OUTSIDE HUMIDITY
/TEMPERATURE
TRANSMITTER
RH310 Series

The RH310 series uses a highly accurate and reliable Thermoset Polymer based capacitance humidity sensor and Platinum RTD temperature sensor together with state-of-the-art digital linearization and temperature compensated circuitry to monitor humidity levels. A hinged, gasketed weatherproof ABS enclosure provides easy of installation and protection from the elements.

SPECIFICATION:

Training Sensor Typemininin	Thermoset polymer based
	capacitive
	±2, 3, or 5% RH, (5% to 95% RH)
Measurement Range:	0 to 100% RH
Temperature Dependence:	±0.05% RH/ °C
Hysteresis:	±1.5% RH maximum
Repeatability:	±0.5% RH typical
Linearity:	±0.5% RH typical
Stability:	±1% RH typical at 50% RH in 5 yrs.
Sensor Response Time:	
Sensitivity:	0.1% RH
Temperature Sensor Type:	
	385 Alpha, thin film, Class B
	±0.3°C @ 0°C
Temperature Accuracy:	±0.1% of span
Operating Temperature:	40° to 85°C (-40° to 185°F)
	0 to 95% RH non-condensing
Power Supply:	18 to 35 Vdc, 15 to 26 Vac
Consumption:	
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	Negligible over specified operating
Input Voltage Effect:	Negligible over specified operating
Input Voltage Effect:	Negligible over specified operating range
Input Voltage Effect: Protection Circuitry:	Negligible over specified operating range Reverse voltage protected and output limited
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Input Voltage Effect: Protection Circuitry: Output Signal:	Negligible over specified operating range Reverse voltage protected and output limited 4-20 mA current loop, 0-1, 0-5
Input Voltage Effect: Protection Circuitry: Output Signal:	Negligible over specified operating range Reverse voltage protected and output limited 4-20 mA current loop, 0-1, 0-5 or 0-10 Vdc
Input Voltage Effect: Protection Circuitry: Output Signal:	Negligible over specified operating rangeReverse voltage protected and output limited4-20 mA current loop, 0-1, 0-5 or 0-10 Vdc550 ohms max for current output 10K ohms min for voltage output
Protection Circuitry: Output Signal: Output Drive at 24 Vdc:	Negligible over specified operating rangeReverse voltage protected and output limited4-20 mA current loop, 0-1, 0-5 or 0-10 Vdc550 ohms max for current output 10K ohms min for voltage output
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GREYSTONE

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL		Product Description				
RH3	10A	Outside Humidity/Temperature Transmitter				
		CODE	RH Accuracy			
		02C	2%			
		03C	3%			
		05C	5%			
			CODE Output Signals (RH and Temperature)			
			2A	4-20 mA		
			2D			
			2E	0-10 Vdc		
				CODE	Scaled Temperature Span	
				1	0° - 35°C (32° - 95°F)	
				2	0° - 50°C (32° - 122°F)	
				3	0° - 100°C (32° - 212°F)	
				6	-50° - 50°C (-58° - 122°F)	
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Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

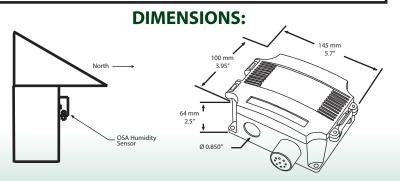
TYPICAL INSTALLATION:

For complete installation and wiring details, please refer to the product installation instructions.

The RH310 should be mounted on an outside North facing wall, under the eaves which will provide protection from direct sunlight and wind.

The RH310 can be mounted directly to buildings wall face using the four provided mounting holes. There are 0.85" holes for conduit connection.

Custom Temperature Range:



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