



SIVA INSTRUMENTS

Enameled Wire Tan Delta System

Model :EW-188



An ISO 9001:2000 COMPANY



TANDELTA SYSTEM EW-188 is specially designed for quality control of enameled wire. Tangent delta and the tangent data temperature Characteristic are the concepts often discussed in connection with enameled copper wire. The precise measurement of tangent delta is of higher importance for the characterization of hardening state of the enameled insulation. If an alternating voltage is applied to wire enamel, a small current passes through it which is phase shifted. A yard stick for this phase shift is tangent delta. In EW-188 a measuring frequency of 1 KHz sine voltage is applied to the sample. The result is phase shift between voltage and current which is proportional to tangent delta. This phase shift is detected with very precise phase detector circuit. EW-188 can be used for single point measurement as well as determinations of bending point. The temperature can be set anywhere upto 300 degree Celsius for single point measurement. Tan delta and temperature are displayed simultaneously. Further more the curve measurement can be automated on a Laptop PC through suitable windows based software.

FEATURES

- DIGITAL READOUT FOR TEMPERATURE & TAN DELTA.
- SOFTWARE BASED PID TEMPERATURE CONTROL.
- WINDOWS BASED USER FRIENDLY SOFTWARE.
- USB COMMUNICATION PORT FOR LAPTOP CONNECTION.
- MULTIPLE GRAPH COMPARISON ON SCREEN.
- SUITABLE FOR SINGLE POINT AS WELL AS BENDING POINT MEASUREMENT.
- FAST CURVE PLOTTING.
- AUTO BALANCING

SPECIFICATIONS

Power Supply : 230V AC+/-10%, 50Hz +/- 3 %
Test Voltage : 10 VAC Peak to Peak
Test Frequency : 1KHz
Tan Delta Range : 0.00% to 19.99%
Indication : 3 ½ Digit Panel Meter
Resolution : 0.01%
Accuracy : +/-1%of reading
Temperature Range : Ambient to 300°C
Indication : 3 ½ Digit Panel Meter
Resolution : 1°C
Accuracy : +/-1%of reading
Temperature Control : PID
Accuracy : +/- 1°C
Cabinet :Powder coated sheet metal table top cabinet with lifting handles
Controls : Power ON, ZERO/OPERAT
Printer :External Inkjet Printer
Port : USB communication port
Software :Windows based Data Acquisition software
Display :Large Backlit LCD Display to display Test Menu, Set up Screens, Test Result
Storage Memory : More than10000 Test Results
Safety Standards : Meeting IEC 61010-1
Accessories :. Sample Holder, Standard Capacitor, Transport case. Users/instruction manual
Temperature Range : Operating 0 – 50 °C Humidity Range : 80% Rh at 40 °C Storage –5 to 70 °C

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