

# INSULATING OIL TESTER

FULLY AUTOMATIC; Series: OTSA

UDEY®



UDEY insulating oil testers are market standards since 1960 and several thousands of units are in use around the world. Series OTSA are fully automatic micro controller based system, completely self-contained, compact and portable giving smooth variable test voltage from 0 to 60, 80 or 100 kV for testing the dielectric strength of insulating oil in accordance with all international standards like IEC 156 / IS 6792 / ASTM D 1816 / ASTM D 877 / UNE 21 specifications.

## Features:

- Fully automatic test cycle - International standards pre-programmed / user defined.
- Auto / Manual operation mode.
- Test result printed : Test type, date, time, BDV, average bdv, deviations.
- Recall and print of 100 test result stored in data.
- Built in printer.
- Backlit LCD which display all bdv of previous test results.
- Zero start safety and test chamber access interlock
- Ergonomic design completely user friendly

**Udeyraj Electricals Private Limited - Mumbai**

# INSULATING OIL TESTER

## FULLY AUTOMATIC; Series: OTSA

**UDEY**<sup>®</sup>

### SYSTEM DESCRIPTION:

The system is fully automatic, which carries out selected test, ensuring complete safety and at the end generates printed reports with test type, date, time, bdv, average bdv, deviations. The tester conducts selected test repetitively with high accuracy, completely eliminating dependence on the skills and training of the operator. The tester has control and data logging unit, which logs the voltage at the time of occurrence of the break down and proceeds to conduct the subsequent steps such as stirrer operation and wait time of the cycle as per the selected programme.

### MODE OPERATION:

The custom tests are :

- 1) IEC 156, IS 6792, ASTM D 1816, ASTM D 877, UNE 21, International Standards.
- 2) WITHSTAND TEST A
- 3) WITHSTAND TEST B
- 4) 5 MINUTE TEST.
- 5) USER DEFINED

### SPECIFICATION

POWER SUPPLY 230V AC +/- 10%, 50Hz +/- 3 %.

Output Range: 60 / 80 / 100 kV AC.

Indication : Large LCD display

Resolution : 0.1 kV

Temp. : 0-45 deg.C. max.

Humidity : 80% at 45 deg.C. max

BDV hold facility with reset switch

All safety interlock to avoid shock with indications

Protected against overloads & short circuits.

FEATURES Microprocessor control with following features

Fully automatic

Option to set

a) Stand time. b) Stir time. c) Rate of rise of voltage

0.5 KV to 5KV adjustable d) No. of test carried out.

High resolution to 0.1KV

Safety interlock on high voltage test chamber.

Time & Dated result printed or down loaded via RS 232 interface

Built-in-printer.

Weight = 45 Kg. Approx

#### Standard Accessories:

Oil test vessel complete with electrodes (Any one type).

Magnetic magnum for stirrer.

Mains connecting cable.

Gap gauge, 2 Pcs.

PC Soft ware for RS 232.

Paper roll for printer, 2 pcs.

### INTRODUCTION

The insulating oil tester tests the dielectric strength of insulating oil used in Transformers, Circuit breakers, CTs, PTs, etc.

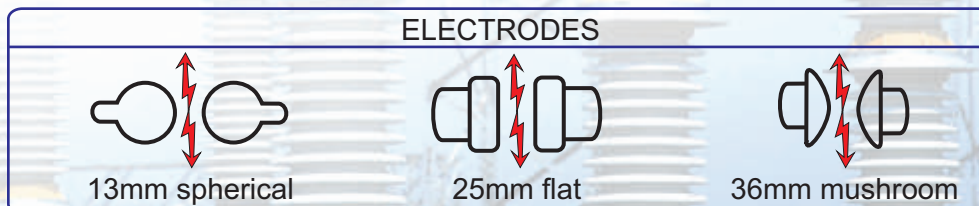
The tester is fully automatic and performs in Auto/Manual modes. The operator simply places the test cell with oil sample and selects the required test. Testing can be done as per various international (IEC, ASTM, European standards), programmed in to the tester memory. Stand time, stir time and rate of rise of test voltage can be selected in Custom Mode also. All test results can be stored in the memory. Besides the above set can also perform withstand test (proof) tests. In this test the tester raises the test voltage to pre-set value and holds for one minute to see if breakdown occurs. LCD display is backlit for user friendly operations.

All programs are selected through JOG mouse.

The test results can be printed along with test type, sample number, serial number, date, time, breakdown voltage, average and deviation.

During reprint command, it is possible to have number of printouts.

Test results are stored in memory. All stored readings can be transferred via the RS-232 interface. Safety interlock prevents access to the high voltage chamber during testing. UDEY 'OTS A' testers ensure a high level of operator safety.



Specification subject to change due to constant up gradation

Catalog No.09/OTS A



**UDEY**<sup>®</sup>

**UDEYRAJ ELECTRICALS PRIVATE LIMITED**

212-A, Hind Saurashtra Indl. Est., Marol Naka, Mumbai-400 059. INDIA

Tel: + 91 22 6691 6181 Fax: + 91 22 6694 2787 E-mail: udeyraj@vsnl.com Website: www.udeyraj.com