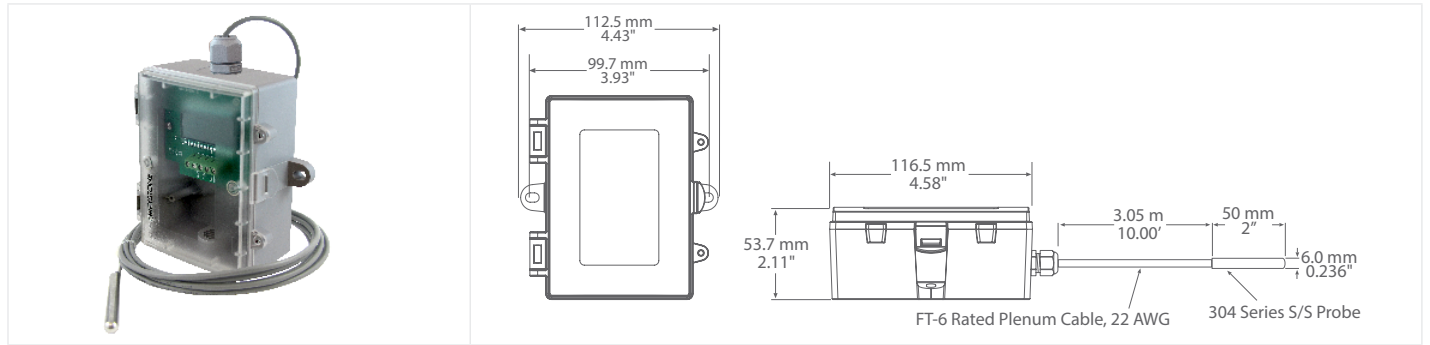




## HIGH ACCURACY FLYING LEAD TEMPERATURE TRANSMITTER WITH LCD



### HATDFL SERIES

#### PRODUCT DESCRIPTION

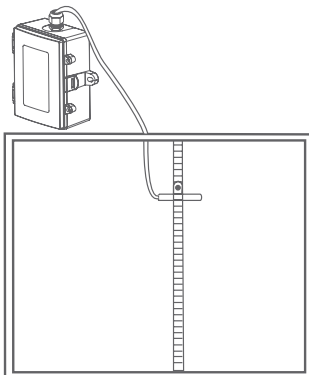
The high accuracy single point flying lead temperature transmitter incorporates a precision platinum RTD encapsulated in a 50.8 x 6 mm (2" x 0.236") OD, 304 stainless steel probe. The probe provides excellent heat transfer, fast response and resist moisture penetration. A transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response for measurement of pipe temperatures. A weatherproof Polycarbonate enclosure is provided for ease of installation. An LCD is provided in either °C or °F.

#### 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.

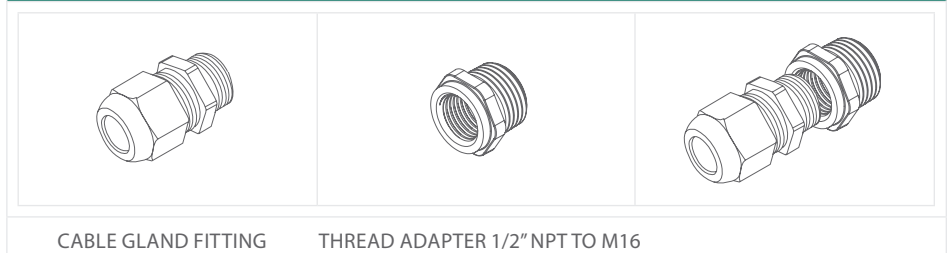
The enclosure provides mounting tabs for ease of installation.



#### SPECIFICATIONS

SENSOR TYPE	1000Ω Platinum, IEC 751, 385 Alpha, thin film
SENSOR ACCURACY	<b>RTD Class A:</b> ±0.15°C (±0.27°F) @ 0°C (32°F) <b>RTD 1/3 DIN:</b> ±0.1°C (±0.18°F) @ 0°C (32°F) <b>RTD 1/10 DIN:</b> ±0.03°C (±0.054°F) @ 0°C (32°F)
PROBE SENSING RANGE	-40 to 60°C (-40 to 140°F)
PROBE DIMENSIONS	50mm (2") x 6mm (0.236")
PROBE MATERIAL	304 series stainless steel
WIRE MATERIAL	FT-6 plenum rated cable
WIRE LENGTH	3.05m (10')
OUTPUT SIGNAL	4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc (factory configured)
TRANSMITTER ACCURACY	±0.2% of span, including linearity
POWER SUPPLY	15-30 Vdc or 12-28 Vac
CONSUMPTION (MAX)	<b>Current:</b> 20 mA <b>Voltage:</b> 11 mA
INPUT VOLTAGE EFFECT	Negligible over specified operating range
PROTECTION CIRCUITRY	Reverse voltage protected and output limited
OUTPUT DRIVE @ 24 VDC	<b>Current:</b> 700Ω max <b>Voltage:</b> 20,000Ω min
LCD DISPLAY UNITS	°C or °F (factory configured)
DISPLAY RANGE	3 digit for -88.8 to 888 as required
DISPLAY SIZE	38.1mm W x 16.5mm H (1.5" x 0.65")
DIGIT HEIGHT	11.4mm (0.45") plus °C/°F symbol
AMBIENT OPERATING RANGE	0 to 50°C (32 to 122°F), 0 to 95 %RH
ENCLOSURE	<b>B:</b> Grey polycarbonate UL94-V0, IP65 (NEMA 4X) <b>F:</b> Same as B with thread adapter (1/2" NPT to M16) and cable gland fitting
WIRING CONNECTIONS	Screw terminal block (14 to 22 AWG)
COUNTRY OF ORIGIN	Canada

#### ACCESSORIES - INCLUDED WITH F ENCLOSURE OPTION

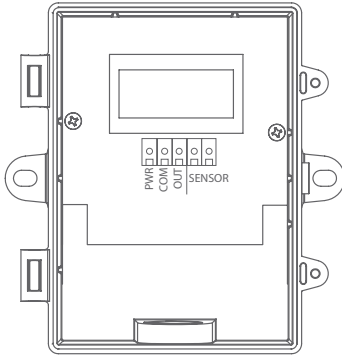


CABLE GLAND FITTING

THREAD ADAPTER 1/2" NPT to M16



## WIRING INFORMATION



TERMINAL	FUNCTION
PWR	+ 24 Vdc/ac power supply
COM	Common
OUT	Analog Output
SEN	Negative
SEN	Excitation

## ORDERING

PRODUCT	HATDFL	High Accuracy Flying Lead Temperature Transmitter with Display
ENCLOSURE	<b>B</b> <b>F</b>	Polycarbonate, with hinged and gasketed cover Same as B, with thread adapter and cable gland fitting
DISPLAY UNITS	<b>C</b> <b>F</b>	Celsius Fahrenheit
SENSOR	<b>18X</b> <b>48X</b> <b>22X</b>	1000Ω, Platinum, 2 wire, IEC 751, 385 Alpha, thin film, Class A 1000Ω, Platinum, 2 wire, IEC 751, 385 Alpha, thin film 1/3 DIN 1000Ω, Platinum, 2 wire, IEC 751, 385 Alpha, thin film 1/10 DIN
OUTPUT	<b>A</b> <b>D</b> <b>E</b>	4-20 mA, 2 or 3 wire 0-5 Vdc, 3 wire 0-10 Vdc, 3 wire
SCALED RANGE	<b>001</b> <b>002</b>	0 to 35°C (32 to 95°F) 0 to 50°C (32 to 122°F)

## PART NUMBER

HATDFL

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