



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Accurate Infrared Controls, Inc.
5915 N. Austin Avenue
Chicago, IL 60646

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

CALIBRATION

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

A handwritten signature in black ink, appearing to be 'Jason Stine', is positioned above a horizontal line.

Jason Stine, Vice President

Expiry Date: 24 August 2024

Certificate Number: L2329



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
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).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Accurate Infrared Controls, Inc.

5915 N. Austin Avenue
Chicago, IL 60646
William Garcia 773-412-1200

CALIBRATION

Valid to: **August 24, 2024**

Certificate Number: **L2329**

Electrical – DC/Low Frequency

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Electrical Simulation of Infrared Instrumentation ¹	(0 to 24) mA	0.031 mA	Datel / Reed Calibrator & 3 ½ DMM
Electrical Simulation of Infrared Instrumentation ¹	(0 to 10) V	0.021 V	Datel / Reed Calibrator & 3 ½ DMM

Thermodynamic

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Infrared Instrumentation ¹	(100 to 200) °F (201 to 500) °F (501 to 1 800) °F	5.7 °F 5.7 °F 4.1 °F	Type S Thermocouple & Blackbody Cavities with Fluke 54 II – Contact Thermometry
Infrared Instrumentation ^{1,3}	(1 100 to 2 732) °F (2 733 to 3 002) °F	9.3 °F 11 °F	Type R Thermocouple & Blackbody Cavities with Fluke 54 II – Contact Thermometry
Infrared Instrumentation ¹	(1 200 to 1 500) °F (1 501 to 1 900) °F (1 901 to 2 200) °F (2 201 to 2 300) °F (2 301 to 2 550) °F (2 551 to 2 732) °F (2 733 to 3 000) °F	7.7 °F 9.6 °F 11 °F 11 °F 13 °F 15 °F 18 °F	Modline 5 – Radiation Thermometry $\lambda = (0.75 \text{ to } 1.1) \mu\text{m}$ $\epsilon = (0.1 \text{ to } 1.0)$

Thermodynamic

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Infrared Thermometers	100 °F (100 to 212) °F (213 to 392) °F (393 to 572) °F (573 to 752) °F (753 to 932) °F	5.8 °F 6.2 °F 6.6 °F 8.4 °F 11 °F 13 °F	Blackbody Cavity $\lambda = (8 \text{ to } 14) \mu\text{m}$ $\epsilon = (0.9 \text{ to } 1.0)$
Infrared Thermometers ¹	(933 to 1 120) °F (1 121 to 1 300) °F (1 301 to 1 500) °F (1 501 to 1 780) °F (1 781 to 2 000) °F (2 001 to 2 200) °F (2 201 to 2 552) °F (2 553 to 2 732) °F (2 733 to 3 002) °F	16 °F 19 °F 22 °F 27 °F 31 °F 35 °F 42 °F 46 °F 51 °F	Blackbody Cavity $\lambda = (8 \text{ to } 14) \mu\text{m}$ $\epsilon = (0.9 \text{ to } 1.0)$
Blackbody Cavities ¹	(100 to 200) °F (200 to 1 780) °F	5.3 °F 3.6 °F	Type S Thermocouple with Fluke 54 II – Contact Thermometry
	(1 100 to 1 700) °F (1 701 to 2 732) °F	5.7 °F 7.3 °F	Type R Thermocouple with Fluke 54 II – Contact Thermometry
Blackbody Cavities ¹	(1 300 to 1 600) °F (1 601 to 1 900) °F (1 901 to 2 200) °F (2201 to 2732) °F	7.9 °F 9.6 °F 11 °F 15 °F	Modline 5 – Radiation Thermometry $\lambda = 0.75 \text{ to } 1.1 \mu\text{m}$ $\epsilon = 0.1 \text{ to } 1.0$
Ovens & Chambers ¹	(100 to 1 800) °F	3.6 °F	Type S Secondary Standard TC with Fluke 54 II – Contact Thermometry
	(1 100 to 1 700) °F (1 701 to 2 732) °F	5.7 °F 7.3 °F	Type R Thermocouple with Fluke 54 II – Contact Thermometry

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 ($k=2$), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope
2. This scope is formatted as part of a single document including Certificate of Accreditation No. L2329.



Jason Stine, Vice President