



# SIVA INSTRUMENTS

## OIL TEST SYSTEM MODEL:OTS 2K1



## INTRODUCTION

The Oil Test system Model OTS 2K1 is portable transformer oil Test system. It is a specially designed for accurate measurement of Loss Factor, Permittivity & Volume Resistivity Measurement of Transformer Oils & Petroleum jellys.

The test frequency is 50 Hz . The system is provided with Mode Selector Switch so that once the oil cell is connected, it can measure all Three parameters in different modes without handling the test leads.

## SPECIAL FEATURES

- ♦ Single Equipment for Loss Factor, Permittivity & Volume Resistivity Measurement of Transformer Oils & Petroleums.
- ♦ Digital Readout of Insulation Resistance , Dielectric Constant , Tan Delta & AC/DC Voltages.
- ♦ Provision of Standard capacitor & Standard Resistor to quickly verify the proper operation & calibration of System.
- ♦ Provision of Guard terminal. No automatic guard potential regulator is required.
- ♦ Provided with Three Terminal Oil cell & Heating Chamber for Oil Cell .
- ♦ Digital Null detector provides highly accurate results.
- ♦ The equipment is compact, light, portable & Table top for Laboratory use.

## SPECIFICATIONS

**a) Loss Angle Ranges**

- I] 19.99 % FSD with a resolution of 0.01%
- II] 199.9% FSD with a resolution of 0.1%

**b) Dielectric Constant Range**

0.10 to 10.00

**c) Test Voltage**

0-600 VAC continuously variable or as ordered with resolution of 1Volts.

**d) Resistance Range**

10 Meg to  $10^9$  Meg in 7 Ranges which together with Siva Three Terminal Oil Cell measures the resistivity of the order of  $62000 \times 10^{12}$  Ohm Cm

**e) Test Voltage**

+500 VDC with 0.1% stability. The power supply is fully protected against accidental short circuit.

**f) Indication**

3½digit panel meter for Tan d %, Null, IR, Ac & Dc Voltage.

**g) Power supply**

230 V  $\pm$  10%, 50 Hz

**h) Accuracy Tan d %**

$\pm$  1 % of the reading  $\pm$  2 digits.

**i) Accuracy IR**

$\pm$  2 %  $\pm$  1 digit of FSD for First Four Ranges  
 $\pm$  4 %  $\pm$  1 digit of FSD for Last Four Ranges

**j) Weight**

4 kg. approx. for OTS-2k1 and 7Kg for HC

**k) Dimensions**

420 x 270 x 220 mm

**l) Warm Up Time**

5 Minutes

## SIVANANDA ELECTRONICS

DEEPAK MAHAL, LAM ROAD, DEVLALI-422 401, NASHIK. MAHARASHTRA, INDIA.

Phone : 0253-2491423, 2491504, 2491816 E-mail : mkb@sivanandaelectronics.com Fax: 0253-2492291

MUMBAI : 208 MIDAS, Sahar Plaza complex, Andheri Kurla Road, Andheri (E), Mumbai – 400059

PHONE; 022-56430590,56430591 FAX ; 022 - 28389232

NEW DELHI : G -145, KALKAJI, NEW DELHI -110 019. ☐PHONE : 6221582, 6434442

BANGALORE : 44/2, DICKENSON ROAD, BANGALORE - 560 042 ☐PHONE : 5585673

MFRS. OF : ELECTRONIC INSTRUMENTS, METAL DETECTORS, TURNSTILES, COMPUTERISED ATTENDANCE RECORDING & ACCESS CONTROL