

# SUBMITTAL

# Part Number:

## Duct Average Temperature Transmitter

### PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TE511FD	Multi-point Flex Duct Average Temperature Transmitter c/w LCD display °C
TE512FD	Multi-point Flex Duct Average Temperature Transmitter c/w LCD display °F

CODE	Enclosure (ABS enclosure is standard)
-	ABS enclosure, standard (no code required, leave blank)
W	PVC weatherproof box

CODE	Probe Length/No. of Sensors
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	Transmitter Output Signal
1A	Current 4-20mA
1D	Voltage 0-5 Vdc
1E	Voltage 0-10 Vdc

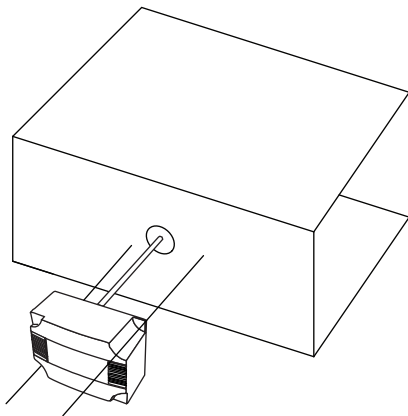
CODE	Transmitter Range
1	0° - 35°C (32° - 95°F)
2	0° - 50°C (32° - 122°F)
*	Custom range, contact Greystone

TE511FD	-	-	C	1A	2
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Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

**EXAMPLE:** Flex-duct average c/w °C LCD , 20', 4-20mA, 0°-50°C

**\*Custom Range:**



The TE511/512FD Averaging duct 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 room temperatures. A LCD is provided in either °C (511) or °F (512).

Sensor Operating Temperature Range	-20° to 60 °C (-4 to 140 °F) Higher ranges available, please contact Greystone
Enclosure	<b>Standard</b> - ABS - UL94-V - NEMA 1 (IP23) <b>Weatherproof (W)</b> - PVC - NEMA 4X (IP66)
Cable	FT-6 plenum rated
Probe	FT-6 plenum rated cable
Output Signal	<b>Current:</b> 4-20 mA current loop <b>Voltage:</b> 0-5 or 0-10 Vdc (Factory Configured)
Transmitter Accuracy	±0.1% of span, including linearity
Power Supply	<b>Current:</b> 15-35 Vdc or 22-32 Vac <b>Voltage:</b> 0-5 Vdc: 10-35 Vdc or 10-32 Vac 0-10 Vdc: 15-35 Vdc or 15-32 Vac
Power Consumption	<b>Current:</b> 22.5 mA Max. (Occurs with open sensor) <b>Voltage:</b> 5 mA nominal
PCB Operating Temperature	0° to 70°C (32° to 158°F)
Wiring Connections	Two or three wires Screw terminal block (14 to 22 AWG)
Display Units	°C (511) or °F (512) - Factory set
Display Range	0° to 100°C typical range for transmitter
Display Resolution	0.1°C or 0.1°F for display of 00.0 to 99.9
Display Accuracy	±0.2°C or ±0.2°F over full range
Display Update Rate	3 times per second
Display Size	24 mm W x 11 mm H (0.95" x 0.45") three digit

### Installation:

The TE511/512FD 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.

Each enclosure style provides mounting tabs for ease of installation.



# GREYSTONE

ACCURACY BY DESIGN

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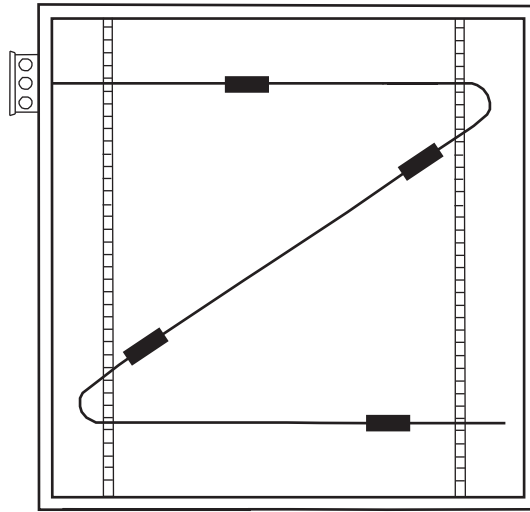
**RoHS**  
COMPLIANT



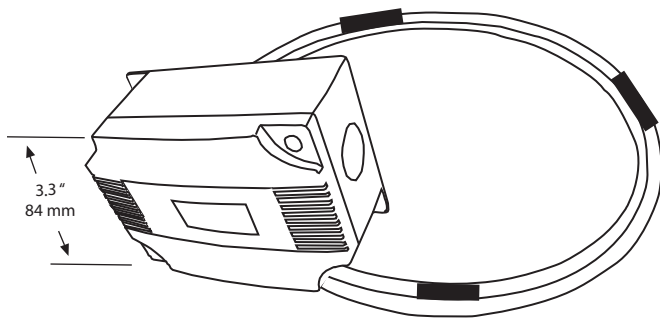


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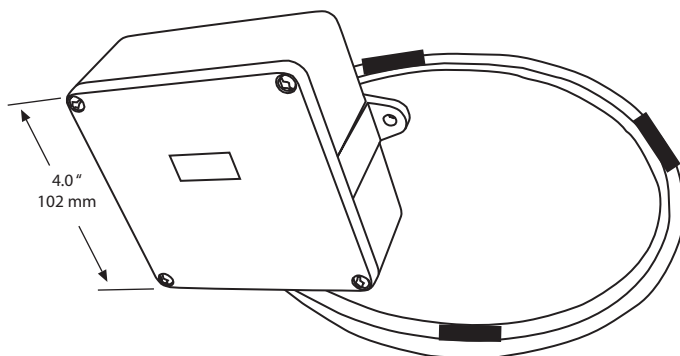
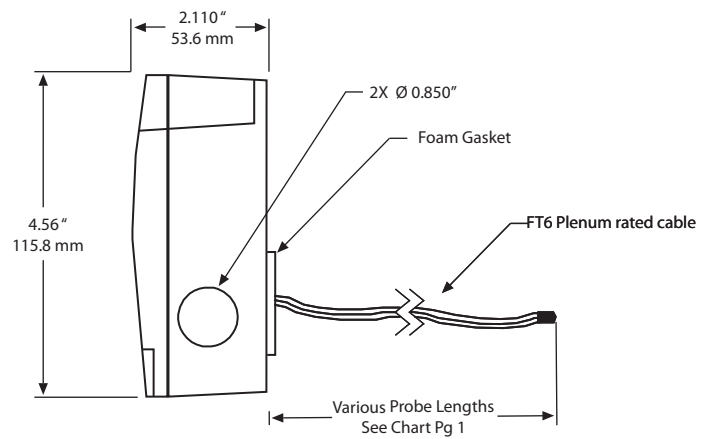
## Typical Installation:



## Dimensions:



**ABS Enclosure**



**Weatherproof Enclosure**

