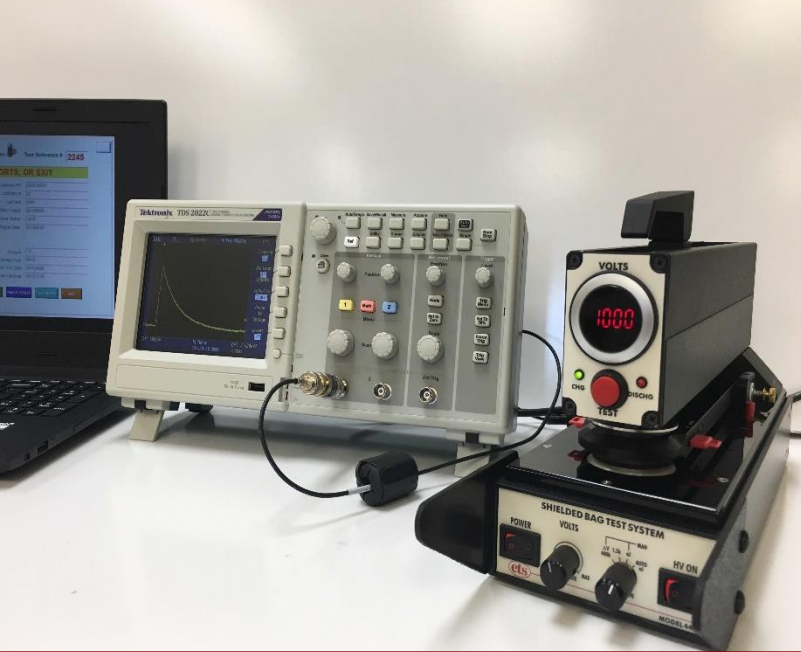


Shielded Bag Test System: Model 4431T



Electrostatic
Instrumentation



Ensure that your shielded bags protect the sensitive devices they exist to serve. Electro-Tech Systems' 4431 provides a reliable measure of how well a bag shields its contents from an external ESD event. This turnkey system administers a HBM pulse to the outside of the bag and makes a calibrated measurement of energy detected inside the bag. User-friendly 4431 Test Manager software schedules multiple tests on multiple samples and provides both printed and graphical reports of the results. The 4431T allows you to verify that bags are accomplishing their stated purpose, choose between bag materials and design, as well as monitor production variation and overall shielding effectiveness.

Standards Satisfied

ANSI/ESDA S11.31, MIL-PRF-81705E Amendment 1, ESD S11.4

Effectiveness testing of:

- Static Shielded Bags and Film
- Conductive Bags
- Moisture Barrier Bags


Key Features


- Automated testing provides ease of use, efficiency and eliminates human errors.
- Pre-test discharge event validates HBM waveform conforms to industry standards
- Measures bag internal energy in nJ
- Test data compiled into easy to read report

For accuracy and specification compliance, the model 4431T should be operated inside a controlled humidity environment, Please contact ETS for more information


D00612 Rev B

Questions? Here's how to contact our experts

 700 West Park Avenue, Perkasie, PA 18944

 (215) 887-2196

 sales@ets2.com

 www.electrotechsystems.com

Specifications

Discharge Unit

Power:

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

Input: IEC Socket with 6' (2m) cable with NA plug (Std)

High Voltage Power Supply:

Adjustable ± 800 - $\pm 1,200$ V

Discharge Network:

STM11.31: 100pF & 1500 Ω

Discharge Waveform STM11.3

Rise time @ 0 Ω : <10 nsec

@ 500 Ω : <20 nsec

Fall time @ 0 Ω : 150 \pm 15 nsec

@ 500 Ω : 200 \pm 20 nsec

Ringing: <15%

Signal Output:

Current output: Tektronix CT-1: 5mV/mA @ 500 Ω :

Capacitive Sensor:

Electrodes: 0.875" (22mm) stainless steel

Dielectric: 0.5" (12mm)

Capacitance: 6pF

Dimensions:

4"W x 12"D x 6"H (102x305x152mm)

Oscilloscope

Tektronix TDS2022C:

Voltage: 90-260VAC

Communication Signal input/output to computer: USB

Communication Signal input/output to oscilloscope: USB

Computer

A computer with Windows 10 & ETS Test manager software installed.

The system uses folder C:\ETS\ as a destination for all test results

Warranty: One (1) Year Parts & Labor

To ensure consistent and valid results annual calibration is required

Contact: service@ets2.com for assistance



Specifications subject to change without notice

