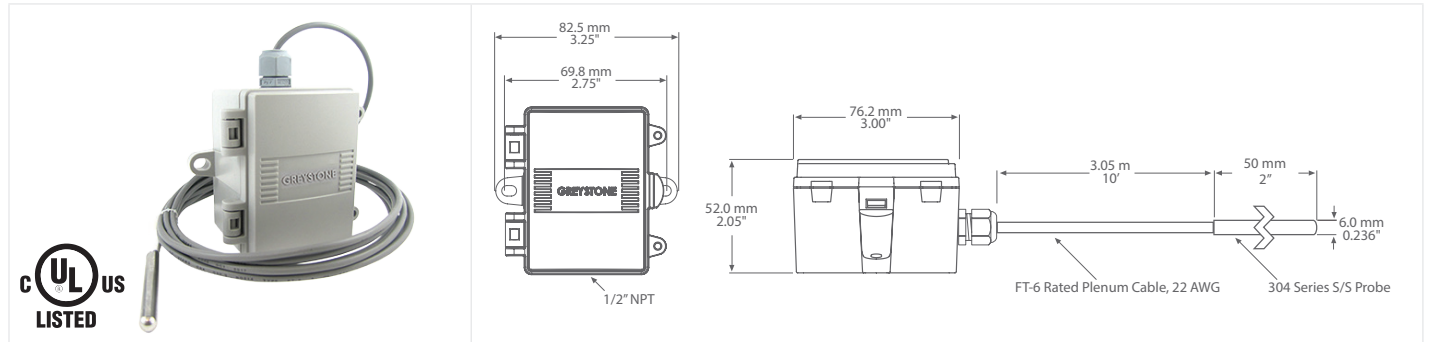




## HIGH ACCURACY FLYING LEAD TEMPERATURE TRANSMITTER



### HATXFL SERIES

## PRODUCT DESCRIPTION

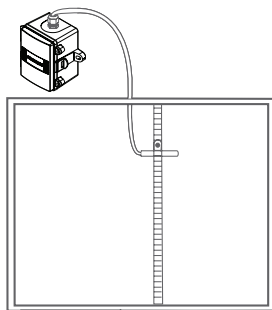
The high accuracy single point flying lead temperature transmitter utilizes a precision sensor encapsulated in 6.00 mm (0.236") OD X 50 mm (2"), 304 series stainless steel probe. Standard wire length is 3.05 m (10'). All probes are constructed to provide excellent heat transfer, fast response, and are potted to resist moisture penetration. A transmitter that provides a high precision signal with excellent long term stability, low hysteresis and fast response is provided.

## TYPICAL INSTALLATION

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

A typical application for the flying lead type probes is to monitor a single point temperature within the duct. Install the probe in a straight section of duct at a suitable distance downstream from any heating, cooling, or humidification devices. Drill a 3/8" hole in the top of the duct and hang the sensor in the air-stream.

The enclosure provides mounting holes for ease of installation



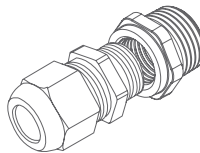
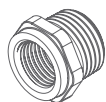
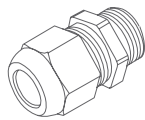
## SPECIFICATIONS

SENSOR TYPE	1000Ω Platinum, IEC 751, 385 Alpha, thin film
SENSOR ACCURACY	<b>RTD Class A:</b> $\pm 0.15^{\circ}\text{C}$ ( $\pm 0.27^{\circ}\text{F}$ ) @ $0^{\circ}\text{C}$ ( $32^{\circ}\text{F}$ ) <b>RTD 1/3 DIN:</b> $\pm 0.1^{\circ}\text{C}$ ( $\pm 0.18^{\circ}\text{F}$ ) @ $0^{\circ}\text{C}$ ( $32^{\circ}\text{F}$ ) <b>RTD 1/10 DIN:</b> $\pm 0.03^{\circ}\text{C}$ ( $\pm 0.054^{\circ}\text{F}$ ) @ $0^{\circ}\text{C}$ ( $32^{\circ}\text{F}$ )
PROBE SENSING RANGE	-40 to $60^{\circ}\text{C}$ (-40 to $140^{\circ}\text{F}$ )
WIRE MATERIAL	FT-6 rated plenum cable, 22 AWG
WIRE LENGTH	3.05 m (10')
PROBE MATERIAL	304 series stainless steel
PROBE DIMENSIONS	6mm (0.236") diameter x 50mm (2") long
OUTPUT SIGNAL	4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc (factory configured)
TRANSMITTER ACCURACY	$\pm 0.1\%$ of span, including linearity
OUTPUT DRIVE @ 24 VDC	<b>Current:</b> 600Ω maximum <b>Voltage:</b> 10 KΩ minimum
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
PROTECTION CIRCUITRY	Reverse voltage protected and output limited
AMBIENT OPERATING RANGE	-40 to $60^{\circ}\text{C}$ (-40 to $140^{\circ}\text{F}$ ), 0 to 95 %RH non-condensing
ENCLOSURE	<b>A:</b> ABS, UL94-V0, IP65 (NEMA 4X) <b>E:</b> Same as A, with thread adapter (1/2" NPT to M16) and cable gland fitting
TERMINATION	Terminal block (14 to 22 AWG)
PROTECTION CLASS	III
POWER SOURCE UL	0-5 Vdc: 10-35 Vdc or 10-28 Vac SELV (Class 2) 0-10 Vdc: 15-35 Vdc or 15-28 Vac SELV (Class 2) 4-20 mA: 15-35 Vdc (loop-powered) or 22-28 Vac Limited Energy, <15W
CONSUMPTION	Current @ 20 mA Voltage @ 5 mA
EU CONFORMITY	CE
CERTIFICATION	UL 60730 & CSA E60730
UL 2043 / CSA / ULC S142 COMPLIANT	Suitable for Use in Air Handling Spaces in Accordance with Section 300.22, (C) of the National Electrical Code
PURPOSE OF CONTROL	Operating Control
TYPE OF ACTION	Type 1
IMPULSE VOLTAGE	330V
POLLUTION DEGREE	2
COUNTRY OF ORIGIN	Canada

NOTE: This product is factory calibrated and any field adjustment will void the warranty.



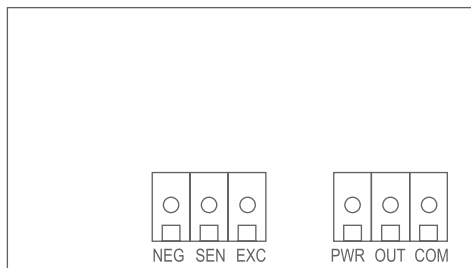
## ACCESSORIES - INCLUDED WITH E ENCLOSURE OPTION



CABLE GLAND FITTING

THREAD ADAPTER 1/2" NPT TO M16

## WIRING INFORMATION



### TERMINAL

PWR  
OUT  
COM

NEG  
SEN  
EXC

### FUNCTION

Power Supply  
Analog Output  
Common

Temperature Sensor Input

## ORDERING

PRODUCT	<b>HATXFL</b>	High Accuracy Flying Lead Temperature Transmitter
ENCLOSURE	<b>A</b> <b>E</b>	ABS, with hinged and gasketed cover Same as A, with thread adapter (1/2" NPT to M16) and cable gland fitting
SENSOR	<b>18X</b> <b>48X</b> <b>22X</b>	1000 $\Omega$ Platinum, IEC 751, 385 Alpha, thin film, Class A 1000 $\Omega$ Platinum, IEC 751, 385 Alpha, thin film, 1/3 DIN 1000 $\Omega$ Platinum, IEC 751, 385 Alpha, thin film, 1/10 DIN
OUTPUT	<b>A</b> <b>D</b> <b>E</b>	4-20mA 0-5 Vdc 0-10 Vdc
SCALED RANGE	<b>001</b> <b>002</b> <b>*</b>	0 to 35°C (32 to 95°F) 0 to 50°C (32 to 122°F) Additional ranges available

## PART NUMBER

<b>HATXFL</b>

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