GREYSTONE
ENERGY SYSTEMS INC

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 provied for ease of installation. An LCD is provided in either °C or °F.

SPECIFICATIONS:

Sensor Type:	1000 ohm platinum RTD
Sensor 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
Wire Material:	FT-6 Plenum rated cable
Probe Sensing Range:	-20 to 60°C (-4 to 140°F)
Probe Material:	304 Series stainless steel
Probe Dimensions:	50 mm (2") x 6.00 mm (0.236")
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 to 30 Vdc, 12 to 28 Vac
Consumption (max):	20 mA for current, 11 mA for voltage
Protection Circuitry:	Reverse voltage protected and output limited
Ouput Drive @ 24 Vdc:	700 ohms max for current output, 20K ohms min for voltage output
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 16.5 mm H (1.5" to 0.65")
Digit Height:	11.4 mm (0.45") plus °C/°F symbol
Ambient Operating Range:	0 to 50°C (32 to 122°F), 0-95 %RH
Enclosure:	Grey polycarbonate UL94-V0, IP65 (NEMA 4X) F style includes thread adapter (1/2"NPT to M16) cable gland fitting
Wiring Connections:	Screw terminal block (14 to 22 AWG)
Country of Origin:	Canada

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.

The enclosure provides mounting tabs for ease of installation.

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
HATDFL	High Accuracy Flying Lead Temperature Transmitter with Display

CODE	Enclosure
B	Polycarbonate, with hinged & gasketed cover
F	Same as B, with thread adapter & cable gland fitting

CODE	Display Units
C	Celsius
F	Fahrenheit

CODE	Sensor
18	1000 Ω, Platinum, wire 2, 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

CODE	Output
A	4-20 mA 2 or 3 wire
D	0-5 Vdc 3 wire
E	0-10 Vdc 3 wire

CODE	Scaled Range
001	0 to 35°C (32 to 95°F)
002	0 to 50°C (32 to 122°F)

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

Wiring:

Terminal	Function
PWR	Power Supply
COM	Power Supply Common
TEMP (2)	Temperature Sensor Input
NO	Relay Output - Normally Open Contact
COM	Relay Common
NC	Relay Output - Normally Closed Contact

GREYSTONE ENERGY SYSTEMS, INC.

RoHS COMPLIANT

GREYSTONE 5 Warranty

MADE IN CANADA

ISO9001 Certified System

CE

DIMENSIONS:

112.5 mm
4.43"

99.7 mm
3.93"

0.5" NPT

116.5 mm
4.58"

53.7 mm
2.11"

3.05 m
10.00'

50 mm
2"

6.0 mm
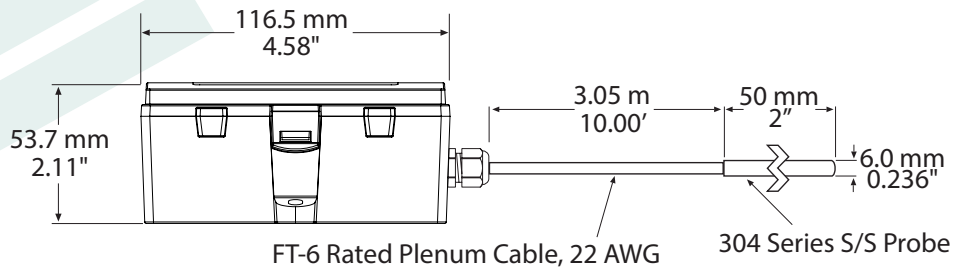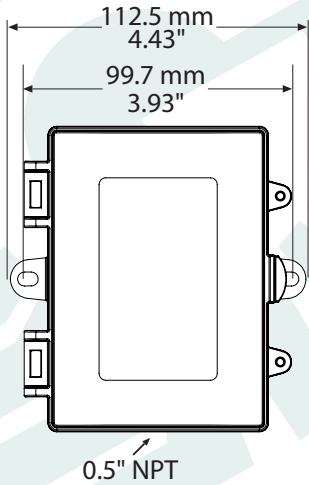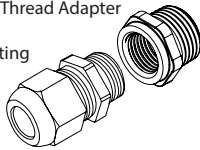0.236"

FT-6 Rated Plenum Cable, 22 AWG

304 Series S/S Probe

Included with F style enclosure

Thread Adapter

Cable Gland Fitting

GREYSTONE
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ISO9001

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