The multi point rigid duct average temperature transmitter incorporates numerous precision platinum RTD's at equal distances encapsulated in a 6.00 mm (0.236") OD, 304 series stainless steel probe and is available in various lengths. 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 is available with various ranges.

SPECIFICATION:

Sensor Type.......................................1000 ohm Platinum RTD
Sensor Accuracy.............................±0.3°C (±0.94°F) @ 0°C (32°F)
Probe Sensing Range ....-20 to 60°C (-4 to 140°F)
Wire Material...................................PVC insulated, parallel bonded, 22AWG
Probe Material................................304 Series Stainless Steel
Probe Diameter ....6 mm (0.236")
Standard Lengths...........................300, 450, 600, 900 mm
                                                          (12", 18", 24", 36")
Output Signal.................................4-20mA current loop, 0-5 Vdc, or 0-10 Vdc
                                                          (factory configured)
Transmitter Accuracy...................±0.1% of span, including linearity
4-20 mA loop power supply......15-35 Vdc or 22-32 Vac
Minimum Loop Current..............2 mA nominal (occurs with shorted sensor)
Maximum Loop Current............22.5 mA nominal (occurs with open sensor)
Maximum Loop Load ....>600 ohms
0-5 Vdc Power Supply..................10-35 Vdc or 10-32 Vac
0-10 Vdc Power Supply ....15-35 Vdc or 15-32 Vac
Maximum Current (Voltage) .....5 mA nominal
Maximum Output (Voltage)......limited to <5.5 Vdc for 0-5 Vdc, <10.5 for 0-10 Vdc
Input Voltage Effect......................Negligible over specified operating range
Protection Circuitry......................Reverse voltage protected and output limited
Ambient Operating Range........0 to 50°C (32 to 122°F), 0 to 95% RH non-condensing
Enclosure...ABS - UL94-V0, IP65 (NEMA4X)
                                                          E - includes thread adapter (1/2" NPT to M16),
                                                          and cable gland fitting
Wiring Connections......................Screw terminal block (14 to 22 AWG)
Country of Origin...........................Canada

*This product is factory calibrated and any field adjustment will void the warranty.

TYPICAL INSTALLATION:

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

The duct type probes are installed through a hole in the side of the duct to monitor a single point temperature within the duct. Since the probes are tip sensitive, select a probe length that places the sensor well into the duct. Install the probe 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.
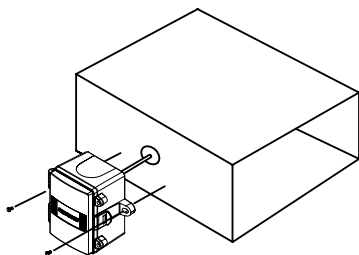
PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TXDR	Rigid Duct Average Temperature Transmitter

CODE	Enclosure
A	ABS, with hinged & gasketed cover
E	Same as A, with thread adapter & cable gland fitting

CODE	Sensor
12	10,000 Ω Platinum, IEC 751, 385 Alpha, thin film (Standard)

CODE	Probe Length
F	450 mm (18")
G	600 mm (24")
H	900 mm (36")

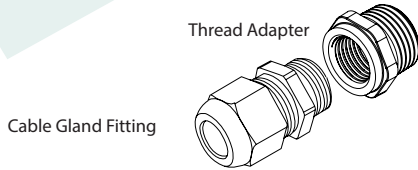| CODE	Output
A	4-20 mA
D	0-5 Vdc
E	0-10 Vdc

CODE	Scaled Range
001	0 to 35°C (32 to 95°F)
002	0 to 50°C (32 to 122°F)
006	-50 to 50°C (-58 to 122°F)
*	Custom Ranges Available

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

RoHS COMPLIANT

MADE IN CANADA

ISO9001 Certified System

5 Warranty

CE

DIMENSIONS:

82.5 mm
3.25"

69.8 mm
2.75"

52.0 mm
2.05 "

76.2 mm
3.00"

Various Probe Lengths
See Specifications

6 mm
(0.236")

304 Series S/S Probe

Foam Gasket

0.5" NPT
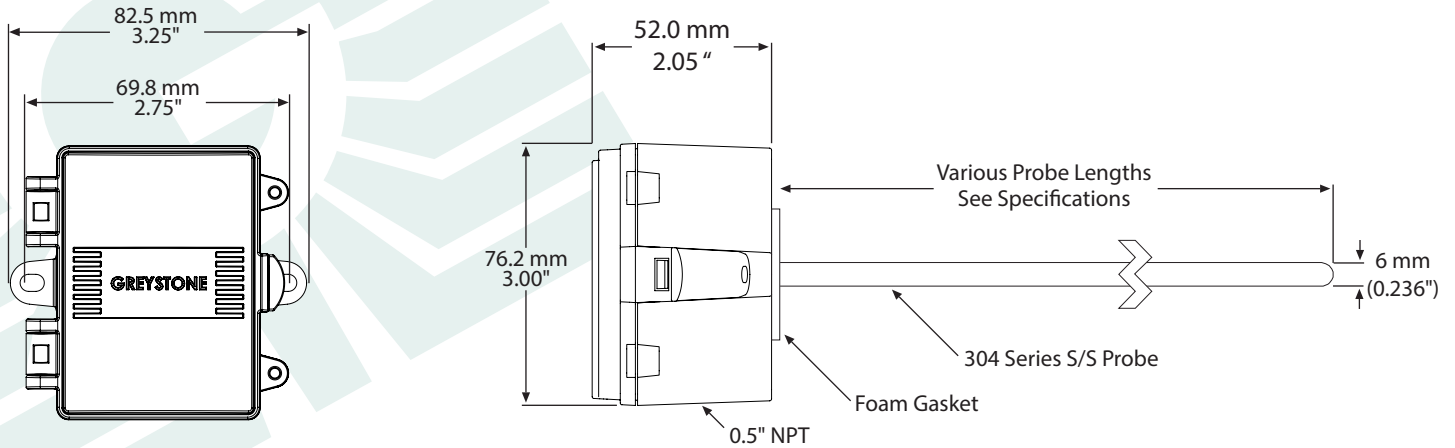
Included with E style enclosure

Thread Adapter

Cable Gland Fitting

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