

OC E-Series

Oil Dielectric Test Set with Integrated Control and Data Acquisition

■ **Testing of transformer oil** with the OC Series Hipotronics Oil Dielectric Test Sets has just become simpler. Hipotronics' newest development, the OC60E, includes an integrated control and data acquisition system in the same package. The new controller allows the user to quickly perform reliable tests regardless of whether it is from the standards or just a quick dielectric test. The test results are displayed on a 20 X 4 STN liquid crystal display. Data from standard tests is automatically stored in one of the 25 internal memory slots, while a simple dielectric test is stored until the next test. The RS232 port and 25 internal memory slots make report generation and storage of acquired test data simple. When stored, the test data can later be downloaded to a computer using the RS232 port and a desktop utility program on your personal computer. An added feature with the printer option is the ability to print the results immediately.

The OC60E is a fully automated digital liquid dielectric test set designed to reliably and accurately test the dielectric strength of insulating liquids. The OC60E controller is pre-programmed with the test procedures to automatically perform ASTM D877, ASTM D1816 and IEC 156 specified tests.

The safe and easy operation of the OC Series from Hipotronics has made it the industry standard for more than 40 years. It's rugged yet lightweight design ensures years of trouble-free operation in both the field and the factory.

Like it's predecessors the OC60E automatically terminates the voltage upon sample breakdown and the digital memory kilovolt meter automatically retains the breakdown voltage reading.



Features

- ☑ **Preprogrammed** with standard test profiles
- ☑ Test sequences **are easily upgradeable** as standards change
- ☑ Digital memory kilovolt meter
- ☑ **Storage** of the last 25 tests
- ☑ **One piece** construction

Benefits

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

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

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

Report Generation - With the optional printer or standard RS232 test report generation is made simple.

Additional Parameters - The user has the ability 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

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)

OC60E, OC60E/P	16" x 13" x 15" (41 x 33 x 38 cm)	75 lbs (34 kg)	80 lbs (36 kg)
TCDE	6" x 4" x 3" (15 x 10 x 8 cm)	2 lbs (1 kg)	5 lbs (2 kg)
TCVDE, TCIEC	6" x 6" x 6" (15 x 16 x 15 cm)	5 lbs (2 kg)	10 lbs (5 kg)

Scope of Supply (OC60E)

- Qty. 1 OC60E with built in controller and data acquisition
 Qty. 1 Standard Line Cord, 7.5 ft (2.3 m)

Ordering Information

System

Oil Tester, Digital 60 kV, Automatic Controls	OC60E-A OC60E-B
Oil Tester, Digital 60 kV, Automatic Controls, On-board printer	OC60E/P-A OC60E/P-B

Accessories

Optional Digital Calibration kV meter and ramp rate meter. 0.5 inch digital display, molded epoxy case, 2% accuracy FS. Adapter for OC90 included.	OCCM-E
Spare parts kit	SPK1-OC60E
TCDE test cell is equipped with two one-inch diameter flat disc electrodes; one is adjustable to provide the desired gap via a setscrew. A standard 0.1 inch gap gauge is supplied. This test cell is used to test in accordance with ASTM D877 .	TCDE
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 via a set screw. TCVDE test cell is used to test in accordance with ASTM D1816 .	TCVDE
TCIEC test cell is similar to the Model TCVDE cell but without a motor. It is used to test at 2000 volts per second rate of voltage rise as required by IEC 156 test procedures.	TCIEC

Control Panel



Test Cells



OCCM-E



TCDE ASTM D877



TCVDE ASTM D1816

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