

HIGH ACCURACY DUCT TEMPERATURE TRANSMITTER HATXBM Series

The HATXBM single point duct temperature transmitter incorporates a high accuracy platinum RTD encapsulated in a 6.35 mm (0.25") OD, 304 stainless steel probe and is available in various lengths . 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 provided.



SPECIFICATION:

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Sensor	1000 ohm Platinum RTD
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	2 Wire - PVC insulated, parallel
	bonded
	3 Wire - FT4
Probe Material	304 Series Stainless Steel
Probe Dimension	6.35 mm (0.25") Diameter
Output Signal	4-20mA current loop, 0-5 Vdc, or
	0-10 Vdc (factory configured)
Transmitter Accuracy	±0.125% of span, including
	linearity
4-20 mA loop power Supply	15-35 Vdc or 22-32 Vac
Minimum Current Loop	2 mA nominal (occurs with
	shorted sensor)
Maximum loop Current	22.5 mA nominal (occurs with
	open sensor)
Maximum Loop Load	>600 ohms
0-5 Vdc Power Supply	10-35 Vdc or 10-32 Vac
0-10 Vdc Power Supply	15-35 Vdc or 15-32 Vac
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 Effect	Negligible over specified
	operating range
RFI rejection	Good RFI rejection of normal
	frequencies
Protection Circuitry	Reverse voltage protected and
	output limited
Ambient Operating Range	-40 - 85°C (-40 - 185°F),
	0-95% RH non-condensing
Enclosure	(E)-ABS, UL94-5VB, IP65 (NEMA 4X)
	(P)- PVC, IP65 (NEMA 4X)
Wiring Connections	Screw terminal block
	(14 to 22 AWG)

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

NUU	UC I				10	-			MIN	110	711.		
MODEL		Product Description											
HATXBM	High A	gh Accuracy Duct Temperature Transmitter											
	CODI	E	Enclosure Round ABS, with gasket cover										
	Р		PVC Weatherproof										
	CODE Sensor												
		18 1000Ω Platinum, 2 wire, IEC 751, 385 Alpha, thin film, Class A 48 1000Ω Platinum, 2 wire, IEC 751, 385 Alpha, thin film, 1/3 DI 22 1000Ω Platinum, 2 wire IEC 751, 385 Alpha, thin film, 1/10 DI 41 1000Ω Platinum, 3 wire, IEC 751, 385 Alpha, thin film, Class A 50 1000Ω Platinum, 3 wire, IEC 751, 385 Alpha, thin film, 1/3 DI 49 1000Ω Platinum, 3 wire, IEC 751, 385 Alpha, thin film, 1/10 D									35 Alpha, thin film, 1/3 DIN 5 Alpha, thin film, 1/10 DIN 35 Alpha, thin film, Class A 35 Alpha, thin film, 1/3 DIN		
			CODE Probe Length										
					A 50 mm (2") B 100 mm (4") C 150 mm (6") D 200 mm (8")								
					E 300 mm (12") F 450 mm (18")								
							co	DE	Outp	ut			
							P	١	4-20				
							D E		0-5 Vdc 0-10 Vdc				
							E 0-10 vac						
									COI	DE	Output		
									1		0-35°C (32-95°F)		
									2 3		0-50°C (32-122°F) 0-100°C (32-212°F)		
									6		-50-50°C (-58-122°F)		
									*		Custom Ranges Available		
								'					
*	▼		1	7		7	1	7	•	7			

*CUSTOM SCALED TEMPERATURE RANGE











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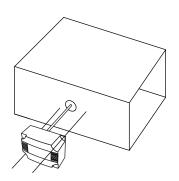
TYPICAL INSTALLATION:

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

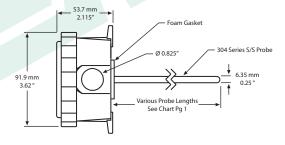
The duct type probes are installed through a hole in the side of the duct to monitor a single point temperature within the duct. Since the probes are tip sensitive, select a probe length that places the sensor well into the duct. Install the probe in a straight section of duct at a suitable distance downstream from any heating, cooling or humidification devices.

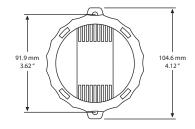
Each enclosure style provides mounting tabs or holes for ease of installation.

DIMENSIONS:

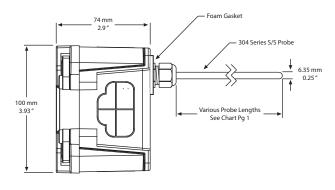


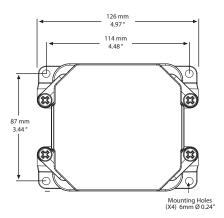
Round ABS Enclosure (E)





PVC Enclosure (P)





 $\label{thm:constraints} \textit{Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.}$



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.