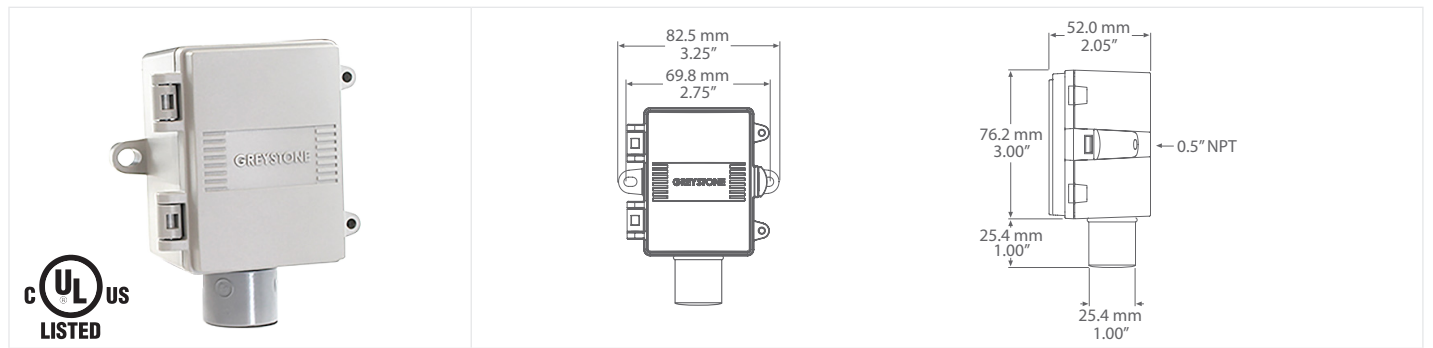




NETWORK OUTSIDE HUMIDITY/TEMPERATURE SENSOR



HNOS SERIES

PRODUCT DESCRIPTION

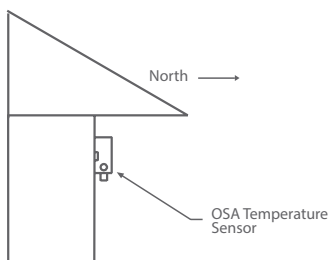
The outside air network humidity/temperature sensor uses a highly accurate and reliable Thermoset Polymer based capacitance humidity sensor and temperature sensor, that is field replaceable, to monitor humidity and temperature levels and transmit values via BACnet® or Modbus communication to a building automation system. A hinged, gasketed weatherproof Polycarbonate enclosure with sensor hub provides ease of installation and protection from the elements.

TYPICAL INSTALLATION

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

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

The outside sensor 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.

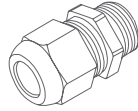


SPECIFICATIONS

RELATIVE HUMIDITY	Accuracy: ±2, 3, or 5 %RH (5 to 95 %RH) Range: 0 to 100 %RH Resolution: 0.01 %RH Hysteresis: ±0.8 %RH @ 25°C (77°F) Response Time: 8 seconds typical Stability: <0.25 %RH/year
TEMPERATURE SENSOR	Sensor Accuracy: ±0.2°C (±0.4°F) @ 0 to 70°C (32 to 158°F) Probe Sensing Range: -40 to 60°C (-40 to 140°F), 5 to 95 %RH non-condensing Resolution: 0.01°C/°F Response Time: 2 seconds Stability: <0.03°C/year
NETWORK COMMUNICATION	Hardware: MS/TP, 2-wire RS-485 Software: BACnet® or Modbus Baud Rate: 9600, 19200, 38400, 57600, 76800, or 115200 Address Range: BACnet® - 0 to 127 Modbus - 1 to 255
OPTIONAL RELAY	Contacts: 0.5 A @ 125 Vac / 1 A @ 24 Vdc Setpoint: Relative Humidity - 1 to 90 %RH or Temperature - 5 to 40°C (40 to 100°F)
OPERATING ENVIRONMENT	-40 to 60°C (-40 to 140°F)
PROBE MATERIAL	PVC sensor hub
WIRING CONNECTION	Screw terminal block (14 to 22 AWG)
ENCLOSURE	A: Polycarbonate, UL94-V0, IP65 (NEMA 4X) E: Same as A, with cable gland fitting
DIMENSIONS	82.5mm W x 76.2mm H x 52.0mm D (3.25" x 3.0" x 2.05")
PROTECTION CLASS	III
POWER SOURCE UL	24 Vac/dc ±10% typical, SELV (Class 2)
CONSUMPTION	22 mA @ 24 Vdc, 70 mA @ 24 Vac
EU CONFORMITY	CE
CERTIFICATION	UL 60730 & CSA E60730
PURPOSE OF CONTROL	Operating Control
ENCLOSURE	UL Enclosure Type 3R, Raintight
TYPE OF ACTION	Type 1
IMPULSE VOLTAGE	330V
POLLUTION DEGREE	4
COUNTRY OF ORIGIN	Canada

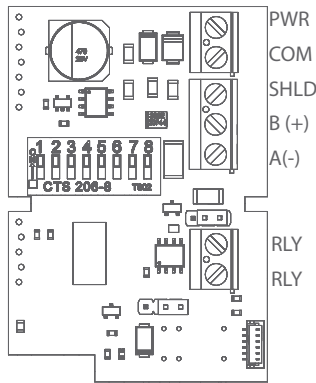


OPTIONAL ACCESSORIES - INCLUDED WITH E ENCLOSURE OPTION



CABLE GLAND FITTING

WIRING INFORMATION



TERMINAL	FUNCTION
PWR	24 Vac/dc from controller or power supply
COM	GND or COMMON
SHLD	Network Output
B (+)	Network Output
A (-)	Network Output
RLY	Relay Output
RLY	Relay Output

ORDERING

PRODUCT	HNOS	Description
ENCLOSURE	A	Polycarbonate with hinged and gasketed cover
	E	Same as A, with cable gland fitting
RH ACCURACY	2	2%
	3	3%
	5	5%
OUTPUT	B	BACnet®
	M	Modbus
RELAY	X	No Relay
	R	Relay

PART NUMBER

HNOS

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