



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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CALIBRATION

Valid to: **May 4, 2020**

Certificate Number: **AC-1452**

Length – Dimensional Metrology

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Micrometers ¹	Up to 1 in	74 μin	Gage Blocks
Calipers ¹	Up to 12 in	790 μin	Gage Blocks

Mass and Mass Related

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Pressure Gages ¹	Up to 60 psig (60 to 200) psig (200 to 500) psig (500 to 3 000) psig (3 000 to 7 500) psig	0.027 psi 0.072 psi 0.19 psi 1.1 psi 5.5 psi	Pressure Indicator and Modules
Laboratory Balance / Scale ¹	1 mg to 5 g (0.001 mg) Up to 62 g (0.01 mg) Up to 300 g (0.01 mg) Up to 1 000 g (0.1 mg) Up to 6 000 g (0.01 g) Up to 15 000 g (0.01g) Up to 35 000 g (0.01 g)	0.044 mg 0.24 mg 0.89 mg 2.9 mg 120 mg 0.24 g 2.4 g	Class 1 Weights
Industrial Scale ¹	Up to 100 kg (0.01 kg) Up to 250 kg (0.1 kg)	0.019 kg 0.12 kg	Class F Weights
Pipettes	(0.2 to 100) μL (100 to 1 000) μL 1000 μL to 20 mL	0.036 μL 0.34 μL 1.8 μL	Laboratory Balance

Chemical Quantities

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
CO ₂ Measurement ¹	1 %	0.4 %	GD444 CO ₂ Analyzer
	5 %	0.4 %	
	10 %	0.5 %	
CO ₂ Analyzer	1 %	0.3 %	Certified gases
	5 %	0.3 %	
	10 %	0.4 %	

Time and Frequency

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
RPM Measurement ¹	(6 to 8 300) RPM	2.2 RPM	Shimpo Tachometer
	(8 300 to 19 000) RPM	2.9 RPM	

Thermodynamic

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Temperature – Measure ¹	(-196 to 300) °C	0.055 °C	Hart 1502A
Temperature-measure Thermocouples ¹	Type J	(-196 to 400) °C	HP 3457A
	Type K	(-196 to 400) °C	
	Type T	(-196 to 400) °C	
		(-196 to 400) °C	
Humidity Device Calibration	(5 to 95) % RH	0.7% RH	Dew Point Hygrometer
Humidity Measurement ¹	(0 to 90) %	1.8% RH	Vaisala RH Meter
	(90 to 100) %	2.7% RH	

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. AC-1452.



Vice President