Trek Model 152P-CR-1 Volume Resistance Probe

The Trek Model 152P-CR-1 Resistance Measurement System is capable of measuring surface and volume resistance in materials as per IEC or ESDA standards which use a concentric ring probe. In addition to the Model 152P-CR-1 concentric ring probe [CN 17529], Trek offers a Test Plate Set [C/N 17530] consisting of a stainless steel conductive plate, to act as a second electrode to apply the test voltage to the sample under test, and an insulative plate. The use of these plates are described in the ESD STM11.12 standard and in IEC 61340-2-3. The probe uses a 3 position switch to allow for surface resistance measurements and volume resistance measurements either with or without a guarded outer electrode.

The Trek Model 152-1 Resistance Meter [CN 16145], used with the 152P-CR-1 system, is designed to precisely measure surface resistance on a wide variety of conductive, dissipative, and insulative materials. The Model 152-1 employs a measurement technique which conforms to several ANSI/ESD Association standards for measuring surface resistance and surface resistivity. The Model 152-1 features exceptional measurement accuracy and wide measurement ranges of 10^3 to 10^{13} ohms using either a point-to-point probe or the two-point probe. Measured resistance values are clearly displayed on a high-contrast LCD display using scientific notation.

Trek MODEL 152-1 Surface Resistance Meter

Measurement Range
10^3 to 10^{13} ohms

Probe Electrode Test Voltage
User selectable for 10 V or 100 V, ±2%.

Test Voltage Range Indicator
User selectable, either 10 V or 100 V.

Test Current Limit
Limited to less than 13 mA in the 10 V range and less than 1.7 mA in the 100 V range.

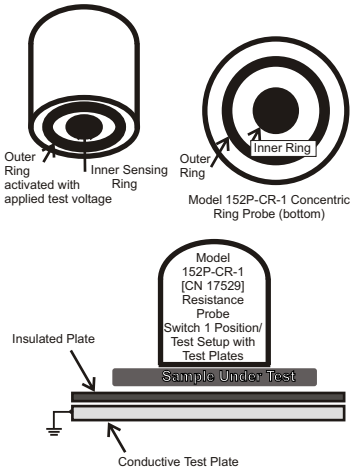
MODEL 152P-CR-1 Volume Resistance Probe

A three (3) position switch on the probe selects performance options.

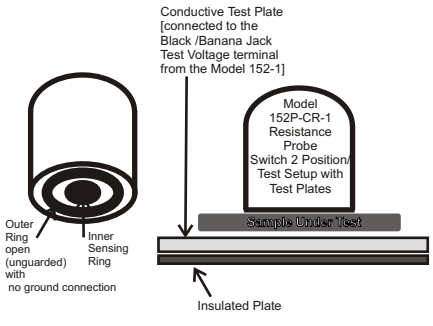
Optional Test Plate Set

[Conductive and Insulated] provides additional ESD STM standard options for guarded and unguarded resistance and volume measurements.

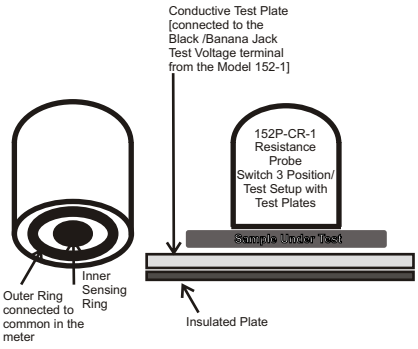
Test Position 1
The test voltage is applied to the outer ring during surface measurements.



Test Position 2
The test voltage is removed and outer ring is open (unguarded) during volume measurements. As per ESD STM11.12 standard, the outer ring is unguarded with no ground connection.



Position 3
The outer ring is connected to common in the 152-1 meter (guarded) during volume measurements. As per IEC 61340-2 standard, when performing volume measurements the outer ring is guarded (connected to common in the meter).



All items are purchased separately.

All specifications are subject to change. 0844/JNC

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