



**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 3010C, METHOD 4046, NFPA 99-2005, ANSI/ESD S541, CECC 00015, INDA IST 40.2, ISO 139

## 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 must be operated inside a controlled humidity environment, Please contact ETS for more information**

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Questions? Here's how to contact our experts

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# Static Decay Analyzer Model 4406

## 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 scale

Cutoff Voltage Level: 1%, 10%, or Adjustable

**Sensor:**

Type: Electrostatic

Drift: <1% / min (Relative Humidity less than 50% RH)

Response time: 1ms (10-50% RH and 20 to 25 C)

**Power:**

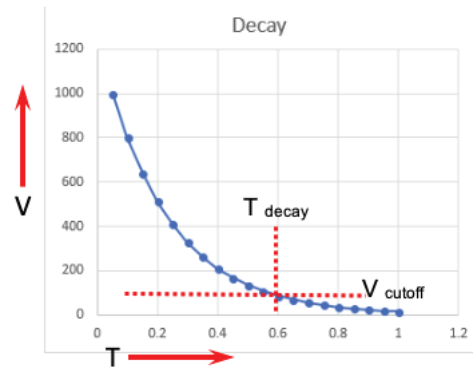
Voltage: 90-260VAC, 50/60Hz; 0.75 Amps max

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):**

65% RH or lower.

For best results, 50%RH or less is recommended

**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

To ensure consistent and valid results annual sensor calibration is required

Contact: [service@ets2.com](mailto:service@ets2.com) for assistance.



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