



# SERIES RHP | HUMIDITY/TEMPERATURE TRANSMITTER

#### FEATURES/BENEFITS

- 2%, 3%, or 5% accuracy models to meet project requirements
- · Integral temperature sensors reduces number of devices to install
- Radiation shield option protects sensor from radiant heating effects allowing for accurate readings even when mounted in direct sunlight

## APPLICATIONS

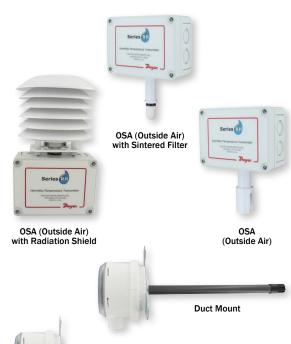
• Air economizers

DESCRIPTION

Outdoor temperature and relative humidity reference for building systems

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 reduces longterm affect of condensation, fog, or high humidity. The humidity sensors are available with 2%, 3% or 5% accuracies. Duct mounted transmitters are available



### **SPECIFICATIONS**

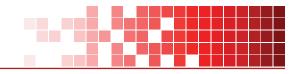
with an optional two-line alpha numeric LCD display.

0 to 100% RH.
-40 to 140°F (-40 to 60°C).
RHP-2XXX ±2% 10-90% RH @ 25°C; RHP-3XXX ±3% 20-80% RH @ 25°C; RHP-5XXX ±5% 20-80% RH @ 25°C.
±0.2°C @ 25°C (±0.36°F @ 77°F).
DIN Class B; ±0.3°C @ 0°C (±0.54°F @ 32°F).
±0.9°F @ 77°F (±0.3°C @ 25°C).
±1%.
±0.1% typical.
-40 to 140°F (-40 to 60°C).
-40 to 176°F (-40 to 80°C).
-4 to 140°F (-20 to 60°C).
Power requirements: 10 to 35 VDC; Output signal: 4 to 20 mA.
Power requirements: 15 to 35 VDC or 15 to 29 VAC; Output signal: 0 to 10 V @ 5 mA max.
15 seconds.
Removable screw terminal block.
Duct mount: 1/2 NPS; OSA: PG11 or PG16 (1/2 conduit) knockouts.
< 1% RH/year.
Capacitance polymer.
Types 1, 2, 3: Solid state band gap; Curves A, B, C: Thermistor; Curves D, E: Platinum RTD DIN 385.
Duct mount: PBT; OSA: Polycarbonate.
Duct mount: NEMA 4X (IP66) for housing only; OSA: NEMA 4X (IP66).
Duct mount only, optional 2-line alpha numeric, 8 characters/line.
RH: 0.1%; 0.1°F (0.1°C).
Duct mount: .616 lb (.3 kg); OSA: 1 lb (.45 kg).
CE.

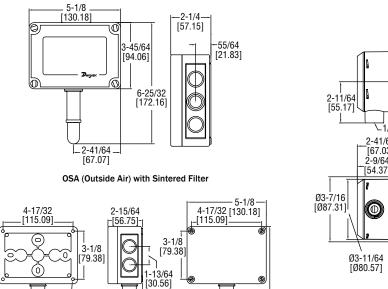


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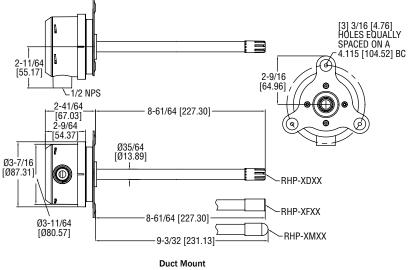




#### DIMENSIONS



6-25/32 [172.09

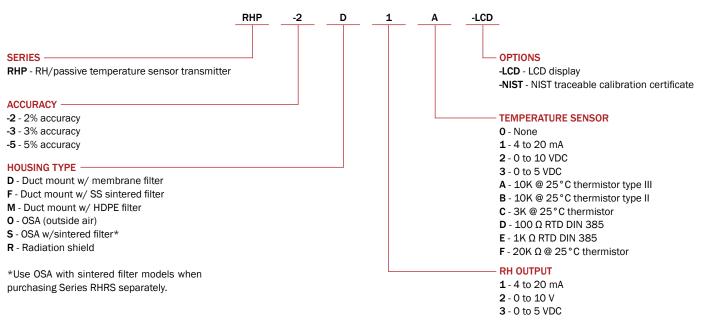


#### **HOW TO ORDER**

Ø3/16 [4.76] MOUNTING HOLES TYP 4 PLCS

Use the **bold** characters from the chart below to construct a product code.

55/64 [21.83] OSA (Outside Air)



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