



SERIES RHP-E/N | HUMIDITY/TEMPERATURE/DEW POINT TRANSMITTER

FEATURES/BENEFITS

- Field selectable relative humidity or dew point output allows for application specific information
- Universal analog outputs can be used with almost any building management system
- · Integral or service tool LCD display options for cost-effective alternatives
- Two housing designs to match North American and European mounting patterns

APPLICATIONS

- · Air economizers
- · Room comfort monitoring
- · Greenhouse monitoring

DESCRIPTION

The Series RHP-E/N Wall Mount Humidity/Temperature/Dew Point Transmitter is the most versatile room transmitter on the market. The stylish housing is well vented to provide air flow across the sensor to improve measurement accuracy. The humidity and the dew point are measured using a capacitive polymer sensor that completely recovers from 100% saturation. The humidity and dew point can have either a current or voltage output, while the optional temperature output can be a current, voltage, RTD, or thermistor. For models with current or voltage for the temperature output, the temperature range is field selectable.



European style



North American style

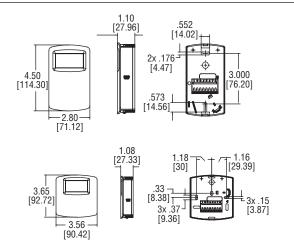
SPECIFICATIONS

Relative Humidity Range	0 to 100% RH.
Temperature Range	-40 to 140°F (-40 to 60°C) for thermistor and RTD sensors; -20 to 140°F (-28.9 to 60°C) for analog outputs.
Dew Point Temperature	-20 to 140°F (-28.9 to 60°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) field
Range	selectable ranges.
Accuracy	
	RHP-5XXX: ±5% (20 to 80% RH @ 25°C); Thermistor temperature sensor: ±0.36°F @ 77°F (±0.2°C @ 25°C); RTD
	temperature sensor: DIN Class B, ±0.54°F @ 32°F (±0.3°C @ 0°C); Analog outputs: ±0.9°F @ 77°F (±0.3°C @ 25°C).
Hysteresis	
Repeatability	71
-	Operating: -40 to 140°F (-40 to 60°C); Storage: -40 to 176°F (-40 to 80°C).
Compensated Temperature	-4 to 140°F (-20 to 60°C).
Limits	
4 to 20 mA Loop Powered	
-	powered on RH). Switch selectable RH/dew point. Switch selectable normal/reverse output.
0 to 5 / 10 VDC Outputs	Power requirements: 15 to 35 VDC or 15 to 29 VAC; Output load: 5 mA max, 2 channels for humidity/solid state
	temperature sensor models. Switch selectable 0-10/2-10 V or 0-5/1-5 V output. Switch selectable RH/dew point. Switch
0 11101 1 0 10	selectable normal/reverse output.
Solid State Band Gap	
Temperature Sensor Output Ranges	(-20 to 60 °C).
Response Time	15.0
Electrical Connections	
	<1% RH/year.
	Capacitance polymer.
	White polycarbonate (European); Warm gray polycarbonate (North American).
Enclosure Rating	
Display	The state of the s
Display Resolution	RH: 1%; Temp: 0.1°F (0.1°C); Dew Point: 1°F (1°C).
Weight	4.4 oz (125 g)
Agency Approvals	CE.

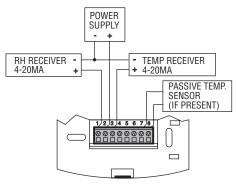




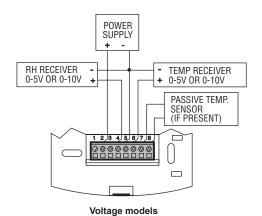
DIMENSIONS



WIRING DIAGRAM

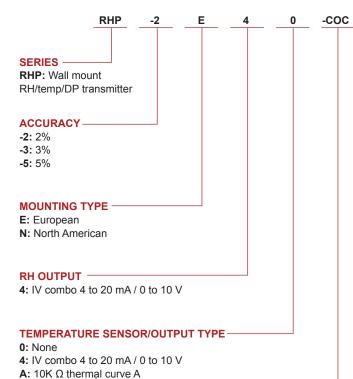


Current models



HOW TO ORDER

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



B: 10K Ω thermal curve B

C: 3K Ω thermal curve C

D: 100 Ω RTD

E: 1K Ω RTD

F: 20K Ω thermal curve F

OPTIONS

-COC: Certificate of calibration -FC: Factory calibration certificate -LCD: Liquid crystal display

-NIST: NIST traceable calibration certificate

ACCESSORIES

Model	Description
A-449	Remote LCD display
SCD-PS	100 to 240 VAC/VDC to 24 VDC power supply

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