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.

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

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 178°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
- Response Time: Less than 15 seconds
- Electrical Connections: Terminal block
- Conduit Connection: 1/2 NPT
- Process Connection: 1/2 NPSM
- Drift: Less than 1%/year
- RH Sensor: Capacitance polymer
- Cable Length: Up to 16'
- Housing Material: Polycarbonate, aluminum enclosure
- Enclosure Rating: NEMA 4X (IP66)
- Agency Approvals: CE

MODEL CHART

<table>
<thead>
<tr>
<th>Model</th>
<th>Cable Length</th>
<th>Description</th>
<th>Output 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>
</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>
</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>
</tr>
<tr>
<td>RHU-R016</td>
<td>16'</td>
<td>Humidity</td>
<td>Current</td>
<td>RHT-R016</td>
<td>16</td>
<td>Humidity/temperature</td>
</tr>
</tbody>
</table>

SERIES 657

RELATIVE HUMIDITY/TEMPERATURE TRANSMITTER
Dual Channel Design for Simultaneous 4 to 20 mA Output Signals

The SERIES 657 Transmitters provide two 4 to 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

SPECIFICATIONS
- 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 (.07 bar)
- Compensated Temperature Range: 32 to 140°F (0 to 60°C)
- Power Requirements: 10 to 35 VDC
- Output Signal: 2 channels each 4 to 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 5-1/16” x 10” (0.8 x 25.4 cm); 657C-1: 5-1/16” x 9-1/10” (0.8 x 23.1 cm)
- Weight: 657-1: 5.5 oz (156 g); 657C-1: 10 oz (284 g)

OPTION
To order add suffix: Description
- NIST: NIST traceable humidity calibration certificate

Example: 657C-1-NIST