

# Exhaust Gas Thermocouples for LM2500 and LM5000

Cost-effective solutions for land-based gas turbines



## EGTs for LM2500 and LM5000 gas turbines

Conax Technologies has introduced a solution that offers significant cost savings for LM2500 and LM5000 exhaust gas temperature measurement applications.

Conax has a proven history of manufacturing reliable temperature sensors for large frame gas turbines and aeroderivative engines and now offers a cost-effective, aftermarket equivalent for LM engines.

The Conax exhaust gas sensors for LM2500 and LM5000 turbines are engineered from state-of-the-art materials that are fully interchangeable with OEM products and offer excellent mechanical strength and superior oxidation creep resistance. The Conax solution is available at a competitive price point for all LM ground-based turbines.

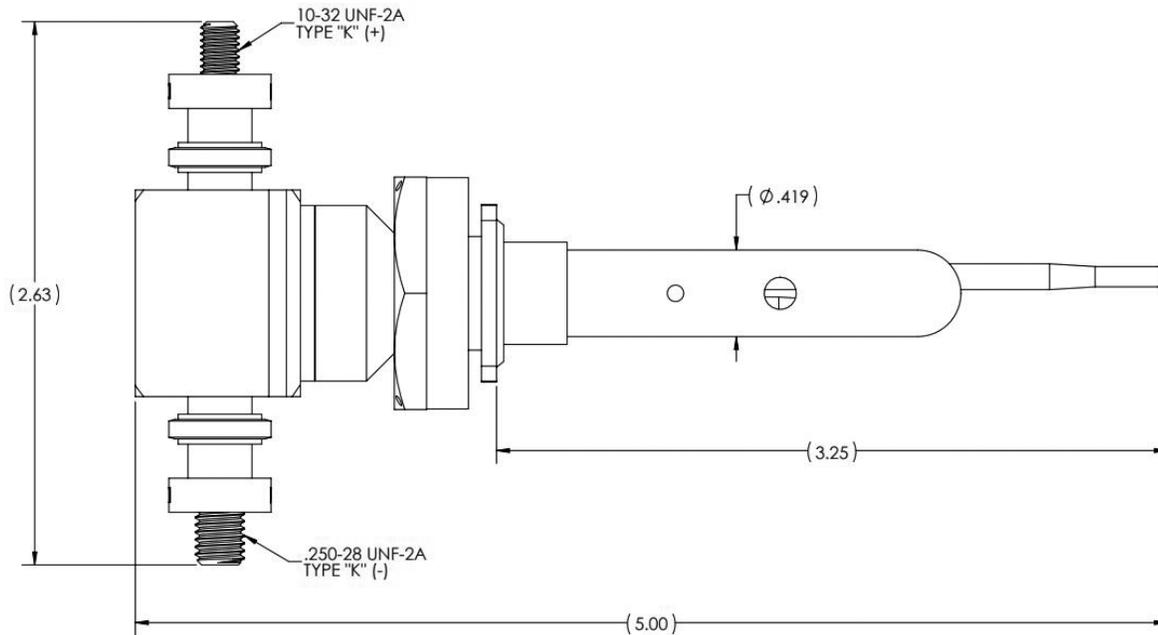
## Product Features and Benefits

- Conax uses state-of-the-art materials to achieve mechanical strength and oxidation resistance.
- The Conax Hermetic termination head utilizes type K termination studs that are sized so cables cannot be cross wired.
- The Conax solution is interchangeable with OEM products, so it can be used on all LM2500 and LM5000 turbines.
- The over sheath is made from state-of-the-art material sized for proper fit around the thermocouple tip. The Conax design does not require special shims that can vibrate loose.



Ideas. Solutions. Success.

## Exhaust Gas Thermocouples for LM2500 and LM5000



### Specifications

#### Calibration:

- Type K
- + 0.4% accuracy (special limits of error)
- Dual staggered junction

#### Insulation Resistance:

- $1 \times 10^8$  ohms @500VDC

#### Dielectric Strength Test:

- 5mA allowable leakage at Voltage: 300 VAC

#### Hermetic Seal:

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

#### Environmental Ranges:

- -20° to +800°F (-29° to +426°C) at the termination head
- -20° to +392°F (-29° to +200°C) at the mating cable
- 100% Humidity for entire sensor

#### Application:

- Ground-based turbines (not for flight use)

#### Related Products:

- Mating Cables

#### Also available from Conax:

Large Frame Sensors

- Bulletin 6052
- Bulletin 6053
- Bulletin 6054
- Bulletin 6054E

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