



GREYSTONE

ENERGY SYSTEMS INC

FLEX-DUCT AVERAGE TEMPERATURE TRANSMITTER w/ LCD TE511/512FD Series

The TE511/512FD Flex-duct averaging temperature transmitter incorporates numerous precision platinum RTD's encapsulated at equal distances along a FT-6 plenum rated cable and is available in various lengths (see ordering chart). All probes provide 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 duct temperatures. A LCD is provided in either °C (511) or °F (512).

SPECIFICATION:

Sensor..... 1000 ohm Platinum RTD
Sensor Accuracy..... $\pm 0.3^{\circ}\text{C}$ ($\pm 0.54^{\circ}\text{F}$) @ 0°C (32°F)
Probe Sensing Range..... -20 to 60°C (-4 to 140°F)
Wire Material..... FT6 Plenum rated, 22 AWG
Output Signal..... 4-20mA current loop, 0-5 vdc, or 0-10 Vdc (factory configured)
Transmitter Accuracy..... $\pm 0.1\%$ 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
0-10Vdc: 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..... $^{\circ}\text{C}$ (511 Series) or $^{\circ}\text{F}$ (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..... $0 - 70^{\circ}\text{C}$ ($32 - 158^{\circ}\text{F}$), 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
TE511FDB	Multi-point Flex-Duct Average Temperature Transmitter c/w LCD display $^{\circ}\text{C}$
TE512FDB	Multi-point Flex-Duct Average Temperature Transmitter c/w LCD display $^{\circ}\text{F}$

CODE	Probe Length	No. of Sensors on Multi-point
A	1800 mm (6')	4 Sensors
B	3600 mm (12')	4 Sensors
C	6100 mm (20')	4 Sensors
D	7300 mm (24')	9 Sensors

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

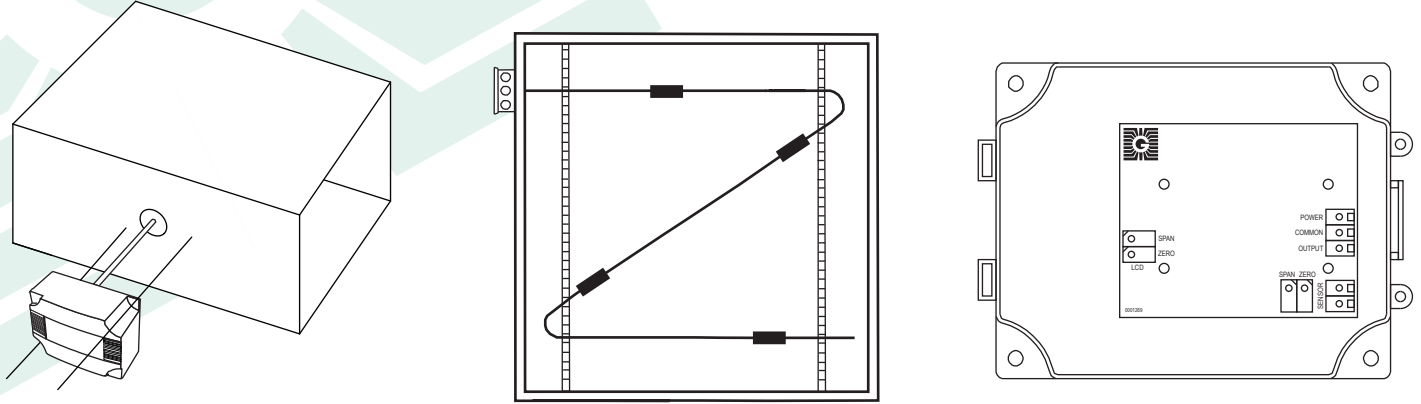
CODE	Scaled Range
1	$0 - 35^{\circ}\text{C}$ ($32 - 95^{\circ}\text{F}$)
2	$0 - 50^{\circ}\text{C}$ ($32 - 122^{\circ}\text{F}$)
*	Custom ranges available, Contact Greystone

TYPICAL INSTALLATION:

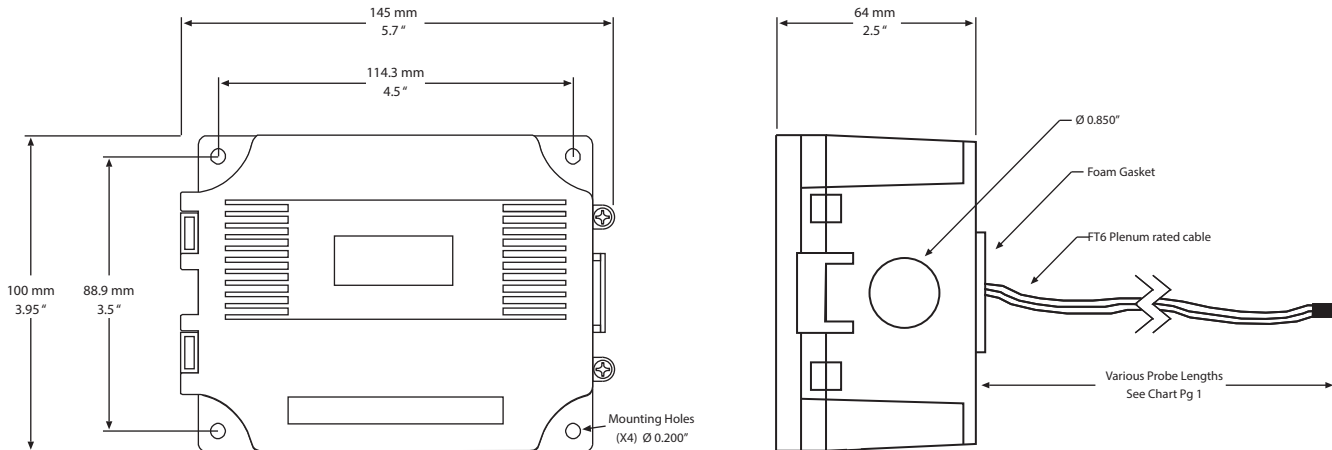
For complete installation and wiring details, please refer to the product installation instructions.

The flex-duct average probes are installed through a hole in the side of the duct to monitor an average temperature within the duct. Select a probe length that allows for criss-crossing the duct multiple times. Install the probes in a straight section of duct at a suitable distance downstream from any heating, cooling or humidification devices.

The enclosure provides mounting tabs for ease of installation.



DIMENSIONS:



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



GREYSTONE
ENERGY SYSTEMS INC

Greystone Energy Systems, Inc.
150 English Drive, Moncton,
New Brunswick, Canada E1E 4G7
(506) 853-3057 Fax: (506) 853-6014
North America: 1-800-561-5611
e-mail: mail@greystoneenergy.com
www.greystoneenergy.com

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