

SURFACE RESISTANCE PROBE MODEL 850



OPERATING INSTRUCTIONS



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1.0 GENERAL

The Model 850 Surface Resistance Probe is used wherever a 5 lb. probe with 2.5" (63.5mm) diameter electrode is required to make resistance measurements. The contact electrode is a conductive silicone elastomer with a hardness of 60 ± 10 durometer and contact resistance less than 500 ohms.

The Model 850 can be used either singularly for measuring resistance to ground (RTG) or in pairs for measuring point-to-point (pt-pt) resistance. It can be used with any resistance meter (ohmmeter) having the required test voltage and range requirements. The Probe meets the requirements of ANSI/ESDA, IEC, NFPA 99, ASTM F150 as well as DOD and other standards to which the probe is referenced.

2.0 SET UP

The Model 850 Probe has a standard 0.162' (4mm) banana jack in the top for connection with a standard banana plug. The Probe is connected to the resistance meter as shown in Figure 1 for resistance to ground measurements (RTG) and in Figure 2 for point-to-point resistance (pt-pt) measurements.

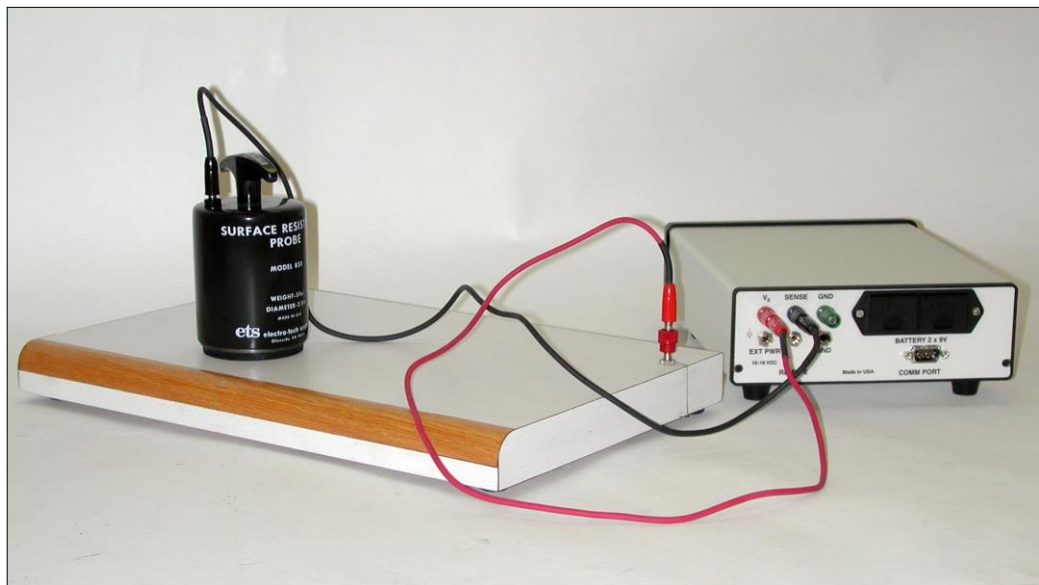


Figure 2: Resistance-to-Ground meter connection

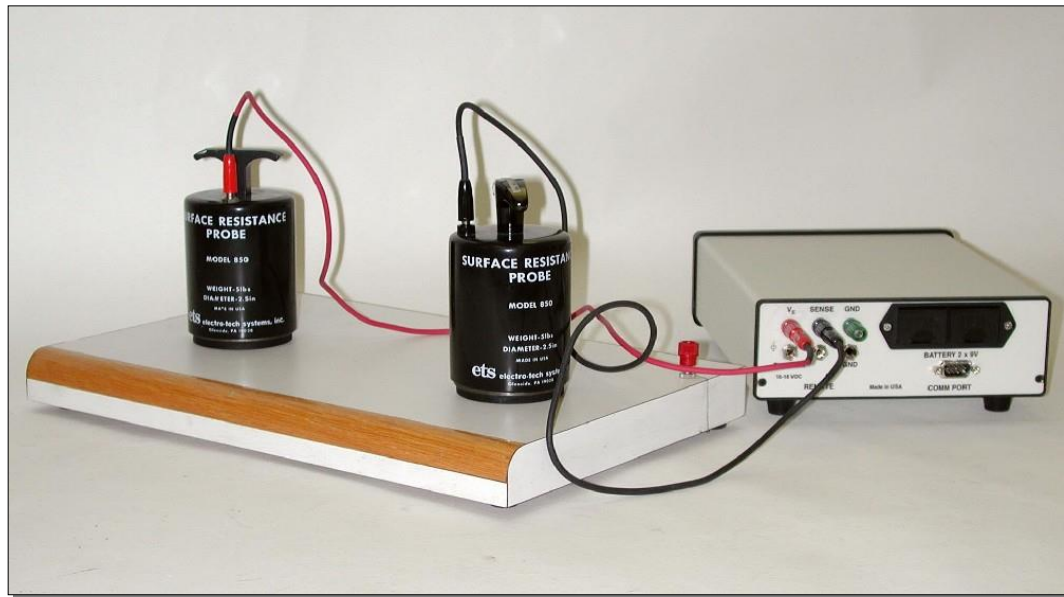


Figure 3: Point-Point meter connection

The Probe can only be used on smooth, flat surfaces. To make a measurement, place the Probe(s) on the surface in accordance with the layout or spacing specified in the standard being used. Apply the test voltage for several seconds and then take a reading. If the measured resistance is greater than 10^{10} ohms then a longer electrification time may be required before taking a reading. Do not touch the Probe(s) while the test voltage is applied. A shock hazard is present when test voltages of 100 volts or more are used. If the rubber electrode becomes dirty, it can be cleaned by with isopropyl alcohol. Allow the electrode to dry prior to placing it on the test surface.

CAUTION:
Do Not Touch Electrode At Voltages 100 Volts and Above.

3.0 WARRANTY

Limited Warranties. Seller warrants that all goods manufactured and delivered hereunder shall (a) conform to any samples, drawings, specifications or other written documents provided to Seller by Buyer, or approved by Buyer to Seller and (b) be free from all defects in workmanship and material. Buyer's sole remedy against Seller for breach of either of the specifically mentioned warranty shall be the repair or replacement, at Seller's sole option, of the defective workmanship or material. Seller expressly disclaims all other warranties, express and/or implied, including but not limited to those of merchantability and fitness for a particular purpose.

In no event shall Seller be liable, under either warranty or otherwise, to Buyer in excess of the purchase price of the products paid to Seller by Buyer. In no event shall Seller be liable for any loss or damage arising directly or indirectly from the use of the product or for consequential or incidental damages. Seller's specified warranties will expire and lapse (i) for renewable items (such as gloves, iris ports and desiccants), sixty (60) days from date of shipment and (ii) for all standard equipment and otherwise nonrenewable items, one year from date of shipment.