



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

**SiteCal, Inc.**

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**CALIBRATION**

Valid to: May 4, 2018

Certificate Number: AC-1452

**Length – Dimensional Metrology**

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Micrometers <sup>3</sup>	Up to 1 in	74 μin	Gage Blocks
Calipers <sup>3</sup>	Up to 12 in	820 μin	Gage Blocks

**Mass**

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Pressure Gages <sup>1</sup>	(-15 to 0) psig Up to 7 500 psig	0.04 % of full scale	Pressure Indicator and Modules
Laboratory Balance / Scale <sup>1</sup>	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 (0.01 g) Up to 35 000 g (0.01 g)	0.041 mg 0.25 mg 0.90 mg 3.0 mg 21 mg 45 mg 110 mg	Class 1 Weights
Industrial Scale <sup>1</sup>	Up to 100 kg (0.01 kg) Up to 250 kg (0.1 kg)	17 g 120 g	Class F Weights
Pipettes	(0.2 to 100) μL (100 to 1 000) μL 1 000 μL to 10 mL	0.035 μL 0.34 μL 1.5 μL	Laboratory Balance



**Mass**

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
CO <sub>2</sub> Measurement <sup>1</sup>	1 %	0.3 %	GD444 CO2 Analyzer
	5 %	0.3 %	
	10 %	0.4 %	
CO <sub>2</sub> Analyzer	1 %	0.3 %	Certified gases
	5 %	0.3 %	
	10 %	0.4 %	
RPM Measurement <sup>1</sup>	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 <sup>1</sup>	(-196 to 300) °C	0.05 °C	Hart 1502A
Temperature-measure Thermocouples <sup>1</sup>	Type J (-196 to 400) °C	0.29 °C	HP 3457A
	Type K (-196 to 400) °C	0.29 °C	
	Type T (-196 to 400) °C	0.15 °C	
Humidity Device Calibration	5 to 95% RH	0.7% RH	Dew Point Hygrometer
Humidity Measurement <sup>1</sup>	0 to 90%	1.9% 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