

Hollow Glass Dew Point Meter

This electronic meter detects condensation on the inner surface of hollow glass samples. It is used to determine if condensation occurs under standard test conditions.



Overview

Precision Dew Point Measurement

The electronic hollow glass dew point meter is a professional-grade instrument designed to verify the condensation resistance of insulating glass units. Utilizing advanced semiconductor refrigeration technology, it provides rapid and accurate cooling without the need for volatile ice, making it suitable for both laboratory and field testing environments. The system integrates power, cooling, and PID-regulated temperature control to ensure high-precision data collection in compliance with GB/T11944-2012 standards.

Technical Specifications

Probe Operating Temperature	-40 °C
Probe Diameter	50 mm
Temperature Resolution	0.1 °C
Digital Thermometer Range	-65°C to +50°C

Physical Dimensions

Maximum Specimen Size	510mm × 360mm
Control Box Size	470mm × 550mm × 700mm

Operational Requirements

Standard Test Environment

- Temperature: 23°C ± 2°C
- Relative Humidity: 30% to 75% RH

Operating Voltage	AC220V 50Hz
Power Consumption	1 KW

Key Features

Core Technology

- Semiconductor three-stage refrigeration
- PID temperature control regulator
- PT100 high-precision temperature probe
- Automatic control system

Compliance Standards	GB/T11944-2012
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