



Ground Zero Electrostatics PCS-730 Charging Source

PCS-730 Charging Source

Use to evaluate ionizer performance and decay properties.



Item Number
PCS-730

The PCS-730 Charging Source is a battery operated hand held device used to charge an object up to ± 1 KV.

The PCS-730 is designed to be used in conjunction with the PROSTAT PFM-711A Field Meter equipped with the PROSTAT CPM-720A Charge Plate Assembly. This unique instrument combination provides ionization performance testing, electrostatic decay of materials or equipment, and suppression analysis of worksurfaces or clothing.

The PCS-730 is personnel safe and easy to use. It should not be used in contact with electrostatic discharge sensitive (ESDS) devices or assemblies.

SPECIFICATIONS:

Input Power:

9 Volt 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:

Width: 2.5" (6.4 cm)

Depth: 1.5" (3.8 cm)

Length: 4" (10.2 cm)

4.2" long with jack

1.8" deep with switch and snap

Wand:

Length: 5" (12.7 cm)

Weight:

6 oz (with battery)



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Item Number
CPM-760A

CPM-760A Collapsible 6 Inch Charge Plate Monitor Assembly Collapsible for easy, compact storage

The CPM-760A is a 20pF, 6-inch Charge Plate Monitor assembly intended for use with the PROSTAT PFM-711A Field Meter, PCS-730 Charging Source and PDT-740B Static Decay Timer. This handy accessory is designed to perform very accurate performance audits on overhead ionizers and room ionization systems. Used with extension wings, the CPM-760A is also used to evaluate and balance bench top ionizers.

The CPM-760A is completely collapsible for compact storage in the PROSTAT Professional ESD Auditing Kit Series. It may be used for evaluating voltage generation and static decay performance of personnel, footwear, flooring, chairs, carts and other equipment and materials.

SPECIFICATIONS:

Isolated Plate:

Electro-plated Aluminum plate, 6.0 inches square.

Ground Plate:

Plated aluminum sheet, 6.0 inches square.

Plate Spacing:

Approximately 0.63 inches between Isolated and Ground plates. Plate spacers made from machined virgin, white Teflon® Rod

Support:

Stored disassembled, plated aluminum sheet and steel lower stabilizing block.

Assembly:

Assembled with machine cap screws.

Capacitance:

Parallel Plate Capacitance 20 picofarads (pF) \pm 2 pF

Range:

0 to \pm >5 kV at a plate separation of

0.63 inch. **Accuracy:**

\pm 2% 0 to 1,000 volts.

5 Minute Decay @ 50% Rh:

When charged to 1kV, floating plate voltage decays less than 5% (<50 volts) over a 5 minute period.

Calibration:

Accomplished via adjustable instrument saddle and grounding device.

Grounding:

Via snap fastener of Model PFM-711A and meter saddle assembly.

Assembly:

6.0" High in Vertical Test Configuration

Height:

9.0" High in Horizontal Test Configuration; Center of Plate 6.0" from Worksurface

Weight:

2.5 pounds