



## Ground Zero Electrostatics PFK-101 Basic Field Kit

### PFK-101 Basic Field Kit

An Introduction to the Portability and Functionality of the PROSTAT Line



Item Number  
PFK-101

The PROSTAT PFK-101 Basic Field Kit is portable and compact. It includes PROSTAT's unique PFM-711A Dual Range Field Meter, CPM-720 Charged Plate Monitor assembly, PCS-730  $\pm 1$  kV Charging Source, PDT-740B Static Decay Timer and the PHT-770 Hygro-Thermometer. With these instruments, you can measure electrostatic fields, analyze ionizer performance, and assess the voltage generation or decay characteristics 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 two supplied analog output cables, it can be used in conjunction with an X-Y plotter, the PDT-740B Static Decay Timer or any analog data recording device.

The CPM-720 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, charge decay and voltage suppression analysis.

The PDT-740B Static Decay Timer provides voltage decay time measurements of ionizers and controlled materials from 1,000 volts to 100, 50 or 10 volts. Used with the PFM-711A, it furnishes automatic reset and timing functions, LED status indicators and displays decay time from 0.2 to 159.9 seconds.

The PHT-770 uses a capacitive sensor to provide accurate temperature and humidity readings. This instrument includes a sample "Hold" function and a "Max/Min" button to view different levels reached during the measurement period.

The PFK-101 includes a modified wrist strap for instrument and personnel grounding, a common point ground adapter plug and an operator's manual, all packaged in a specially designed carrying case.

#### Contents

- ✱ PFM-711A Field Meter w/Analog output cable
- ✱ CPM-720A Charge Plate Assembly
- ✱ PCS-730  $\pm 1$  kV Charging Source
- ✱ PDT-740B Static Decay Timer
- ✱ PHT-770 Hygro-Thermometer
- ✱ PWS-610M Wrist Strap
- ✱ GAP-005 Ground Adapter Plug
- ✱ Operator's Manual
- ✱ PAB-40 Accessories Box
- ✱ PIK-110 Carrying Case with Handle

#### Applications

- ✱ Measure electrostatic fields
- ✱ Balance ionizers and analyze ionizer performance
- ✱ Measure temperature and relative humidity
- ✱ Measure body voltages
- ✱ Measure decay time
- ✱ Measure charge generation

#### Test According To

ANSI/EOS/ESD S3.1 Ionization

#### Packaging

**Weight:** 12 lbs (5.5 kg)  
**Length:** 18.5 Inches (47 cm)  
**Width:** 7.5 Inches (19 cm)  
**Height:** 16 Inches (40 cm)

