



SERIES RHPLC | WALL MOUNT HUMIDITY/TEMPERATURE TRANSMITTER



FEATURES/BENEFITS

- 2% or 3% accuracy models
- Humidity only or temperature and humidity combo
- Wide selection of passive thermistor or RTD temperature sensors

APPLICATIONS

- Air economizers
- Room comfort monitoring

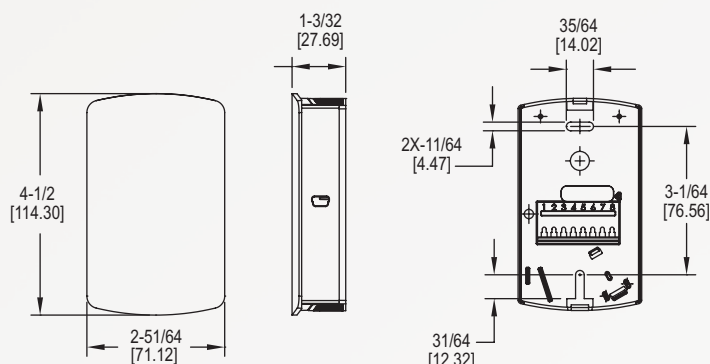
DESCRIPTION

The **Series RHPLC Wall Mount Humidity/Temperature Transmitter** is a compact economical sensor for the building automation marketplace. The stylish housing is well vented to provide air flow across the sensor to improve measurement accuracy. Each unit utilizes a capacitive polymer sensing element to deliver a proportional analog output. A combination humidity and temperature model can be configured with current, voltage, RTD, or thermistor output. A wide selection of passive RTD or thermistor sensors are available in this series.

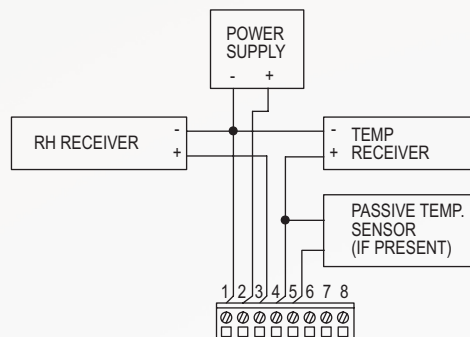
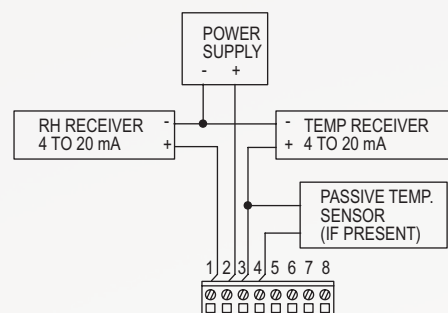
SPECIFICATIONS

Sensor	Capacitive polymer.
Relative Humidity Range	0 -100% RH.
RH Accuracy	±2% 10 to 90% RH @ 25°C for 2% accuracy units; ±3% 20 to 80% RH @ 25°C for 3% accuracy units.
RH Hysteresis	±0.8%.
RH Repeatability	±0.1% Typical.
Temperature Output Range	-40 to 140°F (-40 to 60°C).
Accuracy Passive Thermistor Temperature Sensor	± 0.36°F @ 77°F (± 0.2°C @ 25°C).
Accuracy RTD Temperature Sensor	DIN Class B; ± 0.3°C @ 0°C (± 0.54°F @ 77°F)
Accuracy Current/Voltage Temperature Output	± 0.9°F @ 72°F (± 0.3°C @ 25°C).
Temperature Limits	Operating: -40 to 140°F (-40 to 60°C); Storage: -40 to 176°F (-40 to 80°C).
Power Requirements	10 to 35 VDC for 4 to 20 mA or 0 to 5 VDC output; 15 to 35 VDC for 0 to 10 VDC output; 10 to 29 VAC for 0 to 5 VDC output; 15 to 29 VAC for 0 to 10 VDC output.
Response Time	8 s (τ63).
Electrical Connections	Screw terminal block.
Drift	<0.25% RH/year.
Enclosure Material	Polycarbonate.
Weight	4.4 oz (125 g).
Agency Approval	CE.

DIMENSIONS



WIRING DIAGRAMS



HOW TO ORDER

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

	RHPLC	-2	N	1	0	-FC	
SERIES							
RHPLC:	Wall Mount Humidity/Temperature Transmitter						
ACCURACY							
2:	2% accuracy						
3:	3% accuracy						
HOUSING							
N:	North American style wall mount						
HUMIDITY OUTPUT							
1:	Current 4 to 20 mA						
2:	Voltage 0 to 10 VDC						
3:	Voltage 0 to 5 VDC						
OPTIONS							
FC:	Factory calibration certificate (3% accuracy units)						
TEMPERATURE OUTPUT							
0:	None						
1:	Current 4 to 20 mA						
2:	Voltage 0 to 10 VDC						
3:	Voltage 0 to 5 VDC						
A:	10K Ω @ 25°C thermistor type III						
B:	10K Ω @ 25°C thermistor type II						
C:	3K Ω @ 25°C thermistor						
D:	100 Ω RTD DIN 385						
E:	1K Ω RTD DIN 385						
F:	20K Ω @ 25°C thermistor						

ORDER ONLINE TODAY!

dwyer-inst.com/Product/SeriesRHPLC



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