

OIL TEST SET : MOT-OTS

The MOTWANE MOT-OTS semi automatic series offer up to 100kV models for accurate & precise measurement of dielectric strength of silicon, mineral & plant Oil. The compact & rugged design makes it ideal in industrial environment. It is provided with motorized & manual modes to continuously vary output voltage. The MOT-OTS has automatic 2kV/s voltage rise rate & magnetic stirrer as per requirement of IS/IEC standard.

The most important function of insulating oil is to provide electrical Insulation under high electrical potential . The dielectric strength of insulating oil is a measure of the oil's ability to withstand electrical stress without failure. Any significant reduction in the dielectric strength will indicate that the oil is no longer able to perform this vital function, leading to failure of equipment.



Features

- Suitable for silicon, mineral & plant oil
- Compact & rugged design
- Variable output voltage by manual/motorized mode
- Safety door interlock
- 500ml acrylic oil test cell with protection cover
- Stainless steel/brass electrodes for better accuracy & durability
- Electrodes with locking facility to avoid displacement during test
- Automatic high voltage shutdown at breakdown point
- Memory effect Analog voltmeter for reading BDV
- Suitable for conducting tests as per IS 6792

Applications

Oil in electrical equipments such as transformers, Circuit breakers, CT acts as insulation, coolant & helps to preserve core & winding. Hence the performance of such equipments depends on quality of oil used in it.

BDV of Insulating oil in:

- Transformers
- Bushings
- Capacitor
- Circuit Breakers



Technical Specifications

Model -	OTS - 60	OTS - 80	OTS - 100
Oil Break down Test Kit	60 kV	80 kV	100 kV
Voltage Ranges	0 - 60 kV AC	0 - 80 kV AC	0 - 100 kV AC
Voltage Rise Rate	2KV/sec		
Input Supply	230 Volts, 50Hz \pm 10%, 1 Phase		
Display	Analog type		
Meter Accuracy	\pm 2% of reading		
Voltage Resolution	2kV		
Tripping Time	<10ms		
Breakdown	Automatic		
Interlocking & Safety	Low/High level interlocking for drive motor. H.T.Chamber door interlocking. Earth Open Interlocking & reverse interlocking (optional)		
Operation	Manual & Motorized Operation		
Protection	Safety door, Zero start interlock, Earth open interlock, Overload protection		
Indication	Bright LED for Power ON and Test ON Indication		
Test Cell	500ml ACRYLIC Test Cell with removable and adjustable electrodes		
Test Standard	IS 6792 : 1992		
Operating Temperature	-10°C - 55°C, <90% RH Non condensing		
Accessories	1. Test cell with mushroom electrodes 2. Mains supply cord 3. GO & NO GO gauge 4. Operation Manual 5. Calibration Certificate 6. Warrenty Certificate 7. Stirrer		
Optional	Stirrer		
Dimension (LXWXH in mm)	540 X 520 X 435		
Weight	48 Kg Approx.		



ORDERING INFORMATION

Model	Product detail
MOT-OTS 60	0 - 60kV Oil Break Down Test Set without stirrer
MOT-OTS 80	0 - 80kV Oil Break Down Test Set without stirrer
MOT-OTS 100	0 - 100kV Oil Break Down Test Set without stirrer
MOT-OTS 60S	0 - 60kV Oil Break Down Test Set with stirrer
MOT-OTS 80S	0 - 80kV Oil Break Down Test Set with stirrer
MOT-OTS 100S	0 - 100kV Oil Break Down Test Set with stirrer

Warranty : Standard one year warranty against any manufacturing defects.

Notes

1.The Instrument is accompanied with Test & calibration sheet. 2.Test Facilities can be provided at the factory with the available test set-ups only. 3. The Company's policy is continuous improvement of its products. We therefore reserve the Right of any deviation from illustration or specifications without notice. 4.Stated accuracies are valid from 10% of the range to 95% of the range. 5. Accuracy Specified for temperature range of 25°C \pm 5°C & 55% RH \pm 10%.

Designed and Manufactured by:



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