

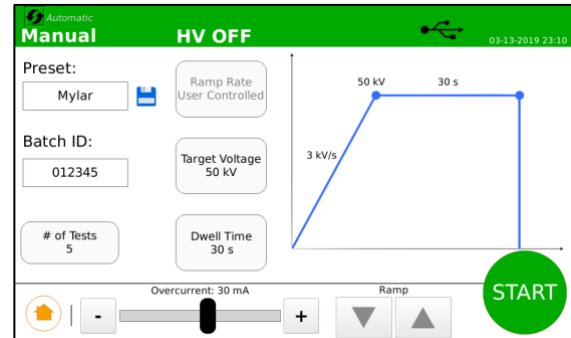
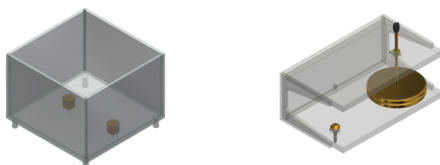
## D149-DI

### AC Dielectric Breakdown Tester

The D149-DI Series of AC Dielectric Breakdown Testers represents a new level of sophistication, flexibility and accuracy in breakdown voltage testing. Each unit is equipped with a new standard embedded firmware controller that is internally programmed to perform the ASTM D149 short-time test, step-by-step test and slow rate-of-rise test. This unit can also be easily programmed to perform variations of these test sequences. The voltmeter circuit continually samples each waveform to determine the breakdown voltage with the highest accuracy. The operator can control all test parameters as required. When testing is complete, all breakdown information for that series of test samples are automatically recorded. Standard units are available in 30kV, 50kV, 75kV and 100kV AC for a wide variety of applications. Contact the factory for DC or partial discharge testing requirements, and to inquire about modernization of existing systems.



50kV unit (pictured above)  
Example of oil bath & test cell (pictured below)



### FEATURES

- 7" touchscreen controller**
- Breakdown voltage detection **within 10µs**
- USB 2.0** for data download
- Internally programmed** to perform all D149 type tests
- Adjustable test parameters** (voltage, ramp rate, max leakage current, etc.)
- Built in safety cage** with interlock door
- Adjustable overcurrent sensitivity**
- Optional **test fixtures** and **oil baths**
- User Friendly** and intuitive controls

### BENEFITS

- SIL3 compatible**
- Complete** test solution.
- All metering** performed by fast sensing circuitry.
- Tests performed** with automated sequences.
- Software** designed to calculate all test result data and save in csv format for report.
- Rackmount controller**

### APPLICATIONS

- Polymeric molding and embedding compounds
- Ceramics, Porcelain, and Mica
- Sleeving, Tubes, Sheets, and Rods
- Varnishes, Coatings, and Insulating fluids.
- Filling Compounds
- Adhesives

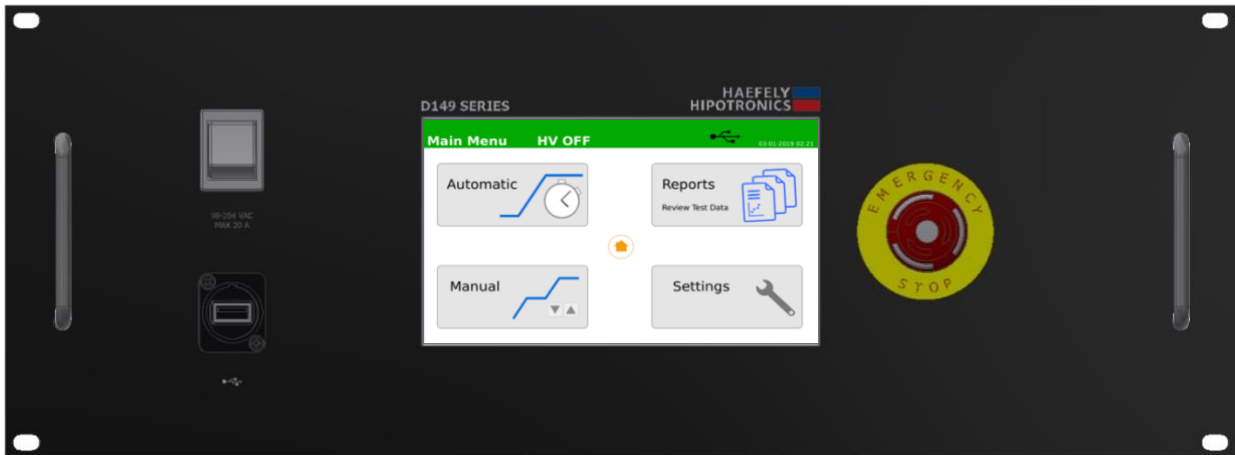
## TECHNICAL SPECIFICATIONS

Model #		730-2D149-DI	750-2D149-DI	775-5D149-DI	7100-5D149-DI
System Output	Voltage (AC) *	0.5kV – 30kV	0.5kV – 50kV	1kV – 75kV	1kV – 100kV
	Current	66mA	40mA	66mA	50mA
Voltage Measurement Accuracy	+1.5% of reading from 2-100% of full scale				
Dimensions (net) **	25" x 27" x 68" H			69" x 39" x 75" H	
Weight (net)	325lbs			1850lbs	
Input Frequency	50/60Hz				
Input Voltage	90 – 264VAC				
ECCN: 3A992.A			HTS US: 9030.39.0100		

\* DC units up to 120kV available upon request. Please consult factory.

\*\* Magnetic lamp adds 10" to height of the system once installed

## SYSTEM CONTROLS



## OPTIONAL EQUIPMENT & ACCESSORIES

Part Number	Description			Max Test Voltage
TF-.25-#	Electrode, 0.25 inch diameter			# In the part number, designate '50' for 30kV or 50kV max voltage or '75' for 75kV or 100kV max voltage.
TF-.50-#	Electrode, 0.5 inch diameter			
TF-1-#	Electrode, 1 inch diameter			
TF-2-#	Electrode, 2 inch diameter			
TF-4.5-#	Electrode, 4.5 inch diameter			
TF-4.25-#-A	Flat plates, 4.25 inch length, 0.5 inch thick, 0.25 inch wide, square edges, 0.125 inch rounded ends			
TF-3-#	Opposing Cylinders (0.12 inch rounded edges)	Upper Cylinder	Diameter: 1 inch Thickness: 1 inch	
		Lower Cylinder	Diameter: 3 inch Thickness: 0.6 inch	
OB-#	Lucite Oil bath			
TL-D149-50	High Voltage & Ground Test Leads. Used to connect terminations to alternative fixtures.			N/A

### OFFICES:

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