# GREYSTONE ENERGY SYSTEMS INC

### HIGH ACCURACY FLEX-DUCT AVERAGE TEMPERATURE TRANSMITTER HATXDF Series

The high accuracy flexible, multi-point duct averaging mounted temperature transmitter is available with a selection of platinum RTD sensors and a transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response. They are available with various scaled ranges. The sensing cable is constructed to provide excellent heat transfer, fast response time and is available in several lengths and quantity of sensing elements.

#### **SPECIFICATION:**

Sensor Type 1000 ohm Platinum RTD
Sensor Accuracy
RTD 1/3 DIN: ±0.1°C @ 0°C
RTD 1/10 DIN: ±0.03°C @ 0°C
Probe Sensing Range20 to 60°C (-4 to 140°F)
Sensing CableFT-6 rated plenum cable, 22 AWG
Output Signal
(factory configured)
Transmitter Accuracy±0.1% of span, including linearity
4-20 mA Loop Power Supply 15-35 Vdc or 22-32 Vac
Minimum Loop Current
Maximum Loop Current
Maximum Loop Load>600 ohms
0-5 Vdc Power Supply10-35 Vdc or 10-32 Vac
0-10 Vdc Power Supply
Maximum Current (Voltage)5 mA nominal
Maximum Output (Voltage)Limited to <5.5 Vdc for 0-5 Vdc <10.5 for 0-10 Vdc
Input Voltage EffectNegligible over specified operating range
Protection CircuitryReverse voltage protected and output limited
Ambient Operating Range0 to 50°C (32 to 122°F), 0 to 95% RH non-condensing
Wiring ConnectionsScrew terminal block (14 to 22 AWG)
EnclosuresABS - UL94-V0, IP65 (NEMA4X)
E - includes thread adapter (1/2" NPT to M16),
and cable gland fitting
Country of OrignCanada

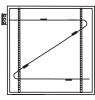
\*This product is factory calibrated and any field adjustment will void the warranty.

#### **TYPICAL INSTALLATION:**

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

The flex-duct average probes are installed through a hole in the side of the duct to monitor an average temperature within the duct. Select a probe length that allows for criss-crossing the duct multiple times. Install the probes in a straight section of duct at a suitable distance downstream from any heating, cooling or humidification devices.

The enclosure provides mounting tabs for ease of installation.





#### **PRODUCT SELECTION INFORMATION:**

MODEL Product Description

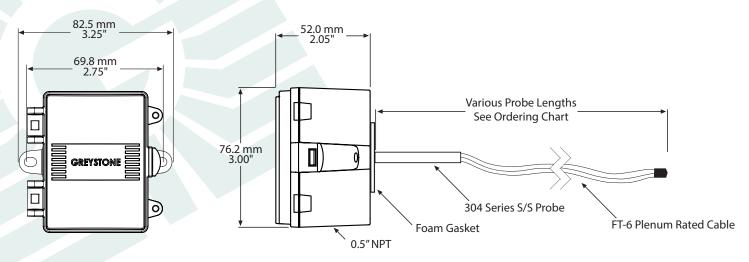
HATXDF High Accuracy Flexible Cable Duct Average Temperature Transmitter

		CODE	Enclosure					
A ABS, with hinged & gasketed cover E Same as A, with thread adapter & cable gland fitting							fitting	
			CODE	Sensor   1000 Ω, Platinum, 2 wire, IEC 751, 385 Alpha, thin film Class A   1000 Ω, Platinum, 2 wire, IEC 751, 385 Alpha, thin film 1/3 DIN   1000 Ω, Platinum, 2 wire IEC 751, 385 Alpha, thin film, 1/10 DIN				
			18 48 22					
				CODE	Cable Len	gth	No. of Sensors	
				I J K L	1800 mm (6') 3600 mm (12') 6100 mm (20') 7300 mm (24')		(4 Sensors) (4 Sensors) (4 Sensors) (9 Sensors)	
					CODE	Output		
					A D E	4-20mA 0-5 Vdc 0-10 Vdc		
						CODE	Scaled Range	
						001 002 *	0 to 35°C (32 to 95°F) 0 to 50°C (32 to 122°F) Additional Ranges Available	
		↓	↓	↓	↓	ł		
		•	•	•	•			

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



#### **DIMENSIONS:**



Included with E style enclosure

Cable Gland Fitting



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.