

CHILLED MIRROR HYGROMETERS

The MBW™ 373 and 473 Chilled Mirror Dew Point Analyzer is the flagship device for the measurement of dew point and relative humidity in gas processes, research and development, and transfer standards/calibrations. This analyzer supports a wide range of dew point measurements ranging from -95°C up to 140°C . The system incorporates a controlled heating sample path and measurement head, internal pressure measurements, integrated cooling system, and an external platinum resistance thermometer for the widest range of humidity measurements.

Technology: Chilled Mirror Hygrometry



Chilled Mirror Hygrometers

373 Dew Point Hygrometer

The 373 Dew Point Hygrometer measures the dew point and relative humidity of gases.

Available Background Gases

Air • N₂ • Ar • H₂ • O₂ • He • Kr • Xe • others

Select Specifications

Detection	Range	LDL
H ₂ O (dew point)	-90°C to +95°C	-90°C

Features and Benefits

- Wide dew point/RH Range
- Secondary PRT
- Temperature controlled sample path and measuring head
- Integrated refrigerant cooling
- Internal pressure measurement

Applications

- Calibrations/Transfer Standard
- H₂ Fuel Cell R&D
- Chamber control/validation

Communication Interfaces

RS-232 Software interface
Analog outputs

Market



Options & Accessories

- Pressure upgrade to 2 MPa
- Internal sample pump
- SCS Accredited ISO 17025 calibration
- Measuring head mount endoscope
- 500 hPa vacuum measurement capability

473 Dew Point Hygrometer

The 473 Dew Point Hygrometer measures the dew point and relative humidity of gases.

Available Background Gases

Air • N₂ • Ar • O₂ • H₂ • He • Kr • Xe • others

Select Specifications

Detection	Range	LDL
H ₂ O (dew point)	-30°C to +99°C	-30°C

Features and Benefits

- Wide dew point/RH Range
- Cable-Mounted, Remote Measuring Head
- Integrated Measuring Head Flow Module
- High Temperature Environment Measurements

Applications

- Calibrations/Transfer Standard
- Chamber control/validation
- Fuel Cell Test

Communication Interfaces

RS-232 Software interface
Analog outputs

Market



Options & Accessories

- 12 Channel PRT T12 Interface
- Internal Barometric Pressure Sensor
- Two, User-Programmable Analog Outputs
- Upgrade to SCS Accredited ISO 17025 Calibration



Ultra-High Purity Gas / P-Gas



Industrial Gas / G-Gas & Hydrogen



Specialty Gas



Airborne Molecular Contaminants (AMC)



Vacuum & Deposition Chambers



Life Safety



Environmental CEM & GHG



Water Analysis