

# OC D-Series

Liquid Dielectric Test Sets with Manual Control - 60 / 90 kV



■ The OC D-Series Liquid Dielectric Test Sets accurately and reliably tests dielectric strength of insulating liquids used in a wide variety of electrical apparatus. The rugged, lightweight and portable design ensures years of safe and trouble-free operation both in the field and in the laboratory.

This series is designed to meet testing specifications from all parts of the world with test cells available for ASTM D877, ASTM D1816 and IEC 156 testing standards. Each unit also includes three pre-programmed rates of voltage rise and automatic termination of high voltage upon sample breakdown. A digital memory kilovoltmeter automatically records the breakdown voltage for each test sample. This product range includes models in both 60kV and 90kV AC.

## FEATURES

- ☑ **Environmental friendly FR3™** transformer oil
- ☑ **Lightweight and portable** design
- ☑ **Rugged and reliable** construction
- ☑ **Automatic high voltage shutdown** at breakdown point
- ☑ **Digital** memory kilovoltmeter
- ☑ **Meter accuracy** ± 2% of full scale
- ☑ **Safety interlocked** high voltage section
- ☑ Test cells available for **ASTM D877, ASTM D1816** and **IEC 156** testing

## BENEFITS

- Multi-purpose** compact design for field and factory.
- Sturdy and Reliable** for a long trouble free life
- Easy to use** integrated controller.



60kV Test Set  
(pictured left)

## APPLICATIONS

Testing of insulating liquids in:

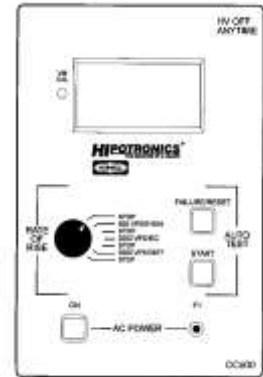
- Transformers
- Bushings
- Switchgear
- Capacitors
- Hydraulics



**TECHNICAL SPECIFICATIONS**

**SYSTEM CONTROLS**

<b>Model Number</b>		<b>OC60D-*</b>	<b>OC90D-*</b>
<b>System Output</b>		0 - 60kV	0 - 90kV
<b>Meter Accuracy</b>		±2% of full scale	
<b>Dimensions (W x H x D)</b>		16 x 13 x 15 in (41 x 33 x 38 cm)	30 x 12 x 17 in (76 x 30 x 43 cm)
<b>Shipping Dimensions (W x H x D)</b>		24 x 19 x 21 in (61 x 48 x 53 cm)	30 x 20 x 20 in (76 x 51 x 51 cm)
<b>Weight</b>	<b>NET</b>	69lbs (31kg)	122lbs (55kg)
	<b>SHIPPING</b>	74lbs (33.5kg)	190lbs (86kg)
<b>Input Voltage &amp; Frequency</b>		* In the model number, designate 'A' for <b>120V/60Hz</b> input or 'B' for <b>230V/50 Hz</b> input	
<b>Harmonized Tariff Code</b>		9030.33.0040	
<b>Included Accessories</b>		Input Chord (7.5ft/2.3m), Calibration Certificate, Operations Manual	



**OPTIONAL EQUIPMENT & ACCESSORIES**

Part Number	Description	Test System	Dimensions (W x H x D)	Weight	
				NET	SHIPPING
TCDE	<b>Test Cell:</b> Contains two flat disc electrodes (1.0 inch diameter). One electrode is adjustable to provide desired gap. Standard 0.1 inch gap gauge is supplied. Rate of rise is 3000 v/s ( <b>ASTM D877</b> ).	OC60D	6 x 4 x 3 in (15 x 10 x 8 cm)	2 lbs (1 kg)	5 lbs (2 kg)
TCVDE	<b>Test Cell:</b> Contains motor-driven circulating system and two VDE electrodes. One electrode is adjustable to provide desired gap. 0.08 and 0.04 inch gap gauges are supplied ( <b>ASTM D1816</b> ).		6 x 6 x 6 in (15 x 15 x 15 cm)	5 lbs (2 kg)	10 lbs (5 kg)
TCIEC	<b>Test Cell:</b> Similar to TCVDE test cell, but with no motor ( <b>IEC 156</b> ).		6 x 6 x 6 in (15 x 15 x 15 cm)	5 lbs (2 kg)	10 lbs (5 kg)
TCCE90	<b>Test Cell:</b> Contains VDE mushroom electrodes and motor driven circulating system ( <b>ASTM D1816</b> ). disc electrodes with 0.1 inch gap gauge are supplied ( <b>ASTM D877</b> ).	OC90D	13 x 6 x 6 in (33 x 15 x 15 cm)	11 lbs (5 kg)	20 lbs (9 kg)
OCCM-E	<b>Calibration Cell:</b> Digital Calibration and ramp rate meter. Digital display (0.5 inch), molded epoxy case, and 2% accuracy at full scale.	OC60D OC90D	6 x 6 x 6 in (15 x 15 x 15 cm)	4 lbs (2 kg)	8 lbs (4 kg)
SPK1-OC60D	Spare Parts Kit for OC60D	OC60D	N/A	N/A	
SPK1-OC90D	Spare Parts Kit for OC90D	OC90D	N/A	N/A	
EXT-WARN-1	One year extended warranty	OC60D OC90D	N/A	N/A	



Test Cell: TCCE90  
ASTM D877  
ASTM D1816  
(pictured left)



Test Cell: TCVDE  
ASTM D1816  
(pictured left)



Test Cell: TCDE  
ASTM D877  
(pictured left)

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