Humidity/Temperature Transmitters

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.

**Example**

<table>
<thead>
<tr>
<th>RHP</th>
<th>RH/Passive Temperature Sensor Transmitter</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>RHP</td>
<td>Duct Mount w/Membrane Filter</td>
<td>90.00</td>
</tr>
<tr>
<td>RHP</td>
<td>Duct Mount w/Sintered Filter</td>
<td>95.00</td>
</tr>
<tr>
<td>RHP</td>
<td>OSA (Outside Air)</td>
<td>95.00</td>
</tr>
<tr>
<td>RHP</td>
<td>OSA w/Sintered Filter*</td>
<td>100.00</td>
</tr>
<tr>
<td>RHP</td>
<td>Radiation Shield</td>
<td>150.00</td>
</tr>
</tbody>
</table>

**Temperature Sensor**

<table>
<thead>
<tr>
<th>Temperature Sensor</th>
<th>RH Output</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 to 20mA</td>
<td>LCD Display</td>
<td>+50.00</td>
</tr>
<tr>
<td>0 to 10 VDC</td>
<td>NIST traceable calibration certificate (Humidity)</td>
<td>121.00</td>
</tr>
</tbody>
</table>

**Specifications**

- **Relative Humidity Range**: 0 to 100% RH.
- **Temperature Range**: -40 to 140°F (-40 to 60°C).
- **Accuracy, RH**: RHP-2XXX ±2% 10-90% RH @ 25°C; RHP-3XXX ±3% 20-80% RH @ 25°C; RHP-5XXX ±5% 20-80% RH @ 25°C.
- **Accuracy, Thermistor Temp Sensor**: ±0.2°C @ 25°C (±0.3°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).
- **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**: Types 1, 2, 3; Solid state band gap; 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 two-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.

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