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 10 V @ 5 mA max.

**Response Time:** 15 seconds.

**Electrical Connections:** Removable screw terminal block.

**Conduit Connection:** Duct mount: 1/2˝ NPT; 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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<table>
<thead>
<tr>
<th>Example</th>
<th>Series</th>
<th>RH</th>
<th>D</th>
<th>1</th>
<th>A</th>
<th>LCD</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RHP-2D1A-LCD</td>
<td>RH/Passive Temperature Sensor Transmitter</td>
<td>RH/Passive Temperature Sensor Transmitter</td>
<td>LCD Display</td>
<td>NIST Traceable Calibration Certificate</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Model RHRS Radiation Shield is required for sintered filter OSA models.*