CREYSTONE ENERGY SYSTEMS INC S/S SURFACE HUMIDITY TRANSMITTER RH100S Series

The RH100S Stainless Steel Wall Plate Relative Humidity transmitter uses a field-proven capacitive type humidity sensor and microprocessor temperature compensation for reliable, accurate measurement of indoor humidity.

The wall plate sensor is perfect for locations requiring periodic wipe down as it features a 304 stainless steel plate with a neoprene gasket. The sensor is protected by a 100 micron sintered stainless steel filter.

This product is available as a humidity sensor only or with various direct temperature sensors.

The plate sensor is available with either 4-20 mA or 0-5 Vdc or 0-10 Vdc output signal types and the transmitter is located on the back of the plate for ease of installation.

SPECIFICATION: RH100S

Sensor Type	Thermoset Polymer based				
	capacitive				
Accuracy	±3 or 5% RH, (5% to 95% RH)				
Measurement Range	0 to 100% RH				
Hysteresis					
Response Time	15 seconds typical				
Stability					
Operating Temp	0° to 70°C (32° to 158°F)				
Operating Humidity0 to 95% RH non-condensing					
Sensor Protection	100 micron sintered filter				
Power Supply	18 to 35 Vdc, 20 to 26 Vac				
Consumption	22 mA maximum				
Input Voltage Effect	Negligible over specified				
	operating range				
Protection Circuitry	Reverse voltage protected and				
	output limited				
Output Signal	4-20 mA current loop, 0-5 or				
	0-10 Vdc				
Output Drive at 24 dc	550 ohms max for current output				
	10K ohms min for voltage output				
Internal Adjustments	Clearly marked ZERO and				
	SPAN pots				
Wiring Connections	Screw terminal block				
	(14 to 22 AWG)				
Opt.Temp. Sensor	Various RTDs and thermistors				
	available as two-wire				
	resistance output (See				
	Ordering Chart)				
Enclosure	S/S, IP50 (Nema 1),				
	70.6x114.3x41mm				
	(2.8″w x 4.5″h x 1.6″d)				

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description	
RH100S	S/S Surface Humidity Transmitter	

	CODE 03 05	Accuracy 3% 5%			
		CODE 120 V05 V10	Output 4-20mA output 0-5Vdc output 0-10Vdc output		
			CODE	Optional Te	mperature Sensor
			L C F D J K M B G	100Ω Platinum, IEC 751, 385 Alpha, thin film 1000Ω Platinum, IEC 751, 385 Alpha, thin film 1801Ω, NTC Thermistor, $\pm 0.2^{\circ}$ C 3,000Ω, NTC Thermistor, $\pm 0.2^{\circ}$ C 10,000Ω, type 3, NTC Thermistor, $\pm 0.2^{\circ}$ C 20,000Ω, NTC Thermistor, $\pm 0.2^{\circ}$ C 1000 Ω Nickel, Class B, DIN 43760 10k Ω Type 3, NTC Therm, $\pm 0.2^{\circ}$ C	
				CODE	Options
				ТР	Tamperproof Screws
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Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

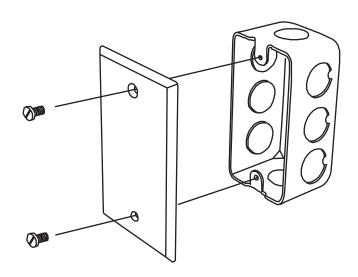


TYPICAL INSTALLATION:

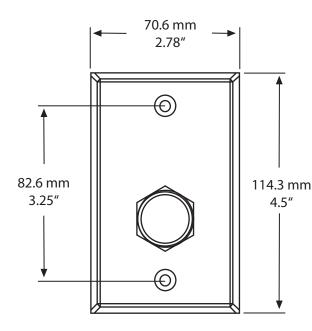
For complete installation and wiring details, please refer to the product installation instructions.

The SS plate type sensor installs directly on a standard electrical box and should be mounted five feet from the floor of the area to be controlled. Do not mount the sensor near doors, opening windows, supply air diffusers or other known air disturbances. Avoid areas where the sensor is exposed to vibrations or rapid temperature changes.

A terminal is provided for connection to the Building Automation System.



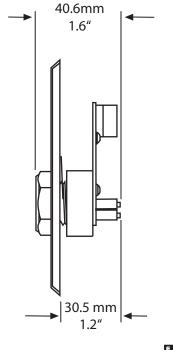
ENCLOSURE DIMENSIONS





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Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC/R sensors and transmitters for Building Automation Management Systems. We have conscientiously established a worldwide reputation as an industry leader by maintaining leadingedge design technology, prompt technical support, and a commitment to on-time deliveries. We take pride in our Quality Management System which is ISO 9001 certified, assuring our customers of consistent product reliability.