



HIGH ACCURACY RIGID DUCT AVERAGE TEMPERATURE TRANSMITTER HATXDR Series

The HATXDR series multi-point rigid duct average temperature transmitter incorporates numerous high accuracy platinum RTD's at equal distances and encapsulated in a 6.35 mm (0.25") OD, 304 series stainless steel probe. Several probe lengths are available. 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 Platinum RTD 385 Alpha @ 0°C
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.....	KYNAR, PVDF, 28 AWG
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.....	(B)-ABS, UL94-5VB, IP65 (NEMA 4X) (C)- PVC, IP65 (NEMA 4X)
Wiring Connections.....	Screw terminal block (14 to 22 AWG)

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
HATXDR	High Accuracy Rigid Duct Average Temperature Transmitter

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
F	450 mm (18")
G	600 mm (24")
H	900 mm (36")

CODE	Output
A	4-20mA
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)
*	Custom range, please contact Greystone

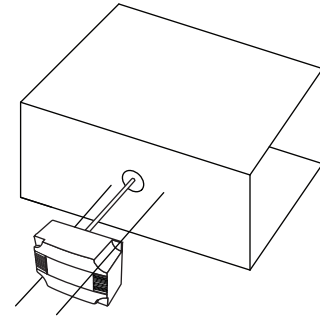
*CUSTOM SCALED TEMPERATURE RANGE

TYPICAL INSTALLATION:

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

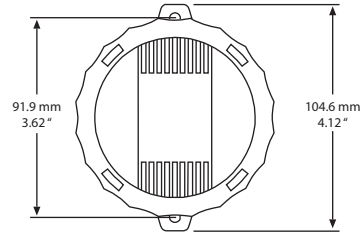
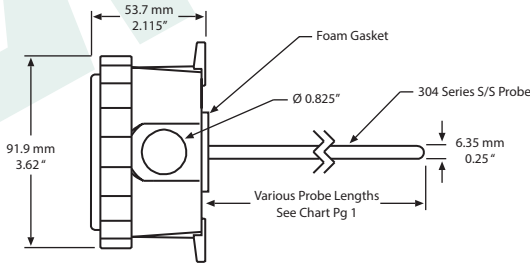
The duct type probes are installed through a hole in the side of the duct to monitor a single point temperature within the duct. Since the probes are tip sensitive, select a probe length that places the sensor well into the duct. Install the probe in a straight section of duct at a suitable distance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

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

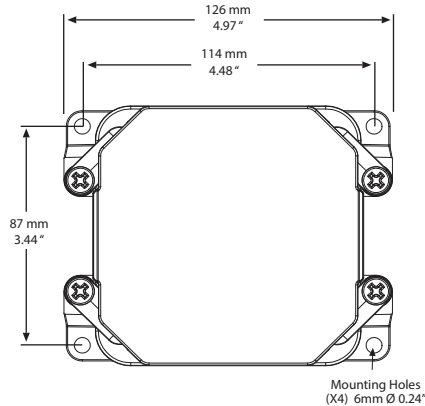
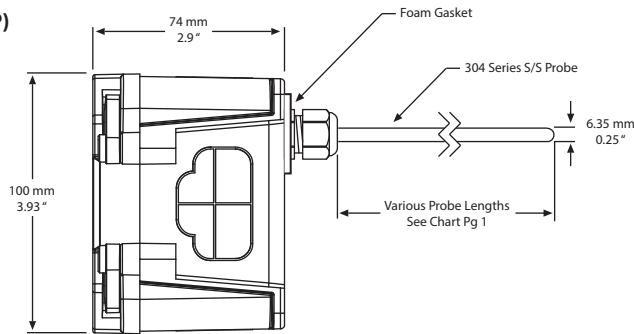


DIMENSIONS:

Round ABS Enclosure (E)



PVC Enclosure (P)



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RoHS
COMPLIANT



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