

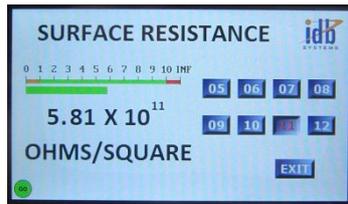
The IDB Model ID-914 is a next generation Surface Resistance Meter designed to provide accurate and reproducible measurements of surface resistance of antistatic and static dissipative material.

ID-914 Surface Resistance Meter

Building on the success of the popular ID-482 and ID-482A Surface resistance Meters, the ID-914 is a next generation microprocessor-based instrument which has been developed to measure the surface resistance of materials used in static free work stations and for semiconductor packaging. The instrument consists of a mains powered circuit housed in a robust bench mounting case coupled by 1 metre of cable to a sensing probe head.

The sensitivity of semiconductor devices to electrostatic damage (ESD) by even low levels of static electricity is now a well-established fact. Static electricity is generated when non-conducting surfaces are separated and assembly operators can generate thousands of volts during routine handling of semiconductor devices. For this reason it is now standard practice to carry out semiconductor packaging and assembly only at static free work stations and such stations must have charge dissipative work surfaces, floor and seat coverings etc.

Standards now exist for the resistance values of materials suitable for use in static free work stations and for packaging.



The electrical conductivity is achieved by the addition of carbon black or ionisable material to the bulk of the material, by surface treatment or by adding conducting fibres to the surface layer.

The resistance of such material however may change significantly during service due to wear or ageing and it is therefore necessary to ensure that the materials are still effective by carrying out tests at regular intervals.

The instrument can be connected to a PC or Laptop via a USB Type A to Type B cable for storing test results.



SPECIFICATIONS & FEATURES

Input Power Options:	85V - 240V AC 47Hz - 63Hz
Resistance ranges:	10 ⁵ ohms per square to 10 ¹² ohms per square
Applied Test Voltage:	100V on 10 ⁹ to 10 ¹² range 5V on 10 ⁵ to 10 ⁸ range
Standard Surface probe:	Concentric rings 100mm overall diameter 25mm height electrode dimensions as recommended in BS6524
Alternate Probe:	ID-914PRB hand-held probe for the measurement of irregular shaped items such as plastic containers and cups
TFT Display:	Resolution 320 x 240 Visible area 73mm x 55mm
Dimensions	W313mm x L322mm x H160mm
Self-Test & Maintenance:	Tailored to application

Please email support@idbsystems.co.uk for further details.

Our engineering consultants would be pleased to discuss your requirements with you, and we invite you to contact our team at info@idbsystems.co.uk, alternatively you can call us on +44 (0) 1492 864 126.