

# OC E-Series

## Liquid Dielectric Test Set with Integrated Control & Data Acquisition – 60 kV

■ The OC E-Series Liquid Dielectric Test Set are fully automated, digital dielectric system designed to reliably and accurately test the dielectric strength of insulating liquids. The controller is pre-programmed with test procedures to automatically perform ASTM D877, ASTM D1816 and IEC 156 specified tests, and includes an integrated control and data acquisition system. Data from standard tests is automatically stored in one of the 25 internal memory slots. After testing is complete, results can be downloaded to a computer using the RS232 port. There is also the option to add a printer with the ability to print the results directly.

The rugged, lightweight and portable design ensures years of safe and trouble-free operation in both the field and the factory. The OC E-Series automatically terminates high voltage upon sample breakdown, and the digital memory kilovoltmeter automatically records the breakdown voltage for each test sample. This product ranges includes models in 60kV AC.



60kV Automatic  
Test Set (left)

### FEATURES

- ☑ **Preprogrammed** with standard test profiles
- ☑ **Easily upgradeable** software as standards change
- ☑ **Digital** memory kilovoltmeter
- ☑ **Internal Storage** 25 most recent tests
- ☑ **Single piece** construction

### BENEFITS

**Multi-purpose** compact design for use in the field and factory.

**Easy** integrated controller.

**Sturdy and reliable** for a long and trouble free life.

**Report Generation** with the optional printer or standard RS232 port for easy downloading.

**Additional parameters** allow users to enter additional test parameters such as temperature or viscosity.

**Test results** can be stored internally, exported via RS232 or printed via optional onboard printer.

### APPLICATIONS

Testing of insulating liquids in:

- Transformers
- Bushings
- Switchgear
- Capacitors
- Hydraulics

**TECHNICAL SPECIFICATIONS**

**CONTROL PANNEL**

<b>Model Number</b>	<b>OC60E-*</b>	<b>OC60E/P-*</b>
<b>System Output</b>	0 - 60kV	0 - 60kV
<b>Printer Included</b>	No	Yes
<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)	16 x 13 x 15 in (41 x 33 x 38 cm)
<b>Weight</b>	<b>NET</b>	75lbs (34kg)
	<b>SHIPPING</b>	80lbs (36kg)
<b>Input Voltage &amp; Frequency</b>	* In the model number, designate 'A' for 120V/60Hz input or 'B' for 230V/50Hz input	



**OPTIONAL EQUIPMENT & ACESSORIES**

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 (ASTM D877).	OC60E OC 60E/P	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 (ASTM D1816).		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 (IEC 156).		6 x 6 x 6 in (15 x 15 x 15 cm)	5 lbs (2 kg)	10 lbs (5 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.		6" x 6" x 6" (15 x 15 x 15 cm)	4 lbs (2 kg)	8 lbs (4 kg)
SPK1-OC60E	Spare Parts Kit for OC60E	OC60E	N/A	N/A	
SPK1-OC60E/P	Spare Parts Kit for OC60E/P	OC60E/P	N/A	N/A	
EXT-WARN-1	One year extended warranty	OC60E OC60E/P	N/A	N/A	



Calibration Cell:  
OCCM-E  
(pictured left)



Test Cell: TCVDE  
ASTM D1816  
(below)

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