

Portable Dew Point Monitor

**Highly Accurate,
Rugged Enclosure!**

RHB-1500 Series



Standard

- ✓ Primary Field Measurement Technique
- ✓ Accuracy: $\pm 0.2^{\circ}\text{C}$
- ✓ NIST-Traceable
- ✓ Rechargeable Batteries
- ✓ Easily Transportable in Hard Protective Case
- ✓ Wide Measurement Range: -60 to 75°C (-76 to 167°F)
- ✓ Microprocessor Controlled
- ✓ Self-Balancing

RHB-1500-C1S2
shown smaller
than actual size.



This portable dew point hygrometer integrates the accuracy and reliability of the OMEGA® chilled mirror with the battery life and ruggedness required for field use.

The RHB-1500-C portable chilled-mirror hygrometer has all the standard features, such as drift-free NIST-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 RHB-1500-C as a field transfer standard or to spot-check your process air dryness or dew point, you'll find this system provides trouble-free operation.

The RHB-1500-C is a self-contained system. Not only is field assembly not required, but also there is not a 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 flowmeter),

and turn on the power. Within minutes you'll be collecting field dew point data with the same chilled-mirror accuracy of a lab-standard hygrometer. And with a nominal battery life of 12 hours, the RHB-1500-C lets you collect for the entire shift or spot-check your processes for several days.

RHB-1500-C1S2
shown smaller than
actual size.



Specifications

Measurement

Range (Dew/Frost Point):

2-Stage (S2):

-40 to 50°C (-40 to 122°F)

3-Stage (S3):

-60 to 50°C (-76 to 122°F)

Accuracy (Dew/Frost Point):

±0.25°C (0.45°F)

Functionality

Power/Charger: 115 to 230 Vac,
50 to 600 Hz

Operating Temperature:

0 to 50°C (32 to 122°F)

Sample Connection:

¼" compression fitting

Sample Flow Rate: 0.5 to 5 SCFH;
integral flowmeter

Sample Pressure: 0 to 150 psig
(higher pressures available; consult
Engineering Department)*

Output:

Analog: 4 to 20 mA (0 to 5 Vdc), -50 to 50°C
(-58 to 122°F) or -60 to 75°C (-76 to 167°F)

Compliance: 9.0 Vdc, 450 Ω

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

Alarm:

Visual: Flashing "ALARM" message

Relay: 1 form "C", non-latching; 10 A @ 240 Vac,
8 A @ 24 Vdc, ½HP @ 240 Vac

Physical

Dimensions: 37.5 H x 46 W x 18 cm D (14.75 x 18 x 7")

Weight: 11 kg (24 lb)

Enclosure: Plastic carrying case

* Unit requires a pump for non-pressurized systems.

Standard Features

- ✓ Programmable Automatic Balance Control (ABC)
- ✓ 8-Digit Alphanumeric Display
- ✓ User-Programmable Alarm
- ✓ Visual Alarms
- ✓ 4 to 20 mA (or 0 to 5 Vdc) Analog Output
- ✓ Microprocessor-Controlled
- ✓ 115/230 Vac Battery Charger

To Order

Model No.	Description
RHB-1500-C1S2	Battery powered, 2-stage chill mirror
RHB-1500-C1S2-RHB-ATP	Battery powered, 2-stage chill mirror and temperature probe with 3 m (10') cable
RHB-1500-C1DS2R	Battery powered, 2-stage remote chill mirror
RHB-1500-C1DS2R-RHB-ATP	Battery powered, 2-stage remote chill mirror and temperature probe with 3 m (10') cable
RHB-1500-C1S2L	Line powered, 2-stage chill mirror
RHB-1500-C1S2L-RHB-ATP	Line powered, 2-stage chill mirror and temperature probe with 3 m (10') cable
RHB-1500-C2-3	Line powered, 3-stage chill mirror
RHB-1500-C2-3-RHB-ATP	Line powered, 3-stage chill mirror and temperature probe with 3 m (10') cable
RHB-C2-DS2	Line powered, 2-stage remote chill mirror
RHB-C2-DS2-RHB-ATP	Line powered, 2-stage remote chill mirror and temperature probe with 3 m (10') cable

Comes complete with operator's manual, SCFH air flow controller and NIST certificate.

Ordering Example: RHB-1500-C1S2, battery-powered hygrometer with 2-stage chill mirror.