

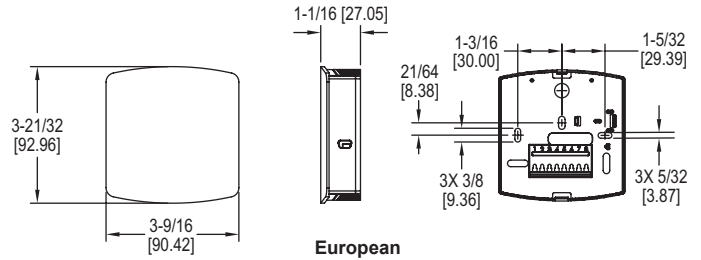
FIELD SELECTABLE HUMIDITY/TEMPERATURE/DEW POINT TRANSMITTERS



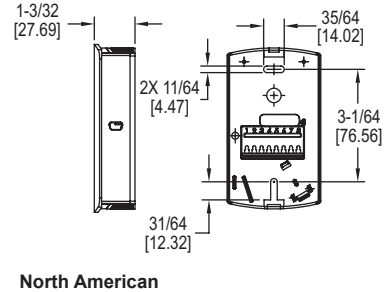
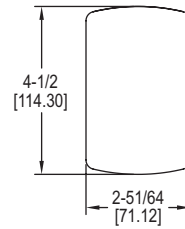
North American style



European style



European



North American

The **Series RHK-E/N Field Selectable 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. A remote display can be ordered for building balancing or LEED® validation. The transmitter has internal DIP switches to select the temperature engineering units and whether the transmitter outputs humidity or dew point. The humidity and the dew point are measured using a capacitive polymer sensor that completely recovers from 100% saturation. The humidity, dew point, and temperature can have either a current or voltage output. For models with current or voltage for the temperature output, the temperature range is field selectable.

FEATURES/BENEFITS

- Field selectable relative humidity or dew point output
- Universal analog outputs
- Two housing designs to match North American and European aesthetics

APPLICATIONS

- Air economizers
- Room comfort monitoring
- Greenhouse monitoring

SPECIFICATIONS

Relative Humidity Range: 0 to 100% RH.
Temperature Range: -28.9 to 60°C (-20 to 140°F).
Dew Point Temperature Range: -28.9 to 60°C (-20 to 140°F); -17.8 to 37.8°C (0 to 100°F); 4.4 to 32.3°C (40 to 90°F); -20 to 60°C (-4 to 140°F) field-selectable ranges.
Accuracy: RH: ±3% 20 to 80% RH @ 25°C; Temperature: ±0.3C @ 25C (±0.9F @ 77F).
Hysteresis: ±0.8%.
Repeatability: ±0.1% typical.
Temperature Limits: Operating: -40 to 60°C (-40 to 140°F); Storage: -40 to 80°C (-40 to 176°F).
Compensated Temperature Range: -20 to 60°C (-4 to 140°F).
4-20 mA Loop Powered Outputs: Power requirements: 10-35 VDC; Output signal: 4-20 mA, 2 channels for humidity/solid state temperature sensor models (loop powered on RH). Switch selectable RH/dew point. Switch selectable normal or reverse output.
0-5/10V Outputs: Power requirements: 15-35 VDC or 15-29 VAC; Output load: 5 mA max., 2 channels for humidity/solid state temperature sensor models. Switch selectable 0-10 V/2-10 V or 0-5 V/1-5 V output. Switch selectable RH/dew point. Switch selectable normal or reverse output.
Temperature Sensor Output Ranges: Switch selectable, -28.9 to 60°C (-20 to 140°F); -17.8 to 37.8°C (0 to 100°F); 4.4 to 32.3°C (40 to 90°F); -20 to 60°C (-4 to 140°F).
Response Time: 8 s.
Electrical Connections: Screw terminal block.
Drift: <0.25% RH/year.
RH Sensor: Capacitance polymer.
Enclosure Material: Polycarbonate.
Enclosure Rating: IP20.
Weight: 4.4 oz (125 g).
Agency Approvals: CE.

Humidity/Temperature Transmitters

MODEL CHART				
Example	RHK	-3	E 4	RHK-3E44
Series	RHK			RHK temperature sensor transmitter
Accuracy		3		3% accuracy
Housing Type			E N	European style wall mount North American style wall mount
Humidity/ Dew Point Output			4	4-20 mA/0-5 VDC/0-10 VDC
Temperature Output			4	4-20 mA/0-5 VDC/0-10 VDC

ACCESSORIES	
Model	Description
A-449	Remote LCD display allows remote indication of select Dwyer wall mount transmitters for validation or certification purposes
A-449A	Remote display with push buttons and mini USB



A-449