Static Decay Analyzer

Model 4406

electro-tech systems, inc.

Electrostatic Instrumentation

Electro-tech System's Model 4406 is the industry standard for static decay analysis.

With more than 40 years of refinement, the Model 4406 contains features that make static decay analysis a seamless process. The decay rate of a material is a crucial metric in static sensitive environments where material must be able to quickly dissipate charge in a controlled manner.

With the Model 4406, users and researchers can validate that static-safe material is suitable for applications requiring conformance to applicable DOD, NFPA, ESDA, INDA and EU standards. The Model 4406 provides this insight by charging the material to a defined voltage, grounding the material and then monitoring the time for the applied charge to decay to a defined cutoff level.

Applicable Standards

MIL STANDARD 3015, METHOD 4046, NFPA 99, ANSI/ESD S541, CECC 00015, INDA IST 40.2

Applications

- Electronic Packaging
- Clean Rooms
- Medical Products
- Plastics Formulation
- Military Requirements
- R&D Materials
- Textile Applications
- Hazard Control
- Materials Engineering
- Static-Safe Requirements

Key Features

- Automated testing provides ease of use, efficiency and eliminates human errors.
- System automatically evaluates material suitability prior to performing actual static decay testing to ensure valid results.
- Fixturing and clamping flexibility allows analysis of various shapes, sizes and types of materials.
- Test data is stored in memory and can be easily downloaded.

For accuracy and specification compliance, the Model 4406 sample must be operated inside a controlled humidity environmental chamber, Please contact ETS for more information

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Questions? Here's how to contact our experts

3101 Mt Carmel Ave. Glenside, PA 19038

833-ESD-GURU (833-373-4878) sales@ets2.com **www.electrotechsystems.com**

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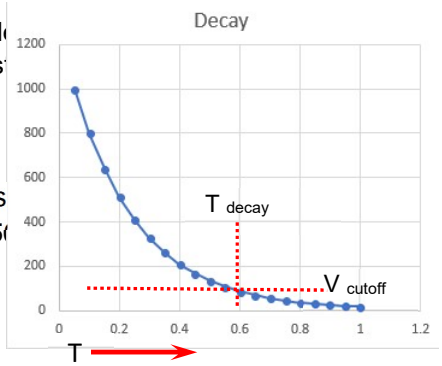
Specifications

CONTROL	UNIT
Charging	**Voltage:** Programmable +600 to +5,250V or -600 to -5,250V
Decay	**Window:** 0.03, 9.99, or 99.9 sec, automatically selected
Decay	Time Display: 3 digit digital
Decay	Time Resolution: 0.1% of full scal
Cutoff	Voltage Level: 1%, 10%, or Adjus
Sensor:	
Type:	Electrostatic
Drift:	<1% / min (Relative Humidity les
	Response time: 1ms (10-5



Power:
Voltage: 90-260VAC, 50/60Hz; 0.75 Amps max
Input: IEC Socket with 6' (2m) cable with NA plug (Std)

Dimensions:
Size: 16-3/4"W x 12"D x 4"H (42.5 x 30.5 x 10 cm)
Weight: 8.5 lbs. (3.9kg)

FARADAY CAGE TEST FIXTURE

Required Environment (humidity):
50% RH or lower recommended (70% RH or higher will produce unreliable results).

Sample Holder:
Magnetic: For Film, Fabric (included)
Clamp: For Non-flexible sheet (included)
Custom: For Shaped objects (available at extra cost)

Dimensions:
Size: 9-1/2"W x 11-1/2"D x 9-3/4"H (24 x 29 x 25 cm)
Weight: 9.5 lbs. (4.3 kg)

Warranty: One (1) Year – Parts & Labor

ENVIROMENTAL CHAMBERS LINK

To ensure consistent and valid results annual calibration is required
Contact: service@ets2.com for assistance.

Specifications subject to change without notice.