



GREYSTONE

ENERGY SYSTEMS INC

HIGH ACCURACY FLYING LEAD TEMPERATURE TRANSMITTER WITH LCD HATLFL Series

The HATLFL single point flying lead temperature transmitter incorporates a high accuracy platinum RTD encapsulated in a 50.8 x 6.35 mm (2" x 0.25") 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 to changes in temperatures. A LCD is provided in either °C or °F.



SPECIFICATION:

Sensor.....	1000 ohm Platinum RTD
Accuracy	RTD Class A: $\pm 0.15^{\circ}\text{C}$ @ 0°C RTD 1/3 DIN: $\pm 0.1^{\circ}\text{C}$ @ 0°C RTD 1/10 DIN: $\pm 0.03^{\circ}\text{C}$ @ 0°C
Probe Sensing Range.....	-20 to 60°C (-4 to 140°F)
Wire Material	FT6 Plenum rated, 22 AWG
Wire Length	1.83 m (6')
Probe Material	304 Series Stainless Steel
Probe Dimension.....	50.8 x 6.35 mm (2 x 0.25")
Output Signal.....	4-20mA current loop, 0-5 vdc, or 0-10 Vdc (factory configured)
Transmitter Accuracy	$\pm 0.25\%$ of span, including linearity
Power Supply	4-20 mA: 15-35 Vdc or 22-32 Vac 0-5 Vdc: 10-35 Vdc or 10-32 Vac 0-10 Vdc: 15-35 Vdc or 15-32 Vac
Consumption	Current: 22.5 mA Max (On open sensor) Voltage: 5 mA nominal
Input Voltage Effect.....	Negligible over specified operating range
RFI rejection.....	Good RFI rejection of normal frequencies
Protection Circuitry.....	Reverse voltage protected and output limited
Display Units	$^{\circ}\text{C}$ or $^{\circ}\text{F}$
Display Range	3 digit for -88.8 to 888 as necessary
Display Size.....	24 mm x 11 mm (0.95" x 0.45")
Ambient Operating Range.....	0 - 70°C (32 - 158°F), 0-95% RH non-condensing
Enclosure	Grey ABS, UL94-V0, IP65 (NEMA 4X)
Wiring Connections.....	Screw terminal block (14 to 22 AWG)

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
HATLFL	High Accuracy Flying Lead Temperature Transmitter with LCD Display

CODE	LCD Display
C	LCD display $^{\circ}\text{C}$
F	LCD display $^{\circ}\text{F}$

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

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)



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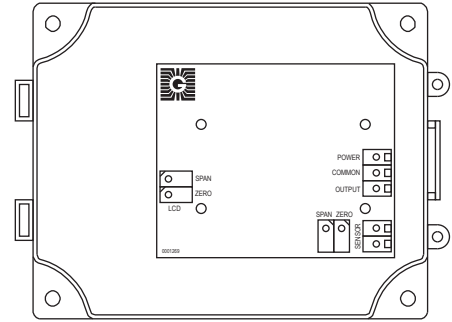
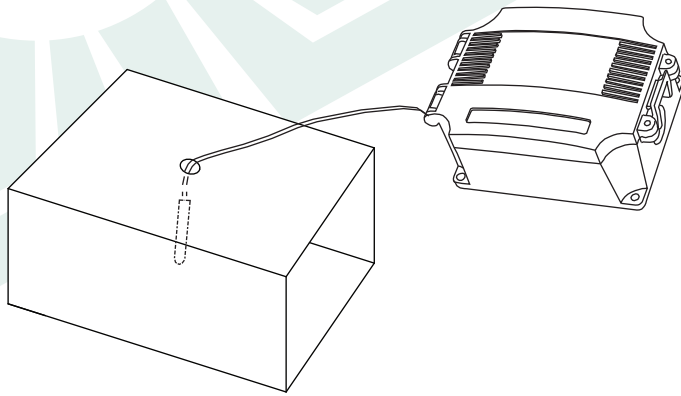


TYPICAL INSTALLATION:

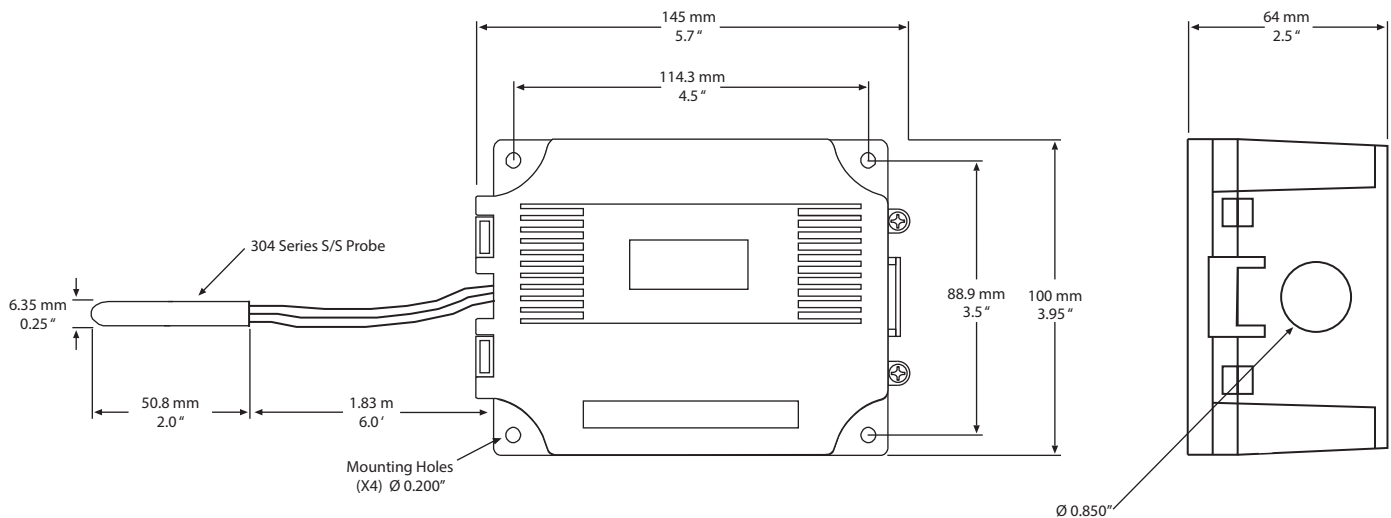
For complete installation and wiring details, please refer to the product installation instructions.

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 airstream.

Each remote enclosure style provides mounting tabs on the outside of the enclosure for ease of installation.



DIMENSIONS:



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



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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