

HIGH ACCURACY DUCT HUMIDITY TRANSMITTER HAHSDT Series

The duct 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 230 mm (9") long by 12.7 mm (0.5") diameter 304 S/S probe. An 60 micron HDPE filter protects the sensor for contaminants. Optional integrated temperature sensor is available.

SPECIFICATION:

SPECIFICAL	IUN:		
Sensor Type	Thermoset Polymer based Capacitive		
Sensor Accuracy	±1% (20 to 80 %RH) or ±2% (5 to 95 %RH)		
Probe Material	Stainless steel with porous filter		
Probe	230 mm (9") probe length x 12.7 mm		
	(1/2") diameter		
Wire Material	PVC insulated, parallel bonded		
Measurment Range	0 to 100% RH		
Sensor Response Time	15 seconds typical		
Temp Dependence	±0.05% RH/°C		
Hysteresis	±1.5% RH maximum		
Repeatablility	±0.5% RH typical		
Linearity	±0.5% RH typical		
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		
	Clearly marked ZERO and SPAN pots		
Option Temp Sensor	Various RTD's and Thermistors available as two-wire		
	resistance output		
Enclosures	ABS - UL94-V0 - IP65 (NEMA4X)		
	E includes thread adapter, (1/2" NPT to M16)		
	and cable gland fitting		
Termination	Screw terminal block (14, 20, 22 AWG)		
Country of Origin	Canada		
OPTIONAL TEMPER	ATURE		
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		

TYPICAL INSTALLATION:

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

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

The immersion type probes are installed in the appropriate length thermowell for the pipe size. Thermal conductive compound should be added inside the thermowell to provide optimum thermal transfer.

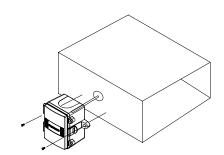


PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

PRODUCT SELECTION INFORMATION:				
Product Description				
Duct Humidity Transmitter				
CODE	Enclosure			
A E	ABS, with hinged & gasketed cover Same as A, with thread adapter & cable gland fitting			
	CODE	RH Accuracy		
	1 2	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	
	Product D Duct Humi CODE A	Product Description Duct Humidity Transm CODE Enclosure A ABS, with Same as A CODE 1	Product Description Duct Humidity Transmitter CODE Enclosure A ABS, with hinged & gas Same as A, with thread 1 1% 2 2% CODE 18 48 22 39 55	

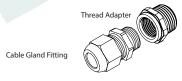
 $Greystone\ Energy\ Systems, Inc.\ reserves\ the\ right\ to\ make\ design\ modifications\ without\ prior\ notice.$







Included with E enclosure





GREYSTONE

Greystone Energy Systems, Inc. 150 English Drive, Moncton, New Brunswick, Canada E1E 4G7

(506) 853-3057 Fax: (506) 853-6014 North America: 1-800-561-5611 e-mail: mail@greystoneenergy.com www.greystoneenergy.com









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.