

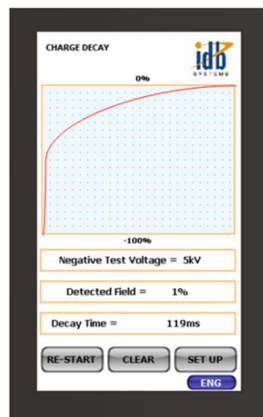
## ID-946 Electrostatic Charge Decay Meter

Building on the success of the popular ID-917 Charge decay Meter, the ID-946 is a next generation microprocessor-based instrument which has been developed to evaluate the antistatic properties of materials by measuring their charge decay time.

The ID-946 is in general accordance with test method 4046 as described in MIL-STD-3010C as well as those described in IST40.2(01) and BS7506.

The antistatic properties of these materials depend on the rate at which an accumulated electrostatic charge on the surface is dissipated. To a large extent this will be governed by the surface resistance and for many materials this may be measured using a Surface Resistance Meter, e.g. the ID-945.

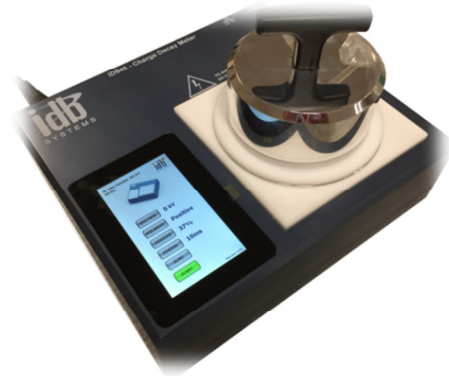
However, where the structure of the surface, texture or very high magnitude, make surface resistance measurements difficult then the measurement of charge decay time is preferred. More importantly, this test method simulates the conditions of the practical situation and allows a more realistic assessment to be made of the antistatic and charge dissipative properties of the material.



In the charge decay method, an electrode placed on the material under test and in contact with its surface is charged to a specific test voltage. The time required for the electrode to discharge to one of two pre-set limits (default - 50% or 10%), is then measured

The Model ID-946 Electrostatic Charge Decay Meter can be programmed to measure the charge decay time from 0.01 second increments at test voltages from 1KV to 5KV (either positive or negative). The instrument can also be connected to a desk-top or laptop PC using a Type A to Type B USB cable. A Graphical User Interface programme which can be obtained from IDB Systems gives the user the ability to control the instrument and modify test parameters such as Measurement point, Test Voltage and Test Voltage Polarity.

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](mailto:info@idbsystems.co.uk), alternatively you can call us on +44 (0) 1492 864 126.



### SPECIFICATIONS & FEATURES

**Input Power Options:** 220 - 240V 50Hz AC  
100 - 115V 60Hz AC

**Surface Charge Electrode:** 50mm diameter

**Applied Test Voltage:** 1KV – 5KV

**Measurement Points:** Default 50% and 10%

**Charge Monitoring:** Field-mill Voltmeter

**TFT Touch Screen Display:** Resolution 272 x 480

#### Dimensions

**Instrument** (w) 250 x (L) 220 x (h) 74mm  
**Cover** (Diameter) 120 x (h) 120mm

#### Weight (kg)

**Instrument** 4.58kg  
**Cover** 1.22kg