



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017
& ANSI/NCSL Z540-1-1994

EUSTIS CO., INC./PYROCOM CALIBRATION LAB
12407-B Mukilteo Speedway, #200
Lynnwood, WA 98087
Bill LeMesurier Phone: 425 423 9996

CALIBRATION

Valid To: October 31, 2024

Certificate Number: 2496.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations^{1, 4}:

I. Thermodynamics

Parameter/Equipment	Range	CMC ^{2,3} (±)	Comments
Temperature – Measuring Equipment			
Calibration of Thermocouples:			
Type E	-196 °C	0.29 °C	5628 PRT
Type J		0.32 °C	
Type K		0.40 °C	
Type N		0.32 °C	
Type T		0.29 °C	
Type E	(-195 to -81) °C	0.30 °C	
Type J		0.34 °C	
Type K		0.41 °C	
Type N		0.34 °C	
Type T		0.30 °C	
Type J	(-80 to -1) °C	0.30 °C	
Type E	(-80 to 100) °C	0.27 °C	
Type K		0.40 °C	
Type N		0.32 °C	
Type T		0.27 °C	
Type J	(0 to 100) °C	0.31 °C	

Parameter/Equipment	Range	CMC ^{2,3} (±)	Comments
Temperature – Measuring Equipment (cont)			
Calibration of Thermocouples:			
Type B	(25 to 100) °C	0.67 °C	5628 PRT
Type R		0.59 °C	
Type S		0.52 °C	
Type E	(101 to 125) °C	0.27 °C	
Type J		0.31 °C	
Type K		0.40 °C	
Type N		0.33 °C	
Type T		0.27 °C	
Type B	(101 to 300) °C	0.67 °C	
Type R		0.60 °C	
Type S		0.52 °C	
Type E	(126 to 300) °C	0.29 °C	
Type J		0.33 °C	
Type K		0.40 °C	
Type N		0.33 °C	
Type T		0.29 °C	
Type T	(301 to 400) °C	0.35 °C	
Type B	(301 to 600) °C	0.68 °C	
Type E		0.30 °C	
Type J		0.33 °C	
Type K		0.41 °C	
Type N		0.33 °C	
Type R		0.60 °C	
Type S		0.52 °C	
Type B	(601 to 660) °C	0.85 °C	
Type E		0.60 °C	
Type J		0.62 °C	
Type K		0.66 °C	
Type N		0.62 °C	
Type R		0.79 °C	
Type S		0.73 °C	

Parameter/Equipment	Range	CMC ^{2,3} (±)	Comments
Temperature – Measuring Equipment (cont)			
Calibration of Thermocouples:			
Type B	(661 to 700) °C	1.1 °C	Type S thermocouple
Type E		0.88 °C	
Type J		0.89 °C	
Type K		0.92 °C	
Type N		0.89 °C	
Type R		1.1 °C	
Type S		0.98 °C	
Type E	(701 to 800) °C	0.90 °C	
Type B	(701 to 1000) °C	1.1 °C	
Type J		0.91 °C	
Type K		0.94 °C	
Type N		0.91 °C	
Type R		1.1 °C	
Type S		0.99 °C	
Type B	(1001 to 1100) °C	1.3 °C	
Type K		1.2 °C	
Type N		1.2 °C	
Type R		1.3 °C	
Type S		1.2 °C	
Type B	(1101 to 1210) °C	2.8 °C	
Type K		2.7 °C	
Type N		2.7 °C	
Type R		2.7 °C	
Type S		2.7 °C	

Parameter/Equipment	Range	CMC ^{2, 3} (±)	Comments
Temperature – Measuring Equipment			
Calibration of RTDs:			
Pt 385, 100 Ω and Pt 392, 100 Ω	-196 °C	0.12 °C	5628 PRT
	(-196 to -81) °C	0.16 °C	
	(-80 to -1) °C	0.12 °C	
	(0 to 100) °C	0.13 °C	
	(101 to 300) °C	0.14 °C	
	(301 to 600) °C	0.15 °C	
	(601 to 660) °C	0.54 °C	

¹ This laboratory offers commercial calibration service.

² Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

³ The type of instrument or material being calibrated is defined by the parameter. This indicates the laboratory is capable of calibrating instruments that measure or generate the values in the ranges indicated for the listed measurement parameter.

⁴ This scope meets A2LA's *P112 Flexible Scope Policy*.



Accredited Laboratory

A2LA has accredited

EUSTIS CO., INC./PYROCOM CALIBRATION LAB

Lynnwood, WA

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements for ANSI/NCSL Z540.1-1994 and R205 – Specific Requirements: Calibration Laboratory Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 31st day of August 2022.

A blue ink signature of the Vice President of Accreditation Services, written over a horizontal line.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2496.01
Valid to October 31, 2024

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.