GREYSTO ENERGY SYSTEMS

HIGH ACCURACY OUTSIDE HUMIDITY TRANSMITTER

The HAHO series 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. A 60 micron HDPE filter protects the sensor for contaminants. It is available in 2 weatherproof enclosure types that provide ease of installation and protection from the elements.

SPECIFICATION:

SI ECII ICAI	
	Thermoset Polymer based Capactive
Range	0 to 100% RH
Accuracy	±1% (20 to 80% RH) or ±2% (5 to 95% RH)
Response	15 Seconds typical
Temp Dependence	
Hysteresis	±1.5% RH maximum
Repeatability	±0.5% RH typical
Linearity	±0.5% RH typical
Operating Range	40 to 85°C (-40 to 185°F)
Power Supply	18 to 30 Vdc, 15 to 26 Vac
Consumption	22 mA maximum
Protection Circuitry	Reverse voltage protected and output limited
Output Signal	4-20 mA current loop, 0-5 or 0-10 Vdc
	(jumper-selectable)
Output Drive @ 24 Vdc	550 ohms max for current output
	10K ohms min for voltage output
	Clearly marked ZERO and SPAN pots
	RTD's or Thermistors - See ordering chart
Enclosures	C: PVC, IP65 (NEMA 4X)
	D: Grey ABS - UL94-V0, IP65 (NEMA 4X)
	Screw terminal block (14 20 22 AWG)
OPTIONAL TEMPERA	
Sensor Type	Platinum RTD 1000 Ω, 385 Alpha @ 0°C
	NTC Thermistor, 10,000 Ω Type 2/3
	or 20,000 Ω @ 25°C
Accuracy	RTD Class A: ±0.15°C @ 0°C
	RTD 1/3 DIN: ±0.1°C @ 0°C
	RTD 1/10 DIN: ±0.03°C @ 0°C

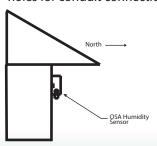
TYPICAL INSTALLATION:

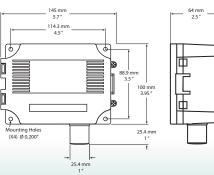
For complete installation and wiring details, please refer to the product installation instructions.

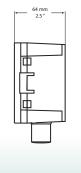
Thermistor (39): ± 0.05 °C, 0-70°C **Thermistor (40/46):** ±0.1°C, 0-70°C **Thermistor (55)**: ± 0.03 °C, 0-70°C

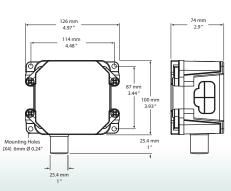
The HAHO should be mounted on an outside North facing wall, under the eaves which will provide protection from direct sunlight and wind.

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









HAHO Series



DRODUCT SELECTION INCORMATION.

GREYSTONE

PRODUCT SELECTION INFORMATION:									
ı	MODEL	. Produ	Product Description						
1	нано	Hlgh A	Accur	uracy Outside Air Humidity Transmitter					
-									
CODE			Enclosure						
		C D		PVC Enclosure ABS Enclosure with Hinged Cover					
					DE 1	Accuracy 1%			
				2	2%				
						CODE	Optional High Accuracy Temperature Sensor		
						18 48 22 39 55 40 46	1000 Ω Plat, IEC 751, 385 Alpha, thin film, Class A 1000 Ω Plat, IEC 751, 385 Alpha, thin film, 1/3 DIN 1000 Ω Plat, IEC 751, 385 Alpha, thin film, 1/10 DIN 10,000 Ω , Type 2, NTC Thermistor, ± 0.05 C 10,000 Ω , Type 2, NTC Thermistor, ± 0.03 C 10,000 Ω , Type 3, NTC Thermistor, ± 0.1 C 20,000 Ω , NTC Thermistor, ± 0.1 C		
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Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

Dimensions:









