CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Caley & Whitmore Corporation
500 West Cummings Park, Suite 4850
Woburn, MA 01801

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.

Jason Stine, Vice President

Expiry Date: 03 December 2025
Certificate Number: L2150

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

Caley & Whitmore Corporation
500 West Cummings Park, Suite 4850
Woburn, MA 01801
Mark LaScola 617-623-7430

CALIBRATION

Valid to: **December 3, 2025** Certificate Number: **L2150**

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Electrical Simulation of Thermocouple Indicating Devices [1]	Type J (-210 to -180) °C (-180 to -50) °C (-50 to 500) °C (500 to 1 200) °C Type K (-230 to -100) °C (-100 to 1 050) °C (1 050 to 1 371) °C Type T (-260 to -200) °C (-200 to -50) °C (-50 to 0) °C (0 to 400) °C	 0.41 °C 0.32 °C 0.25 °C 0.32 °C 0.74 °C 0.33 °C 0.42 °C 1.3 °C 0.64 °C 0.32 °C 0.25 °C	Thermocouple Calibrator

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Analytical Balances [1] (0.01 mg resolution) (0.1 mg resolution)	 (0 to 30) g (0 to 200) g	 0.09 mg 0.41 mg	ASTM E617 Class 1 weights and SOP CWPRO 2.0 utilized for the calibration of the weighing system.

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Balances [1] (1 mg resolution) (10 mg resolution) (0.1 g resolution)	 (0 to 1) kg (0 to 5) kg (0 to 10) kg	 3.7 mg 23 mg 217 mg	ASTM E617 Class 1 weights and SOP CWPRO 2.0 utilized for the calibration of the weighing system.
Scales [1] (1 g resolution)	(0 to 30) kg	2.2 g	ASTM E617 Class 1 weights and SOP CWPRO 2.0 utilized for the calibration of the weighing system.

Thermodynamic

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Chambers, Freezers, Incubators, Ovens [1]	(-35 to 300) °C	0.29 °C	RTD Probe, Digital Indicator
	(-35 to 200) °C	0.48 °C	Type T Thermocouple Probes, Fluke 51 or Fluke 52 Digital Thermometer
Digital Thermometers with Probes, Bi-metal Thermometers, Thermocouple Probes, Liquid-in-Glass Thermometers (Partial/Total Immersion)	(-35 to 300) °C	0.29 °C	Liquid Baths, RTD Probe, Digital Indicator

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. L2150.

Jason Stine, Vice President