



# **Humidity Sensing**

- □ Room Sensors
- □ Duct Sensors
- □ Outside Air Sensors
- □ Condensation Detectors
- □ Dual Humidity & Temperature Sensors

Humidity sensing devices help maintain a comfortable environment for building occupants and safe conditions for equipment where moisture can cause damage. A variety of humidity and combination humidity and temperature sensors are available in different types of enclosures for installation in rooms, ducts and outdoors. Humidity sensing accuracy can be chosen based on the needs of the application. Sensors for monitoring and detecting condensation are also available.



# HS-R Series Room Humidity Sensors

The HS-R Series are room humidity transmitters that use a highly accurate and field-proven RH sensor in a sleek, elegant, and low profile enclosure to monitor room relative humidity levels. Additional options include an LCD display. The RH output can be field selected as a linear 4-20 mA, 0-5 or 0-10 Vdc signal. This product offers a cost effective solution for customers who wish to have ease of installation to their Building Automation System.

#### **Specifications**

| Operating temperature | 0°C to 50°C (32°F to 122°F)                                   |
|-----------------------|---|
| Storage temperature   | 0°C to 50°C (32°F to 122°F)                                   |
| Sensor Type           | Thermoset polymer based capacitive                            |
| Sensor Accuracy       | ±2, 3 or 5% RH from 5 to 95% RH                               |
| Sensor Range          | 0 to 100% RH non-condensing                                   |
| Stability             | ±1.2% RH typical @ 50% RH in 5 years                          |
| Output Signal         | 4-20 mA current loop , 0-5 VDC, or 0-10 VDC Jumper Selectable |
| Hysteresis            | ± 3% RH   |
| Response Time         | 15 Seconds Typical  |
| Material              | White ABS   |

#### Accessories

| HS-FCAL | Factory calibration certificate |
|---------|---------------------------------|
| HS-NIST | NIST calibration certificate    |

Note: Calibration certificates must be purchased at the time of purchasing the relative sensors.



#### **Applications**

- Measure relative humidity in HVAC Systems
- · Can be implemented in hospitals
- · Appropriate for use in clean rooms
- Retrofits, where Allure communicating sensors cannot be installed on existing controllers

#### Features & Benefits

- Economical
- Ease of installation
- Highly stable RH sensor element
- · Proven long stability and performance
- · Accuracy available at 2%, 3%, 5%

### Build Your Room Humidity Sensor

|                           |  | HS- | R | 2 | PF | Х | Х |
|---------------------------|--|-----|---|---|----|---|---|
|                           |  |     |   |   |    |   |   |
| Mounting Style            | R = Room   |     |   |   |    |   |   |
| Humidity Sensing Accuracy | 2 = 2%   |     |   |   |    |   |   |
|                           | 3 = 3%   |     |   |   |    |   |   |
|                           | 5 = 5%   |     |   |   |    |   |   |
| Enclosure                 | PF = Plastic flat enclosure                                |     |   |   |    |   |   |
| Temperature Sensor Option | T = Temperature sensor ( $10k\Omega$ , Type II thermistor) |     |   |   |    |   |   |
| Display Option            | D = Display<br>(Humidity only is displayed)                |     |   |   |    |   |   |







· Used for measuring relative humidity of rooms

#### Features & Benefits

- Economica
- · Proven long term stability and performance
- · Voltage and current output signals available
- · Protected sensor

# HS-RXXXMP Series Wall Plate Humidity Sensors

The HS-RXXXMP Series are stainless steel wall plate relative humidity transmitters. They use a field-proven capacitive type humidity sensor and microprocessor temperature compensation for reliable, accurate measurement of indoor humidity. The wall plate sensor is perfect for locations requiring periodic wipe down as it features a 304 stainless steel plate with a neoprene gasket. The sensor is protected by a 100 micron sintered stainless steel filter. The plate sensor is available with either 4-20 mA or 0-5 Vdc or 0-10 Vdc output signal types and the transmitter is located on the back of the plate for ease of installation.

#### **Specifications**

| Operating Temperature | 0°C to 70°C, 32°F to 158°F            |
|-----------------------|---------------------------------------|
| Storage Temperature   | 0°C to 70°C, 32°F to 158°F            |
| Sensor Type           | Thermoset polymer based capacitive    |
| Accuracy at 25°C      | 3 or 5% RH from 5 to 95% RH           |
| Measurement Range     | 0 to 100% RH                          |
| Hysteresis            | ±3% RH Maximum                        |
| Response Time         | 15 Seconds Typical                    |
| Stability             | ±1.2% RH Typical                      |
| Sensor Protection     | 100 μm (micron) Sintered Filter       |
| Output Signal         | 4-20 mA Current Loop, 0-5 or 0-10 Vdc |

#### Accessories

| HS-FCAL | Factory calibration certificate |
|---------|---------------------------------|
| HS-NIST | NIST calibration certificate    |

Note: Calibration certificates must be purchased at the time of purchasing the relative sensors.



## Build Your Room Metal Plate Humidity Sensor

|                           |  | HS- | R | 3 | C04 | MP | Т | Х |
|---------------------------|--|-----|---|---|-----|----|---|---|
|                           |  |     |   |   |     |    |   |   |
| Mounting Style            | R = Room   |     |   |   |     |    |   |   |
| Humidity Sensing Accuracy | 3 = 3%<br>5 = 5%   |     |   |   |     |    |   |   |
| Control Signal Output     | C04 = Current, 4-20mA                                      |     |   |   |     |    |   |   |
|                           | V05 = Voltage, 0-5VDC                                      |     |   |   |     |    |   |   |
|                           | V10 = Voltage, 0-10VDC                                     |     |   |   |     |    |   |   |
| Enclosure                 | MP = Metal plate   |     |   |   |     |    |   |   |
| Temperature Sensor Option | T = Temperature sensor (10k $\Omega$ , Type II thermistor) |     |   |   |     |    |   |   |
| Mounting Screws           | X = Regular mounting screws                                |     |   |   |     |    |   |   |
|                           | S = Tamperproof mounting screws                            |     |   |   |     |    |   |   |



### HS-D\_2X Sensor Series

### Duct Humidity Transmitters, Nema 4X

The HS-D\_2X Series are duct humidity transmitters. They use a highly accurate and reliable Thermoset-Polymerbased capacitance humidity sensor, state-of-the-art digital linearization, and temperature compensated circuitry in order to monitor humidity levels. The sensing element is encapsulated in a 228.60 mm (9") long by 12.7 mm (0.5") diameter 304 S/S probe. A 60 micron HDPE filter protects against contaminants. Excellent long-term stability and quick response time combined with temperature compensation make the HS-D\_2X Transmitter Series the ideal choice for the HVAC market. Models with accuracy of 2%, 3%, or 5% are available.

#### Specifications

| Operating Temperature  | -40°C to 85°C (-40°F to 185°F)   |
|------------------------|--|
| Storage Temperature    | -40°C to 85°C (-40°F to 185°F)   |
| Sensor Type            | Thermoset polymer based capacitive   |
| Sensor Accuracy        | ±2, 3 or 5% RH (5 to 95% RH)   |
| Output Signal          | 4-20mA current loop, 0-5 VDC, or 0-10 VDC  |
| Sensor Range           | 0 to 100% RH   |
| Hysteresis             | ±1.5% RH Maximum   |
| Response Time          | 15 Seconds Typical   |
| Temperature Dependence | ±0.05% RH/ °C  |
| Probe                  | 230 mm (9") probe length x 12.7 mm(1/2") Diameter Stainless Steel with Porous Filter |





#### Accessories

| HS-FCAL | Factory calibration certificate |
|---------|---------------------------------|
| HS-NIST | NIST calibration certificate    |

Note: Calibration certificates must be purchased at the time of purchasing the relative sensors.



#### **Applications**

- HVAC
- · Clean rooms
- · Museums / Archives
- Hospitals and Pharmaceuticals

#### Features & Benefits

- Economical
- Ease of installation
- · Probes made of corrosion-resistant 304 stainless
- · Optional LCD

## **Build Your Duct Humidity Transmitter**

|                              |  | HS- | D | 2 | 2X | Х | Х |
|------------------------------|--|-----|---|---|----|---|---|
|                              |  |     |   |   |    |   |   |
| Mounting Style               | D = Duct Humidity Transmitters                                       |     |   |   |    |   |   |
| Humidity Sensing             | 2 = 2%   |     |   |   |    |   |   |
| Accuracy                     | 3 = 3%   |     |   |   |    |   |   |
|                              | 5 = 5%   |     |   |   |    |   |   |
| Enclosure                    | 2X = Plastic enclosure, Nema 4X                                      |     |   |   |    |   |   |
| Temperature Sensor<br>Option | T = Temperature sensor (10k $\Omega$ , Type II thermistor)           |     |   |   |    |   |   |
| Display Option               | D = Display (available in Fall 2018)<br>(Humidity only is displayed) |     |   |   |    |   |   |





HS-D32XTX



# HS-O\_2X Series Outside Air Humidity Transmitters, Nema 4X



The HS-O\_2X Series are relative humidity transmitters for outside air. They use a highly accurate and reliable Thermoset-Polymer-based capacitance humidity sensor along with state-of-the-art digital linearization and temperature compensated circuitry in order to monitor humidity levels. A 60-micron HDPE filter protects the sensor from contaminants. Excellent long-term stability and quick response time combined with temperature compensation make the HS-O Series the ideal choice for the HVAC market. Models with RH accuracy of 2%, 3%, or 5% are available.

#### **Applications**

- HVAC
- · Clean rooms
- Museums / Archives
- · Hospitals and Pharmaceuticals

#### Features & Benefits

- Economical
- · Ease of installation
- Highly stable humidity sensor
- · Proven long stability and performance
- Field-selectable analog signals

#### **Specifications**

| Operating Temperature  | -40°C to 85°C (-40°F to 185°F)             |
|------------------------|--|
| Storage Temperature    | -40°C to 85°C (-40°F to 185°F)             |
| Sensor Type            | Thermoset polymer based capacitive         |
| Sensor Accuracy        | ±2, 3 or 5% RH from 5 to 95% RH            |
| Sensor Range           | 0 to 100% RH                               |
| Hysteresis             | ±1.5% RH Maximum                           |
| Response Time          | 15 Seconds Typical                         |
| Temperature Dependence | ±0.05% RH/ °C                              |
| Output Signal          | 4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc |
| Material               | Grey ABS; Type: UL94-V0; IP65 (NEMA 4X)    |
| Power Supply           | 18 to 30 Vdc, 15 to 26 Vac                 |



#### Accessories

| HS-FCAL | Factory calibration certificate |  |
|---------|---------------------------------|--|
| HS-NIST | NIST calibration certificate    |  |
| Note:   |                                 |  |

Calibration certificates must be purchased at the time of purchasing the relative sensors.

#### Model Selection

| HS-022XX   | 2% accuracy outside air relative humidity transmitter, 24 Vac/dc and jumper selectable outputs  |
|------------|---|
| * HS-O22XT | $2\%$ -accuracy outside-air relative-humidity transmitter, 24 Vac/dc and jumper-selectable outputs, $10k\Omega,$ type 2, NTC thermistor.  |
| HS-O32XX   | 3%-accuracy outside-air relative-humidity transmitter, 24 Vac/dc and jumper-<br>selectable outputs  |
| * HS-O32XT | $3\%$ -accuracy outside-air relative-humidity transmitter, 24 Vac/dc and jumper-selectable outputs, $10k\Omega,$ type 2, NTC thermistor.  |
| HS-O52XX   | 5%-accuracy outside-air relative-humidity transmitter, 24 Vac/dc and jumper-<br>selectable outputs  |
| HS-O52XT   | 5%-accuracy outside-air relative-humidity transmitter, 24 Vac/dc and jumper-<br>selectable outputs, $10k\Omega$ , type 2, NTC thermistor. |





# HS-R Series Room Humidity and Temperature Transmitters

The HS-R Series temperature transmitter incorporates two sensors in one attractive wall mount enclosure for the most ecient environmental monitoring and control system. It uses a eld-proven RH sensor to monitor relative humidity and a curve-matched thermistor to measure temperature and provides two analog outputs of either 4-20 mA, 0-5Vdc or 0-10 Vdc.



#### **Specifications**

| Operating temperature | 0°C to 50°C (32°F to 122°F)                                   |
|-----------------------|---|
| Storage temperature   | 0°C to 50°C (32°F to 122°F)                                   |
| Sensor Type           | Thermoset polymer based capacitive                            |
| Sensor Accuracy       | ±2, 3 or 5% RH from 5 to 95% RH                               |
| Sensor Range          | 0 to 100% RH non-condensing                                   |
| Stability             | ±1.2% RH typical @ 50% RH in 5 years                          |
| Output Signal         | 4-20 mA current loop , 0-5 VDC, or 0-10 VDC Jumper Selectable |
| Hysteresis            | ± 3% RH   |
| Response Time         | 15 Seconds Typical  |
| Material              | White ABS   |

#### Accessories

| HS-TFCAL | Factory Calibration Certificate |
|----------|---------------------------------|
| HS-TNIST | NIST Calibration Certificate    |
| Note:    |                                 |

Calibration certificates must be purchased at the time of purchasing the relative sensors.

#### **Applications**

- Measure relative humidity in HVAC Systems
- · Can be implemented in hospitals
- · Appropriate for use in clean rooms
- Retrofits, where Allure communicating sensors cannot be installed on existing controllers

#### Features & Benefits

- · Highly stable RH sensor element
- Humidity range: 0-100%
- · Accuracy available 2%, 3%, & 5%
- · Choice of precision temperature sensors
- LCD display available
- · Optional override, setpoint & fan speed control
- · Field selectable outputs



# Build Your Room Humidity and Temperature Transmitter

|                           |   | HS- | R | 2 | CO4 | PF | Х | Х |
|---------------------------|---|-----|---|---|-----|----|---|---|
|                           |   |     |   |   |     |    |   |   |
| Mounting Style            | R = Room  |     |   |   |     |    |   |   |
| Humidity Sensing Accuracy | 2 = 2%  |     |   |   |     |    |   |   |
|                           | 3 = 3%  |     |   |   |     |    |   |   |
|                           | 5 = 5%  |     |   |   |     |    |   |   |
| Control Signal Output     | C04 = Current, 4-20mA<br>VFS = Voltage, 0-5VDC or 0-10VDC (Jumper selectable) |     |   |   |     |    |   |   |
| Enclosure                 | PF = Plastic flat enclosure   |     |   |   |     |    |   |   |
| Display Option            | D = Display   |     |   |   |     |    |   |   |
| Override Option           | O = Override switch (monetary)  |     |   |   |     |    |   |   |





· Chilled beam/ceiling systems

#### Features & Benefits

- Strap-on or screw mounting
- VFC or current output
- · Low smoke & fume flying lead cable
- Adjustable set point
- LED indication of status

### **HS-WD-CPS**

### **Condensation Prevention Detectors**

The HS-WD-CPS condensation prevention sensor is designed to meet the requirements for a low cost device to provide early warning of condensing conditions. The sensor provides either a volt-free contact or current output and is housed in a small enclosure which can be strapped to the surface that requires monitoring.

#### **Specifications**

| Power Supply           | 24Vdc ±5% or 24Vac ±10%<br>20mA max                               |
|------------------------|---|
| Output                 | Current: dry <5mA, wet >12mA<br>VFC: 24Vac/dc @ 1A resistive SPDT |
| Response Time          | <5 seconds  |
| Accuracy               | ±0.2°C ±5% RH   |
| Set Point Offset Range | ±2°C  |
| Flying Lead            | Low Smoke Zero Halogen (LSZH)                                     |
| EMC Compliance         | Emissions EN61000-6-3, Immunity EN61000-6-2                       |

#### Model Selection

| HS-WD-CPS-2M | Condensation detector, 2m (6.56ft) lead |
|--------------|---|
| HS-WD-CPS-5M | Condensation detector, 5m (16.4ft) lead |



## HS-D Series

### **Duct Humidity Transmitters**

The HS-D Series are duct humidity transmitters. They use a highly accurate and reliable Thermoset Polymer based capacitance humidity sensor and state-of-the-art digital linearization and temperature compensated circuitry to monitor humidity levels. The sensor is encapsulated in a 228.60 mm (9") long by 12.7 mm (0.5") diameter 304 S/S probe. A 60 micron HDPE filter protects the sensor from contaminants. A variety of enclosures are available. Excellent long term stability and quick response time combined with temperature compensation make the HS-D Series the ideal choice for the HVAC market. All models are available with accuracies of 2%, 3% or 5%.



#### **Specifications**

| Operating temperature  | -40°C to 85°C (-40°F to 185°F)   |
|------------------------|--|
| Storage temperature    | -40°C to 85°C (-40°F to 185°F)   |
| Sensor Type            | Thermoset polymer based capacitive   |
| Sensor Accuracy        | ±2, 3 or 5% RH from 5 to 95% RH  |
| Sensor Range           | 0 to 100% RH non-condensing  |
| Hysteresis             | ±1.5% RH Maximum   |
| Response Time          | 15 Seconds Typical   |
| Temperature Dependence | ±0.05% RH/ °C  |
| RH200 Probe            | 230 mm (9") probe length x 12.7 mm(1/2") Diameter Stainless Steel with Porous Filter |

#### Accessories

| HS-FCAL | Factory calibration certificate |
|---------|---------------------------------|
| HS-NIST | NIST calibration certificate    |

Note: Calibration certificates must be purchased at the time of purchasing the relative sensors.

#### **Applications**

- HVAC
- · Clean rooms
- · Museums / Archives
- Hospitals and Pharmaceuticals

#### Features & Benefits

- Economical
- · Ease of installation
- Probes made of corrosion resistant 304 stainless steel
- · Optional LCD

### Build Your Duct Humidity Sensor

|                              |  | HS- | D | 2 | PS | Х | Х |
|------------------------------|--|-----|---|---|----|---|---|
|                              |  |     |   |   |    |   |   |
| Mounting Style               | D = Duct   |     |   |   |    |   |   |
| Humidity Sensing             | 2 = 2%   |     |   |   |    |   |   |
| Accuracy                     | 3 = 3%   |     |   |   |    |   |   |
|                              | 5 = 5%   |     |   |   |    |   |   |
| Enclosure                    | PS = Plastic square enclosure  |     |   |   |    |   |   |
|                              | PR = Plastic round enclosure   |     |   |   |    |   |   |
|                              | MJ = Metal junction box enclosure  |     |   |   |    |   |   |
|                              | MW = Metal weatherproof enclosure  |     |   |   |    |   |   |
| Temperature Sensor<br>Option | T = Temperature sensor (10k $\Omega$ , Type II thermistor)                   |     |   |   |    |   |   |
| Display Option               | D = Display (only available on PS Enclosure)<br>(Humidity only is displayed) |     |   |   |    |   |   |







- HVAC
- · Clean rooms
- Museums / Archives
- · Hospitals and Pharmaceuticals

#### Features & Benefits

- Economical
- · Ease of installation
- Highly stable humidity sensor
- · Proven long stability and performance
- · Field selectable analog signals

# Outside Air Humidity Transmitters



The HS-O Series are relative humidity transmitters for outside air. They use a highly accurate and reliable Thermoset Polymer based capacitance humidity sensor and state-of-theart digital linearization and temperature compensated circuitry to monitor humidity levels. A 60 micron HDPE filter protects the sensor from contaminants. Excellent long term stability and quick response time combined with temperature compensation make the HS-O Series the ideal choice for the HVAC market. All models are available with RH accuracies of 2%, 3% or 5%.

#### **Specifications**

| Operating temperature  | -40°C to 85°C (-40°F to 185°F)             |
|------------------------|--|
| Storage temperature    | -40°C to 85°C (-40°F to 185°F)             |
| Sensor Type            | Thermoset polymer based capacitive         |
| Sensor Accuracy        | ±2, 3 or 5% RH from 5 to 95% RH            |
| Sensor Range           | 0 to 100% RH non-condensing                |
| Hysteresis             | ±1.5% RH Maximum                           |
| Response Time          | 15 Seconds Typical                         |
| Temperature Dependence | ±0.05% RH/ °C                              |
| Output Signal          | 4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc |
| Material               | Grey ABS<br>Type: UL94-5VB IP65 (NEMA 4X)  |

#### Accessories

| HS-FCAL | Factory calibration certificate |
|---------|---------------------------------|
| HS-NIST | NIST calibration certificate    |
| Note:   |                                 |

Calibration certificates must be purchased at the time of purchasing the relative sensors.

#### **Model Selection**

| * HS-O2PSX | 2% accuracy outside air relative humidity transmitter, 24 Vac/dc and jumper selectable outputs  |
|------------|---|
| HS-02PST   | $2\%$ accuracy outside air relative humidity transmitter, 24 Vac/dc and jumper selectable outputs, $10k\Omega,$ type 2, NTC thermistor. |
| HS-O3PSX   | 3% accuracy outside air relative humidity transmitter, 24 Vac/dc and jumper selectable outputs  |
| HS-O3PST   | $3\%$ accuracy outside air relative humidity transmitter, 24 Vac/dc and jumper selectable outputs, $10k\Omega,$ type 2, NTC thermistor. |
| HS-O5PSX   | 5% accuracy outside air relative humidity transmitter, 24 Vac/dc and jumper selectable outputs  |
| HS-O5PST   | 5% accuracy outside air relative humidity transmitter, 24 Vac/dc and jumper selectable outputs, 10kO, type 2, NTC thermistor.           |





# HS-D Series Duct Humidity and Temperature Transmitters

The HS-D Series are duct humidity and temperature transmitters. They use a highly accurate and reliable Thermoset Polymer based capacitance humidity sensor and Platinum RTD temperature sensor along with state-of-the-art digital linearization and temperature compensated circuitry to monitor humidity levels. The sensor is encapsulated in a 228.60 mm (9") long by 12.7 mm (0.5") diameter S/S probe. A 60 micron HDPE filter protects the sensor from contaminants. Excellent long term stability and quick response time combined with temperature compensation make the HS-D Series the ideal choice for the HVAC market. A variety of enclosure types are available. All models are available with RH accuracies of 2%, 3% or 5%.

#### **Specifications**

| the state of the s |  |
|--|--|
| Operating temperature  | -40°C to 85°C (-40°F to 185°F)             |
| Storage temperature  | -40°C to 85°C (-40°F to 185°F)             |
| Sensor Type  | Thermoset polymer based capacitive         |
| Sensor Accuracy  | ±2, 3 or 5% RH from 5 to 95% RH            |
| Sensor Range   | 0 to 100% RH non-condensing                |
| Hysteresis   | ±1.5% RH Maximum                           |
| Response Time  | 15 Seconds Typical                         |
| Temperature Dependence   | ±0.05% RH/ °C                              |
| Output Signal  | 4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc |
| Material   | Grey ABS<br>ype: UL94-5VB IP61(NEMA 2)     |



H-TFCAL Factory Calibration Certificate
HS-TNIST NIST Calibration Certificate

Note: Calibration certificates must be purchased at the time of purchasing the relative sensors.



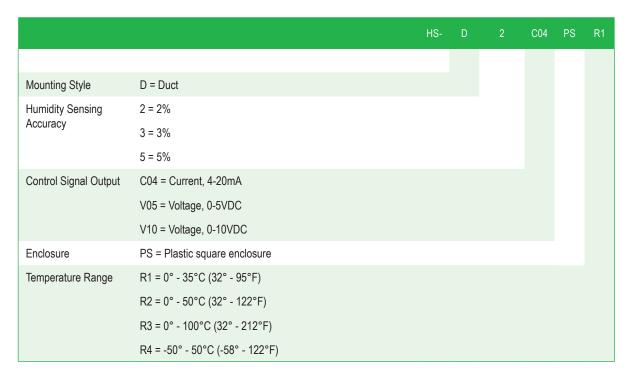
#### **Applications**

- HVAC
- · Clean rooms
- · Museums / Archives
- · Hospitals and Pharmaceuticals

#### Features & Benefits

- Economical
- · Ease of installation
- · Probes made of corrosion resistant stainless steel
- Proven long stability and performance
- · Field selectable analog signals









- HVAC
- · Clean rooms
- Museums / Archives
- · Hospitals and Pharmaceuticals

#### Features & Benefits

- Economical
- · Ease of installation
- · Highly stable humidity sensor
- · Proven long stability and performance
- Field selectable analog signals

# HS-O Series Outside Air Humidity and Temperature Transmitters

The HS-O Series of relative humidity and temperature transmitters for outdoor air use a highly accurate and reliable Thermoset Polymer based capacitance humidity sensor, and a Platinum RTD. By combining the sensors with state-of-the-art digital linearization and temperature compensated circuitry, the humidity and temperature are intricately monitored. Excellent long term stability and quick response time combined with temperature compensation make the HS-O Series the ideal choice for the HVAC market.

#### **Specifications**

| Operating temperature  | -40°C to 85°C (-40°F to 185°F)             |
|------------------------|--|
| Storage temperature    | -40°C to 85°C (-40°F to 185°F)             |
| Sensor Type            | Thermoset polymer based capacitive         |
| Sensor Accuracy        | ±2, 3 or 5% RH from 5 to 95% RH            |
| Sensor Range           | 0 to 100% RH non-condensing                |
| Hysteresis             | ±1.5% RH Maximum                           |
| Response Time          | 15 Seconds Typical                         |
| Temperature Dependence | ±0.05% RH/ °C                              |
| Output Signal          | 4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc |
| Material               | Grey ABS, Type: UL94-5VB IP65(NEMA 4X)     |

#### Accessories

HS-TFCAL Factory Calibration Certificate
HS-TNIST NIST Calibration Certificate

Note: Calibration certificates must be purchased at the time of purchasing the relative sensors.



# Build Your Outdoor Humidity & Temperature Transmitter

|                              |                                 | HS- | 0 | 2 | C04 | PS | R1 |
|------------------------------|---------------------------------|-----|---|---|-----|----|----|
|                              |                                 |     |   |   |     |    |    |
| Mounting Style               | O = Outdoor                     |     |   |   |     |    |    |
| Humidity Sensing<br>Accuracy | 2 = 2%                          |     |   |   |     |    |    |
|                              | 3 = 3%                          |     |   |   |     |    |    |
|                              | 5 = 5%                          |     |   |   |     |    |    |
| Control Signal Output        | C04 = Current, 4-20mA           |     |   |   |     |    |    |
|                              | V05 = Voltage, 0-5VDC           |     |   |   |     |    |    |
|                              | V10 = Voltage, 0-10VDC          |     |   |   |     |    |    |
| Enclosure                    | PS = Plastic square enclosure   |     |   |   |     |    |    |
| Temperature Range            | R1 = 0° - 35°C (32° - 95°F)     |     |   |   |     |    |    |
|                              | R2 = 0° - 50°C (32° - 122°F)    |     |   |   |     |    |    |
|                              | R3 = 0° - 100°C (32° - 212°F)   |     |   |   |     |    |    |
|                              | R4 = -50° - 50°C (-58° - 122°F) |     |   |   |     |    |    |

