



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

With more than 40 years of refinement and patented technology, 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, INDA, GB and AAMI 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, INDA/EDANA IST 40.2 / NWSP 40.2.R0 (20), GB 19082-2009, AAMI TIR11:2015

Applications

- Military Requirements
- Material Engineering & Testing
 - Static Dissipative Plastics
 - Nonwoven Material
- Product Testing
 - Medical Products
 - Electronics Packaging
- Fire Hazard Control
- Static-Safe Requirements

Key Features


- Automated testing provides ease of use, efficiency and eliminates human errors.
- System automatically evaluates material properties prior to performing static decay test to ensure valid results.
- Faraday Cage isolates the sample for accurate testing.
- Fixturing and clamping flexibility allows analysis of various shapes, sizes and types of materials.
- Test data is stored in memory and available to download.

**The Model 4406 should be operated inside a controlled humidity environment for compliance with standards.
Contact Electro-Tech Systems for information and recommendations.**

D00609 Rev F

Questions? Here's how to contact our experts

 700 West Park Avenue, Perkasie, PA 18944

 +1 (215) 887-2196

 sales@ets2.com

 electrotechsystems.com

Static Decay Analyzer Model 4406

Specifications

System

Accuracy: $\pm 50\text{ms}$ @ 22° C and 12% RH ambient conditions and equipment set to a 10% cutoff with the STM-2 utilized as the standard.

Resolution: 10ms for measurements $\geq 10\text{ms}$; 1ms for measurements $< 10\text{ms}$.

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:

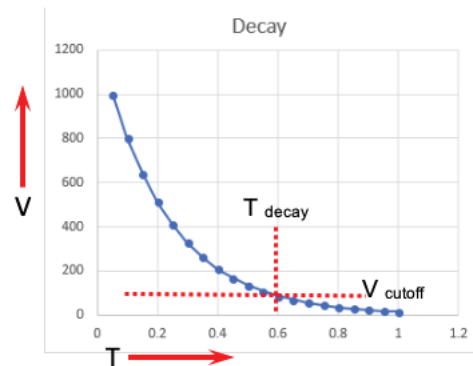
Voltage: 90-260VAC, 50/60Hz; 0.75 Amps max

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):

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 for assistance.



Proudly Distributed by:

