

OTS-60A/80A/100A

Fully Automatic Transformer Oil Test Set



Features :

- Fully automatic microprocessor based
- Preprogrammed international test standards
- Customized test sequences
- Internal Memory for 100 Test results
- USB interface
- Inbuilt Thermal Printer
- Voltage Calibrator for onsite calibration

Description :

OTS-A series is fully automatic microprocessor based kit designed with advanced features to measure breakdown voltage of insulation oil. It can measure breakdown voltage more accurately & precisely due to quick sensing ability of kit. The OTS-A Series has preprogrammed worldwide acceptable standards with user friendly customized standards. The large LCD display with touchpad for easy operation. It is provided with internal memory for 100 data storage & inbuilt printer for onsite report. The kit is protected from damage by automatic detection of poor input ground. The acrylic oil test vessel provided with adjustable electrode gap setting to test as per standards. The portable voltage calibrator useful for onsite calibration which saves cost & time of user.

Application :

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-A series useful for Oil Testing in following equipments

- Power Transformer
- Instrument Transformer
- Circuit Breakers
- HT Cables
- Capacitors

Technical Specification

Mains supply	:	110V/220V 50/60Hz, $\pm 10\%$
Power consumption	:	200VA
Output voltage	:	0 - 100kV (OTS - 100A) 0 - 80kV (OTS - 80A) 0 - 60kV (OTS - 60A)
Voltage Accuracy	:	$\pm 1\% \pm 2$ digits
Voltage Resolution	:	0.1kV
Voltage rise rate	:	0.5kV to 5kV/sec
Switch-off time	:	<1 ms
Pre-programmed Standards	:	IEC 60156, IS6792, ASTM D877, ASTM D1816, UNE 21, BS 5730a, BS 148, BS 5874, VDE 0370, NFC 27, CE1344, OCT 6581, SABS 555, AS 1767, STA 8286, IP 295
Customized Test Standards	:	5
Programmable parameters	:	Stand time – 0 to 999 secs Stirring Time – 0 to 999 secs Intermediate stand time – 0 to 999 secs Voltage Ramp-up– 0.5kV/sec to 5kV/sec Iterations - 24
Temperature measurement	:	0 - 99°C
Temperature resolution	:	1°C
PC Interface	:	USB
Printer	:	Inbuilt Thermal Printer
Internal Memory	:	100 test results
Display	:	Large LCD colour display
Protection	:	Zero start and HT cover open interlock Auto trip and reset Open Ground Protection Overload Protection
Environmental condition	:	0°C to +55°C, <90% RH, Non condensing
Safety Standards	:	IEC61010, IEC61326
Dimension	:	650mm X 320mm X 361mm
Weight	:	39kg
Standard Accessories	:	Oil test vessel with a mushroom electrodes Magnetic oil stirrer Retriever for magnetic stirrer Electrode gauge set - 1.0mm / 2.0mm / 2.5mm / 4.0mm Mains cord User manual Calibration Certificate
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

