GREYSTONE
ENERGY SYSTEMS INC

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.

SPECIFICATION:

Sensor	1000 ohm Platuinum 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 60˚C (-4 to 140˚F)
Wire Material	FT-6 Rated Plenum Cable 22 AWG
Wire Length	1.524 m (5')
Probe Material	304 Series Stainless Steel
Probe Dimension	6.35 mm (0.25") Diameter
Fitting Size	1/2" NPT
Fitting Material	Nylon
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	15-30 Vdc or 22-28 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	10-30 Vdc or 10-28 Vac
0-10 Vdc Power Supply	15-30 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 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	-20 - 60˚C (-4 - 140˚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:

MODEL	Product Description
HATXRN	High Accuracy Remote Probe Immersion Temperature Transmitter with Nylon Fitting

CODE	Enclosure
E	Round ABS, with gasket cover
P	PVC Weatherproof

CODE	Sensor
18	1000 Ω Platinum, 2 wire, IEC 751, 385 Alpha, thin film, Class A
48	1000 Ω Platinum, 2 wire, IEC 751, 385 Alpha, thin film, 1/3 DIN
22	1000 Ω Platinum, 2 wire IEC 751, 385 Alpha, thin film, 1/10 DIN
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
50	1000 Ω Platinum, 3 wire, IEC 751, 385 Alpha, thin film, 1/10 DIN

CODE	Probe Length
A	50 mm (2")
B	100 mm (4")
C	150 mm (6")
D	200 mm (8")

CODE	Output
A	4-20 mA
D	0-5 Vdc
E	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

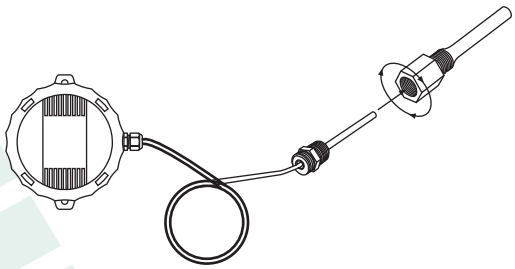
***CUSTOM SCALED TEMPERATURE RANGE**

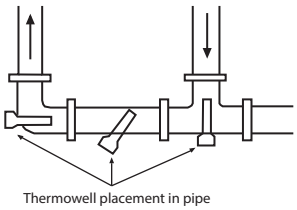
TYPICAL INSTALLATION:

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

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

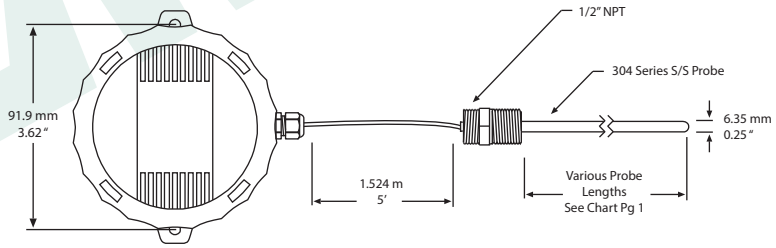
The immersion type probes are installed in the appropriate length thermowell for the pipe size. Thermal conductive compound should be added inside the thermowell to provide optimum thermal transfer.

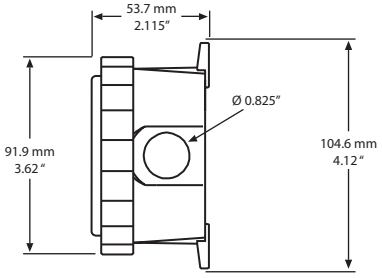




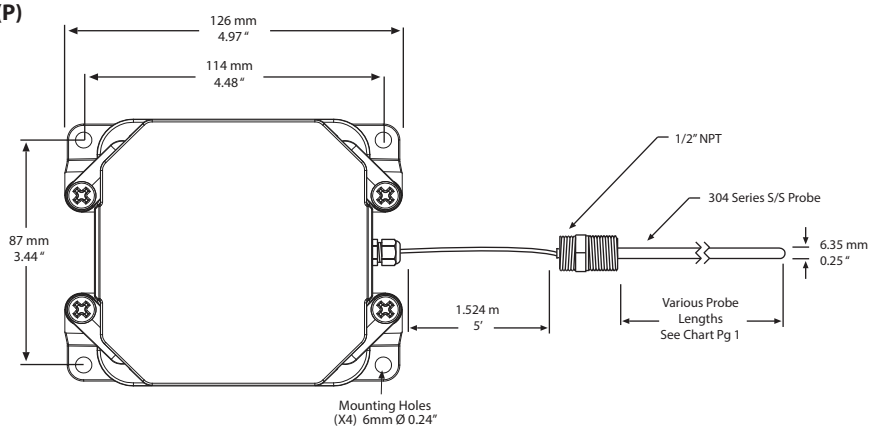
DIMENSIONS:

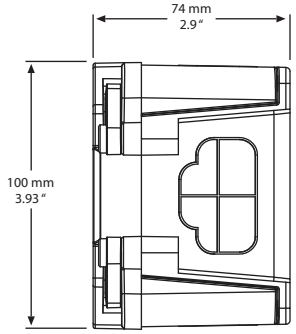
Round ABS Enclosure (E)





PVC Enclosure (P)





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

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RoHS COMPLIANT

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 leading-edge 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

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