

HIGH ACCURACY
IMMERSION
TEMPERATURE
TRANSMITTER WITH LCD
HATLCN Series

The HATLCN single point immersion 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. The transmitter provides a high accuracy signal with excellent long term stability, low hysteresis and fast response. It is available with various scaled ranges. A LCD is provided in either °C or °F.



# **SPECIFICATION:**

Sensor	1000 ohm Platinum RTD
Accuracy	<b>RTD Class A:</b> ±0.15°C @ 0°C
•	<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	-20 to 105°C (-4 to 221°F)
Wire Material	
	bonded
Probe Material	
Probe Dimension	6.35 mm (0.25") Diameter
Fitting Thread Size	
Output Signal	4-20mA current loop, 0-5 vdc,
	or 0-10 Vdc (factory configured)
Transmitter Accuracy	±0.25% of span, including
•	linearity
Power Supply	<b>4-20 mÁ:</b> 15-35 Vdc or 22-32 Vac
,	<b>0-5 Vdc:</b> 10-35 Vdc or 10-32 Vac
	<b>0-10 Vdc:</b> 15-35 Vdc or 15-32 Vac
Consumption	Current: 22.5 mA Max
	(On open sensor)
	<b>Voltage:</b> 5 mA nominal
Input Voltage Effect	
	operating range
RFI rejection	Good RFI rejection of normal
	frequencies
Protection Circuitry	
	and output limited
Display Units	
Display Range	3
	necessary
Display Size	
	(0.95" x 0.45")
Ambient Operating Range	
	0-95% RH non-condensing
Enclosure	Grey ABS, UL94-V0, IP65 (NEMA 4X)
Wiring Connections	
	(14 to 22 AWG)

#### **PART NUMBER SELECTED**

# **PRODUCT SELECTION INFORMATION:**

MODEL	Product Description
HATLCN	High Accuracy Immersion Temperature Transmitter, with LCD Display

LCIV	Thigh Accuracy minitersion temperature transmitter, with ECD Display										
	CODE	LCD Displ	LCD Display  LCD display *C  LCD display *F								
	C F										
		CODE	Sensor $1000 \ \Omega \ \text{Platinum, IEC } 751, 385 \ \text{Alpha, thin film, Class A} \\ 1000 \ \Omega \ \text{Platinum, IEC } 751, 385 \ \text{Alpha, thin film, } 1/10 \ \text{DIN} \\ 1000 \ \Omega \ \ \text{Platinum, IEC } 751, 385 \ \text{Alpha, thin film, } 1/3 \ \text{DIN}$								
		18 22 48									
			CODE Probe Length								
			A B C D	A 50 mm (2") B 100 mm (4") C 150 mm (6")							
				со	CODE Output						
				, [	)	4-20 mA 0-5 VDC 0-10 VDC	:				
						CODE	Scaled Range				
						1 2 3	0 - 35°C (32 - 95°F) 0 - 50°C (32 - 122°F) 0 - 100°C (32 - 212°F)				





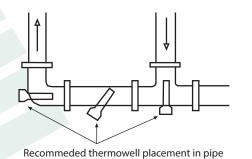


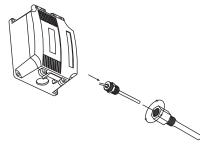
#### **TYPICAL INSTALLATION:**

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

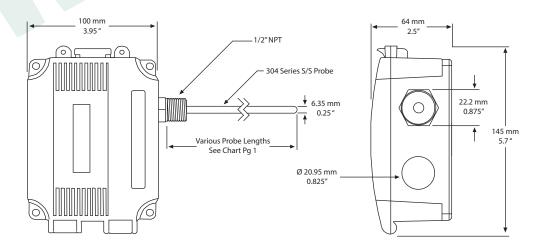
# NOTE: All immersion sensors require a thermowell (sold separately)

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.

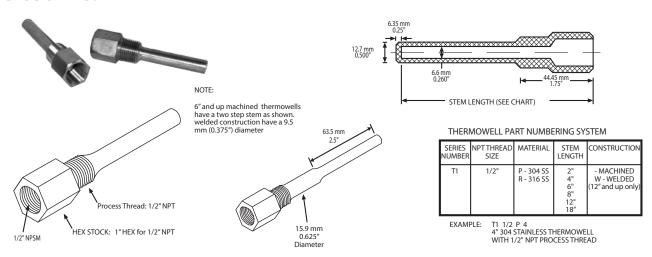




# **DIMENSIONS:**



# **ACCESSORIES:**



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.