



Temp-Pro is a premier manufacturer of temperature sensors, electrical enclosures and electro-mechanical assembly services



## A Guide to Temperature Sensors

Oil & Gas, Chemical, Petrochemical and Power Generation

- Thermocouples ● RTDs
- Thermowells
- High Temp Assemblies
- Multipoint Sensors
- Tubeskin Thermocouples
- Transmitters & Indicators
- Standard & Custom Design
- Quality Performance & Durability
- In-House Testing Services
- Exotic Flanges & Bar Stock

Temp-Pro's Complete Line of Temperature Sensors, including RTDs and Thermocouples, are engineered to meet the demanding requirements of the Oil & Gas, Chemical, Petrochemical, and Power Generation sectors.

From extreme temperatures to corrosive environments, our sensors deliver accurate data for critical decision-making.



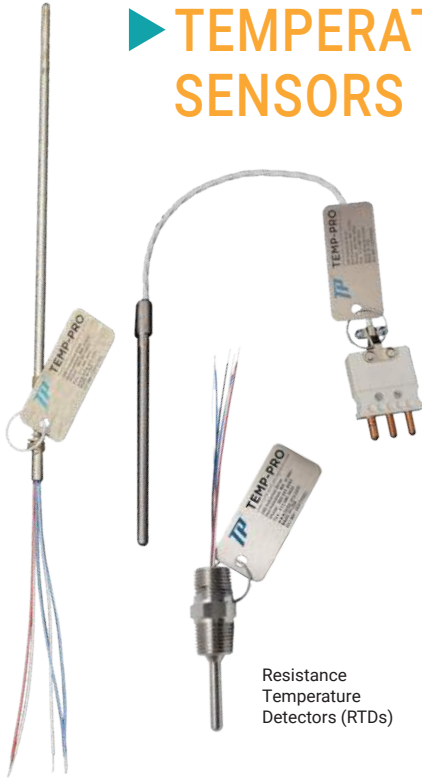
**REQUEST A FREE QUOTE FROM TEMP-PRO TODAY**

Phone: 413-584-3165 | Toll Free: 800-991-9093 | Fax: 413-586-3625 | Email: [sales@temp-pro.com](mailto:sales@temp-pro.com)  
Temp-Pro.com | 200 Industrial Drive | Northampton, MA 01060

## ▶ YOUR ONE-STOP SOURCE FOR HIGH-PERFORMANCE

At Temp-Pro, we offer a complete line of Temperature Sensors, including Thermocouples, Resistance Temperature Detectors (RTDs), and Specialty Surface Measurement Sensors and Assemblies along with Transmitters, Indicators and other accessories. With over half a century of combined experience, our team excels in the design, production, and application of precision-engineered sensors.

### ▶ TEMPERATURE SENSORS



Resistance Temperature Detectors (RTDs)

Remote Thermocouple Assembly with Armored Cable

Thermocouple with Explosion Proof Head

Thermocouple Assembly with digital display and Flanged Thermowell

Thermocouple Assembly with Ceramic Block and Pipe Protection Tube

### ▶ THERMOWELLS

Custom Sizes Available  
Variety of Materials to Choose From



Threaded Stepped Thermowell

Van Stone Thermowell

Flanged Thermowell with Velocity Collar

Flanged Straight Thermowell

Flanged Tapered Thermowell

Helical Thermowell

Socket Weld Thermowell

Weld-In Thermowell

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## Custom-Engineered and Specialty Sensors

At Temp-Pro, we design custom-engineered and specialty sensors tailored to meet the unique demands of your applications, ensuring precision, reliability, and top performance in any environment.

### TUBESKIN THERMOCOUPLES

Temp-Pro's Tubeskin Thermocouples measure temperatures of the tube wall to determine tube life and temperature trending along with detection of coke buildup on tubes.

- Expansion Loops and Bends
- Removable Thermocouple Design
- Weld Pads and Wedge Style
- Parallel or Radial Heat Shields
- Flexible Sheathed Cable, Mineral-Insulated Internal Leads
- Shock Resistant, High Mechanical Strength
- Variety of Materials



### MULTIPOINT SENSORS

Temp-Pro's Multipoint Temperature Sensors are typically used in scenarios requiring temperature profiling at multiple locations along a specified distance.

- Can be designed with thermocouples or RTDs
- Multi-level sensors (50+ feet)
- Extend service life
- Reduce replacement costs
- Reduce down time
- Operate with greater degree of safety
- High vibration
- High load stresses upon the sensor



### HIGH-TEMP ASSEMBLIES

High-Temp Assemblies are for applications where the temperatures are in excess of 2000°F/1093.3°C.

- These types of assemblies can be configured using a variety of materials and construction types
- Protection tubes can be made of Alumina, Mullite, Hexaloy, Silicon Carbide, Sapphire and Metal-Ceramic
- Platinum thermocouples are available



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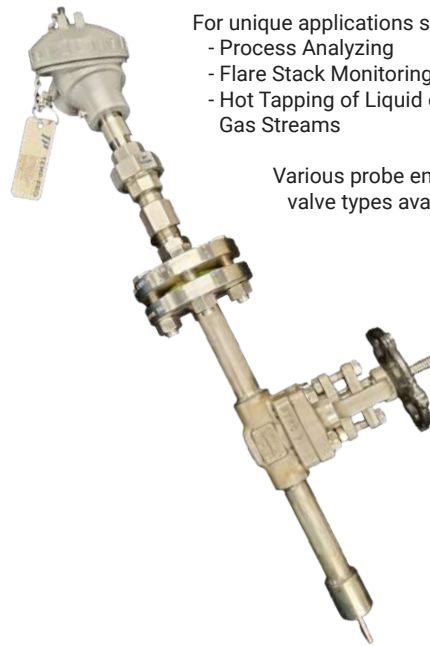
## Why Choose Temp-Pro?

- ▶ **Manufactured & Assembled in the USA:** Our sensors are crafted in world-class facilities and assembled with care, ensuring top-notch quality.
- ▶ **Proven Durability:** Rugged, reliable sensors and thermowells designed to perform in the most demanding environments.
- ▶ **Quick Turnaround:** Short lead times for standard units, minimizing downtime.
- ▶ **Reverse Engineering:** Replace legacy parts and assemblies with precision.
- ▶ **Certified Testing and Calibration:** Full testing and calibration certifications ensure accuracy and compliance.
- ▶ **Custom Inventory Support:** We stock inventory to align with your plant's material specs and requirements.

From high-quality sensors to exceptional customer service, Temp-Pro is your trusted partner for all your temperature measurement needs.

## ▶ RETRACTABLE STYLE PROBE

Temp-Pro's Retractable Style Probe Assembly allows for seamless hot-tapping of a probe into your process system through a process isolation valve. Designed for convenience and precision, this assembly ensures safe and efficient insertion without interrupting operations.



For unique applications such as:

- Process Analyzing
- Flare Stack Monitoring
- Hot Tapping of Liquid or Gas Streams

Various probe ends and valve types available



## ▶ SWAGE TIP SENSORS

Temp-Pro's Swaged Tip Thermocouples are specially designed for fast-response temperature measurement in challenging applications. The swaging process reduces the thermal sensing area, resulting in significantly faster response times. This rugged, large-diameter thermocouple features a low thermal mass reduced tip for rapid, accurate readings while maintaining high strength and durability.

Our swaged tip thermocouples offer:

- **Fast Response:** Ideal for time-critical temperature measurement.
- **Insulated Junctions:** Prevents earth loops for improved performance.
- **Customizable Shape:** Can be formed to suit specific applications without compromising accuracy.
- **Cost-Effective:** A high-performance, low-cost solution for problematical temperature measurement environments.



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