



# GREYSTONE

ENERGY SYSTEMS INC

## FLYING LEAD TEMPERATURE TRANSMITTER w/ LCD TE511/512FL Series

The TE511/512FL single point flying lead temperature transmitter incorporates a precision 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 for measurement of pipe temperatures. A LCD is provided in either °C (511) or °F (512).

### SPECIFICATION:

Sensor.....	1000 ohm Platinum RTD
Sensor Accuracy.....	±0.3°C (±0.54°F) @ 0°C (32°F)
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.....	±0.1% of span, including linearity
Power Supply.....	<b>4-20 mA:</b> 15-35 Vdc or 22-32 Vac <b>0-5 Vdc:</b> 10-35 Vdc or 10-32 Vac <b>0-10 Vdc:</b> 15-35 Vdc or 15-32 Vac
Consumption.....	<b>Current:</b> 22.5 mA Max (On open sensor) <b>Voltage:</b> 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.....	°C (511 Series) or °F (512 Series)
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.....	ABS, UL94-5VB, IP65 (NEMA 4X) *In order to maintain the published NEMA/IP ratings, properly rated conduit or cable gland adapters must be used.
Wiring Connections.....	Screw terminal block (14 to 22 AWG)



### PART NUMBER SELECTED

### PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TE511FL	Flying Lead Temperature Transmitter c/w LCD display °C
TE512FL	Flying Lead Temperature Transmitter c/w LCD display °F

CODE	Output
A	Current 4-20mA
D	Voltage 0-5 Vdc
E	Voltage 0-10 Vdc

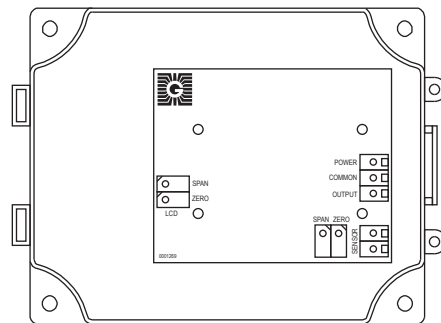
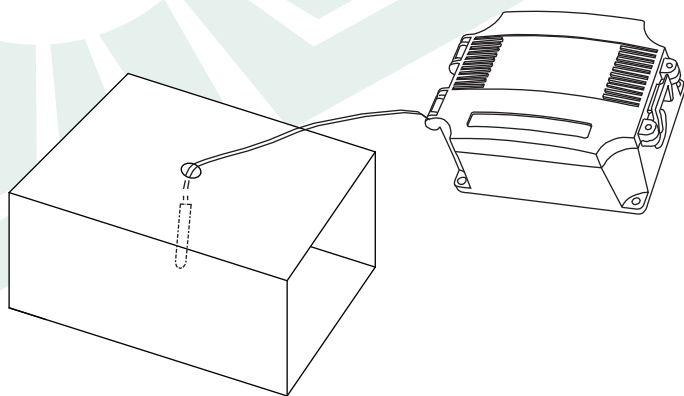
CODE	Scaled Range
1	0 - 35°C (32 - 95°F)
2	0 - 50°C (32 - 122°F)
*	Custom ranges available, Contact Greystone

## TYPICAL INSTALLATION:

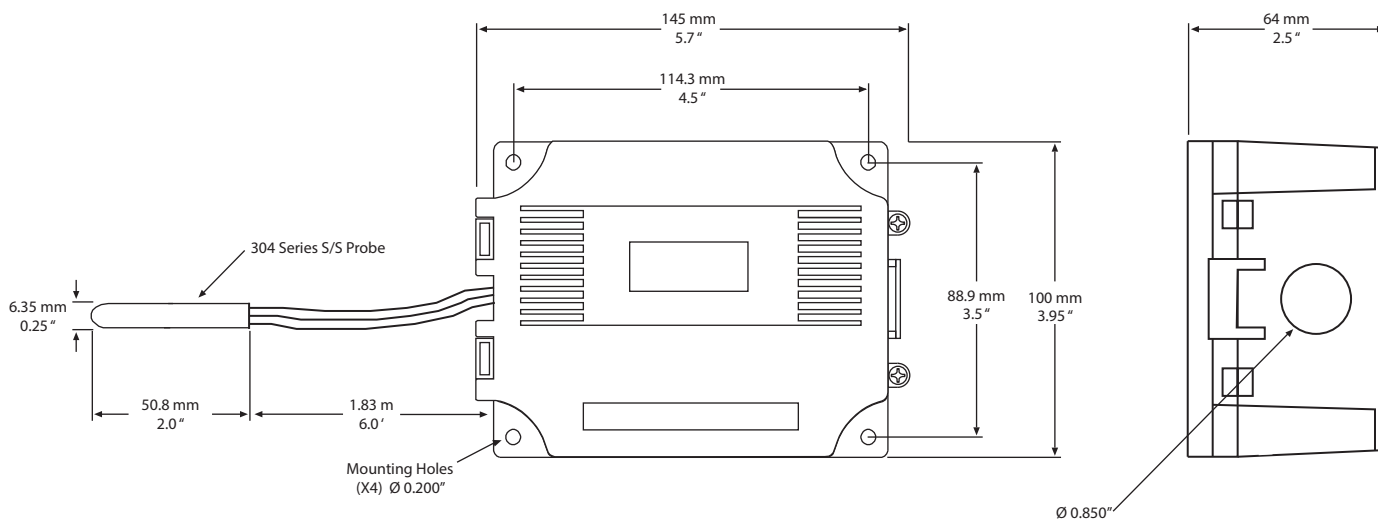
For complete installation and wiring details, please refer to the product installation instructions.

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.



**GREYSTONE**  
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**RoHS**  
COMPLIANT



*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**