



**SIVANANDA
ELECTRONICS**

Enameled Wire Tan Delta System

Model: EW-188



**Accurate Insulation Testing
for Enameled Wires**

What is Enameled Wire?

This is a copper or aluminium conductor coated with a thin layer of insulating enamel. Commonly known as Enamel wire, it is widely used in electrical windings for applications such as motors, transformers, coils, relays, and inductors. Weak or damaged enamel insulation can lead to short circuits, overheating, and eventual winding or equipment failure.

What EW-188 Helps You Do

- Check if enamel coating is strong
- Predict motor/transformer performance
- Prevent insulation failure
- Meet national/international QC standards
- Reduce field returns or rejections

Features

Digital Display

Shows Tan Delta and temperature readings clearly for immediate analysis.

Auto Balance Function

Reduces manual intervention and ensures fast, accurate setup.

Automatic Curve Plotting

Automatically generates a graph of Tan Delta vs. temperature, simplifying result interpretation.

Temperature Control (Ambient to 300°C)

Simulates real-world stress conditions for enamel coating.

USB Interface for PC

Enables easy transfer of results and report generation for record-keeping and analysis.

Compact & Rugged Industrial Design

Suitable for both laboratory and shop floor environments; built for long-term durability.

Applications & Industries Served

Wire & Cable Manufacturing Units

For batch-wise testing of enamel coating on copper or aluminum wires before dispatch.

Motor Manufacturing Industry

To ensure the winding wires meet insulation quality before assembly in stators/rotors.

Generator, Alternator & Inverter Manufacturers

To verify insulation behaviour of wires used in high-speed/high-heat applications.

Transformer Manufacturers

For validating coil wires' insulation reliability during quality control.

Electrical Equipment OEMs

To test the reliability of winding wires used in appliances like compressors, fans, pumps, etc.

Repair & Maintenance Departments for Winding

For checking quality of reused or replaced winding wires during rewinding.

R&D Centers & Electrical Testing Institutions

For educational demonstrations, comparative material analysis, and prototype testing.

Government & Private Quality Control Labs

To conduct standard-compliant insulation loss testing and prepare reports for third-party validation.

Key Benefits

- Non-destructive insulation test
- Easy to operate (technical or non-technical users)
- Improves product quality & reduces failures
- Fast, reliable, repeatable results
- Supports QC, R&D, and process control

Explore how EW-188 can simplify your wire insulation testing. Contact us today!

Testing Solutions from Sivananda Electronics

TEST & MEASURING INSTRUMENTS



Our Range Of Test and Measuring Equipment Ensures Accuracy, Safety and Reliability

POWER SECTOR

- Transformer and Switchgear Testing



Automatic Transformer Ratio Meter



Automatic C & Tan Delta Bridge



Transformer Winding Resistance Meter



Automatic Oil Insulation Test Kit

OIL SECTOR

- Oil Tan Delta and Oil Breakdown Tests



Automatic Dielectric Constant Tan Delta & Resistivity Test Kit



Magnetic Analyser

CAPACITORS / METALS / ABRASIVES & UTILITIES

- Precision Testing for Quality Assurance

CABLE INDUSTRY

- Insulation and Conductivity Testing



Micro OHM Meter



Contact Resistance Meter



Million Megohm Meter



Digital Conductivity Meter



Automatic Dielectric Constant Tan Delta & Resistivity Meter



Primary/Secondary Injection Test Kit



Breakdown Tester 50kV

MOTOR & WINDING INDUSTRIES

- Resistance and Surge Comparison Testing



Digital Surge Comparison Tester



Automatic Winding Test System



Manual/Motorized Slim Tripod

SECURED ENTRANCE CONTROL SYSTEMS

These Systems Are Widely Used In Airports, Defense Facilities, And Corporate Campuses For High-Security Access Management.



Door Frame Metal Detector



Retractable Flap Barrier



Full Height Turnstile

Why Partner with Sivananda?

- 55+ Years Of Trust In Testing And Security Solutions
- Installed Base Across Multiple Industries Worldwide
- Reliable Design, Long-Term Durability And Strong After-Sales Support

INDUSTRIAL METAL DETECTORS

Trusted In Pharmaceutical, Food, Textile, Cement, Rubber And Plastics Industries To Maintain Product Quality And Comply With Safety Regulations.

- Food Metal Detector
- Tablet Metal Detector
- Industrial Metal Detector



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