



PFM-711 Electrostatic Field Meter

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.)

Specifications

PFM-711A FIELD METER

Meter Display:

3½ digit Liquid Crystal Display with 0.4" digit height. Automatic polarity, HOLD and LOW BATTERY indicators.

Output:

Analog signal output and 30" two conductor cable provided. ±10.0 kV meter reading equals ±1.0 Volt output.

Range:

High Range 0 V to ±19.99 kV; least significant digit indicates tens of volts at one inch distance.

Low Range 0 V to ±1,999 V; least significant digit indicates 1 Volt at 1" distance. Measures higher voltages at greater distances, e.g., at 2" double indicated voltage, at 4" multiply indicated voltage by four.

Range Lights:

Red "Bulls Eye" at 1" distance

Accuracy & Environment:

±2% at ambient conditions (23 °C and 30% Rh).
±5% at 0 to 50 °C and 0 - 85% Rh (non-condensing).
Accuracy unaffected by the presence of air ionization.

Response:

Digital display updates three (3) times per second.

Analog Output Time Constant: Either Range 0.1 sec.
Display Time Constants: High Range 0.2 sec.
Low Range 2.0 sec.

Controls: Three position slide switch: KV/INCH - OFF - V/INCH
Sample/HOLD push button, and ZERO adjust knob.

Grounding: Meter circuit grounded through the conductive case and 10 mm snap fastener mounted on back of case.

Power: 9 Volts alkaline battery. Battery life minimum 40 hours.

Dimensions (W x L x D): 2.4" x 4.2" x 0.9" (1.3" deep with zero knob and snap fastener). (6.1 cm x 10.7 cm x 2.3 cm)

Weight: 5 oz with battery (142g)

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