

Model CMH-P

Portable Dewpoint Monitor



Finally, a portable Dew Point hygrometer that integrates the accuracy and reliability of chilled mirror technology, with the battery life and ruggedness required for field use.

Introducing the Model CMH-P portable chilled mirror hygrometer. This device incorporates all of the standard chilled mirror features that you've become accustomed to, such as drift-free NIST/NPL traceable accuracy, low maintenance, high durability and ease of use, in a system that is ideally suited for the demands of field use. Whether you use the Model CMH-P as a field transfer standard, or as a spot check instrument, you'll find this system trouble-free to operate.

The Model CMH-P is a self contained system; not only is there no field assembly required, there's no need to carry around a myriad of individual components such as control boxes, sensors, cables, pumps, and power cords. Simply attach the sample line, adjust the flow (with the integral flow meter) and turn on the power. Within minutes you'll be collecting field dew point data with the same chilled mirror accuracy of a laboratory standard hygrometer. And with a nominal battery life of 12 hours, you will be able to collect data for the entire shift, or spot check your processes for several days.

If you are looking for accurate, flexible, easy to use portable chilled mirror dew point measurement. Or, if you are tired of carrying around additional equipment, to make your process dew point monitor portable, contact Alpha Moisture Systems.

A Generation of Advanced Optical Chilled Mirror Sensors

- Primary Measurement technique
- NIST/NPL Traceable
- Rechargeable Batteries
- Easily transportable in hard protective case
- Wide measurement range (-75°C to +75°C)
- Microprocessor controlled
- Self balancing

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Specifications

Model CMH-P - Portable Dewpoint Monitor

Measurement

Range(@ 25°C ambient):

• Dew/Frost Point

Single-Stage (S1): -23 to 50°C (-10 to 122°F)

Two-Stage (S2): -40 to 50°C (-40 to 122°F)

Three-Stage (S3): -75 to 50°C (-103 to 122°F)

S3 sensors are not battery powered

Accuracy:

- Dew/Frost Point : +/- 0.2°C (0.4°F)

Functionality

Power/Charger: 115-230 VAC, 50-600Hz

Operating Temperature: 0 to 50°C (32 to 122°F)

Sample Connection: 1/4" Compression Fitting

Sample Flow Rate: 0.5 - 5 SCFH; Integral Flow Meter

Sample Pressure: 0 - 150 p.s.i.g (higher pressures available - consult factory)

Outputs:

- Analogue: 4 to 20mA or 0-5VDC, -50 to 50°C or -75 to 75°C
- Compliance: 9.0VDC, 450 ohms

Display: Red LED, 0.5" tall; 8 digit alphanumeric

Alarm:

- Visual: Flashing "ALARM" message
- Relay: 1 Form C, NON-latching 10A @240 VAC, 8A @24 VDC, 1/2 HP @ 240 VAC

Physical

• Dimensions: 375mm H ; 457mm W ; 178mm D (14.75" x 18" x 7")

• Weight: 11Kg (24lbs)

• Enclosure: Plastic carrying case

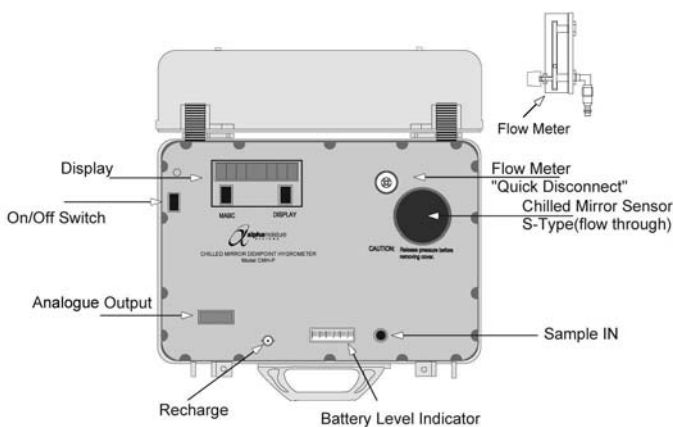
Standard Features

- Programmable Automatic Balance Control (ABC)
- 8-digit Alphanumeric Display
- User Programmable Alarm
- Internal Flow Meter and Valve (S-type only)
- Visual Alarms
- 4 - 20 mA (or 0-5VDC), Analogue Output
- Microprocessor Controlled
- 115/230 VAC Battery Charger (S1,S2 and D models only)

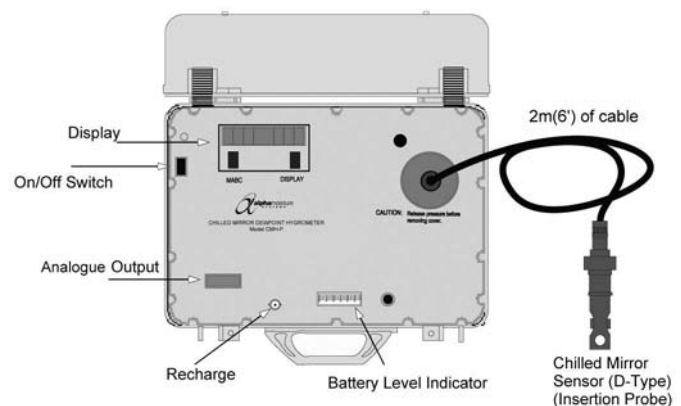
Optional Features

- Temperature Probe (PRT) w/ %RH
- Live pressure w/ PPMv (S-type sensor only)
- D-Type sensors (probe style) available
- RS232
- Internal Rotary Vane Vacuum Pump

S-Type Sensor



D-Type Sensor



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