

# OTS-60DS/80DS/100DS

Digital Transformer Oil Test set



## Features

- Motorized operation with 2kV/s ramp rate
- Safety door & Zero start interlock
- Digital display with Hold facility
- Voltage Calibrator for onsite calibration
- Earth open Interlock

## Description

The Motwane Manufacturing Pvt.Ltd. offer a wide range of Oil Breakdown voltage test kits to check integrity of insulating oil used in Transformers, Capacitors, XLPE cables and Switchgear for safe operation and maintenance. OTS series comes in three distinct models - OTS100A, a preprogrammed fully automatic kit ; Motorized ( Digital ) OTS100DS kit and OTS100 an analog motorized cum manually operated kit. Designed with unmatched quality and improved reliability and safety having earth & zero start, safety door interlock ensuring high degree of protection.

## Applications

Transformer oil serves mainly two purposes one it is liquid insulation in electrical power transformer and two it dissipates heat of the transformer, acts as coolant. In addition to these, this oil serves other two purposes, it helps to preserve the core and winding as these are fully immersed inside oil and another important purpose of this oil is, it prevents direct contact of atmospheric oxygen with cellulose made paper insulation of windings, which is susceptible to oxidation

When this liquid insulation becomes compromised due to aging / contamination, it leads to catastrophic event due to insulation flashover. The voltage withstands capability of oil often reduced due to contamination. The contamination can be due to dirt, water ingress and particulate cellulosic fibers.

The Motwane's OTS-DS series useful for Oil Testing in following equipments

BDV of Insulating oil in:

- Transformers
- Bushings
- Capacitor
- Circuit Breakers

## Technical Specification

Power supply	230V, 50Hz $\pm 10\%$ , 1 Phase
Power consumption	200VA
Output voltage (in KV)	0-100kV (OTS - 100DS) 0 - 80kV (OTS - 80DS) 0 - 60kV (OTS - 60DS)
Voltage Accuracy	$\pm 2\% \pm 2$ digits
Voltage Resolution	0.1kV
Voltage rise rate	2kV/sec
Tripping time	<10 ms
Test standards	IEC 60156 / IS6792
Display	LED-Digital
Protection	Zero start interlock Safety door interlock Earth open interlock Overload Protection
Environmental condition	-10°C to 55°C, <90% RH, Non condensing
Dimension ( L X W X H ) mm	465 X 510 X 445
Weight	48 Kg Approx
Safety Standards	IEC 61010-1, EMC 61326

### Standard Accessories

Oil test vessel with mushroom electrode assembly | Magnetic oil stirrer | Lifting stick for magnetic stirrer | Go - No - Go gauge  
Mains cord | User manual | Calibration Certificate | Earth lead | Mains cord | Spanner | Spare fuses

### Optional Accessories

Voltage Calibrator | Oil test vessel with Spherical Electrodes | Oil test vessel with Cylindrical Electrodes



Designed and Manufactured by:

**The Motwane Manufacturing Company Pvt. Ltd.**

Gyan Baug, Motwane Road, Nashik 422101, Maharashtra, India.

Tel. No.: +91-253-2463752 / 53 Fax.:+91-253-2463197 Toll Free:1800 - 233 - 7766

e-mail: sales@motwane.com visit : www.motwane.com