



ASTM D149 TESTER

AC Dielectric Breakdown Tester

■ **The 700-D149** 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 PLC-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. Units are available from 30kV to 100kVac for a wide variety of applications.



750-2-D149 unit (pictured above)
Example oil bath & test cell (pictured below)



FEATURES

- ☑ PLC-based control and measurement system
- ☑ Presets
- ☑ USB for data download
- ☑ Internally programmed to perform all D149 type tests
- ☑ Adjustable test parameter (voltage, time, over current, etc.)
- ☑ Built in safety cage with interlock door
- ☑ Adjustable current overload (10% ... 110%)
- ☑ Optional test fixtures and oil baths
- ☑ User Friendly Touch Screen

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



TECHNICAL SPECIFICATIONS

Voltage Measurement Accuracy

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

NET Dimensions

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

Applicable Standards

ANSI D149 12.2.1 & 12.2.2

ORDERING INFORMATION

- System output voltage: **730-2-D149-***
 - 6-30kV (Tap 1)
 - 0.6-6kV (Tap 2)
- System Output Current: - 67mA
- System output voltage: **750-2-D149-***
 - 10-50kV (Tap 1)
 - 1-10kV (Tap 2)
- System Output Current: - 40mA
- System output voltage: **775-5-D149-B**
 - 7.5-75kV (Tap 1)
 - 1.5-7.5kV (Tap 2)
- System Output Current: - 67mA
- System output voltage: **7100-5-D149-B**
 - 10-100kV (Tap 1)
 - 2-10kV (Tap 2)
- System Output Current: - 50mA
- * to be replaced with "-A" or "-B"
- A : 115V, 60Hz.**
- B: 230V, 50Hz.**

ADDITIONAL ACCESSORIES

- TF-2-^** 2" diameter electrode
- TF-1-^** 1" diameter electrode
- TF-.50-^** ½" diameter electrode
- TF-.25-^** ¼" diameter electrode
- TF-4.25** -Flat plates .25" thick 4.25" wide
-Edges square and ends rounded to .125"
- TF-3-^** Opposing Cylinders:
-Lower cylinder 3" diameter, .6" thick
-upper cylinder 1" diameter, 1" thick, with edges rounded to .12" radius
- OB-^** Lucite Oil bath
- TL-D149-^** HV & Grnd. test leads to connect from terminations to alternative fixture
- ^ to be replaced with "50" or "75" depending on max test voltage**

European Contact
Haefely Test AG
Lehenmattstrasse 353
CH-4052 Basel
Switzerland
☎ + 41 61 373 4111
☎ + 41 61 373 4912
✉ sales@haefely.com

Locate your local sales representative at
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