

# ***PIN STYLE RESISTANCE /RESISTIVITY PROBES***

**Model 841  
Model 842  
Model 844  
Model 823**

Probes to measure surface and volume resistance/resistivity of planar, uneven and curved surfaces plus small cavities.

## **Features:**

- Probes to meet ESDA, ASTM and other requirements
- Direct x10 surface resistivity conversion
- Spring-loaded electrode configurations
- Universal handle
- Conductive rubber electrode configurations available
- Designs to meet specifications
- Planar and non-planar samples



## **Applications:**

The Series 840 Resistance/Resistivity Probes are the latest addition to the ETS line of resistance measuring instrumentation. The Models 841, 842, 844, and 823 Probes consist of an array of spring-loaded electrodes that enable the user to measure the surface resistance of flat, uneven or curved objects as small as 0.75x0.188" and 0.438" deep (19 x 5 and 11 mm). The Model 845 is a lightweight version of the ESDA STM4.1 and NFPA 5 lb Probes (ETS Model 850) that weighs a user-friendly 1-lb (0.45kg) making it an alternative for field and high volume measurement applications.

## Description:

With the exception of the Model 844, which comes with conducted rubber electrodes, the probes all utilize gold-plated, spring-loaded, flat tip pins as the contact electrode. Each pin requires 5-oz (688 gm.) of force for total compression. The electrodes are socket-mounted allowing for easy replacement by the user. The SOURCE/SENSE electrodes are separated by a Teflon® core for high insulation resistance and when compressed, extend 0.5" (13 mm) beyond the core. Other electrode configurations such as small diameter, conical, waffle, pointed and conductive rubber contact surfaces (shown) are available as options.



All Probes, with the exception of the 823, have standard BNC output jacks. They can be connected directly to any 2-wire resistance meter using the appropriate cable (3-ft BNC to separate banana plug cable standard for stand-alone Probe test heads). The Model 848 Handle Assembly has a fixed, 3' (92cm) 3-wire, Teflon shielded cable with standard banana plug terminations for Source, Sense and Ground. It fits all style Probes, and provides both user convenience and reduced cost associated with having a single cable assembly.

**Model 841:** A 0.875" (22mm) diameter concentric ring Probe with a single 0.156" (4mm) diameter center electrode and seven, 0.093" (2.4mm) diameter outer electrodes on 0.438" (11mm) centers. Minimum measurement size is a 0.5" (13mm) diameter surface and a 0.438" (11mm) deep cavity.



**Model 842:** A 1.5" (38mm) diameter concentric ring Probe with an inner ring of five 0.062" (1.5mm) electrodes and an outer ring of seventeen 0.156" (4mm) diameter electrodes on 0.875" (22mm) centers. Minimum measurement size is 1.25" (32mm) and a 0.25" (64mm) deep cavity.



**Model 844:** A 2-Point Probe with two 0.125" (3mm) diameter conductive rubber electrodes spaced 0.25" (6mm) between centers. Minimum measurement size is 0.75" x 0.188" (19 x 5mm) with a 0.438" (11mm) cavity.



**Model 823:** A 52-Point Probe with 0.156" (4mm) diameter electrodes for measurement of non-planar surfaces and multi-layered laminates using spring loaded pins. Complies to ESD ASSOC standards for size and weight with non specified electrode configuration allowing real world testing of a wide variety of foamed parts, assemblies, and finished goods when a standard electrode configurations not appropriate for the measurement



**Warranty:** One (1) Year

*Specifications subject to change without notice*

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