



Ground Zero Electrostatics PFK-100 Field Meter Set

PFK-100 Field Meter Set

Measure fields and voltage generation and balance ionizers



Item Number
PFK-100

Contents

- ☀ PFM-711A Field Meter w/Analog output cable
- ☀ CPM-720A Charge Plate Assembly
- ☀ PCS-730 ± 1 kV Charging Source

Test According To

ANSI/EOS/ESD S3.1 Ionization

Packaging

Weight: 4 lbs (1.8 kg)
Length: 15.5 Inches (39 cm)
Width: 11.5 Inches (29 cm)
Height: 4 Inches (10 cm)

The PFK-100 set includes PROSTAT's unique PFM-711A dual range field meter, CPM-720 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 $\pm 2\%$ 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.

The CPM-720A Charge Plate Assembly is 3.25 inches square. It attaches to the PFM-711A field meter for ionizer balancing per ANSI/ESD-S3.1, voltage or charge generation and voltage suppression analysis.

The PCS-730 ± 1 kV Charging Source is used to charge the CPM-720 to $\pm 1,000$ volts to measure ionizer decay and material decay. These three instruments are match calibrated to work together for accurate and efficient auditing.

Applications:

- ☀ Measure electrostatic fields
- ☀ Balance ionizers and analyze ionizer performance
- ☀ Measure body voltages
- ☀ Measure charge generation

Specifications

Concentric Ring Dimensions:

Inner electrode disc (D1) outside diameter: 1.2 inches (3.05cm) – Spring Loaded
counter pressure approximately 2 lb., ± 2 ounces (0.82 Kilograms, ± 0.06 kg)

Outer electrode ring (D2) inside diameter: 2.25 inches (5.72cm) Width 0.125 inches (0.32cm)

Alignment:

5.0x105 $\pm 1\%$ Ohms @100 volts per S-11.11-1993 for Surface Measurements
5.0x105 $\pm 2\%$ Ohms @10 volts
5.0x105 $\pm 1\%$ Ohms @100 volts for Volume Resistivity Measurement
5.0x105 $\pm 2\%$ Ohms @100 volts

Volume Resistivity Correction:

6.9 cm² Total D1 Contact Area. Allows for D1 mounting screw head.

Fixture Weight:

1.8 lb (0.82 kg) without BNC/Banana adapter or connections.

Connections:

Fixture installed BNC for Inner Disc (D1) connection, and fixture assembly ground; dual BNC/Banana plug adapter supplied.
Fixture installed standard banana receptacle for Outer Ring (D2) connection.

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Specifications

Dual Test Bed:

Diameter: 4.0 inches (10.16cm). Lamination of 1/8 inch acrylic plastic and 1/4 inch stainless steel, or aluminum plate.

Power:

Not Applicable. The fixture and test bed are used in conjunction with the PROSTATâ PRS-801 Resistance System and test leads.



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