

Scope of Accreditation For Caley & Whitmore Corporation

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In recognition of a successful assessment to ISO/IEC 17025:2005 to the following Calibration and Measurement Capabilities, accreditation has been granted to **Caley & Whitmore Corporation** for the following:

Accreditation granted through: **June 3, 2019**

Calibration

Electrical – Voltage

Calibration Parameter/Equipment ¹	Range	Expanded Uncertainty of Measurement (+/-)	Remarks
Thermocouple Millivolt Simulation, Type K	(-230 to -100) °C	1 °C	Thermocouple Calibrator
	(-100 to 1 050) °C	0.48 °C	
	(1 050 to 1 371) °C	0.54 °C	
Thermocouple Millivolt Simulation, Type T	(-260 to -200) °C	1.3 °C	
	(-200 to -50) °C	0.85 °C	
	(-50 to 0) °C	0.4 °C	
	(0 to 400) °C	0.26 °C	
Thermocouple Millivolt Simulation, Type J	(-210 to -180) °C	0.42 °C	
	(-180 to -50) °C	0.34 °C	
	(-50 to 500) °C	0.24 °C	
	(500 to 1 200) °C	0.4 °C	

Mass – Scales and Balances

Calibration Parameter/Equipment ¹	Range	Expanded Uncertainty of Measurement (+/-)	Remarks
Analytical Balances (0.01 mg resolution) (0.1 mg resolutions)	(0 to 30) g	0.08 mg	ASTM Class 1 Weights
	(0 to 200) g	0.46 mg	
Balances (1 mg resolution) (10 mg resolution) (100 mg resolution)	(0 to 1) kg	3.5 mg	
	(0 to 5) kg	23 mg	
	(0 to 10) kg	217 mg	

Calibration Parameter/Equipment ¹	Range	Expanded Uncertainty of Measurement (+/-)	Remarks
Scales (1 g resolution)	(0 to 30 kg)	2.2 g	ASTM Class 1 Weights

Thermodynamics – Thermodynamic Sources

Calibration Parameter/Equipment ¹	Range	Expanded Uncertainty of Measurement (+/-)	Remarks
Chambers, Freezers, Incubators, and Ovens	(-25 to 300) °C	0.29 °C	RTD Probe with Indicator
	(-25 to 150) °C	0.68 °C	Fluke 51/52 with Thermocouple Probes


Thermodynamics – Thermometers & Probes

Calibration Parameter/Equipment ¹	Range	Expanded Uncertainty of Measurement (+/-)	Remarks
Digital Thermometers with Probes, Bi-Metal Thermometers, Thermocouple Probes, Liquid in Glass Partial / Total immersion only	(-25 to 300) °C	0.29 °C	RTD Probe with Indicator and Baths

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and remarks. 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) Laboratory offers calibration services at the laboratory's own facilities and at the client or other agreed upon facilities.

Approved by: 
R. Douglas Leonard
Chief Technical Officer

Date: November 8, 2016

Re-issued: 5/31/16 Revised: 11/8/16