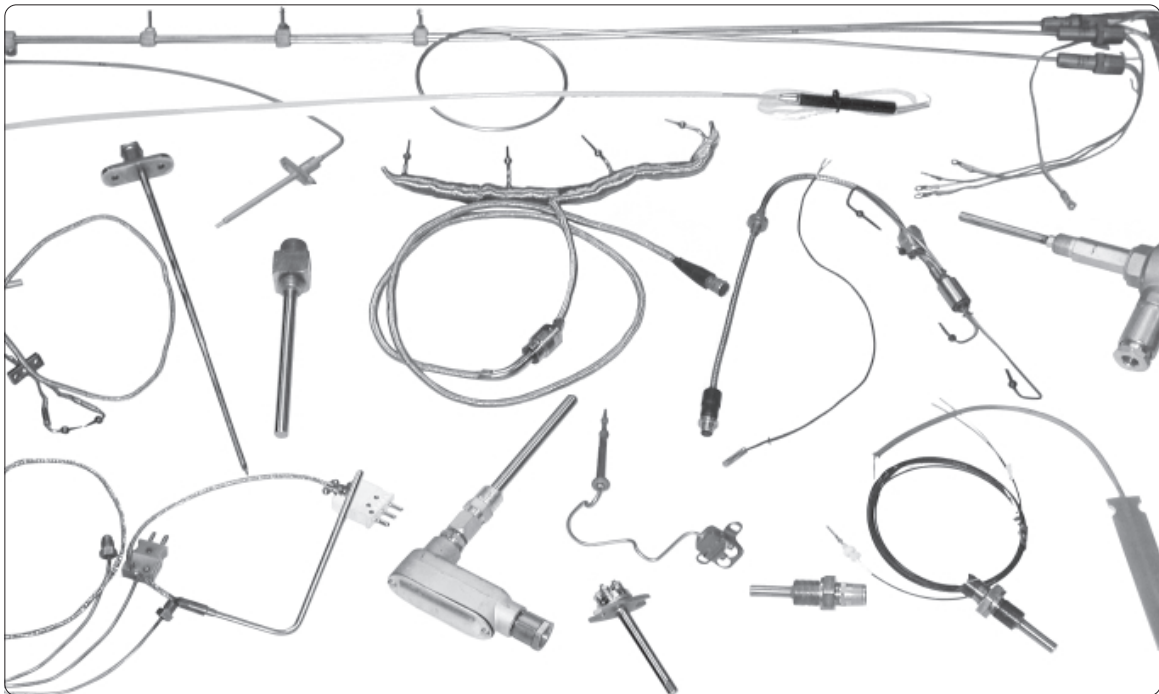


THERMOCOUPLES AND RTDS FOR GAS TURBINE ENGINES



Temp-Pro, Inc.
200 Industrial Drive
Northampton, MA 01060
sales@temp-pro.com
www.temp-pro.com



ISO 9001 Reg. No. 950 98 0142



Gas Turbine Engine Temperature Sensing Products and Accessories

Temp-Pro Inc is a specialist in the design and manufacture of temperature sensing devices for steam and gas turbine engines used worldwide. Our experience in providing the highest level of reliability under the most difficult applications has established us as the leader in gas turbine sensor technology. Gas turbine manufacturers turn to Temp-Pro for advice and practical solutions to temperature sensing problems.

Temp-Pro is an ISO-9001 Certified company and uses Six Sigma methodology to continuously upgrade its manufacturing processes.

For your specific application, Temp-Pro has the right answer.

Research and Development

Temp-Pro's R & D Department is engaged in research and development of tomorrow's temperature sensing technology. We continue to develop and qualify innovative and advanced sensor designs for the future gas turbine industry. For large or small gas turbine sensor applications, Temp-Pro can provide design, development and production to meet your particular specifications.

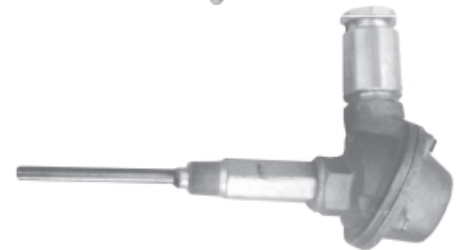
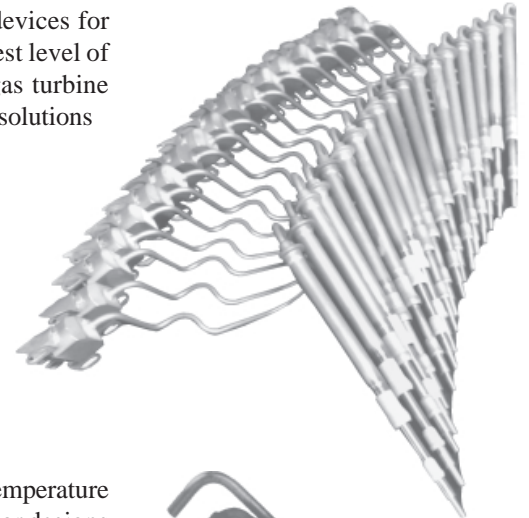
Manufacturing Capability

As one of the world's manufacturing leaders of high temperature thermocouple and RTD assemblies, our modern, fully equipped manufacturing facility features:

- Bench assembly
- Full machining capabilities
- Forming & bending
- Overbraid
- Brazing
- Heat treating
- Swaging
- Molding
- Welding

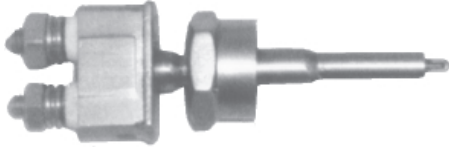
Quality Assurance

Temp-Pro's Quality Assurance program demands a high degree of technical proficiency on the part of our engineers and inspectors.



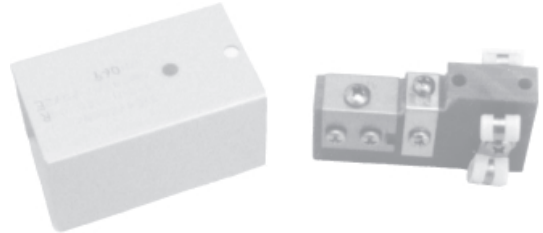
Exhaust Gas Thermocouple

Capable of withstanding temperatures of up to 2000°F. Exposed junction allows for rapid response time.



Isotherm Terminal Box

This terminal box is designed to interface with a two-probe averaging thermocouple as a fixed temperature reference block.



Two Probe Thermocouple Assembly

For use in fuel control combustion chamber.



High Velocity Thermocouple Probe

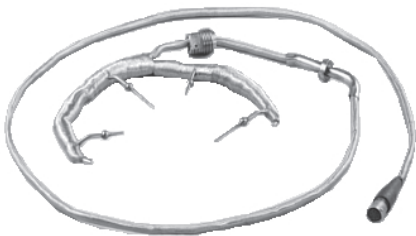
Hermetically sealed to protect against engine environment. Fast response time and capable of withstanding temperatures of up to 1800°F.



Four Averaging Thermocouple Probes

Thermocouple assembly can withstand engine temperature of up to 1600°F. Available as a soft or semi-rigid assembly.

Soft Assembly



Semi-Rigid Assembly



Four Probe Averaging Thermocouple Harness.

Designed for protection against EMI and RF. Environmentally sealed against humidity and capable of withstanding engine temperatures of up to 500°F.



Immersion Type, High Velocity, Fast Response Thermocouple
thermocouple probe for use in combustion engines. Withstands exposure to engine combustion fuels such as DF, JP and JET. Sustains thermal cycles between -70°F and 2000°F.



Exhaust Gas Thermocouple (Averaging)

Averaging three (3) probe exposed junction for exhaust temperature measurement. Used in aircraft engine for its accuracy and reliability. It is a hermetically sealed unit with the highest resistance to moisture and environmental conditions. It has a fast response and withstands engine temperatures up to 1900°F. This thermocouple utilizes a corrosion resistance alloy for temperatures of up to 2200°F.



Fast Response Immersion Type RTD

This fast response, platinum probe resistance temperature detector is designed for a wide range of temperature measurements in corrosive or non-corrosive liquids or gasses. The transducer features fast response time (in milliseconds) and covers the temperature range of -430°F to 1000°F.



Bearing Thermocouple

This thermocouple is used to measure gas turbine bearing temperatures of up to 500°F. Its hermetically sealed design affords protection from bearing oil.



Three (3) Dual Temperature Probe Harness. Designed for aircraft engines. Featuring high accuracy, fast time response, and long life. Utilizes high temperature (2200°F) corrosion resistant alloys in a hermetically sealed unit.

