



Connected to Cloud

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 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.

Features

- ✓ Motorized Operation with 2kV/s ramp rate
- ✓ Safety Door & Zero Start Interlock
- ✓ Digital Display with optional Hold Facility till Variac goes zero position
- ✓ Voltage Checker for onsite checking (optional)
- ✓ Earth Open Interlock
- ✓ Bluetooth enabled for Motware Mobile App

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

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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	$\pm 1\% \pm 1kV$
Voltage Resolution	0.1kV
Voltage Rise Rate	2kV/sec
Trip Time	Less than 1ms.
Tripping Current	$\leq 10mA$
Test Standards	Complying IEC 60156, IS6792
Display	3 $\frac{1}{2}$ digit Panel Meters
Protection	Earth Open Interlocking
	Zero Start Interlock
	Safety Door Interlock
	Earth Open Interlock
Operating Temperature	Overload Protection
Storage Temperature	0°C to 55°C, <90% RH, Non condensing
Dimension	-10°C to 55°C
Weight	655mm(L) X 325mm(W) X 385mm(H) $\leq 40kg$

Accessories

Standard

■ Oil Cup Assembly	: 1 Set
■ 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.

Optional

- Voltage Checker
- Bluetooth enabled & Motware Mobile App



Fig. 1 : Vernier based Oil Test Cell

ORDERING INFORMATION

Product	Order Code
OTS 60 DS	1096Z6010
OTS 80 DS	1096Z5010
OTS 100 DS	1096X7210