High Accuracy Relative Humidity Transmitter HAHS Series





Precision humidity control/sensing

FEATURES:

- Highly Stable RH sensor element
- Humidity range: 0-100%
- Accuracy available 2%, 3%, & 5%
- Optional precision temperature sensors
- Field selectable outputs
- Compact ABS Enclosure



Peace of mind through reliable humidity monitoring

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

DESCRIPTION:

The high accuracy series of humidity transmitters are designed for use in environmental monitoring and control systems where high performance and stability are demanded. It's state-of-the-art design combines digital linearization and temperature compensation with a world class capacitive sensor for reliability and accuracy in even the most critical applications. Various models cover many aspects of RH mearurement and several optional features are available to meet virtually all HVAC applications.

SPECIFICATION:

Sensor Type	. Thermoset Polymer based Capacitive
Sensor Accuracy	.±1% (20 to 80 %RH) or ±2% (5 to 95 %RH)
Wire Material	. PVC insulated, parallel bonded, 22 AWG
Measurement Range	.0 to 100% RH
Sensor Response Time	. 15 seconds typical
Temperature Dependence	.±0.05% RH/°C
Hysteresis	. ±1.5% RH maximum
Repeatablility	.±0.5% RH typical
Linearity	
Stability	. ±1% RH typical at 50% RH in 5 yrs.
Operating Range	
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 Temperature Sensor	. Various RTDs and thermistors available as two-wire
	resistance output (See Ordering Chart)
Enclosure	. Hinged cover - ABS - UL94-V0 - IP65 (NEMA4X)
	Hinged cover - ABS with thread adaptor and cable gland fitting
HSDT Probe	. 230 mm (9") probe length x 12.7 mm (1/2") diameter
	stainless steel with porous filter
Termination	. Screw terminal block (14 to 22 AWG)
Country of Origin	. Canada
OPTIONAL TEMPERATURE	
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
	Thermistor (39): ±0.05°C, 0 to 70°C
	Thermistor (40/46): ±0.1°C, 0 to 70°C

Thermistor (55): ±0.03°C, 0 to 70°C

Product Description					
High Accuracy Humidity Transmitter					
CODE	Mounting Style				
CODE Enclosure					
			hinged and gasketed cover A, with thread adapter and cable gland fitting (not available with OS) RH Accuracy		
CODE					
		1 2			
			CODE	Sensor	
			18 48 22 39 55 40	1000 Ω Platinum, IEC 751, 385 Alpha, thin film, Class A 1000 Ω Platinum, IEC 751, 385 Alpha, thin film, 1/3 DIN 1000 Ω Platinum, IEC 751, 385 Alpha, thin film, 1/10 DIN 10,000 Ω Type 2, NTC Thermistor, $\pm 0.05^{\circ}$ C 10,000 Ω Type 2, NTC Thermistor, $\pm 0.03^{\circ}$ C 10,000 Ω Type 3, NTC Thermistor, $\pm 0.1^{\circ}$ C 20,000 Ω NTC Thermistor, $\pm 0.1^{\circ}$ C	
	High Accu	High Accuracy Humidir CODE Mounting DT Duct Hum OS Outside H CODE A	High Accuracy Humidity Transmitter CODE Mounting Style DT Duct Humidity Transmit Outside Humid	High Accuracy Humidity Transmitter CODE Mounting Style DT Duct Humidity Transmitter Outside Humidity Transmitter CODE Enclosure A ABS with hinged and g E Same as A, with thread CODE RH Accurate 1 1% 2 2% CODE 18 48 48 22 39 55	

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





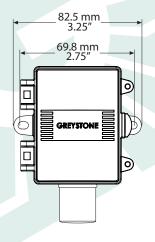


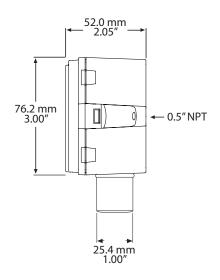




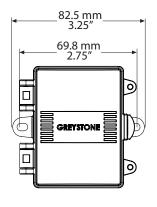
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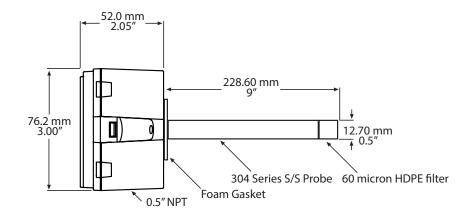
HSOS





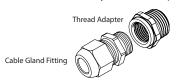
HSDT





ACCESSORIES:

Thread adapter and cable gland fitting are included with the E style enclosure option.





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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.