

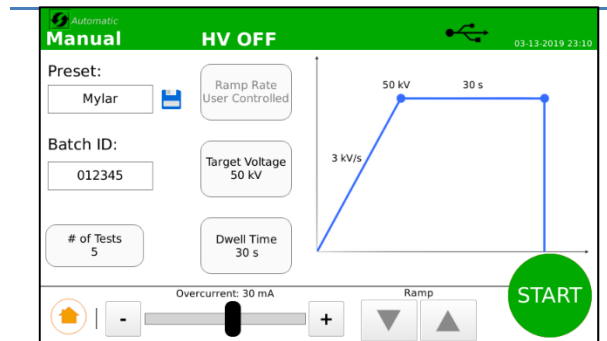
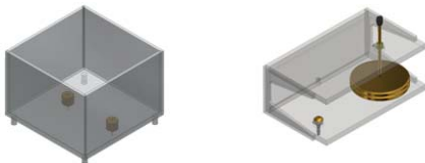
## D149-DI

### 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 10 $\mu$ s
- 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
- HIPODirect Mobile App Compatible: View, Share and Upload** test reports to online cloud and update firmware all through WIFI Direct

### 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	0.15kV – 30kV	0.25kV – 50kV	0.375kV – 75kV	0.5kV – 100kV
	Current	66mA	40mA	66mA	50mA
Voltage Measurement Accuracy		±1.5% of reading, ±0.2% of scale**			
Dimensions (net)*		25" W x 27" D x 68" H		69" W x 39" D x 75" H	
Weight (net)		325lbs/147.42kg		1850lbs/839.15kg	
Test Chamber Dimensions		22" W x 22" D x 24" H		44" W x 33" D x 34" H	
Input Frequency		50/60Hz			
Input Voltage		90 – 264VAC		200 – 264VAC	
Duty Cycle		Continuous Breakdown Testing / 2kVA 15 min on 45 min off 8 times per day		Continuous Breakdown Testing / 5kVA 1 hr on 1 hr off 8 times per day	
ECCN: 3A992.A			HTS US: 9030.39.0100		

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

\*\* 775, 7100 have dual scale, 0-10kV, 10kV – 100kV

## SYSTEM CONTROLS



## OPTIONAL EQUIPMENT & ACCESSORIES

Part Number	Description	Max Test Voltage	
TF-.25-#	Electrode, 0.25 inch diameter/6.35mm	# 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/12.7mm		
TF-1-#	Electrode, 1 inch diameter/25.4mm		
TF-2-#	Electrode, 2 inch diameter/50.8mm		
TF-4.5-#	Electrode, 4.5 inch diameter/114.3mm		
TF-4.25-#-A	Flat plates, 4.25 inch/107.95mm length, 0.5inch/12.7mm thick, 0.25 inch/6.35mm wide, square edges, 0.125 inch/3.175mm rounded ends		
TF-3-#	Opposing Cylinders (0.12 inch rounded edges)	Upper Cylinder	Diameter: 1 in/25.4mm Thickness: 1 in/25.4mm
		Lower Cylinder	Diameter: 3 in/76.2mm Thickness: .6in/15.2mm
OB-#	Lucite Oil bath		
TL-D149-50	High Voltage & Ground Test Leads. Used to connect terminations to alternative fixtures.	N/A	
HHD13-280	Resistive ground stick, 120 kV max.		

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