



# Sivananda Electronics

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**OIL TEST SYSTEM  
EW-188**

# Introduction

## CAPACITANCE TAN DELTA & DIELECTRIC CONSTANT

- Test Voltage : Adjustable From 0 to 2500 VAC in steps with an accuracy of  $\pm 1.0 \% \pm 1$  volt
- Resolution: 1 Volt.
- Test Frequency : 50 Hz
- Dielectric Constant Range : 1.0 to 20.0 accuracy  $\pm 0.1\%$ ,
- Best Resolution : 0.001
- Dielectric Tan Delta Range : 0.01% to 100%
- Accuracy:  $\pm 1\% \pm 10$ digits, Best Resolution: 0.00001
- Dielectric Loss : 0 to 10.00 accuracy:  $\pm 1\% \pm 1$  digit.

## RESISTANCE & RESISTIVITY

- Test Voltage DC: 100- 1000 VDC in selectable steps in 100V with an accuracy of  $\pm 1.0 \%$
- Resistance Range:  $10e^6\Omega$ - $10e^{12}\Omega$  Resolution: 0.01
- Resistance Accuracy:  $\pm 2\%$  of reading up to  $1G\Omega$  &  $\pm 5\%$  above  $1 G\Omega$
- Resistivity Range:  $10e^9\Omega$ - $10e^{15}\Omega$  cm Best Resolution: 0.01
- Resistivity Accuracy:
  - $\pm 2\%$  of reading at  $10e^9\Omega$ - $10e^{15}\Omega$  cm
  - $\pm 5\%$  of reading at  $10e^{13}\Omega$ - $10e^{14}\Omega$  cm
  - $\pm 10\%$  of reading above  $10e^{14}\Omega$  cm

## OIL TEST CELL

- Construction : 3 Terminal Configuration.
- Cell Capacitance :  $55\text{pf} \pm 1$  pF
- Material : stainless steel with Teflon spacers.
- Electrode Spacing : 2mm
- Volume : 45ml

## OIL TEST CELL HEATER

- Power Supply : 230VAC  $\pm 10\%$ ,50Hz.
- Test Temperature : Adjustable from  $20^\circ\text{C}$ (Room Temp.) to  $15^\circ\text{C}$  with an accuracy  $\pm 0.5 \%$  Accuracy of temp. control:  $\pm 2^\circ\text{C}$ .

## DISPLAY PRINTER & DATA STORAGE

- Display : Alphanumeric LCD display
- Keyboard :20 Key keypad providing numeric and soft function entries.
- Printer : Inbuilt dot matrix printer.
- PC Compatibility : RS 232 port
- Data Storage : upto 250 test results in inbuilt memory.

## STANDARD CALIBRATOR

- Capacitance 1 value, Tan Delta 3 value & Resistivity 4 value standard calibrator with traceable calibration certificate operating voltage 500VAC/DC.

## POWER SUPPLY, TEMP & HUMIDITY RANGE

- Power Supply : 230VAC  $\pm 10\%$ ,50Hz Operating Temp :  $-10$  to  $50^\circ\text{C}$
- Humidity : ambient to 90%RH

## CONNECTORS

- Suitable HV, LV & Ground Leads ,Safety Interlock & 3Pin Mains chord.

## Features

- Fully automatic Dielectric constant, Dielectric Dissipation Factor & Resistivity Measurement.
- Inbuilt Printer facility for Test Report Printing.
- Easy storage of Data.
- PC Compatibility.
- Fully automatic operation.
- Keyboard : 20 Keys - Alphanumeric
- Inbuilt Printer facility for Test Report Printing Easy storage of Data.
- Fully automatic operation.

## Warranty

Sivananda Electronics warrants its products against defects in material and workmanship for a period of one year from the date of installation or 15 months from the date of dispatch, whichever is earlier. This warranty excludes normal wear on finishes or damage that occurs due to abuse or misuse.

## Our Other Products

- ❖ **Instruments:** 200+ types of test equipment's for Power, Wire & Cable, Capacitor, Oil & Petroleum industries are developed by in-house R&D Lab. Surge Testers, Automatic C&Tan Delta Bridges, Transformer Windings Resistance Meters, Oil Insulation Test Kits, Oil Tan Delta, Volume Resistivity & Dielectric constant Meter, Insulation Resistance Tester, Contact Resistance Meter etc.
- ❖ **Security:** Turnstiles, Tripods, Barriers, Metal Detectors, Bollards etc.

**Disclaimer :** To Keep pace with the technology Sivananda Electronics reserves it's right to update the system without prior consent.

## About Us

- 50 years (in 2020) of service to India.
- 1<sup>st</sup> to develop metal detectors for security in India. Made in India.
- 1<sup>st</sup> to develop Turnstiles in India. Made in India.
- Eclina Awards (1995), Elecrama Awards (1996), NIMA Awards (1999)
- Leading manufacturers of Security Systems and Test & Measuring Instruments in India.
- Largest supplier of Turnstiles in India in the last 25 years
- 150 different types of Electronic Test & Measuring instruments are indigenously developed for many industries.
- Exporting to 70+ countries.