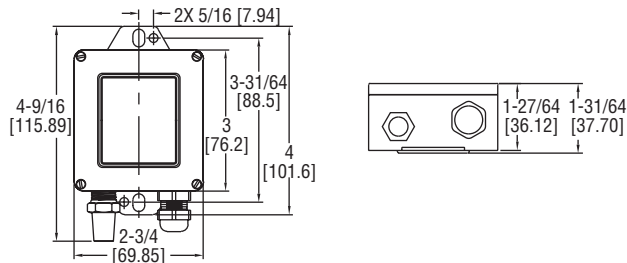


WEATHER-RESISTANT HUMIDITY/TEMPERATURE TRANSMITTER

Compact Housing, Sintered Filter



The compact **SERIES WHT** Humidity/Temperature Transmitter is designed to withstand the elements. A removable sintered filter protects the polymer capacitance sensor from solid objects that may come in contact with the transmitter. The transmitter is available with 4 to 20 mA or 0 to 10 VDC output signals for both temperature and humidity. This transmitter is ideal for measuring outside air temperature and humidity levels for air handling economizer applications.

FEATURES/BENEFITS

- RH or RH and temperature outputs
- Compact NEMA 3S construction

APPLICATIONS

- Air handling economizers
- Air environment monitoring in agriculture or livestock cultivation houses

MODEL CHART			
Model	Accuracy	RH Output	Temperature
WHT-310	3%	4 to 20 mA	None
WHT-311	3%	4 to 20 mA	4 to 20 mA
WHT-320	3%	0 to 10 VDC	None
WHT-322	3%	0 to 10 VDC	0 to 10 VDC
WHT-330	3%	0 to 5 VDC	None
WHT-333	3%	0 to 5 VDC	0 to 5 VDC
WHT-31A	3%	4 to 20 mA	10K Ω Type III
WHT-32A	3%	0 to 10 VDC	10K Ω Type III

Note: For 2% accuracy, change the leading 3 to a 2.

Example: WHT-210.

SPECIFICATIONS

Relative Humidity Range: 0 to 100% RH.

Temperature Range: -40 to 140°F (-40 to 60°C).

Accuracy, RH: $\pm 3\%$ 20 to 80% RH, $\pm 4\%$ @ 10-20%, 80 to 90%.

Accuracy, Temp Models with 4 to 20 mA Temp. Output: $\pm 0.9^\circ\text{F}$ @ 72°F ($\pm 0.3^\circ\text{C}$ @ 25°C).

Accuracy, Temp Models with Passive Thermistor Temp Sensor: $\pm 0.36^\circ\text{F}$ @ 77°F ($\pm 0.2^\circ\text{C}$ @ 25°C).

Hysteresis, RH: $\pm 1\%$.

Repeatability, RH: $\pm 0.1\%$ typical.

Temperature Limits: -40 to 140°F (-40 to 60°C).

Storage Temperature: -40 to 176°F (-40 to 80°C).

Compensated Temperature Range, RH: -4 to 140°F (-20 to 60°C).

4 to 20 mA Loop Powered Models:

Power requirements: 10 to 35 VDC;

Output signal: 4 to 20 mA.

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

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

Response Time: 15 seconds.

Electrical Connections: Removable screw terminal block.

Drift: < 1% RH/year.

RH Sensor: Capacitance polymer.

Temperature Sensor: 4 to 20 mA output, solid state band gap. Passive output: 10K Ω @ 25°C thermistor (Dwyer curve A).

Enclosure: ABS.

Enclosure Rating: Designed to meet NEMA 3S (IP54).

Weight: 0.3 oz (8.5 g).

Agency Approvals: CE.