are similar and differ only in display and measurement range.

The Meters are calibrated in Volts/inch. LED ranging lights indicate when the Meter is 1" (25mm) from the surface being measured for increased accuracy. Increasing Meter to object distance increases the measuring range in a linear fashion.

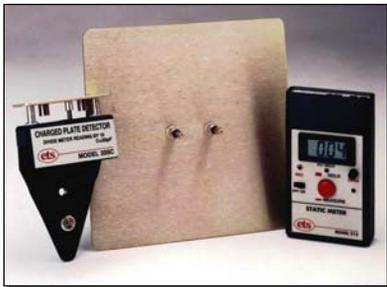
A push-push MEASURE/HOLD switch holds the last reading when depressed and lights a red LED. An optional momentary switch is available. Meter zero is user adjustable.

Meters are housed in a compact, conductive case with a ¼" (6mm) male snap for grounding with the included 10' (3m) cord with banana plug and removable alligator clip. An optional 2mm recorder output cord with flying leads is available for connection to a recording device.

**Model 211:** Utilizes a bar graph display with an array of 10 rectangular high efficiency LEDs arranged in an arc similar to that of an analog meter scale. Resolution is 50 Volts in the 1 kV and 500 Volts in the 10kV range, indicated by two adjacent LEDs lighting at the same time. When the reading exceeds 10kV all 10-segments flash. Segments 1 and 2 are green, 3 and 4 are yellow, 5 and 6 are amber and 7, 8, 9, and 10 are red. Each segment represents 100 Volts in the x1 and 1000 Volts in the x10 range. A yellow LED lights when the scale automatically switches to the 10kV. Polarity is indicated by green (-) and red (+) LEDs. Additional red LEDs indicate low battery and HOLD mode.

**Model 212:** Utilizes a 3½-digit LCD readout with 10V resolution. It has a single range of ±20kV at a 1" (25mm) meter to surface spacing. Polarity and low battery are indicated on the LCD display.

**Accessories:** The Models 205C and 205Cx10 Charged Plate Detectors convert the Static Meter to a charged plate monitor to measure ionizer balance, static charge accumulation, and with optional probes, perform remote static measurements. The Model 205C mechanically amplifies the Static Meter sensitivity by 10. This reduces full-scale to ±2kV with 1V resolution (Model 212 only). The Model 205Cx10 mechanically attenuates the Meter sensitivity by 10, enabling measurements up to ±50kV with 100V resolution to be made. A 6x6" (152x152mm) plug-in Detector plate is also available.



Model 205C with Model 207 6x6" (152x152mm)



Model 205Cx10

## Specifications:

	Model 211	Model 212
<b>Range @ 1.0" (25.4mm):</b>	±1 kV/±10kV	±20kV
<b>Display:</b>	10-LED bar graph	3½-digit LCD, .375" (9.5mm) Numeric
<b>Resolution:</b>	50V/500V	10V
<b>Accuracy:</b>	±10% @ 5kV	±5% @ 5kV
<b>Recorder (REC) out:</b>	2.5mm mono jack, 200mV full scale	
<b>Bat Life (9V Alkaline):</b>	Approx 20 hrs.	Approx 40 hrs
<b>Dimensions/Weight:</b>	4.2x2.4x0.9" (107x61x23mm) / 5 oz (142gm)	
<b>Warranty:</b>	One (1) Year	

*Specifications subject to change without notice.*