

# 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)<br>0 - 80kV (OTS - 80A)<br>0 - 60kV (OTS - 60A)   |
| Voltage Accuracy                | $\pm$ 1% $\pm$ 2digits   |
| 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,<br>UNE 21, BS 5730a, BS 148, BS 5874, VDE 0370,<br>NFC 27, CE1344, OCT 6581, SABS 555, AS 1767,<br>STA 8286, IP 295  |
| Programmable test sequences     | 5  |
| Programmable parameters         | Stand time– 0 to 100 mins<br>Stirring Time – 0 to 100 mins<br>Intermediate stand time– 0 to 100 mins<br>Voltage Ramp-up– 0.5kV/sec to 5kV/sec<br>Trip Current – 5 to 20 mA, 1mA step<br>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<br>Auto trip and reset<br>Poor Ground Rejection<br>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:

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