

PRODUCT DESCRIPTION

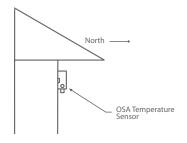
The outside humidity transmitter uses a highly accurate and reliable Thermoset Polymer based capacitance humidity sensor and state-of-the-art digital linearization and temperature compensated circuitry to monitor humidity levels. The sensor is encapsulated in a field replaceable sensor hub for protection from the elements. A weatherproof enclosure that provides ease of installation is provided. An optional integrated temperature sensor is available.

TYPICAL INSTALLATION

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

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

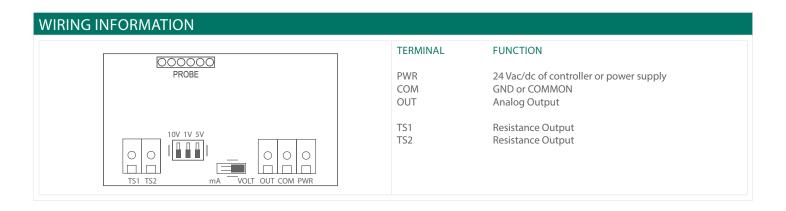
The outside transmitter can be mounted directly to buildings wall face using the provided mounting holes. There is a 0.86" hole for conduit connection of the back of the enclosure.



SPECIFICATIONS		
SENSOR TYPE	Thermoset Polymer-based Capacitive Sensor Chip	
SENSOR ACCURACY	±2, 3, or 5 %RH (5 to 95 %RH) @ 25°C	
MEASUREMENT RANGE	0 to 100 %RH	
RESOLUTION	±0.01 %RH	
HYSTERESIS	±0.8 %RH @ 25°C (77°F)	
RESPONSE TIME	8 seconds	
STABILITY	<0.25% RH/year	
AMBIENT OPERATING RANGE	-40 to 60°C (-40 to 140°F)	
POWER SUPPLY	24 Vac/dc ~ ±10% typical	
OUTPUT DRIVE @ 24 VDC	Current: 550Ω max Voltage: $10,000\Omega$ min	
OPTIONAL TEMPERATURE SENSOR	Feed Through Sensor: Various RTD's and thermistors available as 2 wire resistance output	
ENCLOSURE	A: Polycarbonate, UL94-V0, IP65 (NEMA 4X) E: Same as A, with cable gland fitting	
TERMINATION	Screw terminal block (14 to 22 AWG)	
PROTECTION CLASS	III	
POWER SOURCE UL	24 Vac/dc ±10% typical, SELV (Class 2)	
POWER SOURCE UL CONSUMPTION	24 Vac/dc ±10% typical, SELV (Class 2) 22 mA @ 24 Vdc, 70 mA @ 24 Vac	
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CONSUMPTION	22 mA @ 24 Vdc, 70 mA @ 24 Vac	
CONSUMPTION EU CONFORMITY	22 mA @ 24 Vdc, 70 mA @ 24 Vac CE	
CONSUMPTION EU CONFORMITY CERTIFICATION	22 mA @ 24 Vdc, 70 mA @ 24 Vac CE UL 60730 & CSA E60730	
CONSUMPTION EU CONFORMITY CERTIFICATION PURPOSE OF CONTROL	22 mA @ 24 Vdc, 70 mA @ 24 Vac CE UL 60730 & CSA E60730 Operating Control	
CONSUMPTION EU CONFORMITY CERTIFICATION PURPOSE OF CONTROL ENCLOSURE	22 mA @ 24 Vdc, 70 mA @ 24 Vac CE UL 60730 & CSA E60730 Operating Control UL Enclosure Type 3R, Raintight	
CONSUMPTION EU CONFORMITY CERTIFICATION PURPOSE OF CONTROL ENCLOSURE TYPE OF ACTION	22 mA @ 24 Vdc, 70 mA @ 24 Vac CE UL 60730 & CSA E60730 Operating Control UL Enclosure Type 3R, Raintight Type 1	
CONSUMPTION EU CONFORMITY CERTIFICATION PURPOSE OF CONTROL ENCLOSURE TYPE OF ACTION IMPULSE VOLTAGE	22 mA @ 24 Vdc, 70 mA @ 24 Vac CE UL 60730 & CSA E60730 Operating Control UL Enclosure Type 3R, Raintight Type 1 330V	







ORDERING			
PRODUCT	HSOS	Outside Humidity Transmitter	
ENCLOSURE	A E	Polycarbonate with hinged and gasketed cover Same as A, with cable gland fitting	
RH ACCURACY	2 3 5	2% 3% 5%	
OPTIONAL TEMPERATURE SENSOR	00 02 05 06 07 08 12 13 14 20 24	No Temperature Sensor Option $100\Omega \ Platinum, IEC 751, 385 \ Alpha, thin film, 3 \ wire \\ 1801\Omega \ NTC Thermistor, \pm 0.2^{\circ}C 3000\Omega \ NTC Thermistor, \pm 0.2^{\circ}C 10,000\Omega \ Type \ 3, \ NTC Thermistor, \pm 0.2^{\circ}C 2.252 \ K\Omega \ NTC Thermistor, \pm 0.2^{\circ}C 1000\Omega \ Platinum, IEC 751, 385 \ Alpha, thin film \\ 1000\Omega \ Nickel, Class \ B, DIN 43760 10,000\Omega \ Type \ 3, \ NTC \ Thermistor, \pm 0.2^{\circ}C 20,000\Omega \ NTC \ Thermistor, \pm 0.2^{\circ}C 10,000\Omega \ Type \ 2, \ NTC \ Thermistor, \pm 0.2^{\circ}C 10,000\Omega \ 25^{\circ}C, \pm \%, \ B = 3435 \pm 1\% \ (25/85)$	

PART NUMBER

NOTE: Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.







PS-HSOSXXX-06