OPERATING INSTRUCTIONS

MODEL 990 SRM

Surface Resistance Meter

Physical and Electrical specification:

Dimensions (H x W x D)	96mm x 61mm x 26mm
Weight	170g (approx.)
Power Supply	1 x 9 Volt PP3 cell, preferably alkaline
Connections for ground	1 x 4mm jack plug
Test Range	10^3 to 10^{12} Ohms per Squere
Method of Measurement	Resistance to ground (Ohm) Point to Point Resistance (Ohm)
Test Voltage	Nominal 9 Volt
Accuracy	± 10%
Method of operation	Push button
LED indicators	10^3 to 10^5 = green (conductive) 10^6 to 10^{11} = yellow (dissipative) 10^{12} = red (insulative)

Description

The 990 SRM measures both surface resistivity and resistance to ground, giving simple repeatable measurements of conductive, static dissipative and insulative surfaces.

Three functions of 990SRM:

Surface resistivity check

For surface resistivity readings place the meter on the surface being tested and press the centre button labelled “TEST”. If the LED labelled 10^6 illuminates, the surface under test has a surface resistivity of 10^6 Ohms per square or less. If the LED labelled “INSUALTIVE” illuminates, the surface under test has a surface resistivity greater than 10^{12} Ohms per square. (NOTE: make sure that the ground wire is not connected through the ground jack when surface resistivity is measured.)

Surface to ground resistance check

Place the meter on the surface being tested. Connect the meter to a known ground through the ground connection located near the test button. NOTE: When the ground wire is connected through the ground jack, the meter will not measure surface resistivity. Press the centre button labelled “TEST” and the LED will illuminate to indicate the resistance to ground. If the LED labelled “INSULATIVE” illuminates, the resistance to ground of the surface under test is greater that 10^{12} Ohms.

Point to point resistance check

Place the meter on the flat surface. Connect the two test wires supplied with the meter to the connections on the top of the meter (jacks shown on the picture on the left side). Connect the other side of the wires (crocodile clips) to the two points between which the resistance is to be checked. Press the centre button labelled “TEST” and the LED will illuminate to indicate the resistance between these two points. If the LED labelled “INSULATIVE” illuminates, the resistance between the two points is greater that 10^{12} Ohms.

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