



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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CALIBRATION

Valid to: **May 4, 2020**

Certificate Number: **AC-1452**

Chemical Quantities

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

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 (12.1 to 24) in	770 μin 740 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 15 psiv (-0.27 to -0.04) psia (-0.04 to 0.04) psia (0.04 to 0.27) psia Up to 60 psia Up to 5 psig (5 to 60) psig (60 to 200) psig (200 to 500) psig (500 to 3 000) psig (3 000 to 7 500) psig	0.005 7 psiv 0.000 4 psia 0.000 5 psia 0.000 4 psia 0.022 psia 0.003 1 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 3 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)	0.012 kg 0.12 kg	Class F Weights
Pipettes	(0.2 to 100) µL (100 to 1 000) µL 1000 µL to 20 mL	0.052 µL 0.37 µL 1.8 µL	Laboratory Balance

Thermodynamic

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Temperature – Measure ¹	(-196 to 0) °C (0 to 50) °C (50.1 to 100) °C (100.1 to 200) °C (200.1 to 300) °C	0.039 °C 0.036 °C 0.042 °C 0.044 °C 0.055 °C	Hart 1502A
Temperature-measure Thermocouples ¹ Type J Type K Type T	(-196 to 400) °C (-196 to 400) °C (-196 to 400) °C	0.29 °C 0.29 °C 0.17 °C	HP 3457A
Humidity Device Calibration	(5 to 95) % RH	0.7% RH	Dew Point Hygrometer



Thermodynamic

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Humidity Measurement ¹	(0 to 90) % (90 to 100) %	1.8% RH 2.7% RH	Vaisala RH Meter

Time and Frequency

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

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

