

OTS-60A/80A/100A

Fully Automatic Transformer Oil Test set



Features

- Fully automatic microprocessor based
- Preprogrammed test sequence as per IEC 60156 / IS6792/ASTM
- Programmable test sequences
- Large LCD display with touchpad for alphanumeric data entry
- Internal Memory for 100 Test results
- USB interface & Software for report generation
- Inbuilt Thermal Printer for Onsite Report
- Voltage Calibrator for onsite calibration

Description

OTS-A series is fully automatic microprocessor based transformer oil test set designed with advanced features to measure breakdown voltage of insulation oil accurately. The OTS-A Series preprogrammed with worldwide acceptable standards. The user can define 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 by automatic detection of poor input ground. The acrylic oil test vessel provided with adjustable electrode gap setting. The voltage calibrator for onsite calibration saves cost & time.

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-A series useful for Oil Testing in following equipments

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

Technical Specification

Power supply	230V, 50Hz $\pm 10\%$, 1 Phase
Power consumption	200VA
Output voltage (in KV)	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	0.5, 1,2,3 & 5kV/sec (Selectable)
Switch-off time	<10 ms
Ambient temperature measurement	0 ... 99 °C
Temperature resolution	01°C
Humidity measurement	0 - 100%
Pre-programmed standards	IEC 60156, 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
Programmable test sequences	5
Programmable parameters	Stand time– 0 to 100 mins Stirring Time – 0 to 100 mins Intermediate stand time– 0 to 100 mins Voltage Ramp-up– 0.5kV/sec to 5kV/sec Trip Current – 5 to 20 mA, 1mA step Sequence Repetition– 1 to 99 times
Display	Large LCD display with touchpad
PC Interface	USB
Printer	Inbuilt Thermal Printer
Internal Memory	100 test results
Protection	Zero start and HT cover open interlock Auto trip and reset Poor Ground Rejection Overload Protection
Environmental condition	0°C to +55°C , <90% RH, Non condensing
Dimension (L X W X H) mm	465 X 510 X 445
Weight	48Kg 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

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