



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 62000×10^{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

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