

**PSI-870-MK Resistance/Resistivity Indicator Micro Kit**  
**Simple, repeatable resistivity and resistance measurements**



**Item Number**  
**PSI-870-MK**

The PSI-870-MK Micro Kit includes an LED indicating, wide range resistance measurement instrument with broad application flexibility. It measures surface resistance in accordance with ESD Association S11.11, surface resistivity in accordance with ASTM D-257, resistance to ground, and resistance point to point. 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 to measure a wide variety of ESD materials and equipment.

**Specifications**

**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<sup>3</sup> to 10<sup>12</sup> Ohms/square per ASTM 257 in one decade increments

10<sup>2</sup> to 10<sup>11</sup> Ohms per S-11.11 in one decade increments

Over range indicator light for "Insulative" surfaces, i.e., > 10<sup>12</sup> Ohms/square or > 10<sup>11</sup> 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 $^{\circ}$ F to 120 $^{\circ}$ F (5 $^{\circ}$ C to 49 $^{\circ}$ C)

**Storage Temp:**

-15 $^{\circ}$ C to 60 $^{\circ}$ C (5 $^{\circ}$ F to 140 $^{\circ}$ F), Relative Humidity: 0% to 90%

**Battery Life:**

40 hours typical

**Dimensions:**

**Meter Dimensions**

Width: 2.7" (6.9 cm)

Depth: 1.0" (2.6 cm)

Length: 4.5" (11.5 cm)

**Contents**

- ✱ PSI-870 Resistance/Resistivity Indicator
- ✱ PSI-870IAC Insulated Alligator Clip
- ✱ PSI-870MAC Alligator Clip
- ✱ Resistance to Ground Lead
- ✱ Carrying Case with Removable Belt Clip
- ✱ Operator's Manual

**Packaging**

**Weight:** 1.5 lbs (0.7 kg)

**Length:** 8.25 Inches (21 cm)

**Width:** 7.5 Inches (19 cm)

**Height:** 3.5 Inches (8.5 cm)

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## Ground Zero Electrostatics PSI-870 Resistance/Resistivity Indicator Micro Kit

### Specifications

**Meter Weight**

6 ounces, with battery

**Analog Lead**

Length: 48" (121.9 cm)

**Case Dimension**

Width: 4.5" (11.4 cm)

Depth: 1.5" (3.8 cm)

Length: 5.0" (12.7 cm)

**Case Weight**

0.25 ounces



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