The Series RHP Temperature and Humidity Transmitter combine the voltage or current humidity transmitter output with a passive temperature thermistor or RTD output. The polymer capacitance humidity sensor is not affected by condensation, fog, high humidity, or contaminants. The humidity sensors are available with 2%, 3% or 5% accuracies. Duct mounted transmitters are available with an optional two-line alpha numeric LCD display. The Series RHP is available with interchangeable filter options as well as replaceable sensors.

**SPECIFICATIONS**

**Relative Humidity Range:** 0 to 100% RH.
**Temperature Range:** -40 to 140°F (-40 to 60°C).
**Accuracy, RH:** Model RHP-2XXX ±2% 10-90% RH @ 25°C; Model RHP-3XXX ±3% 20-80% RH @ 25°C; Model RHP-5XXX ±5% 20-80% RH @ 25°C.
**Accuracy, Thermistor Temp Sensor:** ±0.2°C @ 25°C (±0.36°F @ 77°F).
**Accuracy, RTD Temp Sensor:** DIN Class B; ±0.3°C @ 0°C (±0.54°F @ 32°F).
**Hysteresis:** ±1%.
**Repeatability:** ±0.1% typical.
**Temperature Limits:** -40 to 140°F (-40 to 60°C).
**Storage Temperature:** -40 to 176°F (-40 to 80°C).
**Compensated Temperature Range:** -4 to 140°F (-20 to 60°C).
**4 to 20 mA Loop Powered Models:** Power requirements: 10 to 35 VDC; Output signal: 4 to 20 mA.
**0-5/10V Output Models:** Power requirements: 15 to 35 VDC or 15 to 29 VAC; Output signal: 0 to 10V @ 5 mA max.
**Response Time:** 15 seconds.
**Electrical Connections:** Removable screw terminal block.
**Conduit Connection:** Duct mount: 1/2˝ NPS; OSA: 1/2˝ (22.3 mm).
**Drift:** <1% RH/year.
**RH Sensor:** Capacitance polymer.
**Temperature Sensor:** Curves A, B, C: Thermistor; Curves D, E: Platinum RTD DIN 385.
**Enclosure:** Duct mount: PBT; OSA: Polycarbonate.
**Enclosure Rating:** NEMA 4X (IP66) for OSA mount only.
**Display:** Duct mount only, optional 2-line alpha numeric, 8 characters/line.
**Display Resolution:** RH: 0.1% 0.1°F (0.1°C).
**Weight:** Duct mount: .616 lb (.3 kg); OSA: 1 lb (.45 kg).
**Agency Approvals:** CE.

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**Example Series RHP**

<table>
<thead>
<tr>
<th>Example</th>
<th>RH Output</th>
<th>Temperature Sensor</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>1</td>
<td>None</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>4 to 20 mA</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>0 to 10 VDC</td>
<td>+5.00</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>0-5V</td>
<td>+5.00</td>
</tr>
<tr>
<td>A</td>
<td>3</td>
<td>10K @ 25°C Thermistor Type III</td>
<td>+5.00</td>
</tr>
<tr>
<td>B</td>
<td>3</td>
<td>10K @ 25°C Thermistor Type II</td>
<td>+5.00</td>
</tr>
<tr>
<td>C</td>
<td>3</td>
<td>3K @ 25°C Thermistor</td>
<td>+6.00</td>
</tr>
<tr>
<td>D</td>
<td>3</td>
<td>100Ω RTD DIN 385</td>
<td>+6.00</td>
</tr>
<tr>
<td>E</td>
<td>3</td>
<td>1KΩ RTD DIN 385</td>
<td>+6.00</td>
</tr>
<tr>
<td>F</td>
<td>3</td>
<td>20KΩ @ 25°C Thermistor</td>
<td>+5.00</td>
</tr>
</tbody>
</table>

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*Model RHRS Radiation Shield is required for sintered filter OSA models.
© Items are net priced and are not subject to any discount.