

# ASTM D149 TESTER

## AC Dielectric Breakdown Tester

■ **The 700-D149-P** Series of AC Dielectric Breakdown Testers represent a new level of sophistication, flexibility and accuracy in breakdown voltage testing. Each unit is equipped with a microprocessor-based control system that is internally programmed to perform the D149 short-time test, step-by-step test and slow rate-of-rise test. The unit can also be easily programmed to perform variations on these test sequences. The voltmeter circuit continually samples the waveform to determine the breakdown voltage with the highest accuracy. The operator can control all test parameters as required. At the conclusion of tests, all relevant parameters (minimum, maximum, mean, and standard deviation) for a series of tests on a sample are automatically calculated and displayed. The included Windows software package (when installed on a customer-supplied PC) allows remote operation; data collection and data download to a database or spreadsheet program. Units are available from 30kV to 100kVac for a wide variety of applications.



730-2-D149-P shown

---

### Features

- ☑ Microprocessor-based control and measurement system
- ☑ Internally programmed to perform all D149 type tests
- ☑ Adjustable test parameter (voltage, time, over current, etc.)
- ☑ Optically isolated
- ☑ RS232 port
- ☑ Operable from front panel or remote PC via windows software program
- ☑ Built in safety cage with interlock door
- ☑ Adjustable current overload (10% ... 110%)
- ☑ Optional test fixtures and oil baths
- ☑ NIST traceability

---

### Benefits

**Complete** test solution

**All metering** performed by fast sensing circuitry

**Tests performed** with little or no operator intervention

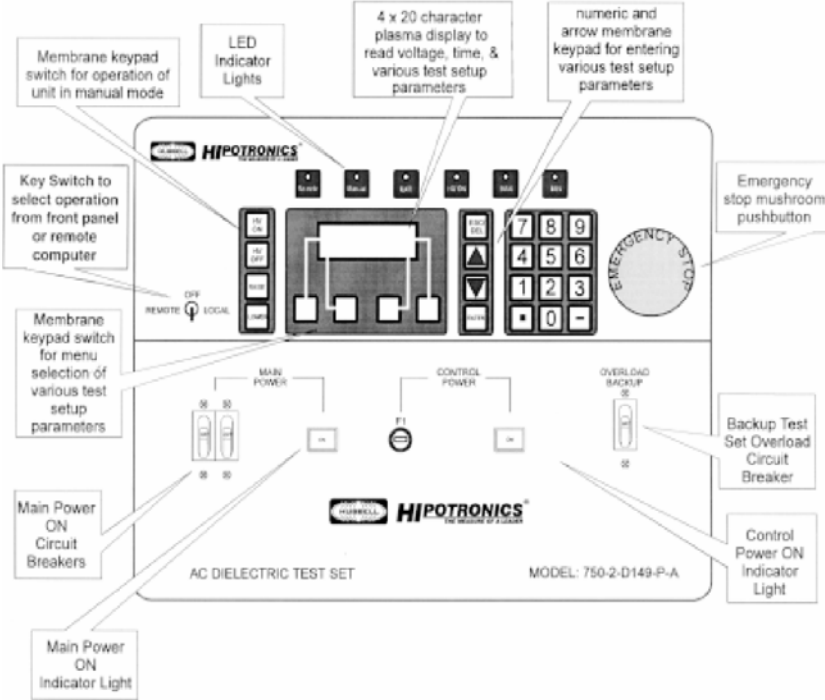
**Software** calculates all test parameters and print out test reports

---

### Applications

- ➔ Films, Papers, Tapes, and Fabrics
- ➔ Polymeric molding and embedding compounds
- ➔ Ceramics, Porcelain, and Mica
- ➔ Sleeving, Tubes, Sheets, and Rods
- ➔ Varnishes, Coatings, and Insulating fluids.
- ➔ Filling Compounds
- ➔ Adhesives
- ➔ Rubber and Rubber Products

## System Controls



## Ordering Information

### System

System output voltage:	<b>730-2-D149-P-*</b>
- 0-30kV (Tap 1)	
- 0-6kV (Tap 2)	
System Output Current:	
- 67mA	
System output voltage:	<b>750-2-D149-P-*</b>
- 0-50kV (Tap 1)	
- 0-10kV (Tap 2)	
System Output Current:	
- 40mA	
System output voltage:	<b>775-5-D149-P-B</b>
- 0-75kV (Tap 1)	
- 0-7.5kV (Tap 2)	
System Output Current:	
- 67mA	
System output voltage:	<b>7100-5-D149-P-B</b>
- 0-100kV (Tap 1)	
- 0-10kV (Tap 2)	
System Output Current:	
- 50mA	
* to be replaced with "-A" or "-B"	
	<b>A : 115V, 60Hz.</b>
	<b>B : 220V, 50Hz.</b>

Options contact  
**Haefely Test AG**  
 Lehenmattstrasse 353  
 CH-4052 Basel  
 Switzerland  
 ☎ + 41 61 373 4111  
 ☎ + 41 61 373 4912  
 ✉ [sales@haefely.com](mailto:sales@haefely.com)

Locate your local  
 sales representative at  
[www.high-voltage-hubbell.com](http://www.high-voltage-hubbell.com)



USA Contact  
**Hipotronics Inc.**  
 1650 Route 22  
 PO Box 414  
 Brewster, NY 10509 USA  
 ☎ + 1 845 279 8091  
 ☎ + 1 845 279 2467  
 ✉ [sales@hipotronics.com](mailto:sales@hipotronics.com)

## Technical Specifications

### Voltage Measurement Accuracy

730-2-D149-P-*	± 1%, 0.6-30 kV
750-2-D149-P-*	± 1%, 1-50 kV
775-5-D149-P-B	± 1%, 1.5-75 kV
7100-5-D149-P-B	± 1%, 2-100 kV

### NET Dimensions

730-2-D149-P-*	23 x 72 x 24 in	58 x 183 x 61 cm
750-2-D149-P-*	23 x 72 x 24 in	58 x 183 x 61 cm
775-5-D149-P-B	72 x 72 x 36 in	183 x 183 x 91 cm
7100-5-D149-P-B	72 x 72 x 36 in	183 x 183 x 91 cm

### Applicable Standards

ASTM D149

## Additional Accessories

<b>TF-2-50</b>	2" diameter electrode, for use with 50 kV D149 tester
<b>TF-1-50</b>	1" diameter electrode, for use with 50 kV D149 tester
<b>TF-.25-50</b>	¼" diameter electrode, for use with 50 kV D149 tester
<b>TF-2-75</b>	2" diameter electrode, for use with 75 kV D149 tester
<b>TF-1-75</b>	1" diameter electrode, for use with 75 kV D149 tester
<b>TF-.25-75</b>	1/4" diameter electrode, for use with 75 kV D149 tester
<b>OB-50</b>	Lucite Oil bath ,for use with 50 kV D149 tester
<b>OB-75</b>	Lucite Oil bath ,for use with 75 kV D149 tester
<b>TL-D149-50</b>	HV & Grnd. test leads to connect from terminations to alternative fixture