



GREYSTONE ENERGY SYSTEMS INC

ALL PURPOSE TEMPERATURE TRANSMITTER TXAP Series

The all purpose single point temperature sensor utilizes a precision sensor encapsulated in a 6 mm (0.236") OD, 304 series stainless steel probe and is available in various lengths (see ordering chart). All probes provide excellent heat transfer, fast response and resistance to 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 is provided.

SPECIFICATION:

Sensor Type 1000 ohm Platinum RTD
 Sensor Accuracy.....±0.3°C (±0.94°F) @ 0°C (32°F)
 Probe Sensing Range.....-20 to 105°C (-4 to 221°F)
 Wire Material.....PVC insulated, parallel bonded, 22 AWG
 Probe Material.....304 Series Stainless Steel
 Probe Diameter.....6 mm (0.236")
 Standard Lengths.....50, 100, 150, 200, 300, 450 mm
 (2", 4", 6", 8", 12", 18")
 Output Signal.....4-20 mA 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

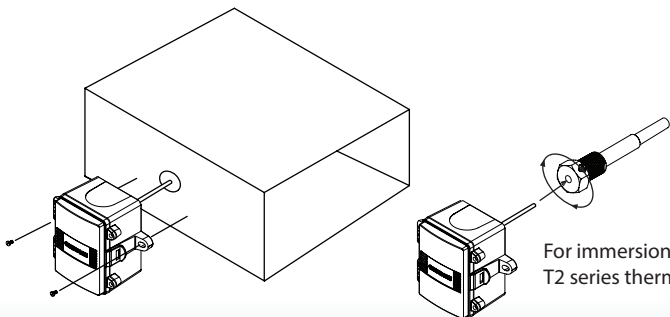
*This product is factory calibrated and any field adjustment will void the warranty.

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.



For immersion applications, T2 series thermowell is required.



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

| MODEL | Product Description |
|-------|--|
| TXAP | All Purpose Duct/Immersion Temperature Transmitter |

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

| CODE | Sensor |
|------|--|
| 12 | 1000 Ω, Platinum, IEC 751, 385 Alpha, thin film (Standard) |

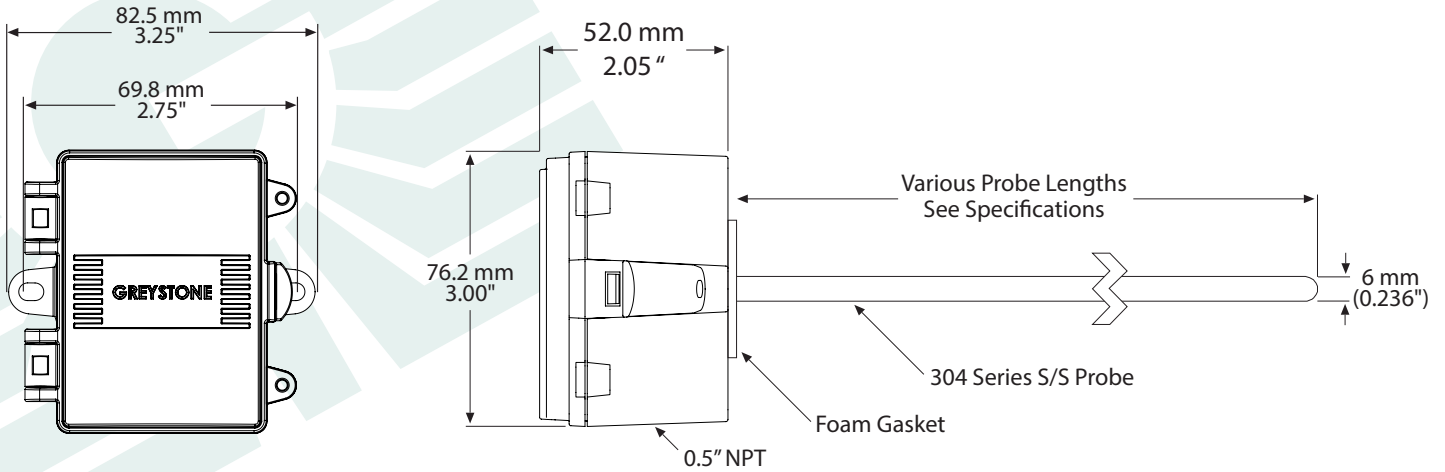
| CODE | Probe Length |
|------|--------------|
| A | 50 mm (2") |
| B | 100 mm (4") |
| C | 150 mm (6") |
| D | 200 mm (8") |
| E | 300 mm (12") |
| F | 450 mm (18") |

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

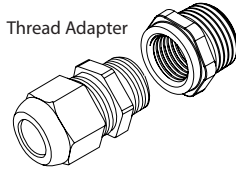
| CODE | Scaled Range |
|------|-----------------------------|
| 001 | 0 to 35°C (32 to 95°F) |
| 002 | 0 to 50°C (32 to 122°F) |
| 003 | 0 to 100°C (32 to 212°F) |
| 006 | -50 to 50°C (-58 to 122°F) |
| * | Additional Ranges Available |

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

DIMENSIONS:



Included with E style enclosure



Cable Gland Fitting



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