

# **HIGH ACCURACY REMOTE IMMERSION** TEMPERATURE TRANSMITTER **HATXR** Series

The HATXR is single point immersion temperature transmitter with remote probe for chilled water applications. It 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 (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.

#### PART NUMBER SELECTED

мс HA

#### **SPECIFICATION:**

Sensor	
Accuracy	
<b>RTD 1/3 DIN:</b> ±0.1°C @ 0°C	
<b>RTD 1/10 DIN:</b> ±0.03°C @ 0°C	
Probe sensing Range	
Wire Material	
Wire Length	
Probe Material	
Probe Dimension	
Fitting Size1/2"NPT	
Fitting MaterialNylon	
Output Signal	
0-10 Vdc (factory configured)	
Transmitter Accuracy	
linearity	
4-20 mA loop power Supply. 15-30 Vdc or 22-28 Vac	
Minimum Current Loop2 mA nominal (occurs with	
shorted sensor)	
Maximum loop Current22.5 mA nominal (occurs with	
open sensor)	
Maximum Loop Load>600 ohms	
0-5 Vdc Power Supply10-30 Vdc or 10-28 Vac	
0-10 Vdc Power Supply15-30 Vdc or 15-28 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 EffectNegligible over specified	
operating range	
RFI rejectionGood RFI rejection of normal	
frequencies	
Protection CircuitryReverse voltage protected and	
output limited	
Ambient Operating Range20 - 60°C (-4 - 140°F), 0-95% RH	
non-condensing	
Enclosure (E)-ABS, UL94-5VB, IP65 (NEMA 4X)	
(P)- PVC, IP65 (NEMA 4X)	
Wiring ConnectionsScrew terminal block	
(14 to 22 AWG)	

### PR

RN		Product Description High Accuracy Remote Probe Immersion Temperature Transmitter with Nylon Fitting						
	CODE	Enclosure						
E Round ABS, with gasket cover P PVC Weatherproof								
		CODE	Sensor					
<b>18</b> 1000 Ω Platinum, 2 wire, IEC 751, 385 Alpha,					Alpha, thin film, Class A			
<ul> <li>48 1000 Ω Platinum, 2 wire, IEC 751, 385 Alpha, thin film, 1/</li> <li>22 1000 Ω Platinum, 2 wire IEC 751, 385 Alpha, thin film, 1/1</li> <li>41 1000 Ω Platinum, 3 wire, IEC 751, 385 Alpha, thin film, Cl</li> </ul>								
							501000 ΩPlatinum, 3 wire, IEC 751, 385 Alpha, thin film,91000 ΩPlatinum, 3 wire, IEC 751, 385 Alpha, thin film,	
5 Alpha, thin film, 1/10 DIN								
			CODE	Probe Ler	ngth			
<b>A</b> 50 mm (2")								
	B 100 mm (4″) C 150 mm (6″)							
	C 150 mm (6") D 200 mm (8")							
				_				
				CODE	Output			
				1A 1D	4-20 mA 0-5 Vdc			
				1E	0-10 Vdc			
					CODE	Scaled Range		
					1	0° - 35°C (32° - 95°F)		
					2	0° - 50°C (32° - 122°F)		
					3	0° - 100°C (32° - 212°F) Custom range, please		
						contact Greystone		
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**\*CUSTOM SCALED TEMPERATURE RANGE** 





### **TYPICAL INSTALLATION:**

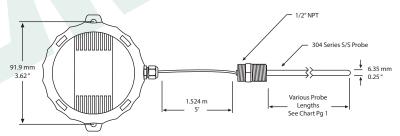
For complete installation and wiring details, please refer to the product installation instructions.

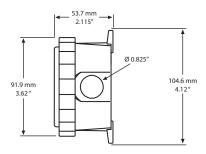
NOTE: All immersion sensors require a thermowell (sold separately)

The immersion type probes are installed in the appropriate length thermowell for the pipe size. Thermal conductive compound should be added inside the thermowell to provide optimum thermal transfer.

## **DIMENSIONS:**

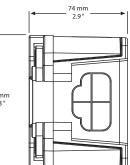
#### **Round ABS Enclosure (E)**





Thermowell placement in pipe

#### **PVC Enclosure (P)** 126 mm 4.97 114 mm 74 mm 2.9" 4.48 1/2" NPT 304 Series S/S Probe 6.35 mm 0.25 " 87 mm 100 mm :##FMM 3.44 3.93 " Various Probe 1.524 m Lengths See Chart Pg 1 Mounting Holes (X4) 6mm Ø 0.24



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



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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