



## Ground Zero Electrostatics PGK-820-MK Garment Test Kit

### PGK-820-MK Garment Test Kit

Especially designed to measure the electrical resistance of static control garments



**Item Number**  
PGK-820-MK

#### Contents

- ✱ PSI-870 Surface Resistance/Resistivity Meter
- ✱ PGC-821 Garment Clips (2)
- ✱ ABL-36 INCH Black Silicone Test Leads (2)
- ✱ PSI-870MAC Metal Clip
- ✱ PSI-870IAC Insulated Clip
- ✱ Carrying Case with Removable Belt Clip
- ✱ Operator's Manual

#### Packaging

**Weight:** 2 lbs (1 kg)  
**Length:** 8.25 Inches (21 cm)  
**Width:** 7.5 Inches (19 cm)  
**Height:** 3.5 Inches (8.5 cm)

PROSTAT Corporation's new PGK-820-MK Garment Test Kit is designed specifically for measuring the resistance of static control garments per ESD Association Standard ESD STM2.1-1997, Garments. The new kit features PROSTAT's PSI-870 resistance instrument for measuring sleeve to sleeve and point to point resistance. This meter gives simple, repeatable measurements to indicate whether a material is conductive, static dissipative or insulative. The PSI-870 employs parallel bar sensing and features an easy to read LED light scale.

In addition, the kit includes PROSTAT's specially designed PGC-821 Garment Clips, test leads and instructions. Attach them directly to a garment's sleeves or hem for making either evaluation or audit resistance measurements. These unique clips are designed for simple connection to a resistance measurement instrument via banana input receptacles. Clip flanges are insulated to provide electrical isolation when making measurements.

#### Specifications

##### PSI-870 Surface Resistance/Resistivity Meter

##### Test Voltage & Current:

Nominal 9 volts and 0.006  $\mu$ A to 1.0 mA

##### Power:

One (1) standard 9-volt battery, PROCELL, Eveready #216 (NEDA 1604, JIS 006P, IEC 6F22)

##### Electrodes:

2 each Machined Brass, One (1) Square Resistivity configuration

##### Overall Accuracy:

$\pm$  10%

##### Changeover Point:

Based on measured resistance;  $\pm$  1/2 decade on logarithmic scale (i.e., 3.16 x 10n)

##### Changeover Point Accuracy:

$\pm$  1/2 decade

##### Resolution:

One order of magnitude

##### LED Measurement Indications:

11 LED's with Dual scales:

$10^3$  to  $10^{12}$  Ohms/square per ASTM 257 in one decade increments

$10^2$  to  $10^{11}$  Ohms per S-11.11 in one decade increments

Over range indicator light for "Insulative" surfaces, i.e.,  $> 10^{12}$  Ohms/square or  $> 10^{11}$  Ohms.

##### Auxiliary Connections:

2 each female banana for resistance range performance verification and direct point to point resistance measurements without electrodes.

1 each Point to Ground Phono Receptacle for resistance measurements using one electrode

1 each Electrode cut off switch

##### Operation Control:

One (1) PUSH to TEST Button

##### Operating Range:

40°F to 120°F (5°C to 49°C)

##### Storage Temp:

-15°C to 60°C (5°F to 140°F), Relative Humidity: 0% to 90%

##### Battery Life:

40 hours typical

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#### Specifications

**Dimensions:**

115 mm x 69 mm x 26 mm

**Weight:**

6 oz.

**PGC-821 Garment Clip**

**Size:**

1 inch x 2 inch Electrodes mounted to an electrically conductive clamp

**Electrode Material:**

Plated Steel

**Test Lead Connection:**

Brass, Nickel Plate conductive Banana Jack

**Clamp Insulation:**

Rubber Grommet measuring  $>1.0 \times 10^{12}$  Ohms over a Heavy Duty Rubber Coating



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