

# Metrology Lab



Accredited to ISO/IEC 17025:2005 & ANSI/NCSL Z540-1-1994

Parameter/Equipment	Range	Best Uncertainty (+/-)
RTDs	-196°C (Liquid Nitrogen)	0.27°C
	-80 to 0°C	0.10°C
	0°C (Ice Point)	0.01°C
	0 to 300°C	0.02°C
	300 to 400°C	0.03°C
	400 to 550°C	0.04°C
Thermocouple Type E	550 to 660°C	0.44°C
	-196°C (Liquid Nitrogen)	0.36°C
	-80 to 0°C	0.20°C
	0 to 550°C	0.33°C
Type J	550 to 660°C	0.58°C
	0 to 550°C	0.35°C
Type K	550 to 660°C	0.58°C
	-196°C (Liquid Nitrogen)	0.41°C
	-80 to 0°C	0.27°C
	0 to 550 °C	0.38°C
Type T	550 to 660°C	0.60°C
	-196°C (Liquid Nitrogen)	0.48°C
	-80 to 0°C	0.37°C
	0 to 300 °C	0.38°C
	300 to 550°C	0.46°C
	550 to 660°C	0.78°C

## Features

- A2LA Accredited
- NIST traceable
- Computer generated reports - variety of formats to meet customer needs
- Computer controlled 4 wire measurement testing utilizing LabVIEW software
- Response Time Testing based upon ASTM E-644

## American Association for Laboratory Accreditation

Our Metrology Laboratory is accredited by the American Association for Laboratory Accreditation (A2LA), which meets the requirements of ISO/IEC 17025:2005 and ANSI/NCSL Z540-1-1994. Because the A2LA has mutual recognition arrangements with other global laboratory accreditation systems, test and calibration data from NSPI's Metrology Laboratory is accepted in most countries of the world.

### The A2LA has mutual recognition arrangements with:

- The National Voluntary Laboratory Accreditation Program (NVLAP)
- Asia Pacific Laboratory Accreditation Cooperation (APLAC)
- International Laboratory Accreditation Cooperation (ILAC)
- European Cooperation for Accreditation (EA)

### Customer benefits of using a A2LA Laboratory:

- Confidence in the accuracy of the test/calibration reports
- Demonstration of traceability to a national standards lab (NIST)
- Compliance to national and international calibration standards (ANSI, IEEE, IEC, SAE, etc.)
- Fewer customer compliance audits
- Documentation of uncertainty values (for the tested/calibrated items)
- Acceptance of test/calibration results between countries (with mutual recognition arrangements)
- Reduction of technical barriers to global trade



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