

HIGH ACCURACY FLEX-DUCT AVERAGE **TEMPERATURE TRANSMITTER with LCD HATDDF Series**

The high accuracy flex-duct averaging temperature transmitter incorporates numerous precision platinum RTD's encapsulated at equal distances along a FT-6 plenum rated cable and is available in various lengths (see ordering chart). The sensing cable is constructed to provide excellent heat thransfer and fast response. A transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response for measurement of duct temperatures. A weatherproof Polycarbonate enclosure is provided for ease of installation. An LCD is provided in either °C or °F.



SPECIFICATIONS:

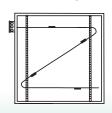
Sensor Type:	1000 ohm platinum RTD
· · · · · · · · · · · · · · · · · · ·	RTD Class A: ±0.15°C @ 0°C
Jerisor riceardey minimum	RTD 1/3 DIN: ±0.1°C @ 0°C
	RTD 1/10 DIN: ±0.03°C @ 0°C
Probe Sensing Range:	
Probe Wire Material:	
	1800 mm, 3600 mm, 6100 mm, 7300 mm
Standard lengths:	
0.11611	(6′, 12′, 20′, 24′)
Output Signai:	4-20 mA current loop, 0-5 vdc, or 0-10 vdc
	(factory configured)
,	±0.2% of span, including linearity
Power Supply:	15 to 30 Vdc, 12 to 28 Vac
Consumption (max):	20 mA for current, 11 mA for voltage
Protection Circuitry:	Reverse voltage protected and output limited
Ouput Drive @ 24 Vdc:	700 ohms max for current output,
	20K ohms min for voltage output
LCD Display Units:	°C or °F (factory configured)
Display Range:	3 digit for -88.8 to 888 as required
Display Size:	38.1mm W x 16.5 mm H (1.5" to 0.65")
Digit Height:	11.4 mm (0.45") plus °C/°F symbol
Ambient Operating Range:	0 to 50°C (32 to 122°F), 0-95 %RH
Enclosure:	Grey polycarbonate UL94-V0, IP65 (NEMA 4X)
	F style includes thread adapter (1/2" NPT to M16
	and cable gland fitting
Wiring Connections:	Screw terminal block (14 to 22 AWG)
Country of Origin:	Canada
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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 elements.

The enclosure provides mounting tabs for ease of installation.



PART NUMBER SELECTED

PRODUCT S	ELECTION	INFORMATION:

Display Units

MODEL	Product Description							
HATDDF	F High Accuracy Flexible Cable Duct Average Temperature Transmittter with Display							

CODE	Enclosure					
	Polycarbonate, with hinged & gasketed cover Same as B, with thread adapter & cable gland fitting					

C F		Celsius Fahrenheit			
		CODE	Sensor		
		18 48	1000 Ω , Platinum, wire 2, IEC 751, 385 Alpha, thin film, Class A 1000 Ω , Platinum, 2 wire, IEC 751, 385 Alpha, thin film, 1/3 DIN		
		22	1000 Ω, Platinum, 2 wire, IEC 751, 365 Alpha, thin film, 1/10 DIN		

CODE	Cabl	Cable Length				
J	3600	mm mm	12')			
K	1	6100 mm (20')				
	/300	7300 mm (24')				
	COI	DE	Output			
	A D E)	4-20 mA 2 or 3 wire 0-5 Vdc 3 wire 0-10 Vdc 3 wire		wire	
			со	DE	Scaled Range	
			00		0 to 35°C (32 to 95°F) 0 to 50°C (32 to 122°F)	

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

Wiring:

Function

Terminal PWR Power Supply

COM TEMP (2) Power Supply Common Temperature Sensor Input

NO COM Relay Output - Normally Open Contact Relay Common Relay Output - Normally Closed Contact

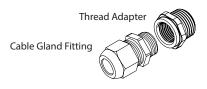








Included with F style enclosure





RoHS COMPLIANT



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.

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