



## PFK-100 Field Meter Set

The PFK-100 set includes Prostat's unique PFM-711A dual range field meter, CPM-720A charged plate monitor assembly and PCS-730  $\pm 1$  kV charging source. With this instrument set you can measure electrostatic fields, analyze ionizer performance and assess the voltage generation of materials, equipment and personnel.

The battery operated PFM-711A Field Meter is a compact "electronic chopper" design with accuracy of  $\pm 2\%$  at ambient conditions (23 °C and 30% Rh). It features automatic polarity, measurement "hold" button, low battery indicator, high and low

ranges, distance ranging lights for accurate and repeatable measurements, manual zero control and a ground snap. With the supplied analog output cable, it can be used in conjunction with an X-Y plotter or any analog data-recording device.

### Specifications

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#### 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.  $\pm 10.0$  kV meter reading equals  $\pm 1.0$  Volt output.

**Range:**

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

**Low Range 0 V to  $\pm 1,999$  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 one inch distance

**Accuracy & Environment:**

$\pm 2\%$  at ambient conditions (23 °C and 30% Rh).  
 $\pm 5\%$  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)

### **PCS-730 CHARGING SOURCE**

**Input Power:** 9 Volts Alkaline Battery. Battery life in excess of 40 hours continuous operation

**Output:**  $\pm 1,000$  volts DC Minimum, Current limited to less than 1 Microamp

**Output Connector:** Female banana jack provided with mating contact rod

**Grounding:** 10mm female snap fastener on rear of case. Note that wand must be installed and unit grounded for proper operation

**Dimensions (W x L x D)** 2.5" x 4" (4.2" with jack) x 1.5" (1.8" with switch and snap) (6.3 cm x 10 cm x 3.8 cm)

**Weight:** 6 oz with battery (170g)

### **CPM-720A CHARGE PLATE ASSEMBLY**

**Isolated Plate:** Stainless Steel parallel plates, 3.25" square. Auxiliary female jack installed.

**Capacitance:** Plate Capacitance 10 picofarads (pF)  $\pm 1$  pF

**Range:** 0 to  $\pm 6$  kV at a plate separation of 0.60"

**Accuracy:**  $\pm 2\%$  at 1,000 Volts. Calibration adjustment screw provided

**Grounding:**

Through conductive case and snap fastener of Model PFM-711A

**Dimensions (W x L x D):**

3.25" x 3.25" x 0.9" (8.25 cm x 8.25 cm x 2.3 cm)

**Weight:**

8 oz (227g)

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