

# VCM100

## Oil Test Set Calibration Meter



---

### DESCRIPTION

The VCM100 is a calibration meter suitable for verifying the calibration of oil test sets. The meter will enable the high voltage output to be checked, traceable to national standards, and is suitable for all recent laboratory models of Foster oil dielectric strength test sets such as the OTSAF series and the OTS auto and semi automatic series.

The calibration meter fits in the oil test set chamber in place of a standard vessel. The design ensures that the load to the transformer is similar to the load during an oil dielectric strength test. The voltage indication is viewed on an analogue display marked from 0 to 100 kV with 2 kV divisions. The scale also shows pass tolerance bands to enable a quick assessment of the accuracy to be made. The meter is supplied in a protective bag.

### OPERATION

New versions of the OTSAF are programmed with a test sequence suitable for using the VCM100. This sequence causes the output of the oil test set to ramp up from 0 kV to the maximum voltage value, pausing at each 10 kV point for 10 seconds to allow the calibration to be checked.

Use with individual models of Foster oil test set;

#### 1, OTS60

Use either 'manual' by setting 10 kV, 20 kV.....60 kV in turn or use the slowest ramp rate of 0,5 kV/sec.

#### 2, OTS60 auto

Use either 'manual' by setting 10 kV, 20 kV.....60 kV in turn or use the ASTM D1816 which ramps slowly at 0,5 kV/sec.

#### 3, OTS60AF

Use either the calibrate option or the 'Withstand' (Proof) program by setting 10 kV, 20 kV.....60 kV in turn or use the ASTM D1816 which ramps slowly at 0,5 kV/sec.

#### 4, OTS75 auto

Use either 'manual' by setting 10 kV, 20 kV.....75 kV in turn or use the ASTM D1816 which ramps slowly at 0,5 kV/sec.

#### 5, OTS80AF

Use either the calibrate option or the 'Withstand' (Proof) program by setting 10 kV, 20 kV.....80 kV in turn or use the ASTM D1816 which ramps slowly at 0,5 kV/sec.

#### 6, OTS100AF

Use either the calibrate option or the 'Withstand' (Proof) program by setting 10 kV, 20 kV.....100 kV in turn or use the ASTM D1816 which ramps slowly at 0,5 kV/sec.

**SPECIFICATION****Panel meter scaling**

0 - 100 kV in 2 kV divisions

**Accuracy**

±3% of full scale

**Temperature Range****Operational:**

0°C to 40°C

**Storage:**

-30°C to +70°C

**Humidity Range****Operational:**

80% RH at 40°C

**Storage:**

93% RH at 40°C

**Safety**

The meter is only approved for use with Megger oil test sets.

**Dimensions**

198 mm x 235 mm x 102 mm

**Weight**

2,4 kg

**ORDERING INFORMATION**

Included Accessories	Order Code
Carrying case	6420-094
Instruction Card	6172-044
Certificate of calibration	

**UK**

Archliffe Road, Dover  
Kent CT17 9EN England  
T (0) 1 304 502101  
F (0) 1 304 207342

**UNITED STATES**

4271 Bronze Way, Dallas, Texas  
75237-1017 USA  
T 1 800 723 2861  
T 1 214 330 3203  
F 1 214 337 3038

**OTHER TECHNICAL SALES OFFICES**

Valley Forge USA, Toronto  
CANADA, Mumbai India and  
BAHRAIN.

Megger products are distributed  
in 146 countries worldwide.

**ISO STATEMENT**

Registered to ISO 9001:1994 Reg no. Q 09250  
Registered to ISO 14001 Reg no. EMS 61597

**6172-044 V02**

[www.megger.com](http://www.megger.com)  
Megger is a registered trademark