

Manufacturer of Premier Temperature Measurement Products Since 1972

tsc thermo sensors corporation

PREMIER TEMPERATURE MEASUREMENT PRODUCTS





Grounded in Texas Heritage, Driven by Decades of Innovation

Founded in 1972 on principles of engineering integrity and responsive service, Thermo Sensors Corporation continues to advance domestic manufacturing and temperature sensing technology from Garland, Texas.

THE TSC STORY

John Medcalf and Charles Blakely established a foundation of engineering integrity, quality craftsmanship, and responsive customer support. From our manufacturing facility in Garland, Texas, we remain deeply committed to domestic manufacturing excellence and American quality standards.

Over the past five decades, Thermo Sensors has evolved from a focused regional supplier into an industry-leading global provider of premier temperature measurement solutions. Through continuous technological advancement, product expansion, and strategic investment, we support mission-critical operations across refining, petrochemical, power generation, and process industries worldwide.

OUR MISSION

Thermo Sensors Corporation is committed to providing industry-leading temperature measurement solutions through exceptional quality, technical expertise, responsive service, and dependable delivery. We continuously challenge ourselves to innovate, improve, and exceed customer expectations.

HISTORY

FOUNDED
1972
John Medcalf and Charles Blakely, both from Honeywell, established TSC.

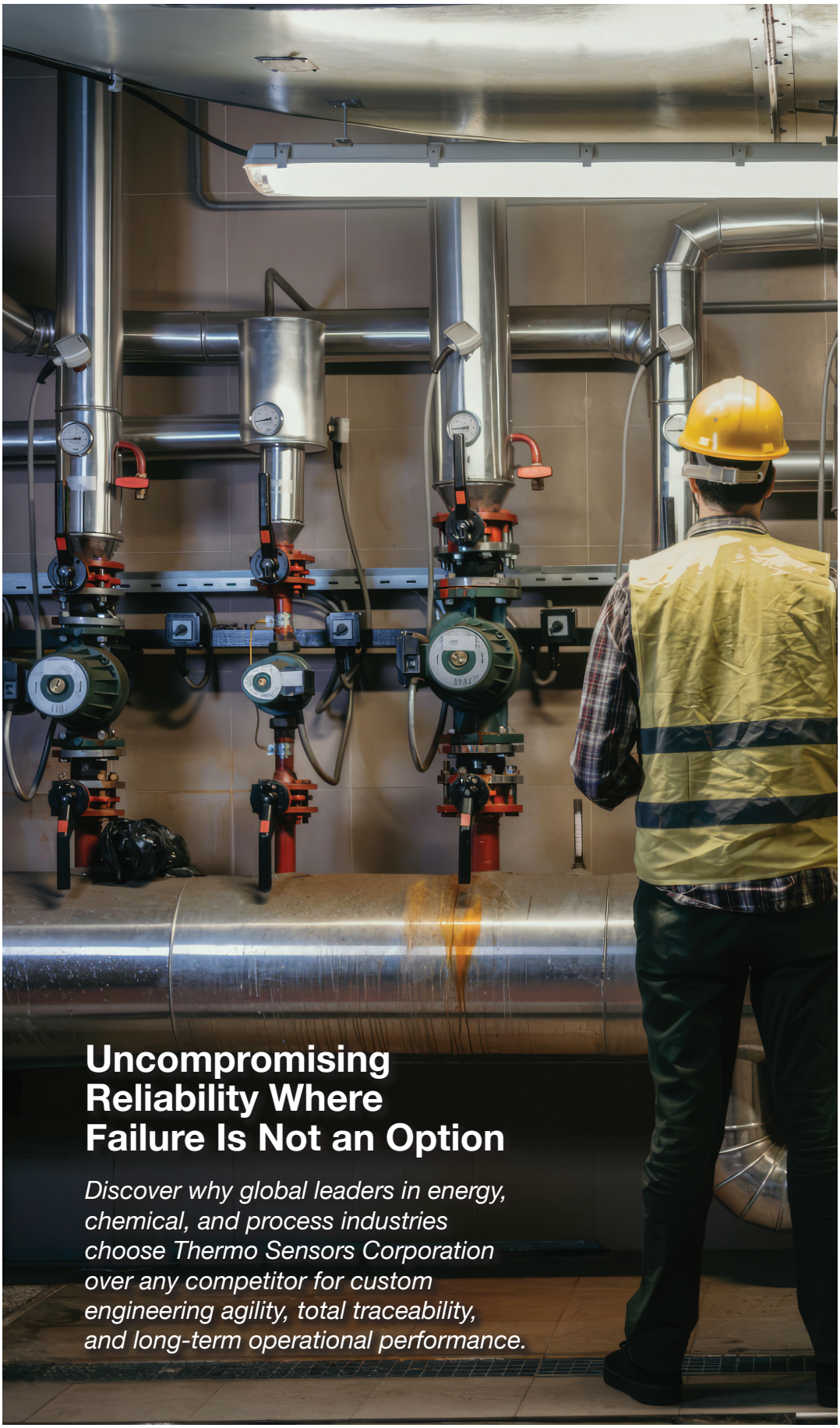
NEW FACILITY
1976
Operations move into a new, larger manufacturing facility.

EXPANSION
1996
Building expansion is completed to meet rising product demand.

NEW OWNERSHIP
2000
Mark Medcalf acquires the company from his father, John Medcalf.

GROWTH
2000's
Additional TSC sales and distribution members are added to support business growth.

TSC 2.0
Future
A vision for the next fifty years of temerature expertise.



Uncompromising Reliability Where Failure Is Not an Option

Discover why global leaders in energy, chemical, and process industries choose Thermo Sensors Corporation over any competitor for custom engineering agility, total traceability, and long-term operational performance.

Delivering Uncompromised Reliability in Critical Applications

ENGINEERING EXPERTISE
Over 50 years of application-focused problem solving tailored to complex temperature measurement environments.

MANUFACTURING EXCELLENCE
Products built from high-integrity alloys engineered to perform under extreme pressures, temperatures, and corrosive process conditions.

QUALITY COMMITMENT
Complete material traceability and stringent quality control protocols from raw stock to final inspection.

CUSTOMER PARTNERSHIP
Dedicated technical support before, during, and long after the sale to ensure optimal operational reliability.

THE VALUE PROPOSITION
Standard products solve standard problems. Thermo Sensors Corporation specializes in solving the critical applications where accuracy, reliability, and repeatability matter most. Through custom engineering, rapid manufacturing, and unwavering quality standards, we deliver temperature measurement solutions customers can depend on when failure is simply not an option.





Quality Built Into Every Stage, Verified at Every Step

From 100% material traceability and specialized manufacturing to comprehensive documentation packages, our rigorous standards guarantee peak performance in high-stakes operational environments.

At Thermo Sensors Corporation, quality is not an inspection checkpoint—it is the core of our manufacturing philosophy. As part of our TSC 2.0 growth initiative, we continue to elevate industry benchmarks through modern manufacturing infrastructure, complete material controls, and rigorous quality management systems.

QUALITY SYSTEM

- **100% Material Traceability:** Full tracking on all raw materials, heat codes, and sheath alloys.
- **Inspection Procedures:** Multi-stage dimensional, physical, and electrical testing protocols executed throughout the assembly process.
- **Raw Material Storage:** Environmental control and strict segregation of high-purity raw materials.
- **Calibration Capabilities:** In-house precision calibration testing traceable to national standards.

MANUFACTURING CAPABILITIES

- Precision Sensor Manufacturing & Sub-Assembly
- Specialized High-Tolerance Welding & Fabrication
- Automated Non-Destructive Testing & Pressure Verification

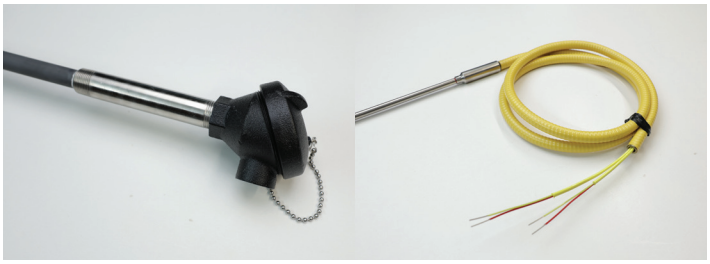
DOCUMENTATION PACKAGES

Our comprehensive quality documentation sets us apart in the industry:

- Material Test Reports (MTRs)
- Non-Destructive Evaluation (NDE) Certificates
- Traceable Calibration Certificates
- Custom Customer Data Packages & Quality Records

Precision-Engineered Temperature Solutions for Every Application

Explore our core line of high-integrity thermocouples, RTDs, thermowells, and custom assemblies engineered to perform reliably under severe thermal and mechanical stress environments.



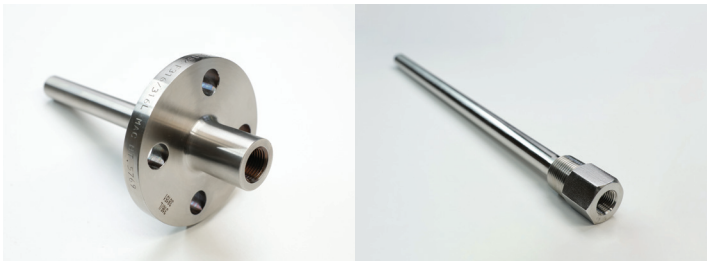
THERMOCOUPLES

Engineered for severe operating conditions, high temperatures, and harsh mechanical stress. Our mineral-insulated (MGO) and heavy-duty industrial thermocouples provide rapid response times, vibration resistance, and long-term thermal stability across challenging chemical and refining loops.



RTDS

Designed for applications where precision, thermal repeatability, and high accuracy are vital. Featuring our proprietary Reliatemp technology, these resistance temperature detectors deliver superior performance across low-to-medium industrial temperature bands.



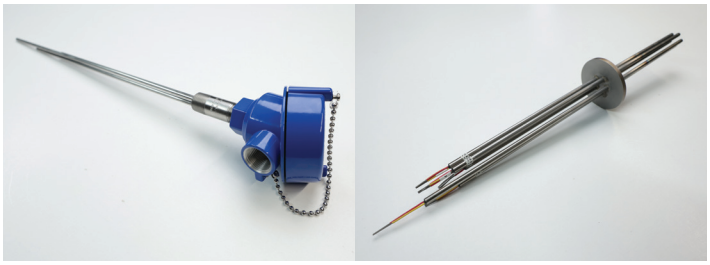
THERMOWELLS

Bar stock and heavy-wall fabricated thermowells crafted from specialized alloys to shield sensing elements against high process velocities, extreme pressures, and aggressive media. Available in flanged, threaded, socket-weld, and weld-in configurations.



TUBE SKIN THERMOCOUPLES

Specialized, high-accuracy sensors engineered specifically for fired heater tubes, boilers, and industrial furnace applications. Custom-contoured and heat-shielded to endure continuous radiant exposure and thermal cycling.



MULTIPOINT THERMOCOUPLES

Custom-designed multi-point assemblies for real-time temperature profiling in reactors, catalyst beds, and process vessels. Enables precise monitoring across axial and radial thermal gradients.



ACCESSORIES & WIRE

A complete line of connection heads, terminal blocks, transmitter pucks, mounting hardware, and extension wire assemblies to ensure seamless field installation and loop integration.



Expert Field Support and Technical Services Across the Product Lifecycle

From application design and installation oversight to field calibration and turnaround support, our technical specialists ensure seamless operational continuity.

FIELD SERVICES

- **Tube Skin Supervision:** On-site engineering support for proper layout, attachment, and installation of furnace tube skin sensors.
- **Design Assistance:** Collaborative application engineering to optimize sensor selection and thermowell design.
- **Startup Assistance:** On-site loop testing and commissioning support during plant startup phases.
- **Turnaround Support:** Dedicated emergency and scheduled turnaround teams for rapid unit overhauls.

CALIBRATION & VERIFICATION

- On-site field calibration verification and loop integrity checks.
- Functional testing and rapid diagnostic troubleshooting to minimize unit downtime.

INSTALLATION & TRAINING SUPPORT

- Field installation best-practice reviews and technical oversight.
- Custom training programs designed for site instrumentation technicians and operations engineers.

Engineering the Future of Industrial Temperature Measurement

Building on over five decades of excellence, Thermo Sensors Corporation continues to invest in advanced technology, expanded manufacturing, and enduring customer partnerships.

As global energy and chemical processing industries evolve toward greater automation and operational efficiency, Thermo Sensors Corporation remains dedicated to ongoing innovation, expanded capabilities, and strategic growth.

- **Continued Innovation:** Active R&D into next-generation sensing technologies and high-temperature materials.
- **Strategic Growth:** Expanding market coverage and investing in advanced production equipment to scale manufacturing output.
- **Commitment to Customers:** Sustained investment in quality systems, engineering talent, and rapid-response field support.



For over 53 years, customers have trusted Thermo Sensors to provide reliable temperature measurement solutions in critical applications all over the world. As we look toward the future, our commitment remains the same: providing industry-leading temperature measurement solutions through exceptional quality, technical expertise, responsive service, and dependable delivery.

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