

# OTS-60A/80A/100A

## Automatic Oil Insulation Test Set



### Features :

- Fully automatic microprocessor based
- Preprogrammed international test standards
- Customized test sequences
- Upgraded sequence as per IEC60156-2018
- Suitable to test Mineral ,Easter & Synthetic oil
- Internal Memory for 100 Test results
- USB interface
- Inbuilt Thermal Printer
- Voltage checker for onsite calibration
- Bluetooth connectivity via Motware App

### 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 checker useful for onsite checking of voltage 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

<b>Mains supply</b>	:	110V/220V 50/60Hz, $\pm 10\%$
<b>Output voltage</b>	:	0 - 100kV (OTS - 100A) 0 - 80kV (OTS - 80A) 0 - 60kV (OTS - 60A)
<b>Voltage Accuracy</b>	:	$\pm 1\% \pm 2$ digits
<b>Voltage Resolution</b>	:	0.1kV
<b>Voltage rise rate</b>	:	0.5kV to 5kV/sec
<b>Switch-off time</b>	:	<10 $\mu$ s
<b>Pre-programmed Standards</b>	:	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
<b>Customized Test Standards</b>	:	5
<b>Programmable parameters</b>	:	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
<b>Temperature measurement</b>	:	0 - 99°C
<b>Temperature resolution</b>	:	0.1°C
<b>PC Interface</b>	:	USB
<b>Printer</b>	:	Inbuilt Thermal Printer
<b>Internal Memory</b>	:	100 test results
<b>Display</b>	:	Large LCD colour display
<b>Protection</b>	:	Zero start and HT cover open interlock Auto trip and reset Open Ground Protection Overload Protection
<b>Environmental condition</b>	:	0°C to +55°C, <90% RH, Non condensing
<b>Safety Standards</b>	:	IEC61010, IEC61326
<b>Dimension</b>	:	650mm X 320mm X 361mm
<b>Weight</b>	:	39kg
<b>Standard Accessories</b>	:	Oil test vessel with a mushroom electrodes 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 cord User manual Calibration Certificate
<b>Optional Accessories</b>	:	Voltage Checker Oil test vessel with Spherical Electrodes Oil test vessel with Cylindrical Electrodes Bluetooth connectivity via Motware app

*Designed and Manufactured by:*

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