

# Electrostatic Field Meter

## PFM-711A

### Data Sheet

#### Hand held field meter locates and measures electrostatic field density

A hand held, compact, electronic digital chopper field meter. Used for locating and measuring electrostatic fields. Use alone to measure fields on defined surfaces and materials. Red "Bulls Eye" ranging lights assist in obtaining reproducible measurements.

Use with CPM-720A Charge Plate Assembly and PCS-730 Charging Source to balance and test ionization blowers and devices. May be used to measure charge generation related to personnel, floors, chairs, carts, equipment, packaging materials, etc. Analog output allows documentation of measurements when used in conjunction with X-Y plotter or analog data recording device. (Recording device not supplied.)





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### Specifications for the PFM-711A Electrostatic Field Meter

Overall Range	<p><b>High Range 0 V to <math>\pm 19.99</math> kV (at <math>1'' \pm 0.03''</math> distance):</b> Least significant digit indicates volts at one inch (kV/in) in 10 Volt increments</p> <p><b>Low Range 0 V to <math>\pm 1,999</math> V (at <math>1'' \pm 0.03''</math> distance):</b> Least significant digit indicates volts at one inch (V/in) in 1 Volt increments.</p> <p>Measures higher voltages at greater distances, e.g., at 2" double indicated voltage, at 4" multiply indicated voltage by four.</p>
Instrument Tolerance	<p><math>\pm 5\%</math> from 0 V to 10 kV Tolerance at <math>&gt; 10</math> kV depends on conditions and handling Accuracy unaffected by the presence of air ionization. <b>Note:</b> Performance when mounted in laboratory fixture positioned 1 inch from a 6"x6" reference plate</p>
Range Lights	Red "Bulls Eye" at $1'' \pm 0.03''$ distance
Meter Display	<p>3½ digit Liquid Crystal Display with 0.4" digit height. Automatic polarity, HOLD and LOW BATTERY indicators</p>
Response	<p>Digital display updates three (3) times per second.</p> <p>Analog Output Time Constant:    Either Range 0.1 sec. Display Time Constants:            High Range 0.2 sec.    Low Range 2.0 sec.</p>
Output	<p>Analog signal output and 30" two conductor cable provided. <math>\pm 10.0</math> kV meter reading equals <math>\pm 1.0</math> Volt output</p>
Controls	<p>Three position slide switch: KV/INCH - OFF - V/INCH Sample/HOLD push button, and ZERO adjust knob</p>
Grounding	Meter circuit grounded through the conductive case and 10 mm snap fastener mounted on back of case
Power	<p>9 Volts alkaline battery. Battery life minimum 40 hours</p>
Dimension (LxWxH)	<p>2.4" x 4.2" x 0.9" (6.1 cm x 10.7 cm x 2.3cm) 1.3" deep with zero knob and snap fastener (3.3 cm)</p>
Weight	5 oz with battery installed (142g)