#### REYSTON S **YS** TEMS

**HIGH ACCURACY RIGID DUCT AVERAGE TEMPERATURE TRANSMITTER with LCD HATDDR Series** 

The high accuracy multi-point rigid duct average temperature transmitter incorporates four precision platinum RTD's encapsulated in a 6 mm (0.236") OD, 304 stainless steel probe and is available in various lengths (see ordering chart). All probes provide excellent heat transfer, fast response and resist moisture penetration. A transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response is available with various ranges. A weatherproof Polycarbonate enclosure is included for ease of installation. An LCD is provided in either °C or °F (see ordering chart).

## **SPECIFICATIONS:**

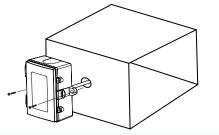
Sensor Type:	1000 ohm platinum RTD
Sensor Accuracy:	RTD Class A: ±0.15°C @ 0°C
	RTD 1/3 DIN: ±0.1°C @ 0°C
	RTD 1/10 DIN: ±0.03°C @ 0°C
Probe Sensing Range:	20 to 60°C (-4 to 140°F)
Wire Material:	PVC insulated, 22 AWG
Probe Material:	304 Series stainless steel
Probe Diameter:	6 mm (0.236")
Output Signal:	4-20 mA current loop, 0-5 vdc, or 0-10 vdc
	(factory configured)
Transmitter Accuracy:	±0.2% of span, including linearity
Power Supply:	15 to 30 Vdc, 12 to 28 Vac
Consumption (max):	22.5 mA (on open sensor)
Input Voltage Effect:	Negligible over specified operating range
Protection Circuitry:	Reverse voltage protected and output limited
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

## **TYPICAL INSTALLATION:**

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

The duct type probes are installed through a hole in the side of the duct to monitor a single point temperature within the duct. Since the probes are tip sensitive, select a probe length that places the sensor well into the duct. Install the probe 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.



#### PART NUMBER SELECTED

## **PRODUCT SELECTION INFORMATION:**

#### MODEL **Product Description**

HATDDR High Accuracy Rigid Duct Average Temperature Transmitter with Display

		со	DE	Enclosure											
		B		Polycarbonate, with hinged & gasketed cover Same as B, with thread adapter & cable gland fitting											
				со	DE	Display Units									
				C F		Celsius Fahrenheit									
						со	DE	Sens	or						
						4	8 8 2	1000 Ω, Platinum, wire 2, IEC 751, 385 Alpha, thin film, Clas 1000 Ω, Platinum, 2 wire, IEC 751, 385 Alpha, thin film, 1/3 1000 Ω, Platinum, 2 wire, IEC 751, 385 Alpha, thin film, 1/1			Alpha, thin film, 1/3 DIN				
5)								со	DE	Probe Length					
								(	F 450 mm (18")   G 600 mm (24")   H 900 mm (36")						
										CODE	Adjustabl	e Setpoint Range			
									A D E	4-20 mA 2 0-5 Vdc 3 v 0-10 Vdc 3	vire				
											CODE	Scaled Range			
											001 002	0 to 35°C (32 to 95°F) 0 to 50°C (32 to 122°F)			
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Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

Wiring: Terminal Function Power Supply Power Supply Common TEMP (2) Temperature Sensor Input

**PWR** COM

NO

COM NC

Relay Output - Normally Open Contact Relay Common Relay Output - Normally Closed Contact

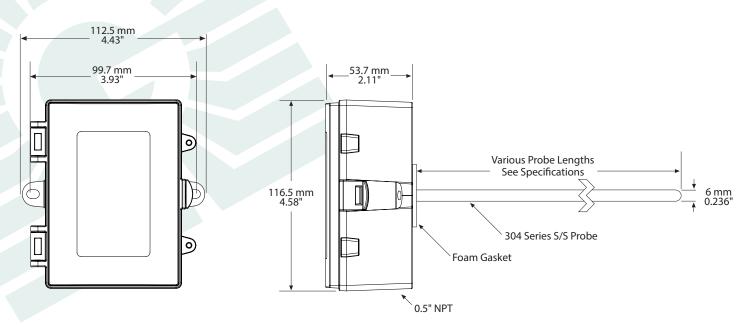




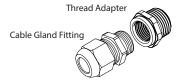


GREYSTONE ENERGY SYSTEMS, INC.

# **DIMENSIONS:**



Included with F style enclosure





#### **ENERGY SYSTEMS INC** Greystone Energy Systems, Inc. 150 English Drive, Moncton, New Brunswick, Canada E1E 4G7

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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.

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM