



OTS-60A/80A/100A

Automatic Oil Insulating Test Set



OTS-A series is a fully automatic microprocessor-based Oil BDV Tester designed with advanced technologies to measure the electrical breakdown strength of insulating oil. OTS-A has a quick sensing ability to measure accurate breakdown voltage. OTS-A series is equipped with national & international standards for test sequences and it also has user-friendly customized test sequences. The large LCD display with keypad provides easy operation. It is provided with internal memory for 100 data storage & inbuilt thermal printer for the onsite report. As for safety, the OTS-A series has open ground detection feature to avoid damage. The molded oil test vessel is suitable to test Mineral, Ester & Synthetic Oil and it is provided with an adjustable electrode gap setting to conduct the test as per standards. The portable voltage checker is useful for onsite calibration verification.

OTS-A series has a Bluetooth connectivity module with Motware mobile app for remote access of testing data & storage in the cloud for further analysis & record purposes.

Features

- ✓ Fully Automatic Microprocessor based
- ✓ Pre-programmed International Test Standards
- ✓ Customized Test Sequences
- ✓ 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
- ✓ 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 a coolant which dissipates (or 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 flashover in insulation. The voltage withstands capability of oil which often is reduced (which often reduces) due to contamination like dirt, water ingress and foreign particles.

The Motwane's OTS-A series useful for Oil Testing in the following equipments:

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

Technical Details

OTS-60A/80A/100A

Technical Specification

Mains Supply 110V/230V, $\pm 10\%$, 50/60Hz

Output Voltage 0 - 100kV (OTS - 100A)

0 - 80kV (OTS - 80A)

0 - 60kV (OTS - 60A)

Voltage Accuracy $\pm 1\%$ ± 2 digits

Voltage Resolution 0.1kV

Switch-Off Time 0.5kV to 5kV/sec

Switch-off time $< 10\mu$ Sec

Pre-Programmed Standards

IEC 60156-2018, IEC 60156-1995, IS6792, ASTM D877, ASTM D1816,

UNE 21, BS5730A, BS 148, BS5874, VDE 0370, NFC 27, CE1344,

OCT 6581, SABS 555, AS1767, STA 8286, IP 295

Customized Test Standards 10

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 - 99.9°C

Temperature Resolution 0.1°C

PC Interface USB

Printer Inbuilt Thermal Printer

Internal Memory 100 Rest 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 IEC 61010-1 : 2010 AMD : 2016

EMC Standards IEC61326

Dimension 650 mm(H) X 320 mm(W) X 361 mm(L)

Weight 39 Kg (Approx)

Accessories

Standard

- Oil test vessel with Mushroom Electrode Assembly
- Magnetic Oil Stirrer
- Retriever for magnetic stirrer
- Electrode gauge set - 1.0mm / 2.0mm / 2.5mm / 2.54 mm / 4.0mm
- Pendrive loaded with OTS software
- USB Cord
- Mains Power Cord
- User Manual
- Calibration Certificate
- Spherical Electrodes Set
- Flat Electrodes Set

Optional

- Voltage Checker
- Motware Mobile App

This Product is Connected (MOT-WARE Enabled)

MOT-WARE Cloud Application

Motwane has designed and developed MOT-WARE – a cloud based test data platform to aid in accurate Asset Health Assessment. Through MOT-WARE, the test and measurement industry has taken a huge leap forward. MOT-WARE captures data from full range of BLE enabled Motwane testing equipment. It is a user-friendly platform as it is also accessible from a web-based, desktop as well as a mobile application. In addition, it offers an open architecture that can seamlessly integrate with any non Motwane test and measurement equipment for quick and authentic digital test data, captured periodically as well as streamed with real-time data via sensors from loXn series of IOT devices.

MOT-WARE has a preloaded repository of test templates for various electrical assets as well as customizable test templates. A customized report builder in MOT-WARE allows the user to generate report in their own format. It also has a facility to upload historical test data and breakdown history of assets. Test results can also be viewed by various metrics, such as pass or fail.

Data Analysis is also done through MOT-WARE which includes Trend Analysis, MIS Reports and Pivot Tables. As an add-on, MOT-WARE also offers “Motwane AI Analytics” which uses a proprietary AI algorithm and Machine Learning to make accurate predictions about assets life, based on its behavioural patterns and operating conditions.

Being centralized test data, it helps in improving life of assets, its productivity and efficiency, cost reduction, etc. It can be used for various applications across customers’ segments like Utilities, OEMs, Industry, Electrical contractors (Testing, O&M) or Field repairs & Service Provider, EPCs, commercial premise and many more.

Important Benefits



**Accurate Digital
Data**



**Centralized
Data Access**



**Customizable Report
Templates**



**Alerts &
Notifications**



Trend Analysis



Minimum Training



Scheduling Tests



Reach out to us at setup@motware.com to setup a new MOT-WARE account.

Contact Details

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