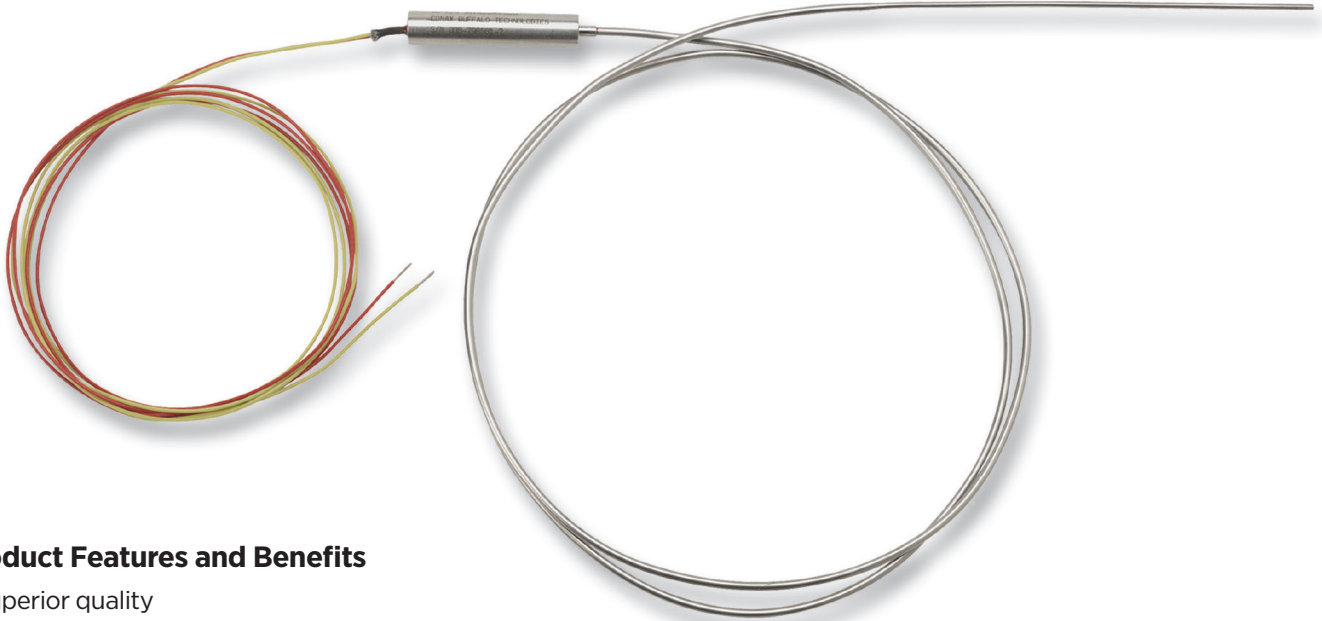


Wheelspace and Exhaust Gas Thermocouples

For frames 5, 6 & 7



Product Features and Benefits

- Superior quality
- Hermetically sealed for high accuracy and long life
- Simple quick installation saves time
- Talented technical support
- Parts are usually in stock to provide quick turnaround time

Conax Technologies' exhaust and wheelspace thermocouples used on older frame 5, 6 & 7 turbines meet or exceed the operational and performance requirements required by the OEM specifications on heavy duty gas turbines. These cost effective thermocouples are designed to be hermetically sealed to provide a more reliable product that eliminates insulation resistance problems experienced when using other suppliers' products. This robust design can accommodate either single or dual element thermocouples depending on your application. The typical applications for these thermocouples include wheelspace, exhaust, compressor discharge, as well as others.

Superior Quality

This hermetic thermocouple is a type K thermocouple with MgO insulation and stainless steel sheathing. It is also a direct replacement for all older wheelspace, CDT, and exhaust thermocouples on frame turbines manufactured prior to 1999. When replacing your thermocouples, you can purchase directly from Conax Technologies to lower your total costs.

Precise Installation

These type K ungrounded thermocouples are manufactured using conductor materials meeting special limits of error ($\pm 0.4\%$ accuracy), or standard limits of error ($\pm 0.75\%$ accuracy), depending on the application. All Conax Buffalo specification qualified thermocouples are manufactured per ASTM E585 and ASTM E608 standards utilizing the highest purity insulation materials yielding superior insulation resistance at elevated temperatures. In our factory, Conax's thermocouples are manufactured and tested at various points during the manufacturing cycle to give you the highest possible level of quality. The testing includes helium leak testing, calibration, thermal shock and insulation resistance.

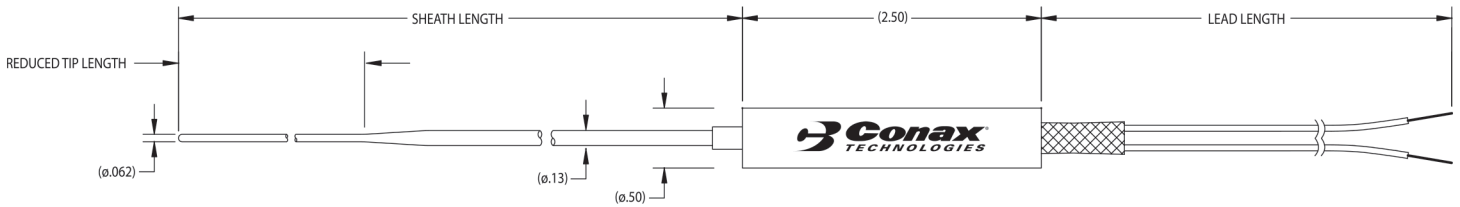
Technical Sales Support

When you are replacing your 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.



Ideas. Solutions. Success.

Dimensional Features—Wheelspace and Exhaust Gas Thermocouple



Specifications

Calibration:

- Type K, Chromel Alumel®
- ± 0.75% accuracy (standard limits of error)
- ± 0.4% accuracy (special limits of error)
- Meets the requirements of ASTM E585 and ASTM E608

Insulation Resistance:

- 1×10^9 ohms @ 50 VDCs.

Time Response:

Tip Diameter	Time
0.062"	0.8 seconds
0.125"	1.3 seconds

Hermetic Seal:

- 1×10^{-6} ssc/sec He for the entire thermocouple

Sheath Diameter:

- 0.125" (3.2mm)

Applications:

- Heavy duty gas turbines
- Related products

Related Products:

- Frames 6, 7 Enhanced Exhaust Gas Sensors: Bulletin 6105
- Frames 6, 7, 9 Hermetic Exhaust Gas Thermocouples—Bulletin 6054
- 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

For more information about Conax Technologies, visit conaxtechnologies.com.

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