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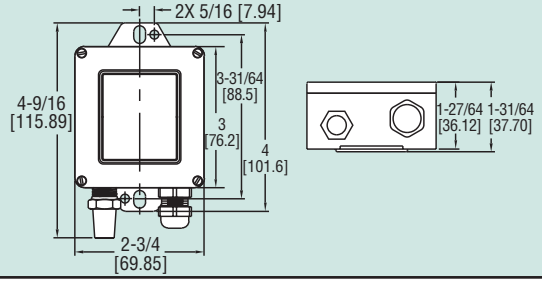
Series WHT

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.

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 V	None
WHT-322	3%	0 to 10 V	0 to 10 V
WHT-330	3%	0 to 5 V	None
WHT-333	3%	0 to 5 V	0 to 5 V
WHT-31A	3%	4 to 20 mA	10 K Ohm
WHT-32A	3%	0 to 10 V	10 K Ohm

Note: For 2% accuracy, change the leading 3 to a 2. (For example, WHT-210)

SPECIFICATIONS

Relative Humidity Range: 0 to 100% RH.
Temperature Range: -40 to 140°F (-40 to 60°C).
Accuracy, RH: ±3% 20-80% RH, ±4% @ 10-20%, 80-90%.
Accuracy, Temp Models with 4-20 mA Temp. Output: ±0.9°F @ 72°F (±0.3°C @ 25°C).
Accuracy, Temp Models with Passive Thermistor Temp Sensor: ±0.4°F @ 77°F (±0.22°C @ 25°C).
Hysteresis, RH: ±1%.
Repeatability, RH: ±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).
4-20 mA Loop Powered Models:
Power requirements: 10-35 VDC;
Output signal: 4-20 mA.
0-10 V Output Models:
Power requirements: 15-35 VDC or 15 –29 VAC;
Output signal: 0-10 V @ 5 mA max.
0-5 V Output Models:
Power requirements: 10-35 VDC or 10–29 VAC;
Output signal: 0-5 V @ 5 mA max.
Response Time: 15 seconds.
Electrical Connections: Removable screw terminal block.
Drift: <1% RH/year.
RH Sensor: Capacitance polymer.
Temperature Sensor: 4-20 mA output, solid state band gap. Passive output: 10K @ 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.

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