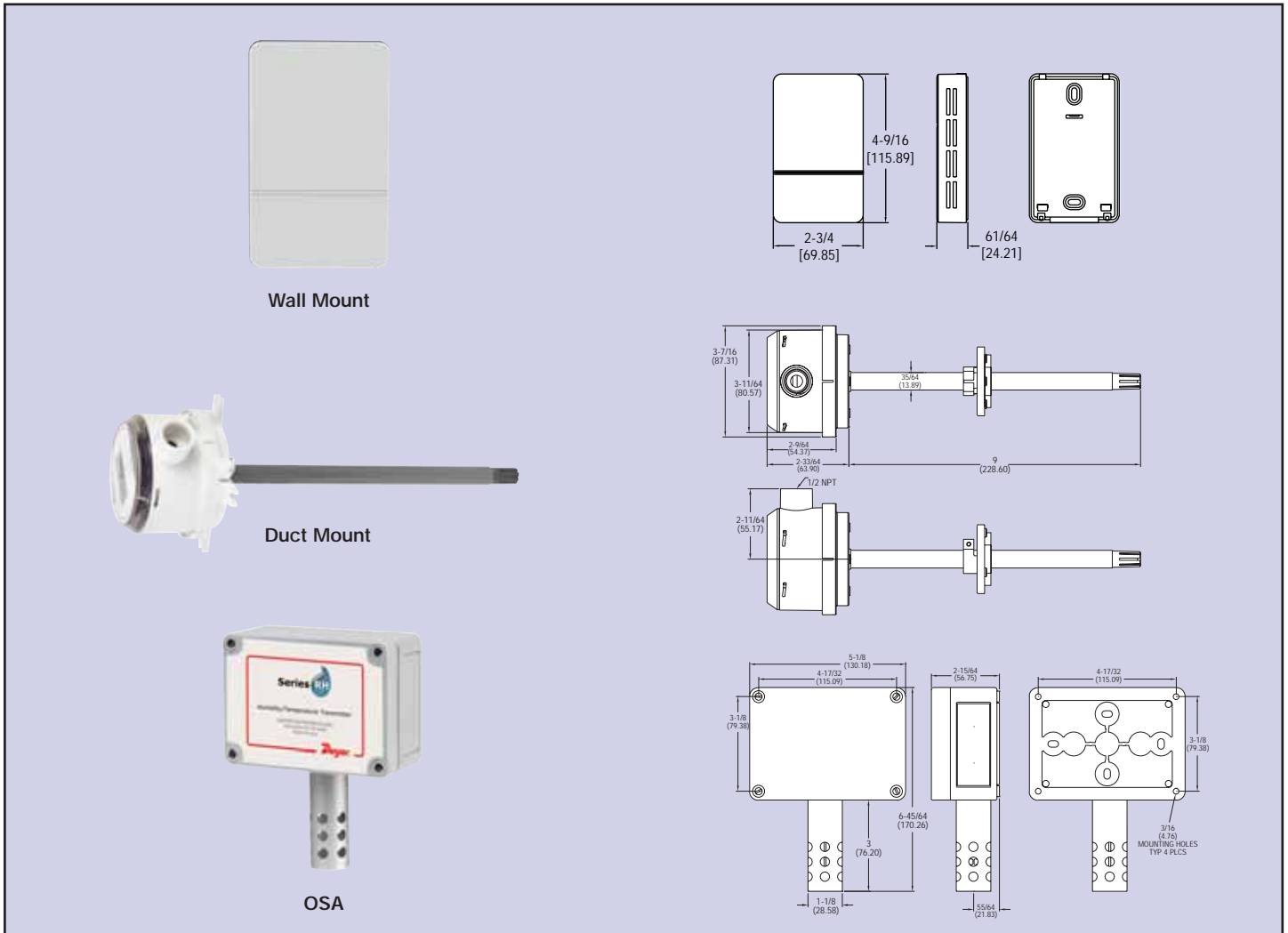




Series
RH

Humidity/Temperature Transmitter

Calibration-Free, 4-20 mA Output, 2% Accuracy, Optional Display



Demanding humidity/temperature applications require the Series RH Transmitter which offers high accuracy, long term stability, and reliable operation. The Series RH is designed for monitoring and controlling humidity or both humidity and temperature in building energy management systems, HVAC, commercial, residential, clean rooms, museums, climate chambers, and other space monitoring applications.

The Series RH is a two-wire transmitter with a 4-20 mA loop powered output. The state of the art sensor recovers from 100% saturation and is calibration-free. A variety of mounting configurations are available including wall mount, duct mount, and OSA (outside air) models. Select humidity monitoring or humidity and temperature models.

The combined humidity/temperature version (RHT) provides dual 4-20 mA output signals to control both humidity and temperature with one sensor which reduces installation costs. The duct mount version is also available with an optional alpha-numeric LCD to provide local indication of humidity and temperature simultaneously. The displayed temperature is field selectable for °F or °C.

MODELS

Model Number	Description	Mounting	Display
RHU-W	Humidity Only	Wall	No
RHU-D	Humidity Only	Duct	No
RHU-O	Humidity Only	OSA	No
RHT-W	Humidity/Temperature	Wall	No
RHT-D	Humidity/Temperature	Duct	No
RHT-O	Humidity/Temperature	OSA	No
RHT-D-LCD	Humidity/Temperature	Duct	Yes

SPECIFICATIONS

Relative Humidity Range: 0 to 100% RH.

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

Accuracy: ±2% @ 10 - 90% RH; ±0.9°F @ 72°F (±0.3°C @ 25°C).

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).

Power Requirements: 10-35 VDC.

Output Signal: 4-20 mA, 2 channels for humidity/temperature models (loop powered on RH).

Response Time: 15 seconds.

Electrical Connections: Screw terminal block.

Conduit Connection: Duct mount: 1/2" NPS; OSA: 1/2" (22.3 mm).

Drift: <1% RH/year.

RH Sensor: Capacitance polymer.

Temperature Sensor: Solid state band gap.

Housing Material: Wall Mount: ABS; Duct Mount: PBT; OSA: Polycarbonate.

Enclosure Rating: NEMA 4X (IP65) for OSA mount only.

Display: Optional 2-line alpha-numeric, 8 characters/line (Duct mount only).

Display Resolution: RH: 0.1%; 0.1°F (0.1°C).

Weight: Wall Mount: 0.5 lb (0.25 kg); Duct Mount: 0.6 lb (0.3 kg); OSA: 1 lb (0.45 kg).

Agency Approvals: CE.

Humidity