# <u>AC/DC D149-DI</u>

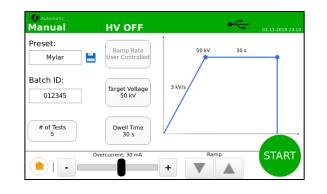
# AC/DC Dielectric Breakdown Tester

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 as well as the tests procedures in the IEC60243-1 and IEC60243-2. 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/DC for a wide variety of applications.









#### **FEATURES**

- 7" touchscreen controller
- Breakdown voltage detection within 10µs
- **USB 2.0** for data download
- ☑ Internally programmed to perform all ASTM D149, IEC 60243-1,-2 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
- **External Ground Stick**
- 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.

## **APPLICATIONS**

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

Hipotronics, Inc. 1650 Route 22. Brewster, NY 10509. United States tel: + 1 845 279 9245 | fax: + 1 845 279 2467 | email: sales@hipotronics.com

#### **TECHNICAL SPECIFICATIONS**

Model #		730/830-2D149-DI	750/850-2D149-DI	775/875-5D149-DI	7100/8100-5D149-DI		
System Output	Voltage AC	0.15kV – 30kV	0.25kV – 50kV	0.375kV – 75kV	0.5kV – 100kV		
	Current AC	66mA	40mA	66mA	50mA		
	Voltage DC	0.15kV – 30kV	0.25kV – 50kV	0.375kV – 75kV	0.5kV – 100kV		
	Current DC	5mA	5mA	5mA	5mA		
Voltage Measurement Accuracy		±1.5% of reading, ±0.2% of scale**					
Dimensions (net)*		26" W x 36" D x 70" H		69" W x 39" D x 75" H			
Weight (net)		405lbs/147.42kg		1850lbs/839.15kg			
Test Chamber Dimensions		24" W x 34" 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: 3	A992.A	HTS US: 9030.39.0100					

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

\*\* 75kV/100kV units have dual scale, 0-10kV, 10-100kV

#### SYSTEM CONTROLS

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4		Step-by-Step	Settings 🔧		

# **OPTIONAL EQUIPMENT & ACCESSORIES**

Part Number	Description	Max Test Voltage			
TF25-#	Electrode, 0.25 inch diameter/6	# In the part number, designate '50' for 30kV or 50kV max voltage or '75' for			
TF50-#	Electrode, 0.5 inch diameter/12				
TF-1-#	Electrode, 1 inch diameter/25.4				
TF-2-#	Electrode, 2 inch diameter/50.8				
TF-4.5-#	Electrode, 4.5 inch diameter/12				
TF-4.25-#-A	Flat plates, 4.25 inch/107.95m inch/6.35mm wide, square edg				
TE 0 #	Opposing Cylinders (0.12	Upper Cylinder	Diameter: 1 in/25.4mm Thickness: 1 in/25.4mm	75kV or 100kV max voltage.	
TF-3-#	inch rounded edges)	Lower Cylinder	Diameter: 3 in/76.2mm Thickness:.6in/15.2mm		
OB-#	Lucite Oil bath				
TL-D149-50	High Voltage & Ground Test Le alternative fixtures.	N/A			

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