



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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CALIBRATION

Valid to: March 1, 2022

Certificate Number: AC-2565

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Electrical Simulation of Thermocouple Devices ¹	(-200 to 0) °C (0 to 400) °C	0.36 °C - 0.26 % of reading 0.37 °C	Thermocouple Calibrator Type T
	(-200 to 0) °C (0 to 1300) °C	0.3 °C - 0.25 % of reading 0.3 °C + 0.22 % of reading	Thermocouple Calibrator Type K

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) ²	Reference Standard, Method, and/or Equipment
Balances ¹	(1 to 500) mg (0.5 to 10) g (10 to 100) g (0.1 to 1) kg (1 to 10) kg	0.016 mg 0.037 mg 2.3 µg/g + 0.003 mg 2.5 µg/g + 0.0058 mg 2.4 µg/g + 0.13 mg	ASTM E617 Class 1 Test Weights



Thermodynamic

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Temperature Measurement ¹	(-196 to -100) °C (-100 to 0) °C (0 to 200) °C	1.8 °C 1 °C 1.1 °C	Temperature Meter w/ Type T Thermocouple
	(-60 to 0) °C (0 to 660) °C	2.3 °C 2.3 °C + 0.44 % of reading	Temperature Meter w/ Type K Thermocouple

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. Resolution of the unit under test is not included in the uncertainty shown but will be included when uncertainty is reported on calibration certificates.
3. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-2565.

Vice President