



SIVA INSTRUMENTS

TAN DELTA SYSTEM

MODEL: EW188



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 TAN DELTA & DIELECTRIC CONSTANT

Test Voltage : Adjustable From 0 to 3000 V AC in steps with an accuracy of $\pm 1.0\%$
 ± 1 volt, Resolution: 1Volt.

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 : $\pm 1\% \pm 0.05\%$, 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 : 10^6 - 10^{12} Resolution: 3 digit

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

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

Resistivity Accuracy : $\pm 2\%$ of reading at 10^9 - 10^{15} -cm
 $\pm 5\%$ of reading at 1013 -1014 -cm
 $\pm 10\%$ of reading above 1014 -cm

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 1500C 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 : up to 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°C

Humidity : Ambient to 90% RH

CONNECTORS

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

To keep pace with the latest technology Sivananda Electronics reserves the right to update it's system. Hence, information in the brochure is likely to change without notice.

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