

# 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  $\pm 0.2^\circ\text{C}$  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:

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

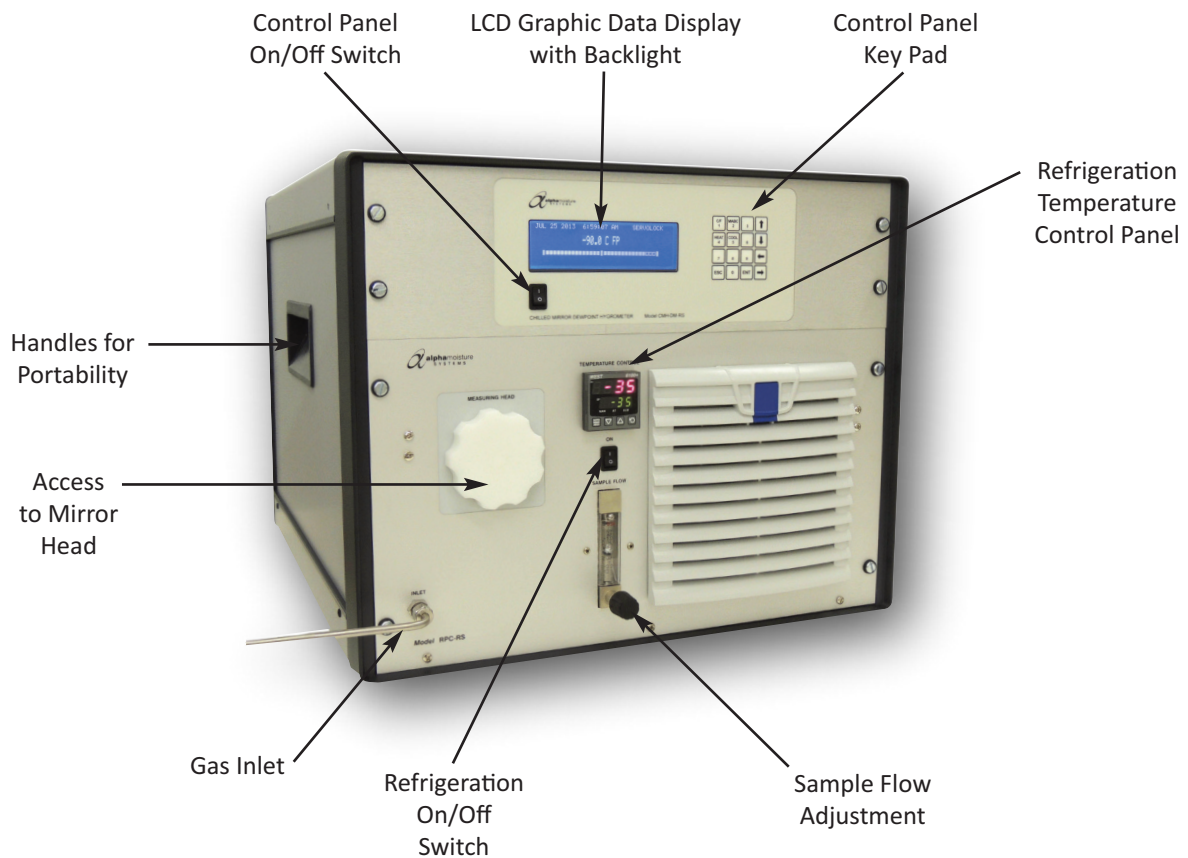
## How to Order

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](mailto:info@amsystems.co.uk) to discuss your needs.

## Model CMH-RPC in more detail



See our websites [www.amsystems.co.uk](http://www.amsystems.co.uk) and [www.dew-point.com](http://www.dew-point.com) for more Dewpoint Measurement Solutions.

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Product specification may be subject to change.