### SPECIFICATIONS

**Service:** Dry clean air.

**Relative Humidity Range:** 0 to 100% RH.

**Temperature Range:** -40 to 140°F (-40 to 60°C).

**Accuracy:** ±2% @ 10-90%.

**Temperature Limits:** -40 to 140°F (-20 to 60°C).

**Storage Temperature:** -40 to 176°F (-40 to 80°C).

**Compensated Temperature Range:** -4 to 140°F (-20 to 60°C).

**Power Requirements:** 10 to 35 VDC.

**Output Signal:** 4 to 20 mA loop powered or 0 to 10 VDC.

**Response Time:** Less than 15 seconds.

**Electrical Connections:** Terminal block.

**Conduit Connection:** 1/2˝ NPT.

**Drift:** Less than 1%/year.

**RH Sensor:** Capacitance polymer

**Drift:** Less than 1%/year.

**Housing Material:** Polycarbonate, aluminum enclosure.

**Enclosure Rating:** NEMA 4X (IP66).

**Agency Approvals:** CE.

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### Model RH-R Humidity/Temperature Transmitter

- **Remote Mount, Field Replaceable Sensor Filter, Up to 16 Cable**

### Series RHRS Radiation Shield

- **6 or 10 Plate Design, Integral Pipe Mounting Kit**

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**The Series RHRS Radiation Shield** protects outside air humidity transmitters from rain and radiated heat. With the curved shape and color of the plates, air flow is able to move across the sensor to keep radiated temperatures from rooftops and surrounding surfaces from affecting humidity readings. For ease of installation, the Series RHRS has integral pipe mounting hardware which can be removed for surface mounting applications. The brackets on the Series RHRS are specifically designed to be installed on the Dwyer Series RHP outside air humidity transmitters with sintered filters. The pipe mounting bracket fits 3/4˝ to 1-1/2˝ iron pipe.

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**Table: RH-R Models**

<table>
<thead>
<tr>
<th>Model</th>
<th>Cable Length</th>
<th>Description</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>RHU-R004 4’</td>
<td>Humidity</td>
<td>Current</td>
<td>RHU-R104 4’</td>
</tr>
<tr>
<td>RHU-R008 8’</td>
<td>Humidity</td>
<td>Current</td>
<td>RHU-R108 8’</td>
</tr>
<tr>
<td>RHU-R012 12’</td>
<td>Humidity</td>
<td>Current</td>
<td>RHU-R112 12’</td>
</tr>
<tr>
<td>RHU-R016 16’</td>
<td>Humidity</td>
<td>Current</td>
<td>RHU-R116 16’</td>
</tr>
<tr>
<td>RHT-R004 4’</td>
<td>Humidity/Temperature</td>
<td>Current</td>
<td>RHT-R104 4’</td>
</tr>
<tr>
<td>RHT-R008 8’</td>
<td>Humidity/Temperature</td>
<td>Current</td>
<td>RHT-R108 8’</td>
</tr>
<tr>
<td>RHT-R012 12’</td>
<td>Humidity/Temperature</td>
<td>Current</td>
<td>RHT-R112 12’</td>
</tr>
<tr>
<td>RHT-R016 16’</td>
<td>Humidity/Temperature</td>
<td>Current</td>
<td>RHT-R116 16’</td>
</tr>
</tbody>
</table>

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**Diagram:**

- Picture shown with Series RHP Humidity Transmitter (sold separately).

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**Diagram:**

- Model RHRS, 6 Plate Radiation Shield
- Model RHRS-10, 10 Plate Radiation Shield

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**Diagram:**

- The Series RH-R Humidity Transmitter is the ideal transmitter for those applications where space is limited. The compact sensor is protected by a removable filter. It can be mounted up to 16 feet away from the weatherproof base. The Series RH-R is ideal for environmental chambers, rubber bladder burst detection and air handler applications.