

Surface Resistivity Kit

TECHNICAL DATASHEET

SRM100K

Description

Surface Resistivity Kit is extremely accurate and indicates resistance to 'half a decade' through the static dissipative range using 10/100 volt test voltages to ensure more accurate readings. The Surface Resistivity Kit (SRM100K) has been designed specifically for the purpose of testing surfaces used in an EPA. The surface resistivity meter measures in Ohms per Square and the kit meets the requirements of IEC 61340-5 and EN100 015/1 European standard. The SRM100 meter is also capable of testing resistance-to-ground and point-to-point resistance. The SRM100K (full kit) includes 2 x 2.5kg weights, connecting leads and a unique logarithmic reading system, divided up into easy-to-read coloured LEDs. An automatic auto-ranging 10v and 100v test voltages are incorporated in the tester cleverly detected as you move from conductive to dissipative and insulative surfaces.



Manufactured in the United Kingdom



Features

- ⚡ Kit includes 10V/100 volt meter with automatic auto-ranging voltages which is accurate to within half a decade.
- ⚡ Meets the requirements of IEC 61340-5 and EN100 015/1 European standard.
- ⚡ Capable of testing resistance-to-ground and point-to-point resistance.
- ⚡ Custom logos and printing can be quoted on request. Measures in Ohms per Square.
- ⚡ UK manufactured.
- ⚡ All test instruments are manufactured to the very highest quality allowing qualification to council directives 89/336/EEC.
- ⚡ RoHS and REACH compliant and CE approved.

Supplied With

- ⚡ SRM100 meter
- ⚡ Conductive foam disks
- ⚡ Two weights (2.5 kg / 5 lb)
- ⚡ All required test leads
- ⚡ 9V battery
- ⚡ Conductive euro box for easy storage



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Technical Properties

Specifications	Typical Values
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: 3×10^5 to 10^9 = Yellow (Dissipative). 100V Test: 3×10^9 to 10^{10} = Orange (Dissipative). 100V Test: $10^{12} \pm$ Red (Insulative).
Accuracy	+/- 0.5 Decade in conductive range. +/- 0.25 Decades in dissipative range. Method of operation:- Push button.
Dissipative Range	3×10^5 to 3×10^9 1/2 Decade between each decade on a logarithmic scale. Example: $1 \times 10^5 \times 3.21 = 3 \times 10^5$ (1/2 Decade measurement) $\times 3.21 = 1 \times 10^6$.
Standards	BS EN 61340-5, IEC 613340-5-1/2 and EN100015/1 (European).

Product Code	
SRM100K	Full Test Kit: Tester, weights, foam and test leads.
SRM100	Surface Tester, with 9V battery.

Calibration required annually.
Certificate of calibration is supplied.

