

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



Ultra Electronics

NUCLEAR SENSORS & PROCESS INSTRUMENTATION

707 Jeffrey Way, PO Box 300

Round Rock, TX 78680-0300 USA

Tel: +1 512 434 2800

Fax: +1 512 434 2901

www.ultra-nspi.com

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