



Features

- ✓ Fully Automatic Microprocessor based
- Pre-programmed International Test Standards
- ✓ Customized Test Sequences
- ✓ Voltage Slew Monitoring: Real Breakdown Monitoring (RBM)
- ✓ Upgraded Sequence as per IEC60156-2018
- ✓ Suitable to test Mineral, Ester & Synthetic Oil
- ✓ Internal Memory up to 100 Test
- ✓ USB Interface
- Inbuilt Thermal Printer
- ✓ Voltage Checker for onsite Calibration (Optional Accessories)
- Bluetooth enabled for Motware Mobile App

OTS-60DS/80DS/100DS

Digital Oil Insulation Test Set



Motwane offers a wide range of Oil Breakdown Voltage test kits to check dielectric strength of insulating oil used in Transformers, Capacitors, Switchgears and Instrument Transformer for safe operation and maintenance. OTS-DS series Series is meeting to national & international standards for conducting BDV Test. It is also facilitated with Zero Start Interlock and Earth Open Interlock for safety and avoid hazards. Also equipped with LED (Digital Display) along with Hold Facility. Designed with unmatched quality and improved reliability and safety having earth & zero start, safety door interlock ensuring high degree of protection. OTS comes with two variants models- OTS-A series - a pre-programmed fully Automatic Oil BDV kit and OTS-DS Series - Motorized with Digital Display.

Applications

Transformer oil is used as insulating medium in transformer, switchgear and other electrical apparatuses and it also acts as coolant to dissipate heat of the transformer. In addition to these, Insulating Oil serves other purposes like it helps to preserve the core and winding as these are fully immersed inside oil and another important purpose of insulating oil is, it prevents direct contact of atmospheric oxygen with cellulose made of paper insulation used in windings, which is susceptible to oxidation. When insulating oil deteriorates due to aging / contamination which leads to catastrophic event due to flash over in insulation. The voltage withstands capability of oil which often is reduced (which often reduces) to contamination like dirt, water ingress and foreign particles.

OTS-DS series useful for Oil Testing in following equipment's

- Power and Distribution Transformer
- Bushing
- Instrument Transformer
- Switchgear
- Capacitors



Technical Details

OTS-60DS/80DS/100DS

Technical Specification

Mains Supply	110V/230VAC \pm 10% 50/60Hz Single Phase
Output Voltage	0 - 100kV (OTS - 100DS)
	0 - 80kV (OTS - 80DS)
	0 - 60kV (OTS - 60DS)
Voltage Accuracy	± 1% ± 1kV
Voltage Resolution	0.1kV
Voltage Rise Rate	2kV/sec
Trip Time	Less than 1ms.
Tripping Current	<u>≤</u> 10mA
Standards	complying IEC 60156, IS6792
Display	3 ½ digit LED digital
	Earth Open Interlocking
Protection	Zero Start Interlock
	Safety Door Interlock
	Earth Open Interlock
	Overload Protection
Operating Temperature	0°C to 55°C, <90% RH, Non condensing
Storage Temperature	-10°C to 55°C
Dimension	655mm(L) X 325mm(W) X 385mm(H)
Weight	≤ 40kg

Test Standard

Manual Test.

As per IEC 60156, 5 Min Test, ASTM D1816, ASTM D877, IS 6792, BS 5730A, BS 5874, BS 148, UNE 21, NFC 27, OCT 6581, AS 1767, IP 295, STAS 286, VDE 0370, CE 1344, SABS 555, STA 8286, With stand A, With stand B, Custom, BS5730,

Accessories

Standard

Oil Cup Assembly (Domestic))	:1Set
Instrument Carrying Case With Foam For OTS	: 1 No.
Carrying Bag With Foam For OTS Accessories	: 1 No.
GO NO GO Gauge 2.5MM SS	: 1 No.
Pointer For Oil Cup OTS-100/80DS/60DS	: 1 No.
Spanner For Electrode Setting 12/13 FOR OTS-DS	: 1 No.
Fuse 5A 250V Slow Blow Unleaded Glass	
Dimension - 5 X 20 MM	: 1 No.
Mains Cord Straight, LENGTH=3.0MTR	: 1 No.
Test Lead For Earth OTS-100	: 1 No.
Instruction Manual	: 1 No.
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Optional

- Voltage Checker
- Bluetooth enabled & Motware Mobile App



Fig. 1: Vernier based Oil Test Cell