

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 μ 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:

10³ to 10¹² Ohms/square per ASTM 257 in one decade increments

10² to 10¹¹ Ohms per S-11.11 in one decade increments

Over range indicator light for "Insulative" surfaces, i.e., > 10¹² Ohms/square or > 10¹¹ 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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