

# POWER ELECTRONICAL

High Voltage Dielectric Diagnostics

<http://www.powerelectronical.com/>

## PE-OBDV-MXXX Oil Breakdown Voltage Tester



Oil suffers from electrical and mechanical stresses while a electrical equipment is in operation. In addition there are contaminations caused due to chemical interactions with windings and other solid insulations, catalyzed by high operating temperature. As a result the original chemical properties of Oil changes gradually, rendering it ineffective for its intended purpose after many years. Hence this oil has to be periodically tested to ascertain its basic electrical properties, and make sure it is suitable for further use, or necessary filtration has to be done. The most common and easiest test of these is finding out the breakdown or flashover potential of the Oil under test.

PE-OBDV-6 series of Oil Breakdown Tester are available in a variety of maximum test voltages, denoted by their suffixes in kV.

Suffix M060 means – 0-60 kV AC

Suffix M080 means – 0-80 kV AC

Suffix M100 means – 0-100 kV AC

PE-OBDV-6 is a precise instrument, which is applied to accurately measure the dielectric breakdown voltage of the Oil under test. It consists of the high AC voltage generating unit, and the Oil vessel (as per applicable standard)

### Features

- Smooth operation from zero potential to FSV with motorized operation
- Accurate 15mA trip current
- Precise HV trip Voltage measurement, Voltage hold after trip
- Non-contact magnetic stirring
- Digital display output
- Epoxy coated, long life HV transformer for reliable life-long operation
- Open Ground interlock, Reset interlock for equipment protection
- HV chamber interlock, Zero Start interlock, Overload & Short-Circuit interlock for operator protection
- Can be used to test specimen as per IS 6792, IEC 60156

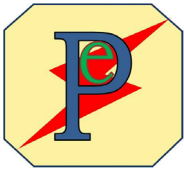
### Specifications

#### Input/Output

- Power Supply – Single Phase AC 180V-250V 50 Hz (110V 60Hz model available on request)
- Voltage output – PE-OBDV-M100 - 0-100kV AC  
PE-OBDV-M080 - 0-80kV AC  
PE-OBDV-M060 - 0-60kV AC
- Display – 3 ½ Digital display
- Output Voltage accuracy – 2% of readout
- Output Voltage resolution – 0.1 kV (100V)
- Voltage ramp rate – approx 2kV/sec
- Trip Current – 20mA max

*PREVENTION is better and cheaper than CURE*  
*Trust the experts!!*

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## **Atmospheric**

- Operating Temp – minus 10 deg C to +50 deg C
- Humidity < 75% non-condensing

## **Physical**

- Size – 450mm(W) × 450mm(D) × 400mm(H)
- Gross Weight – 36kgs (incl accessories)

## **Standard Accessories**

Test equipment – 1 no

Oil vessel with Mushroom Electrodes – 1 set (or any one of other optional accessories)

2.5mm go-no go gauge – 1 no

Connecting AC mains cable – 1 no

User manual – 1 no

Test certificate – 1 no

Warranty Certificate – 1no (Standard warranty 1 yr)

## **Optional Accessories**

Oil vessel with spherical electrodes (OBDV-OV-2)

Oil vessel with flat electrodes (OBDV-OV-3)



Oil Vessel OBDV-OV-1

Note – Power Electronical reserves the right to change product specifications for continual improvement. Please order a fresh copy of specs from [contact@powerelectronical.com](mailto:contact@powerelectronical.com), before placing new orders. Jurisdiction limits within territory of Republic of India only.

Our other Products are –

- Automatic Cap & Tan Delta test system 10kV / 12kV
- Manual C&DF test system 12kV
- Auto Oil Breakdown Voltage Tester 80kV / 100kV
- Motorised Oil BDV set 0-100kV
- Automatic Oil Resistivity & DF test system
- Insulation Testers (10M to 15T, 2% accuracy)
- High Voltage Breakdown testers (10kV-50kV)
- SF6 Gas filled Standard Capacitors (upto 1000kV)

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