



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 ±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 ±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

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

4" multiply indicated voltage by four.

Range Lights: Red "Bulls Eye" at one inch distance

Accuracy &±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)

PCS-730 CHARGING SOURCE

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

continuous operation

Output: ±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) ±1 pF

NOTE: Combined Capacitance of the CPM-720A when mounted to the PFM-711A Field Meter ranges from 15.6 to

15.8 pf

Range: 0 to ±6 kV at a plate separation of 0.60"

Accuracy: ±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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