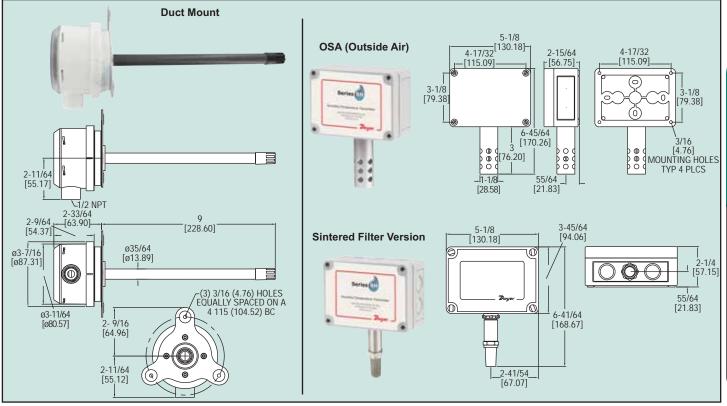


Series **RHP**

Humidity/Temperature Transmitter Passive Temperature Outputs, Sintered Filter Options

CE



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 is not affected by condensation, fog, high humidity, or contaminants. The humidity sensors are available with 2% or 3% accuracies. Duct mounted transmitters are available with an optional two-line alpha numeric LCD display. The Series RHP is available with interchangeable filter options as well as replaceable sensors.

Example	RHP	2	D	1	Α	LCD	RHP-2D1A-LCD
Series	RHP						RH/Passive Temperature
							Sensor Transmitter
Accuracy		2					2% Accuracy
		3					3% Accuracy
Housing			D				Duct Mount
Туре							w/Plastic Tip
			F				Duct Mount
							w/Sintered Filter
			0				OSA (Outside Air)
			S				OSA w/Sintered Filter*
			R				Radiation Shield
RH Output				1			4-20mA
				2			0-10V
Temperature					0		None
Sensor					1		4-20mA
					2		0-10 VDC
					Α		10K @ 25°C Thermistor
							Dwyer Curve A
					В		10K @ 25°C Thermistor
							Dwyer Curve B
					С		3K @ 25°C Thermistor
							Dwyer Curve C
					D		100Ω RTD DIN 385
					Е		1KΩ RTD DIN 385
					F		20KΩ @ 25°C Thermistor
Option						LCD	LCD Display

SPECIFICATIONS

Relative Humidity Range: 0 to 100% RH. Temperature Range: -40 to 140°F (-40 to 60°C).

Accuracy, RH: Model RHP-2XXX ±2% 10-90% RH @ 25°C; Model RHP-3XXX

±3% 20-80% RH @ 25°C.

Accuracy, Thermistor Temp Sensor: ±0.22°C @ 25°C (±0.4°F @ 77°F). Accuracy, RTD Temp Sensor: DIN Class B; ±0.3°C @ 0°C (±0.54°F @ 32°F).

Hysteresis: ±1%.

Repeatability: ±0.1% typical.

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).

4-20 mA Loop Powered Models: Power requirements: 10-35 VDC; Output signal:

0-10V Output Models: Power requirements: 15-35 VDC or 15-29 VAC; Output

signal: 0-10V @ 5 mA max. Response Time: 15 seconds.

Electrical Connections: Removable 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: Curves A, B, C: Thermistor; Curves D, E: Platinum RTD

Enclosure: Duct mount: PBT; OSA: Polycarbonate. Enclosure Rating: NEMA 4X (IP65) for OSA mount only.

Display: Duct mount only, optional 2-line alpha numeric, 8 characters/line.

Display Resolution: RH: 0.1%; 0.1°F (0.1°C). Weight: Duct mount: .616 lb (.3 kg); OSA: 1 lb (.45 kg).

Agency Approvals: CE.

^{*}Model RHRS Radiation Shield is recommended for sintered filter OSA models.