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.

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.
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: ½” 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, ½ HP @ 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.

To Order

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RHB-1500-C1S2</td>
<td>Battery powered, 2-stage chill mirror</td>
</tr>
<tr>
<td>RHB-1500-C1S2-RHB-ATP</td>
<td>Battery powered, 2-stage chill mirror and temperature probe with 3 m (10’) cable</td>
</tr>
<tr>
<td>RHB-1500-C1DS2R</td>
<td>Battery powered, 2-stage remote chill mirror</td>
</tr>
<tr>
<td>RHB-1500-C1DS2R-RHB-ATP</td>
<td>Battery powered, 2-stage remote chill mirror and temperature probe with 3 m (10’) cable</td>
</tr>
<tr>
<td>RHB-1500-C1S2L</td>
<td>Line powered, 2-stage chill mirror</td>
</tr>
<tr>
<td>RHB-1500-C1S2L-RHB-ATP</td>
<td>Line powered, 2-stage chill mirror and temperature probe with 3 m (10’) cable</td>
</tr>
<tr>
<td>RHB-1500-C2-3</td>
<td>Line powered, 3-stage chill mirror</td>
</tr>
<tr>
<td>RHB-1500-C2-3-RHB-ATP</td>
<td>Line powered, 3-stage chill mirror and temperature probe with 3 m (10’) cable</td>
</tr>
<tr>
<td>RHB-C2-DS2</td>
<td>Line powered, 2-stage remote chill mirror</td>
</tr>
<tr>
<td>RHB-C2-DS2-RHB-ATP</td>
<td>Line powered, 2-stage remote chill mirror and temperature probe with 3 m (10’) cable</td>
</tr>
</tbody>
</table>

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.