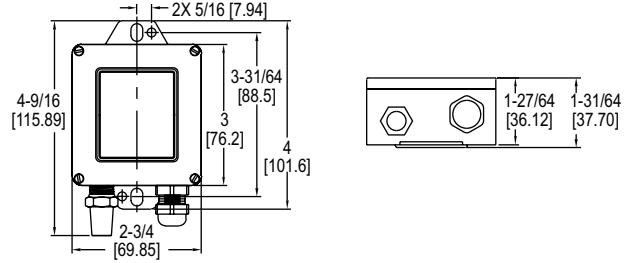# WEATHER-RESISTANT HUMIDITY/TEMPERATURE TRANSMITTER
Compact Housing, Sintered Filter

The compact **Series WHT Weather-Resistant 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 4-20 mA or 0-10 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.

BENEFITS/FEATURES
• Easy installation into tight spaces with compact NEMA 3S housing
• Reduced installation costs with combination RH and temperature outputs as required

APPLICATIONS
• Air handling economizers
• Air environment monitoring in agriculture or livestock cultivation houses

MODEL CHART

Model	Accuracy	RH Output	Temperature
WHT-310	3%	4-20 mA	None
WHT-311	3%	4-20 mA	4-20 mA
WHT-320	3%	0-10 VDC	None
WHT-322	3%	0-10 VDC	0-10 VDC
WHT-330	3%	0-5 VDC	None
WHT-333	3%	0- 5 VDC	0-5 VDC
WHT-31A	3%	4-20 mA	10K Ω Type III
WHT-32A	3%	0-10 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: ±3% 20 to 80% RH, ±4% @ 10-20%, 80 to 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: ±0.36°F @ 77°F (±0.2°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).
Power Requirements: 4-20 mA loop powered models: 10-35 VDC; 0-10 V output models: 15-35 VDC or 15-29 VAC; 0-5 V output models: 10-35 VDC or 10-29 VAC.
Output Signal: 4-20 mA loop powered models: 4-20 mA; 0-10 V output models: 0-10 V @ 5 mA max; 0-5 V output models: 0-5 V @ 5 mA max.
Response Time: 15 s.
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.