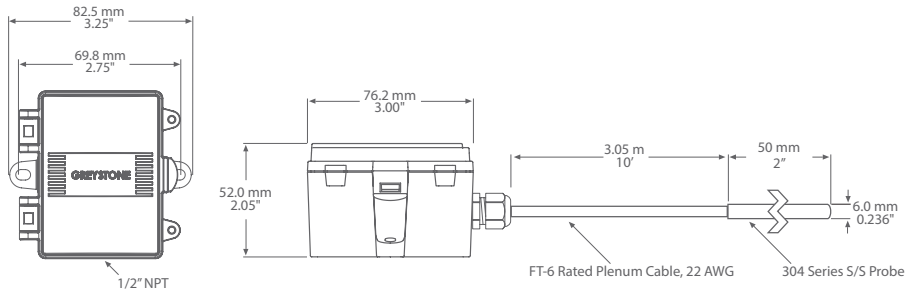
GREYSTONE
ENERGY SYSTEMS INC

HIGH ACCURACY FLYING LEAD TEMPERATURE TRANSMITTER



HATXFL SERIES

PRODUCT DESCRIPTION

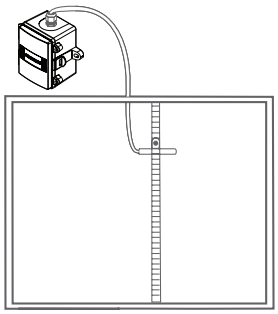
The high accuracy single point flying lead temperature transmitter utilizes a precision sensor encapsulated in 6.00 mm (0.236") OD X 50 mm (2"), 304 series stainless steel probe. Standard wire length is 3.05 m (10'). All probes are constructed to provide excellent heat transfer, fast response, and are 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

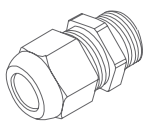


SPECIFICATIONS

SENSOR TYPE	1000Ω Platinum, IEC 751, 385 Alpha, thin film
SENSOR ACCURACY	**RTD Class A:** ±0.15°C (±0.27°F) @ 0°C (32°F) **RTD 1/3 DIN:** ±0.1°C (±0.18°F) @ 0°C (32°F) **RTD 1/10 DIN:** ±0.03°C (±0.054°F) @ 0°C (32°F)
PROBE SENSING RANGE	-40 to 60°C (-40 to 140°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	±0.1% of span, including linearity
OUTPUT DRIVE @ 24 VDC	**Current:** 600Ω maximum **Voltage:** 10 KΩ minimum
POWER SUPPLY	**0-5 Vdc:** 10-35 Vdc or 10-28 Vac **0-10 Vdc:** 15-35 Vdc or 15-28 Vac **4-20 mA:** 15-35 Vdc (Loop-powered) or 22-28 Vac
CURRENT CONSUMPTION	**Current:** 20 mA **Voltage:** 5 mA
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
PROTECTION CIRCUITRY	Reverse voltage protected and output limited
AMBIENT OPERATING RANGE	-40 to 50°C (-40 to 122°F), 0 to 95 %RH non-condensing
ENCLOSURE	**A:** ABS, UL94-V0, IP65 (NEMA 4X) **E:** Same as A, with thread adapter (1/2" NPT to M16) and cable gland fitting
TERMINATION	Terminal block (14 to 22 AWG)
COUNTRY OF ORIGIN	Canada

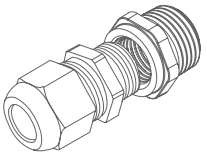
NOTE: This product is factory calibrated and any field adjustment will void the warranty.

ACCESSORIES - INCLUDED WITH E ENCLOSURE OPTION



CABLE GLAND FITTING

THREAD ADAPTER 1/2" NPT TO M16



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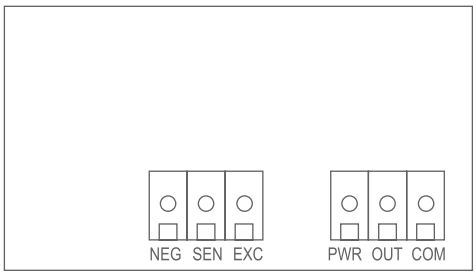
WIRING INFORMATION



TERMINAL	FUNCTION
PWR	Power Supply
OUT	Analog Output
COM	Common
NEG	
SEN	Temperature Sensor Input
EXC	

ORDERING

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

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

PART NUMBER

HATXFL

RoHS COMPLIANT

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