



SIVA INSTRUMENTS

TAN DELTA SYSTEM MODEL : EW188



An ISO 9001:2000 COMPANY



Special 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.

Technical Specifications

CAPACITANCE TANDELTA & DIELECTRIC CONSTANT

Test Voltage : Adjustable From 0 to 3000 VAC in steps with an accuracy of $\pm 1.0\%$

Test Frequency : 50 Hz

Dielectric Constant Range : 1.0 to 13.0 accuracy $\pm 0.2\% \pm 0.001$ Best Resolution : 0.001

Dielectric Tan Delta Range : 10^{-5} to 10 accuracy : $\pm 1\% \pm 0.3\%$ full scale , Best Resolution: 0.00001

RESISTANCE & RESISTIVITY

Test Voltage DC : 500 VDC in step with an accuracy of $\pm 1.0\%$

Resistance Range : 10^6 - $10^{12} \Omega$ Resolution : 3 digit

Resistance Accuracy : $\pm 3\%$ of reading upto $1G \Omega$ & $\pm 10\%$ at high end.

Resistivity Range : 10^9 - $10^{15} \Omega$ -cm Best Resolution : 0.01

Resistivity Accuracy : $\pm 3\%$ of reading $\pm 0.2\%$ full scale.

OIL TEST CELL

Construction : 3 Terminal Configuration.

Cell Capacitance : 55pf ± 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°C (Room Temp.) to 150°C with an accuracy $\pm 0.5\%$ Accuracy of temp. control: $\pm 2^{\circ}\text{C}$.

DISPLAY PRINTER & DATA STORAGE

Display : Alphanumeric LCD display

Printer : Inbuilt dot matrix printer.

PC Compatibility : RS 232 port

Data Storage : upto 250 test results

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°C Humidity : ambient to 90%RH

CONNECTORS

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

SIVANANDA ELECTRONICS

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