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.

Accuracy to ± 0.2°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 °C or °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:
110 or 230 VAC, 50/60Hz.(Specified at Order)
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: +/-0.2°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.

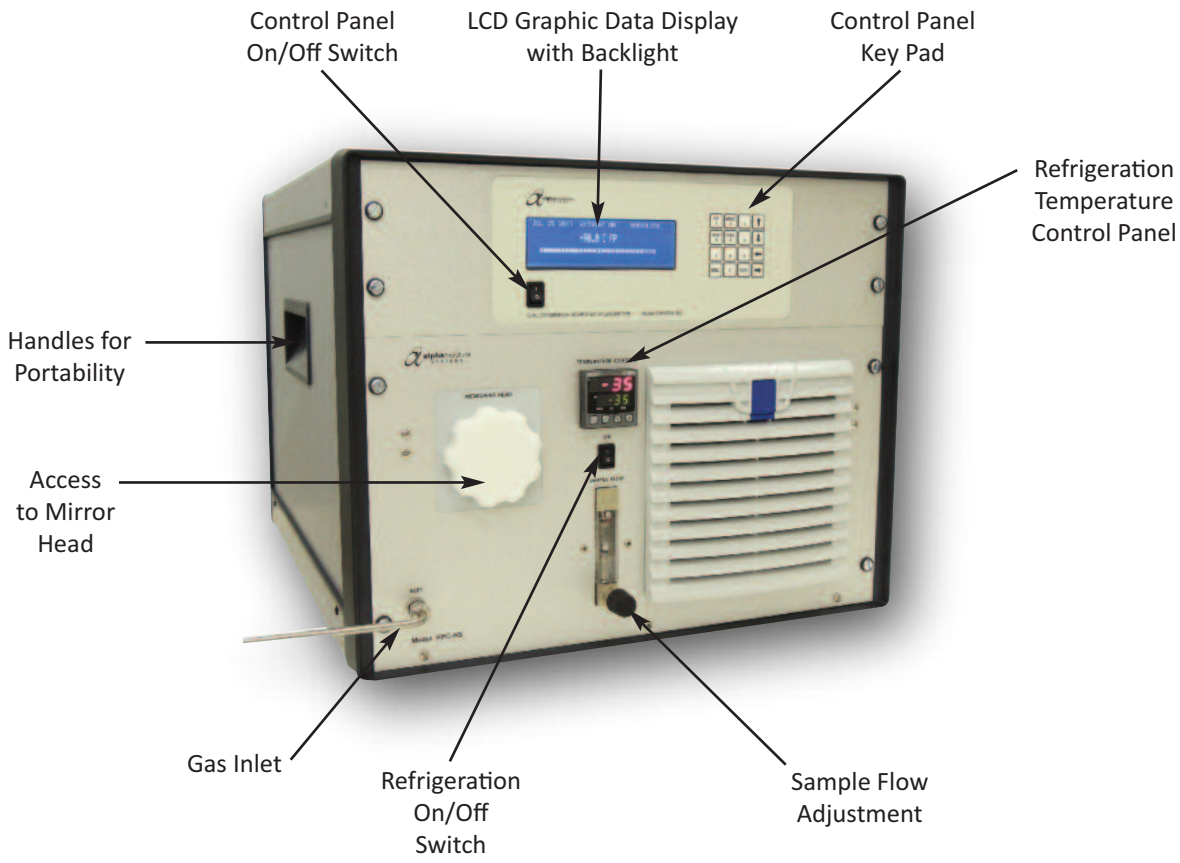
How to Order

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.

CERTIFICATE No. FM35600
BS EN ISO 9001:2008

Alpha Moisture Systems Limited.
Registered Office: Alpha House, 96 City Road, Bradford, West Yorkshire, BD8 8ES, UK.

Tel +44 (0) 1274 733100
Fax +44 (0) 1274 733200
Email info@amsystems.co.uk
Website www.amsystems.co.uk

Registered in England and Wales No. 3902302 - VAT Registration No. GB 607 2075 63 - WEEE Producer Registration No. WEEE/EA0067TX