

ID-913 Electrostatic Charge Decay Meter

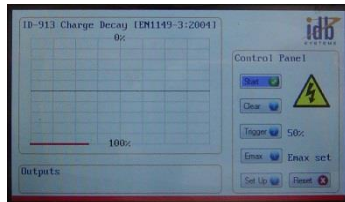
Building on the success of the popular ID-489 and the ID-917 Charge Decay Meters, the ID-913 is a next generation microprocessor based instrument which has been developed to evaluate the antistatic properties of plastics and other materials by measuring their charge decay characteristics.

Antistatic materials are widely used for the packaging of semiconductor devices, for work station bench tops, flooring, seating and for operator clothing.

“The antistatic properties of these materials depend on the rate at which an accumulated electrostatic charge on the surface is dissipated.”

However where the structure of the surface, texture or high magnitude, make surface resistance measurements difficult the measurement of charge decay time is preferred.

More importantly, this method simulates the conditions of the practical situation and allows a more realistic assessment of the antistatic and charge dissipative properties of the material.



Charging of the test specimen is carried out by an induction effect and immediately under the test specimen, which is horizontally arranged, a field-electrode is positioned, without contacting the specimen, and a high-voltage is rapidly applied to the field-electrode.

If the specimen is conductive, or contains conducting elements, charge of opposite polarity to the field-electrode is induced on the specimen.

As the amount of induced charge on the test specimen increases, the net field registered by the measuring probe decreases. It is this decrease in field that is used to determine the **half decay time** and **shielding factor**.

The effect is then measured and displayed on the TFT display and can be downloaded to a PC using a Type A to Type B USB cable.



SPECIFICATIONS & FEATURES

Input Power Options:	100V - 240V AC 50Hz – 60Hz
Field-electrode:	Polished stainless steel 70mm diameter surrounded by an earthed guard ring
Applied Test Voltage:	1200V Rise time <=30 uS
Support Ring:	Internal diameter 100mm
TFT Touch Screen Display:	Resolution 480 x 272
Dimensions:	530 x 342 x 162mm
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.