

SURVEYORSTAT

Model 211XL Model 212XL

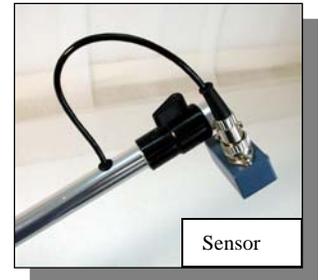
Static meters with extendable probe. Measures magnitude and polarity of electrostatic fields inside large containers and vessels, on wide webs and in hard to reach locations. Measurements are displayed using either a high visibility LED bar graph or an easy to read digital readout.

Features:

- Swivel probe extends to 3' (92cm)
- Chopper stabilized sensor
- Operates in ionized environments
- Range:
 - Model 211XL: Autoranging
 - ±1kV/inch (25mm)
 - ±10kV/inch (25mm)
 - Model 212XL: ±20kV/inch (25mm)
- Display:
 - Model 211: 10-LED multicolor bar graph
 - Model 212: 3½-digit LCD
- Measure/Hold button
- 9V battery operation
- Available as meter & sensor only



Model 212XL



Applications:

Static meters are ideal instruments for measuring electrostatic potentials encountered in development, manufacturing and end-use applications. Many applications require measurements to be made in hard to reach locations such as wide high-speed webs or inside large containers or vessels.

The ETS Models 211XL and 212XL Surveyorstat incorporate standard ETS Model 211 or 212 Static Meters with the sensors installed as separate units on an aluminum extender arm that is expandable up to 3' (92cm). Displays using a 10-segment, multicolor LED bar graph or 3½-digit LCD meter provide highly visible readouts in many industrial applications. Both Meters feature a HOLD mode to retain the last reading on the display.



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Description:

Surveyorstat: A unique combination of an ETS Model 211 or 212 Static Meter with the sensor removed and housed in an aluminum case that is mounted onto an extendable arm with a fully adjustable, locking swivel mount. The pivoting mechanism allows the user to set the sensor at any angle or position relative to the surface being measured. A coiled cord, expandable to 6' (1.8m), connects the sensor to the meter. A locking 5-pin DIN connector enables the sensor to be easily removed for remote mounting or for service.

The extender arm incorporates a compression locking mechanism that enables the arm to be continuously adjustable from 22" (56cm) to 36" (92cm) and be rotated the full 360°. The XL Static Meters can be supplied alone without the extender arm for those applications where the sensor is to be hard mounted to monitor the process being measured. An optional 9 Volt universal voltage power module is available for continuous operation.

The Model 211XL and 212XL Surveyorstats 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. 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. The meters are housed in a compact, conductive case. A 10' (3m) ground cord with banana plug and plug-in alligator clip is included. 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.

Specifications:

Surveyorstat (Mechanical):

Material: Anodized aluminum

Extension: 22" (56cm) to 36" (92cm)

Rotation: 360°

Approach angle: 90°

Handle: Soft plastic, 5" x1.5" diameter (130x38mm)

Total weight: 22oz. (624gm)

Static Meter

Range @ 1.0" (25.4mm):

Display:

Resolution:

Accuracy:

Recorder (REC) out:

Bat Life (9V Alkaline):

Dimensions/Weight:

Sensor unit dimensions:

Warranty:

Model 211

±1 kV/±10kV

10-LED bar graph

50V/500V

±10% @ 5kV

2.5mm mono jack, 200mV full scale

Approx 20 hrs.

4.2"Lx2.4"Wx0.9"H (107x61x23mm) / 5 oz (142gm)

2.188"Lx1.125"Wx0.875"H (56x29x22mm)

One (1) Year

Model 212

±20kV

3½-digit LCD, 0.375" (9.5mm) Numeric

10V

±5% @ 5kV

Approx 40 hrs