

Model CMH-RPC Chilled Mirror Hygrometer



Chilled Mirror

-90°C to +20°C (-130°F to +68°F)

Model CMH-RPC is designed to measure moisture in gas as low as -90°C (-130°F) dewpoint (T_d). It comprises a three stage peltier cooled mirror hygrometer and integral refrigeration unit.

Model CMH-RPC can display concentration at atmospheric pressure or compensate for pressure variations with input from a pressure transducer.

- Primary measurement technique, ideal for laboratory, scientific, research applications and many more.
- Can be configured to include pressure or temperature measurements.



Measuring instrument
conforms with
EN 61326

Accuracy to $\pm 0.2^\circ\text{C}$ dewpoint - Bench or Counter Top Standing - Front panel access to all main components including mirror cleaning - Fast response - Stable - Reliable - Easy set up.

Features and Technical Specification

Sensor.

- Three Stage Peltier with additional refrigeration.

Manual Balance Control (MBC).

- Automatically corrects for most mirror contaminants.
- Automatically re-balances the optics at switch on.

Programmable Automatic Balance Cycle (PABC)

- Programmable interval of balance control for greatest convenience.
- Increases the length of unattended operation.

8 Line LCD Graphic data display with backlight.

Measurements in $^\circ\text{C}$ or $^\circ\text{F}$ dewpoint.

%RH, AT, ppm(v) and pressure also available.

Scrolling menu via front panel.

Dual alarm capability

- User programmable.
- Can be set for latching or auto-reset mode.

Serial output

- RS232 communication with terminal, printer, or computer.
- Remote programming.
- Data output such as dew point and alarm status.

Analogue output

0-5 VDC, 4-20 mA, 0-10 VDC, or 0-20mA.

- User scalable to drive peripheral devices.
- Available simultaneously, one output per measurement parameter.
- Scalable throughout the entire operating range of psychometric variables.
- Programme via front panel.

Pressure transducer input for psychometric variable (Optional Extra).

Temperature sensor for RH calculation (Optional Extra).

Power:

Universal 110-230 VAC, 50/60Hz.

Sample Pressure:

0 to 5 bar (0 to 75 psia).

Sample Flow Rate:

0.25 to 2.4 litres/minute (0.5/5.0 SCFH).

Accuracy: $\pm 0.2^\circ\text{C}$ dewpoint.

Range:

-90°C dewpoint to +20°C dewpoint.

Certificate of Calibration:

Traceable to National/International Humidity Standards.

Dimensions: 600 x 520 x 435mm.

Packed Dimensions: 740 x 680 x 590mm.

Weight: 47 Kg.

Packed Weight: 70 Kg.

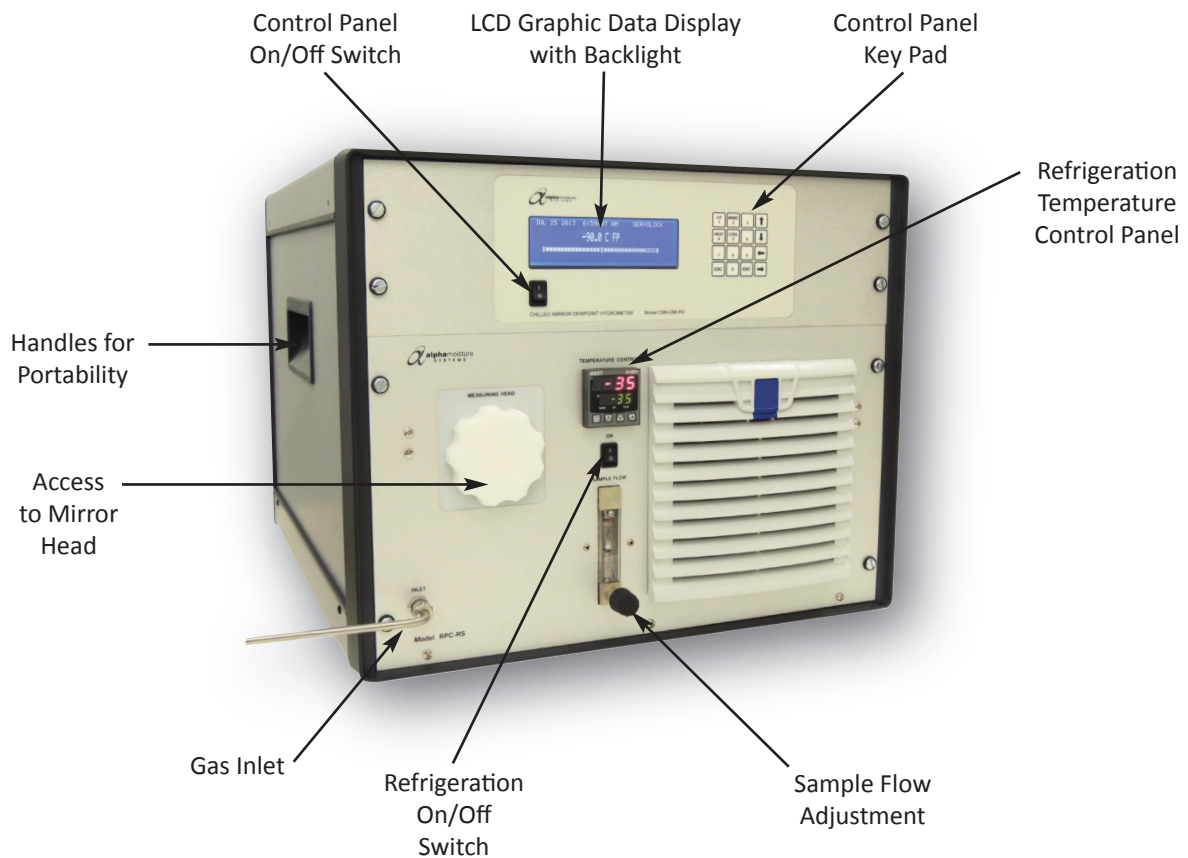
How to Order

Please call us to discuss with our experienced Technical Sales Engineers your exact requirements.

Note: Can be configured to include pressure or temperature measurements.

Please Call +44 (0) 1274 733 100 or Email: info@amsystems.co.uk to discuss your needs.

Model CMH-RPC in more detail



See our websites www.amsystems.co.uk and www.dew-point.com for more Dewpoint Measurement Solutions.

Product specification may be subject to change, without prior notice, as part of our ongoing product development programme.

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Institute of Measurement and Control
Companion Company

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