Surface Resistivity Meter

SRM100

TECHNICAL DATASHEET

Description

This unique Surface Resistivity Meter (half decade) is designed specifically for the purpose of testing surfaces used in the EPA. It is extremely accurate and indicates resistance to 'half a decade' through the important static-dissipative range using 10/100 volt test voltages to ensure more accurate readings. Its 10v-100v point-to-point instrument is ideal for testing and auditing all elements within the EPA. The unit can measure ohms-per-square or, connecting the two leads from to the two 3.5mm connection points to 2 x 2.5kg weights, to measure point-to-point resistance. It is supplied with required test leads, 9V battery, plus carrying pouch.

Incorporating the latest requirements of the IEC 61340-5 technical report. All test instruments are manufactured to the very highest quality allowing qualification to council directives 89/336/EEC.

Manufactured in the United Kingdom.

Features

- Measures in Ohms per Square.
- Meets the requirements of IEC 61340-5 and EN100 015/1 European standard.
- Automatic auto-ranging 10v and 100v test voltages are incorporated into the tester, switching as you move from conductive, dissipative and insulative surfaces.
- Capable of testing resistance-to-ground and point-to-point resistance.
- Each unit is supplied with a 1 year calibration certificate.
- Full calibration service available.
- Custom logos available on request.
- Manufactured in the United Kingdom.
- Includes carrying pouch, 9V battery and test leads.
- RoHS and REACH compliant.
- CE approved.

Calibration

Each Surface Resistivity Meter Half Decade is supplied with a 1 year calibration certificate. Full calibration service is available on request. It is recommended to calibrate this device annually.

Custom logos available on request or SRM100NL is supplied unbranded.

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Technical Properties

Specifications	
Power	Battery operated PP3 9 volt
Test Range	10^(3) to 10^(12)+ (1K to 1T) Displayed in 1/2 decade
Weight	103g
Dimensions	70mm x 130mm x 35mm
Protection	Supplied with carry case
Test Voltage	Nominal 10 volts to 100 volts
Probes	Standard Tin Copper Mesh, 52mm length
Connections	2 x 3.5mm jack plug for Earth connection

Specifications	
Methods of Measurement	Surface Resistivity: (Ohms per square) Point-to-Point Resistance: (Ohms per square)
LED Indicators	9V Test: 10^(3) to 10^(5) = Green (Conductive) 100V Test: 3 x 10^(5) to 10^(9) = Yellow (Dissipative) 100V Test: 3 x 10 ^(9) to 10^(10) = Orange (Dissipative) 100V Test: 10^(12) += Red (Insulative)
Accuracy	+/- 0.5 Decade in conductive range +/- 0.25 Decades in dissipative range Method of operation:- Push button
Dissipative Range	3 x 10^(5) to 3 x 10^(9) 1/2 Decade between each decade on a logarithmic scale. Example: 1 x 10^(5) x 3.21 = 3 x 10^(5) (1/2 Decade measurement) x 3.21 = 1 x 10^(6)
Standards	BS EN 61340-5, IEC 613340-5-1/2 and EN100015/1 (European)