

# HIGH ACCURACY ALL PURPOSE TEMPERATURE TRANSMITTER **HATXAP Series**

The high accuracy all purpose single point temperature sensor utilizes a precision sensor encapsulated in a 6 mm (0.236") OD, 304 series stainless steel probe and is available in various lengths (see ordering chart). All probes provide excellent heat transfer, fast response and resistance to 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 is provided.

### **SPECIFICATION:**

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 105°C (-4 to 221°F)	
Wire Material	PVC insulated, parallel bonded, 22 AWG	PAF
Probe Material	304 Series Stainless Steel	
Probe Diameter	6 mm (0.236")	
Standard Lengths	50, 100, 150, 200, 300, 450 mm	
	(2", 4", 6", 8", 12", 18")	
Output Signal	4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc	PR
	(factory configured)	
Transmitter Accuracy	±0.1% of span, including linearity	M
4-20 mA loop power supply	15-35 Vdc or 22-32 Vac	НА
Minimum Loop Current	2 mA nominal (occurs with shorted sensor)	117
Maximum Loop Current	22.5 mA nominal (occurs with open sensor)	
Maximum Loop Load		
0-5 Vdc Power Supply	10-35 Vdc or 10-32 Vac	
0-10 Vdc Power Supply		
Maximum Current (Voltage)		
	Limited to <5.5 Vdc for 0-5 Vdc, <10.5 for 0-10 Vc	lc
	Negligible over specified operating range	
	Reverse voltage protected and output limited	
, , ,	0 to 50°C (32 to 122°F), 0 to 95% RH non-conder	ising
Enclosure	ABS - UL94-V0, IP65 (NEMA4X)	
	E - includes thread adapter 1/2" NPT to M16),	
	and cable gland fitting	
3	Screw terminal block (14 to 22 AWG)	
Country of Origin	Canada	

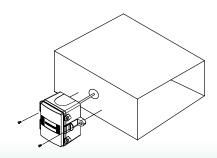
<sup>\*</sup>This product is factory calibrated and any field adjustment will void the warranty.

#### TYPICAL INSTALLATION:

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

The 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**

## DRODUCT SELECTION INFORMATION.

PRODUCT SELECTION IN ORMATION.		
	MODEL	Product Description
	HATXAP	High Accuracy All Purpose Duct/Immersion Temperature Transmitter

CODE	Enclosure
A	ABS, with hinged & gasketed cover
E	Same as A, with thread adapter & cable gland fitting

CODE	Sensor
18 48 22	1000 $\Omega$ , Platinum, wire 2, IEC 751, 385 Alpha, thin film, Class A 1000 $\Omega$ , Platinum, 2 wire, IEC 751, 385 Alpha, thin film, 1/3 DIN 1000 $\Omega$ , Platinum, 2 wire, IEC 751, 385 Alpha, thin film, 1/10 DIN

COL	ÞΕ	Cable Length	
Α		50 mm (2")	
В		100 mm (4")	
C		150 mm (6")	
D		200 mm (8")	
E		300 mm (12")	
F		450 mm (18")	
		CODE	Output
		Α	4-20mA

0-5 Vdc

0-10 vac		
CODE	Scaled Range	
001 002 003 006 *	0 to 35°C (32 to 95°F) 0 to 50°C (32 to 122°F) 0 to 100°C (-58 to 212°F) -50 to 50°C (-58 to 122°F) Additional Ranges Available	

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

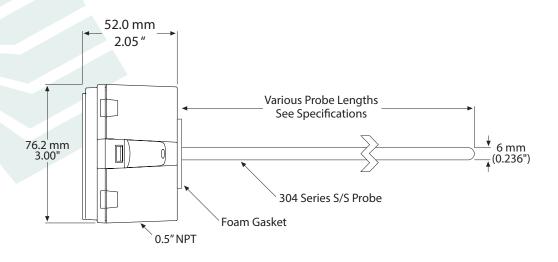




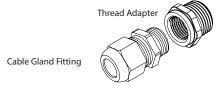








Included with E style enclosure





# GREYSTONE

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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.