**SERIES RH-R**

**HUMIDITY/TEMPERATURE TRANSmitter**

Remote Mount, Field Replaceable Sensor Filter, Up to 16’ Cable

The Series RH-R Humidity and Temperature 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.

**FEATURES/BENEFITS**

- Cable lengths from 4 to 16’
- Remote housing allows for flexibility sensing where space may be limited

**APPLICATIONS**

- Process system monitoring
- Environmental chambers
- Air economizers

**MODEL CHART**

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

**SERIES 657**

**RELATIVE HUMIDITY/TEMPERATURE TRANSMITTERS**

Dual Channel Design for Simultaneous 4-20 mA Output Signals

The Series 657 Relative Humidity/Temperature Transmitters provide two 4-20 mA channels to produce separate output signals for both relative humidity and temperature. These devices deliver ±2% accuracy for humidity and ±1°F for temperature measurements. Stainless steel probe can be easily mounted to most ductwork using either of the two optional kits below.

**FEATURES/BENEFITS**

- Polymer film humidity and thin film RTD temperature sensors offer highly reliable and stable measurements.
- Remote mount housing offers installation flexibility (657-1)
- Rugged die-cast aluminum housing is great for industrial applications (657C-1)

**APPLICATIONS**

- Cleanroom monitoring
- HVAC/building control monitoring

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>657</td>
<td>RH/temperature transmitter</td>
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<tr>
<td>657C</td>
<td>RH/temperature transmitter - conduit housing</td>
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</table>

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>A-158</td>
<td>Split flange</td>
</tr>
<tr>
<td>A-159</td>
<td>Mounting gland</td>
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</table>

**OPTIONS**

<table>
<thead>
<tr>
<th>To order add suffix</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-NIST</td>
<td>NIST traceable humidity calibration certificate</td>
</tr>
</tbody>
</table>

**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 (-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). |

**Enclosure Rating:**

- NEMA 4X (IP66)

**Housing Material:**

- Polycarbonate, aluminum enclosure

**Service:**

- Dry clean air

**Range:**

- Relative humidity: 0 to 100%; Temperature: 32 to 212°F (0 to 100°C)

**Accuracy:**

- Relative humidity: ±2% (10 to 90% RH); ±3% (0 to 10% and 90 to 100% RH); Temperature ±1°F (0.5°C)

**Temperature Limits:**

- 32 to 140°F (0 to 60°C)

**Pressure Limits:**

- 1 psi (0.07 bar)

**Compensated Temperature Range:**

- 32 to 140°F (0 to 60°C)

**Power Requirements:**

- 10-35 VDC

**Output Signal:**

- 2 channels each 4-20 mA. Loop powered on the RH channel

**Electrical Connections:**

- 4 screw type terminals

**Mounting Orientation:**

- Mount in any position

**Probe:**

- 657-1: Stainless steel 5/16” x 10” (0.8 x 25.4 cm); 657C-1: 5/16” x 9-1/10” (0.8 x 23.1 cm)

**Weight:**

- 657-1: 5.5 oz (156 g); 657C-1: 10 oz (284 g)