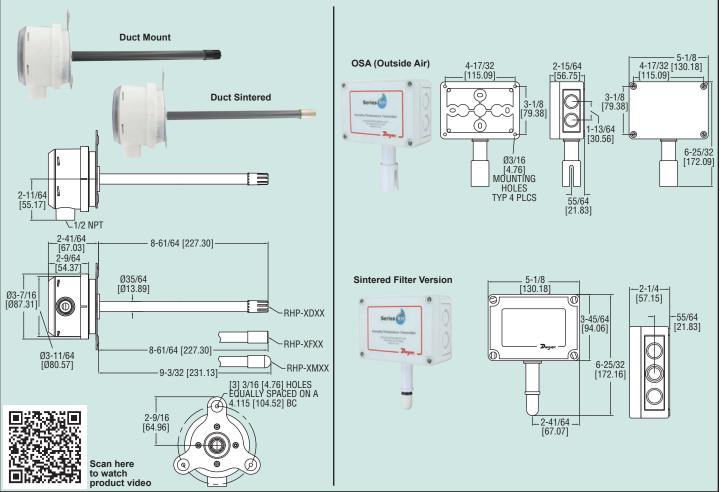


Humidity/Temperature Transmitter

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%, 3% or 5% 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		1	Λ	LCD	RHP-2D1A-LCD
Example	RHP	4	ש	щ	A	LCD	
Series	KHP						RH/Passive Temperature
A		2	Н	H	⊢		Sensor Transmitter
Accuracy		2					2% Accuracy
		2 3 5					3% Accuracy
Hausing		5	Б	H	H		5% Accuracy Duct Mount
Housing			טן				
Туре			L				w/Membrane Filter
			F				Duct Mount w/Sintered Filter
			5				OSA (Outside Air)
			SR				OSA w/Sintered Filter* Radiation Shield
RH Output		-	r	1	\vdash		4 to 20mA
Kn Output				2			0 to 10V
				2			0 to 10V 0 to 5 VDC
Temperature		\vdash	Н	_	0		None
Sensor					1		4 to 20mA
Selisoi					2		0 to 10 VDC
					3		0 to 5 VDC
					Ă		10K @ 25°C Thermistor
					l′`		Type III
					В		10K @ 25°C Thermistor
					٦		Type II
					С		3K @ 25°C Thermistor
					Ď		100Ω RTD DIN 385
					Ē		1KΩ RTD DIN 385
					١Ē		20KΩ @ 25°C Thermistor
Option						LCD	LCD Display
						NIST	NIST traceable calibration
							certificate

certificate *Model RHRS Radiation Shield is required for sintered filter OSA models. **SPECIFICATIONS**

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

Accuracy, RH:
RHP-2XXX ±2% 10-90% RH @ 25°C;
RHP-3XXX ±3% 20-80% RH @ 25°C;
RHP-5XXX ±5% 20-80% RH @ 25°C.

Accuracy, Thermistor Temp Sensor: ±0.2°C @ 25°C (±0.36°F @ 77°F).

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

Accuracy, Solid State Band Gap: ±0.9°F @ 77°F (±0.3°C @ 25°C).

Hysteresis: ±1%.

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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 to 20 mA Loop Powered Models: Power requirements: 10 to 35 VDC; Output

Output Models: Power requirements: 15 to 35 VDC or 15 to 29 VAC; Output signal: 0 to 10V @ 5 mA max.

Solid State Band Gap Temperature Sensor Output Ranges: Switch selectable, -20 to 140°F (-28 pt 66°C); 0 to 100°F (-17.8 to 37.8°C); 40 to 90°F (4.4 to 32.3°C); -4 to 140°F (-20 to 60°C).

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: Types 1, 2, 3: Solid state band gap; Curves A, B, C: Thermistor; Curves D, E: Platinum RTD DIN 385.

Enclosure: Duct mount: PBT; OSA: Polycarbonate.

Enclosure Rating: NEMA 4X (IP66) 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: 618 lb (3 kg): OSA: 1 lb (45 kg)

Weight: Duct mount: .616 lb (.3 kg); OSA: 1 lb (.45 kg). Agency Approvals: CE.