

# OC60D / OC90D

60 / 90 kV Liquid Dielectric Test Sets with Manual Control

■ **Hipotronics OC Series** digital liquid dielectric test sets accurately and reliably test the dielectric strength of insulating liquids used in a wide variety of electric apparatus. The safe and easy operation has made Hipotronics OC series the industry standard for decades.

The OC Series is designed to meet testing specifications in all parts of the world and test cells are available for ASTM D877, ASTM D1816 and IEC 156. The rugged yet lightweight and portable design ensures years of trouble-free operation both in the field and in the laboratory.

The Hipotronics OC series has three pre-programmed rates of voltage rise and automatic termination of voltage upon sample breakdown. A digital memory kilovoltmeter automatically retains the breakdown voltage reading until it is manually reset.



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## Features

- ☑ Lightweight, portable design
- ☑ Rugged and reliable
- ☑ Output voltages to 60 kV or 90 kV
- ☑ Tests insulating oils per ASTM and IEC specifications
- ☑ Automatic HV shutdown at breakdown
- ☑ Digital memory kilovoltmeter
- ☑ Meter accuracy  $\pm 2\%$  F.S.
- ☑ One piece construction with safety interlocked HV section
- ☑ Test cells available for ASTM D877 testing, or ASTM D1816 & IEC 156 testing

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## Benefits

**Multi-purpose** - because of its compact design it's easily useable in the field as well as in the factory.

**Sturdy and Reliable** - The OC series of testers have a long and trouble free life; proven by over 40 years of industry wide use.

**Safe and Easy** - The interlocked HV section and the integrated controller allow your operators to test safely and easily.

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## Applications

Testing of insulating liquids in:

- ➔ Transformers
- ➔ Bushings
- ➔ Switchgear
- ➔ Capacitors
- ➔ Hydraulics

## Technical Specifications

### General

Output Voltage	0 - 60 kV	Input Voltage - A	120 V, 60 Hz
Meter Accuracy	± 2% of full scale	Input Voltage - B	220 V, 50/60 Hz

### Weights and Dimensions (W x H x D, net weight, ship weight)

OC60D	16" x 13" x 15" (41 x 33 x 38 cm)	69 lbs (31 kg)	74 lbs (86 kg)
OC90D	30" x 12" x 17" (76 x 30 x 43 cm)	122 lbs (55 kg)	190 lbs (86 kg)
TCDE	6" x 4" x 3" (15 x 10 x 8 cm)	2 lbs (1 kg)	5 lbs (2 kg)
TCVDE	6" x 6" x 6" (15 x 15 x 15 cm)	5 lbs (2 kg)	10 lbs (5 kg)
TCVDE90	13" x 6" x 6" (33 x 15 x 15 cm)	11 lbs (5 kg)	20 lbs (9 kg)
OCCM-E	6" x 6" x 6" (15 x 15 x 15 cm)	4 lbs (2 kg)	8 lbs (4 kg)

## Scope of Supply

- Qty. 1 OC60D or OC90D Oil Tester
- Qty. 1 Standard Line Cord, 7.5 ft (2.3 m)
- Qty. 1 Operations Manual & Calibration Certificate

## Ordering Information

### System

Oil Tester, Digital 60 kV	<b>OC60D-A, OC60D-B</b>
Oil Tester, Digital 90 kV	<b>OC90D-A, OC90D-B</b>

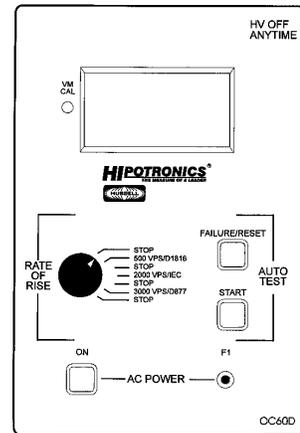
### Accessories

Digital Calibration kV meter and ramp rate meter. A 0.5 inch digital display, molded epoxy case, and 2% accuracy at full scale. An adapter for OC90 is included.	<b>OCCM-E</b>
Spare parts kit	<b>SPK1-OC60D SPK1-OC90D</b>
The TCDE test cell is equipped with two one-inch diameter flat disc electrodes; one is adjustable to provide the desired gap via a set screw. A standard 0.1 inch gap gauge is supplied. The TCDE is used to test at 3000 v/s rate of rise according to ASTM D877. For use with OC60's.	<b>TCDE</b>
The TCVDE test cell is equipped with a motor-driven circulating system 0.08 inch and 0.04 inch gap gauges, and two VDE electrodes, one is adjustable to provide the desired gap. The TCVDE is used to test according to ASTM D1816. For use with OC60's.	<b>TCVDE</b>
The TCIEC test cell is similar to the Model TCVDE cell but without a motor. For use with OC60's.	<b>TCIEC</b>
The TCCE90 test cell has VDE (mushroom) electrodes and a motor driven circulating system for testing to ASTM D1816. For testing to ASTM D877, disc electrodes (included) with 0.1 inch gap gauge may be substituted. Only for use with OC90's.	<b>TCCE90</b>

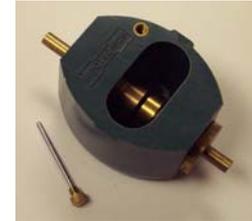
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## Control Panel



## Test Cells



TCDE ASTM D877



TCVDE ASTM D1816



TCCE90 ASTM D1816 and  
 ASTM D877