



Resistance/Resistivity Indicator ESI-870

Data Sheet

Simple, repeatable resistivity and resistance measurements

The ESI-870 Micro Kit includes an LED indicating, wide range resistance measurement instrument with broad application flexibility. It indicates surface resistance, surface resistivity and resistance to ground.

This meter gives simple, repeatable measurements to indicate whether a material is conductive, static dissipative or insulative. The ESI-870 employs parallel bar sensing and features an easy to read LED light scale to measure a wide variety of ESD materials and equipment.





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Specifications for the ESI-870 Resistance/Resistivity Indicator

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 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 S11.11 in one decade increments Over range indicator light for "Insulative" surfaces, i.e., $>10^{12}$ Ohms/square or $>10^{11}$ Ohms.
Operation Control	One (1) PUSH to TEST Button
Operating Range	40°F to 120°F (5°C to 49°C)
Storage Temperature	-15°C to 60°C (5°F to 140°F)
Relative Humidity	0% to 90%
Battery Life	40 hours typical
Dimensions	115 mm x 69 mm x 26 mm
Weight	6 oz

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