

# Highly Reliable Retrofit Exhaust Gas Sensors

For older frames 5, 6, 7 & 9



## When the sensor fails, only the sensor portion needs to be changed

If you have an older frame 5, 6, 7, & 9 turbine we are offering improved replacement exhaust gas thermocouple sensors that fit older radiation shields. This upgrade kit provides a longer lasting sensor that also features lower maintenance time at change out. There is no need to replace the existing radiation shields when using this upgraded exhaust gas sensor.

## Product Features and Benefits

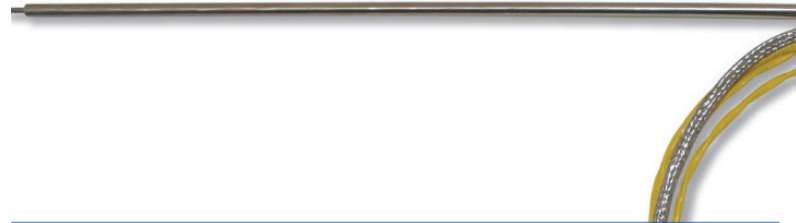
- Superior quality
- Hermetically sealed for high accuracy and long life
- Simple, quick installation saves time
- Talented technical support

Cable assemblies that are purchased with this sensor may be manufactured to the customer desired length. Cables remain fixed in the Turbine hot box and only the sensor needs to be removed. Cable assemblies are made from 18 Awg stranded conductors with PFA insulation and are jacketed with Stainless Steel overbraid.

## Technical Sales Support

Whether you are upgrading or replacing your exhaust thermocouples, Conax Technologies' Technical Team can help you solve your problems. Call our inside Sales Team at +1 716 684 4500 and you'll get the support you need to make the right choices.

**Install a sensor that has a separate cable and thermocouple...**



Change out sensor here ▼



**...instead of replacing thermocouples that are routed like this**

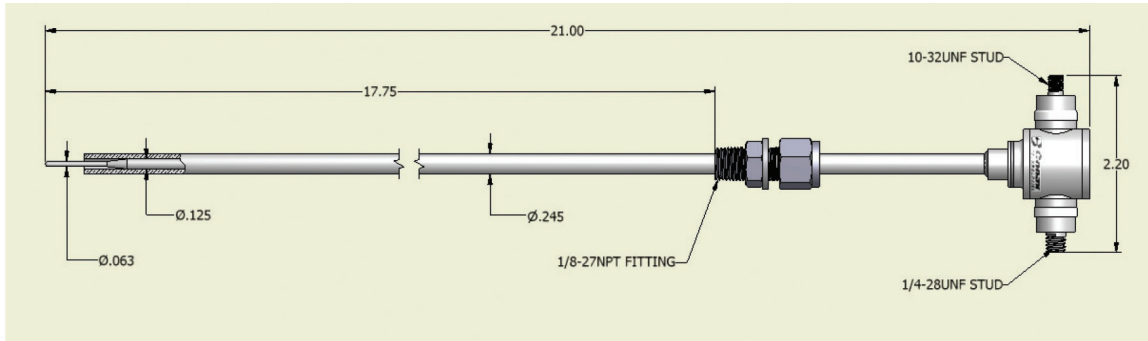


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## Dimensional Features

## Model for Frame 6B Shown



## Specifications

### Calibration:

- Type K, Chromel Alumel®
- $\pm 0.4\%$  accuracy (special limits of error)
- Meets the requirements of ASTM E585 and ASTM E608

### Insulation Resistance:

- $1 \times 10^9$  ohms @ 50 VDC

### Time Response:

- 2.9 seconds

### Hermetic Seal:

- $1 \times 10^{-6}$  ssc/sec He for the entire thermocouple

### Sheath Diameter:

- 0.125" with a 0.245 diameter oversheath

### Environmental Ranges:

- $-20^\circ$  to  $700^\circ\text{F}$  ( $-29^\circ$  to  $371^\circ\text{C}$ ) at the termination
- $-20^\circ$  to  $392^\circ\text{F}$  ( $-29^\circ$  to  $200^\circ\text{C}$ ) for the cable
- 100% humidity for the entire thermocouple

### Applications:

- Frame turbines

### Related Products:

- Frames 6, 7, 9 Exhaust Gas Thermocouple—Bulletin 6054 Revision A
- Frames 5, 6, 7 Hermetic Exhaust Gas Thermocouple—Bulletin 6052
- Frames 6, 7 Hermetic Wheelspace Thermocouples—Bulletin 6053
- Bearing Sensors—Bulletin 6035
- Bearing Sensor Wire Seals—Catalog 5001
- Frames 5,6,7, & 9 Thermocouple and RTD Assemblies—Catalog 5005

### Also Available from Conax Technologies

- Radiation shields—Model 362A1344Pxxx; 351A3711 & others
- Mating cables—Model 361A2327Pxxx

For more information about Conax Technologies, visit [conaxtechnologies.com](http://conaxtechnologies.com).

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