



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

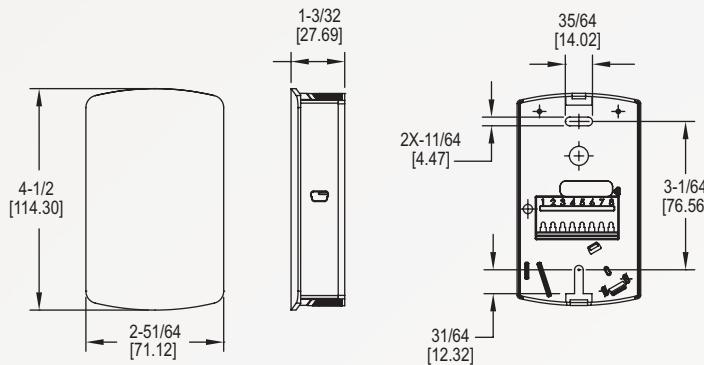
DESCRIPTION

The **Series RHPLC Wall Mount Humidity/Temperature Transmitter** is a compact economical sensor for the building automation marketspace. 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.

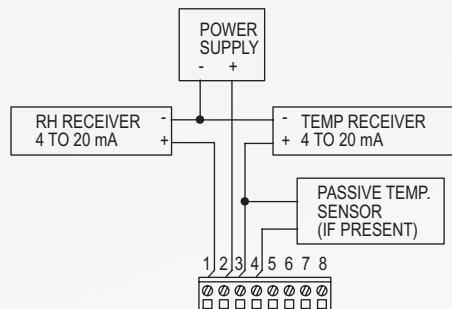
SPECIFICATIONS

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.

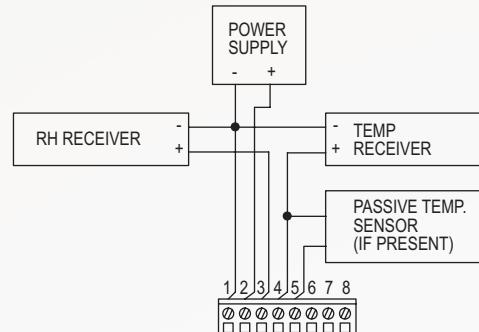
DIMENSIONS



WIRING DIAGRAMS



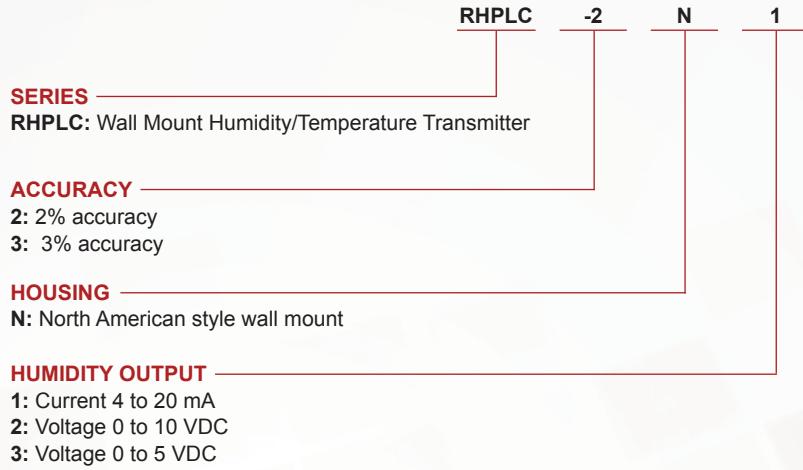
Current Output Wiring



Voltage Output Wiring

HOW TO ORDER

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



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



Dwyer Instruments, Inc.