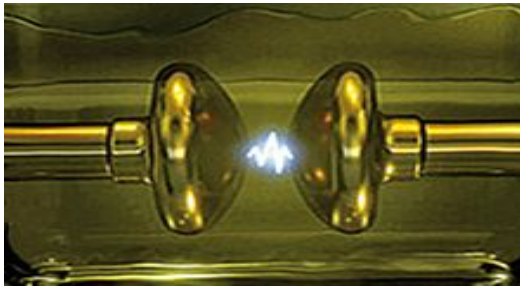




# KPM Oil Breakdown Voltage Tester (KPM-OBD 100A+)

As the name suggests, KPM-OBD100A+ is used for measuring breakdown strength of the insulating oil.

- The dielectric strength of an insulating oil is a measure of the oil's ability to withstand electrical stress without failure.
- The test involves applying an ac voltage at a controlled rate to two electrodes immersed in the insulating fluid. The gap is a specified distance. When the current arcs across this gap, the voltage recorded at that instant is the dielectric strength/breakdown strength of the insulating liquid.



**Onsite BDV testing of Insulating Oil – A better option**  
On-site testing has unmatched advantage as it provides us immediate results.

- It is highly useful in case of emergencies & making quick decisions for most critical part of power system i.e. Power Transformer .
- If a suspicious result is obtained, it is usually possible to repeat the test without delay and, if the problem is confirmed, the affected transformer can be taken out of service immediately.



## Key Points:

1. All the human interaction operation is controlled through a 7-inch touch screen.
2. The test process fully meets the requirements of IEC156/IS6792/BS5874, ASTM D1816, ASTM D877 and ASTM D1816.
3. Test standards can be selected to set up with high test accuracy.
4. PC application software is provided to upload test data to make WORD test report.
5. Temperature measurement ,0 to 70'C

## Key Specifications:

Input Power	AC 220V±22V, 50Hz±2Hz	
Output	Model	Voltage
	KPM-OBD80+	0-80kV
	KPM-OBD100+	0-100kV
Voltage Rising rate	0.5kv/s±10%, 2kv/s±5%, 3kv/s±5%,5kv/s±5%	

Testing Times	1-9 times
Stir time	0-999sec
Settling Delay	0-999sec

Environmental	Operating Temperature: 0°C~40°C Storage Temperature: -10°C~60°C Humidity: ≤90%
Dimensions	420x380x410 (mm <sup>3</sup> )
Weight	38 Kg





# KPM Oil Breakdown Voltage Tester (KPM-OBD 100A+)

## Front Panel Display :



KPM-OBD is having Automatic Pre-programmed Test Sequences as per latest IEC/ ASTM . It is also capable of programming a customer defined test sequence .

### STIR TIME

- Stirrer increases the possibility that within oil container during every test a fresh sample of oil shall come between the electrodes without physically opening the lid and hence reducing the chances of atmospheric contamination of oil sample.

### SETTLING DELAY

- Settling delay is being preceded by the stirring process where impurities are left to deposit in the bottom of the Chamber due to effect of gravity .
- Sufficient "settling delay" after "Stirring" process reduces the chances of premature voltage breakdown in oil test sample due to presence of impurity particle between the electrodes.

### NUMBER OF TESTS

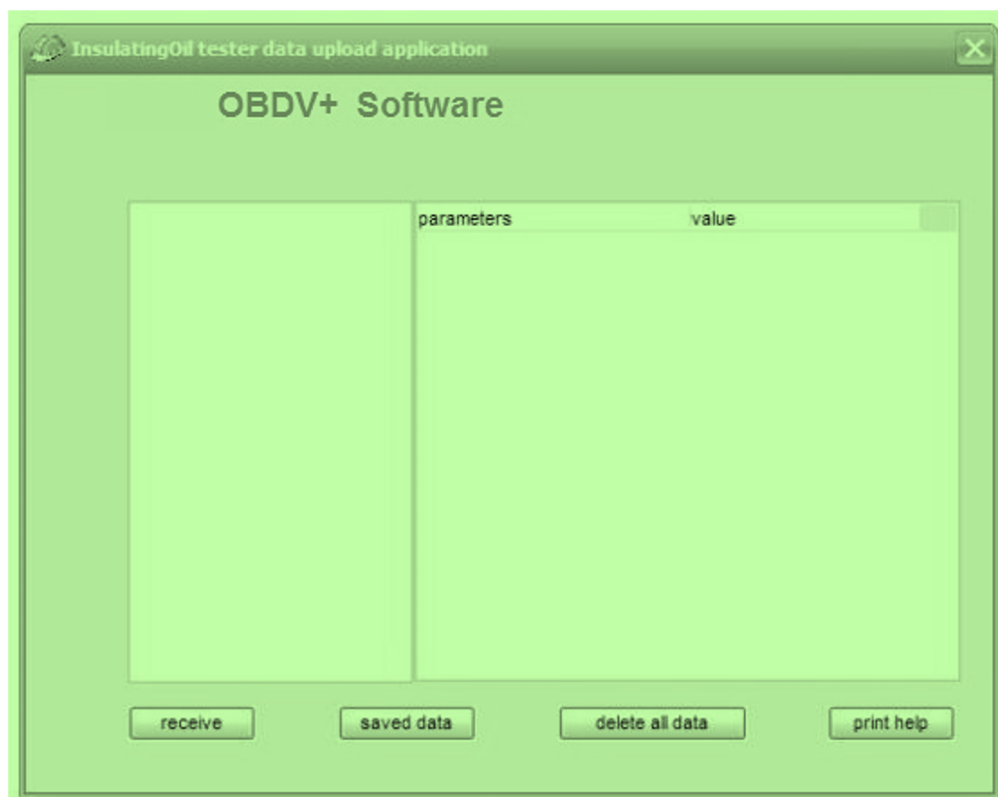
- User can enter the number of test and final result is a calculation of the average value of the oil breakdown strength .





## KPM Oil Breakdown Voltage Tester (KPM-OBV 100A+)

### PC Software:



### About Us

KPM is a high quality manufacturer & provider of rugged electrical testing equipment for EHV/HV/LV substations. KPM solutions are known for:

- Best in class specifications
- Unique test approach
- Interference rejection capability

Each equipment is supported by advance service center in Gurgaon backed by a team of expert application & service engineers. KPM aims in bringing highest specification products at the doorstep of Indian customers in best rates.

### Contact Us

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