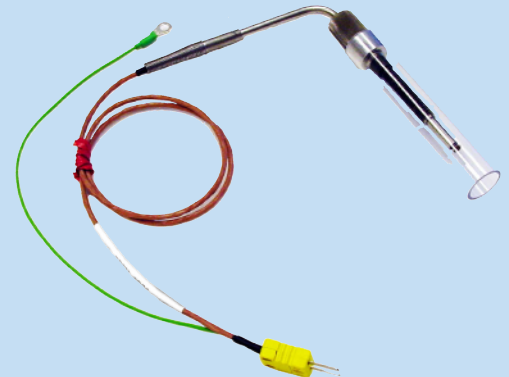


Thermocouples

Custom-Engineered Temperature Sensors

- » Custom-designed for unique customer needs
- » Built for success in adverse environments
- » Individual calibration reports available
- » Manufactured in all ANSI types
- » ISO 9001:2000 Registered
- » 30+ years experience designing and manufacturing custom sensors



Features at a glance

Celerity is the recognized market leader for temperature sensing solutions in a host of industries including: semiconductor fabrication, fuel cell development, automotive, municipal water systems, aerospace, defense, food service, and pure research. We custom design and manufacture an array of highly accurate temperature sensors, including thermocouples (of any ANSI type) and RTDs, in any custom configuration, size or shape that our clients may require. Additionally, we manufacture silicone rubber-backed heaters for heating gas line weldments, valves, filters, ampoules, and other piping components. Our extensive engineering experience has enabled us to create sensors that are used by major OEM tool manufacturers, and are deployed in a wide-range of difficult conditions.

Our thirty-plus years of experience in providing custom-engineered solutions has given us the ability to solve any thermal control challenge presented to us, no matter how unique. Our engineers work closely with our customers to seamlessly integrate thermal sensing, heating, and controls into their designs, incorporating whatever design elements are needed. To further ensure that our clients' business-critical needs are met, our manufacturing capabilities allow us to match any volume delivery they may require.



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Thermocouple technology

Celerity utilizes one of the most stable and well-understood technologies in the world for thermocouple temperature sensors. Celerity has the ability to adapt industry-standard ANSI types, each with their own optimum temperature range and application specialty, into custom-designed configurations and hardware mounts to suit customers' specific requirements. We specialize in using MIMS (mineral insulated metal sheathed) devices, and can build sensors with outside diameters from .020" to .250". We also manufacture multiple-point sensors with two or more thermocouples housed inside the same sheath for built-in redundancy and safety systems. Celerity holds multiple patents in RF shielding methodologies for thermocouples.

Celerity performs more individual device calibrations than any other thermocouple manufacturer in the world. All of our calibrated sensors can be used as NIST-traceable calibration standards. We also have proven techniques and custom electronic systems to amplify the millivolt thermocouple signal for direct interface with any standard voltage or current-based control system. This potentially eliminates the need for a separate, dedicated temperature controller.



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