HIGH ACCURACY TEMPERATURE TRANSMITTERS HATX Series

Precision temperature sensing/control

FEATURES:

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- High Accuracy RTD sensing element
- Choice of scaled ranges and outputs
- Various enclosure styles
- Various configurations
- Custom laser etching available



Peace of mind through reliable temperature monitoring

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

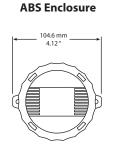
HATX - TEMPERATURE TRANSMITTER CONFIGURATIONS

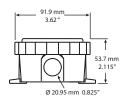
SPECIFICATIONS:

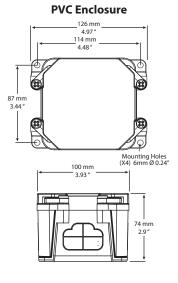
Sensor	. 1000 ohm Platinum RTD	Out
Sensor Accuracy		Trai 4-2
Probe sensing Range	.BM, CN, SO, GL, RP, DR: -20 to 105°C (-4 to 221°F) DC, DF, FL, RN: -20 to 60°C (-4 to 140°F) OS: -40 - 85°C (-40 - 185°F)	Mir Ma
Wire Material	.BM, CN, SO, GL, OS, RP: PVC insulated, parallel bonded DF, DC, FL, RN, RS: FT-6 Plenum Rated Cable DR: KYNAR, PVDF, 28 AWG	Ma: 0-5 0-1 Ma:
Wire length	. FL: 1.83 m (6′) RN, GL: 1.524 m (5′)	Ma
Probe Material	.BM, CN, DR, RP, RN: 304 series stainless steal SO, GL: Aluminum plate w/ compressible foam backing DC: Soft copper	lnp RFI
Probe Dimension	6.35 mm (0.25") Diameter S0: 38.1 mm (1.5") Square DC: 7.94 mm (0.3125") Diameter	Pro Am
	GL: 31.75 x 9.525 x 9.525 mm (1.25" x 0.375" x 0.375")	Enc
Fitting Size	.1/2″ NPT	Wir
Fitting Material	.Nylon	

	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
	(E) ABS, UL94-V0, IP65 (NEMA 2) (P)-PVC, IP65 (NEMA 4X)
Wiring Connections	Screw terminal block

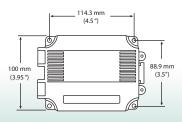
ENCLOSURE DIMENSIONS:

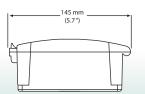






ABS Weatherproof Enclosure (OS Only)









PRODUCT ORDERING INFORMATION:

MODEL	Product Description					
НАТХ						
	CODE	Mounti	ng Style			
	BM Duct DC Duct average, copper probe DF Duct average, flexible cable DR Duct average, rigid stainless steel probe CN Immersion, Nylon Fitting, 1/2" NPT RN Immersion w/Remote Probe, Nylon Fitting, 1/2" NPT SO Strap-on - Remote Probe SO Strap-on - Assembly clamps around pipe with aluminum plate c/w 254 mm (10") stainless clamp OS Outside Air FL Flying lead GL Glass					
		Glass				
		CODE	Enclosu	ıre		
		E	ABS Enc			
		P		atherproo	f	
				_		
			CODE	Sensor		
			18			C 751, 385 Alpha, thin film, Class A
			48	1000 Ω	Platinum, 2 Wire, I	EC 751, 385 Alpha, thin film, 1/3 DIN
			22 41			C 751, 385 Alpha, thin film, 1/10 DIN C 751, 385 Alpha, thin film, Class A
	41 1000 Ω Platinum, 3 Wire, IEC 751, 385 Alpha, thin film, Class A 49 1000 Ω Platinum, 3 Wire, IEC 751, 385 Alpha, thin film, 1/3 DIN				EC 751, 385 Alpha, thin film, 1/3 DIN	
	50 1000 Ω Platinum, 3 Wire, IEC 751, 385 Alpha, thin film, 1/10 DIN				C 751, 385 Alpha, thin film, 1/10 DIN	
				CODE A B C D E F G H I J K L	Probe Length 50 mm (2") 100 mm (4") 150 mm (6") 200 mm (8") 300 mm (12") 450 mm (18") 600 mm (24") 900 mm (36") 1800 mm (6') 3600 mm (12') 6100 mm (20') 7300 mm (24")	Lengths are applicable to these Mounting Styles BM, RP, RN & CN BM, RP, RN & CN BM, RP, RN & CN BM, RP, RN & CN BM BM, DR DR DR DC, DF DC, DF DC, DF DC, DF
				<u> </u>		
					D 0-5 VDC	2 or 3 wire
					CODE	Scaled Range
					1	0°C - 35°C (32°F - 95°F)
						0°C - 50°C (32 F - 122 F)
					3	0°C - 100°C (32°F - 212°F)
					6	-50°C - 50°C (-58°F - 122°F)
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HATX	BM	С	18	E	A 2	
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FEATURES:

The HATX temperature transmitters offer a platinum RTD's with transmitter which can be interfaced with a computerized monitoring or control system. A wide variety of configurations are available such as:

BM & BB) Duct Sensor – The BM & BB is for single point monitoring. Both are available with various probe lengths. The BM has various enclosures available and the BB provides a mounting bracket for installation.



CN & RN) Immersion Sensor – The CN & RN have a 1/2" NPT fitting to be mounted into a thermowell. The RN is provided with 1.524 (5) of cable for remote mounting of the probe. It is available in various lengths and enclosures.



DF, DC & DR) Duct Averaging Sensor – All models incorporate numerous sensors along the assembly and act as a single sensor averaging the temperature across the sensors. They are available in various lengths. The DF flexible multi-point duct average temperature sensor utilizes several high accuracy sensors space at equal distances. The DC series multi-point average duct temperature sensor utilizes several high accuracy sensors space at equal distances and encapsulated in a 7.94 mm (0.3125") OD, soft copper probe. The DR is a constructed of rigid stainless steel. Various enclosures are available.



RP & SO) Strap-on Sensor – The RP single point strap-on temperature sensor utilizes a high accuracy sensor encapsulated in a 6.35 mm (0.25") OD, 304 stainless steel probe. The SO single point strap-on temperature sensor has a high accuracy sensor bonded to a 38 mm x 38 mm (1.5"x 1.5") aluminum plate and adhered to a 38 mm x 25.4 mm (1.5 x 1") compressible foam.





OS) OSA Sensor – The OS, single point outside air temperature sensor utilizes a high accuracy sensor. All probes are constructed to provide excellent heat transfer, fast response and are potted to resist moisture penatration.



GL) Glass – The GL single point glass temperature sensor utilizes a high accuracy sensor encapsulated in a 31.75mm L x 9.525mm W x 9.525 mm H (1.25" x .375" x .375") Aluminum probe.

GL)





OS)

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 **FL) Flying Lead** – FL single point flying lead temperature sensor utilizes a high accuracy sensor encapsulated in 6.35 mm (0.25") OD X 50 mm (2"), 304 series stainless steal probe.





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.