

OUTSIDE HUMIDITY TRANSMITTER **HSOS Series**

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. It is available in a weatherproof enclosure that provides ease of installation and protection from the elements.

SPECIFICATION:

Sensor Type	Thermoset Polymer based Capacitive
Sensor Accuracy	±2, 3, or 5% RH (5 to 95% RH)
Measurment Range	0 to 100% RH
Sensor Response Time	15 seconds typical
Temp 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.
Operating Range	40 to 85°C (-40 to 185°F)
Operating Humidity	0 to 95% RH non-condensing
Power Supply	18 to 30 Vdc, 15 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 Vdc, 0-10 Vdc, or 0-1 Vdc
	(jumper-selectable)
Output Drive @ 24 Vdc	550 ohms max for current output
	10k ohms min for current output
Internal Adjustments	Clearly marked ZERO and SPAN pots
Optional Temp Sensor	Various RTDs and thermistors available as two-wire
	resistance output
Enclosure	ABS - UL94-V0 - IP65 (NEMA4X)
Termination	Screw terminal block (14, 20, 22 AWG)
Country of Origin	Canada

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



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

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CREVENOR

MODEL **Product Description** HSOS Outside Air Humidity Transmitter

	CODE	Enclosure				
	A E	ABS, wit Same as	S, with hinged & gasketed cover me as A, with cable gland fitting			
		CODE	RH Accuracy			
		2 3 5	2% 3% 5%			
			CODE	Sensor		
			00 02 05	No Temperature Sensor Option 100 Ω Platinum, IEC 751, 385 Alpha, thin film, 3 wire 1801 Ω. NTC Thermistor. +0.2°C		
			06 07 08	3000 Ω , NTC Thermistor, ±0.2°C 10,000 Ω Type 3, NTC Thermistor, ±0.2°C 2.352K Ω , NTC Thermistor, ±0.2°C		
			12 13	2.552 (Ω) Mic merinistor, 10.2 C 1000 Ω Platinum, IEC 751, 385 Alpha, thin film 1000 Ω Nickel, Class B, DIN 43760		
			14 20 24	10,000 Ω, Type 3, NTC Thermistor, ±0.2°C c/w 11K shunt resistor 20,000 Ω, NTC Thermistor, ±0.2°C 10,000 Ω, Type 2, NTC Thermistor, ±0.2°C		
		Ļ	59	10,000 Ω, 25°C, ±1%, B = 3435 ±1% (25/85)		

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

1.00"

DIMENSIONS:



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