

NIST-Traceable RTD & Thermocouple Calibration Services

Calibration support for engineers, quality teams, and industrial buyers who need documented temperature measurement confidence across production, validation, recertification, and drift-tracking programs.

-196°C

Cryogenic calibration support

1200°C

High-temperature calibration coverage

12 months

Annual recalibration commonly recommended

Typical Units Under Test

- Resistance Temperature Detectors (RTDs), including probes and elements
- Thermocouples and thermocouple assemblies
- Thermistors used as probes or sensing elements
- Temperature transmitters and controller validation/calibration

Reference Equipment

- Isotech milliK and millisKanner precision thermometers
- Isotech Pegasus dry block calibrator and thermocouple standard references
- Fluke PRT, SPRT, thermocouple references, dry blocks, oil baths, and TPW support

Authoritative Standards

Sensor / Program	Reference
RTDs	IEC 60751 test and comparison methods
Thermocouples	ASTM E220 and ASTM E230
Traceability	NIST-traceable reference documentation
Quality framework	ISO/IEC 17025 and ANSI/NCSL Z540 expectations where applicable

Useful Request Details

- Sensor type, construction, quantity, and serial or asset identification needs
- Required calibration points, operating range, and acceptance criteria
- As-received/as-left reporting needs and traceability expectations
- Turnaround target, PO requirements, and any customer-specific quality clauses

Thermometrics can align calibration documentation with the sensor type, required temperature points, program risk, and buyer documentation requirements. For most recurring programs, annual recalibration planning helps reduce drift risk and keeps the measurement file current.

View calibration services

Review capabilities and related standards online

Request calibration review

Send sensor type, points, range, and documentation needs

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