



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

SiteCal, Inc.
9975 Flanders Ct. NE
Blaine, Minnesota 55449

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

CALIBRATION

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

Jason Stine, Vice President

Expiry Date: 04 May 2026

Certificate Number: AC-1452



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory
quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

SiteCal, Inc.
 9975 Flanders Ct. NE
 Blaine, Minnesota 55449
 Jerry Flor
 763-213-1284

CALIBRATION

ISO/IEC 17025 Accreditation Granted: **04 May 2024**

Certificate Number: **AC-1452**

Certificate Expiry Date: **04 May 2026**

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 %	Measurement using GD444 CO2 Analyzer
CO ₂ Analyzer	1 % 5 % 10 %	0.3 % 0.3 % 0.4 %	Comparison to Certified gases

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Micrometers ¹	Up to 1 in	75 µin	Comparison to Gage Blocks
Calipers ¹	Up to 12 in (12.1 to 24) in	770 µin 740 µin	Comparison to Gage Blocks

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Pin and Plug Gages	Up to 0.03 in (0.04 to 4) in (4 to 6) in	11 μ in 37 μ in 54 μ in	Comparison to Gage Blocks using LabMaster Universal
Gage Block	Up to 0.05 in (0.05 to 0.5) in (0.5 to 1) in (1 to 2) in (2 to 3) in (3 to 4) in (4 to 6) in	4.6 μ in 6.2 μ in 9.5 μ in 18 μ in 26 μ in 27 μ in 51 μ in	Comparison to Gage Blocks using LabMaster Universal
Ring Gage	Up to 0.5 in (0.5 to 1) in (1 to 3) in	6.2 μ in 12 μ in 27 μ in	Comparison to Gage Blocks using LabMaster Universal
Thread Plug Gage Major Diameter Pitch	(4 to 80) TPI Up to 4 in Up to 4 in	38 μ in 81 μ in	Comparison to Gage Blocks using LabMaster Universal Thread Measuring Wires

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Pressure Gages ¹	Up to 15 psiv (-1 to 1) inH ₂ O @ 20°C (-5 to 5) inH ₂ O @ 20°C (-7.5 to 7.5) inH ₂ O @ 20°C 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 5 psiv 0.001 5 inH ₂ O 0.007 3 inH ₂ O 0.01 1 inH ₂ O 0.003 1 psig 0.027 psi 0.072 psi 0.19 psi 1.1 psi 5.5 psi	Comparison to Pressure Indicator and Modules
Laboratory Balance / Scale ¹ (0.001 mg resolution)	0 to 5 g	0.044 mg	Comparison to Class 1 Weights
(0.01 mg resolution)	0 to 62 g 0 to 300 g	0.25 mg 0.88 mg	
(0.1 mg resolution)	0 to 1 000 g	2.9 mg	

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
(0.01 g resolution)	0 to 6 000 g	21 mg	
(0.1 g resolution)	0 to 15 000 g	0.24 g	
(1 g resolution)	0 to 35 000 g	2.4 g	
Industrial Scale ¹			Comparison to Class F Weights
(0.01 kg resolution)	0 to 100 kg	0.012 kg	
(0.1 kg resolution)	0 to 250 kg	0.12 kg	
Pipettes	(0.2 to 100) µL (100 to 1 000) µL 1000 µL to 20 mL	0.052 µL 0.43 µL 1.8 µL	Comparison to Laboratory Balance

Thermodynamic

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Temperature – Measure and Source 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 0.039 °C 0.041 °C 0.048 °C	Comparison to Hart 1502A w/SPRT
Temperature-measure Thermocouples ¹			Comparison to Ectron 1140A
Type J	(-196 to 400) °C	0.13 °C	
Type K	(-196 to 400) °C	0.16 °C	
Type T	(-196 to 400) °C	0.15 °C	
Type E	(-196 to 400) °C	0.12 °C	
Humidity Device Calibration	(5 to 95) % RH	0.74% RH	Comparison to Dew Point Hygrometer
Humidity Measurement ¹	(0 to 90) % (90 to 100) %	1.9% RH 2.7% RH	Measurement using Vaisala RH Meter

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
DC Voltage – Source	Up to 330 mV 330 mV to 3.29 V (3.3 to 32.9) V (33 to 329) V (330 to 1000) V	0.009 mV 0.045 mV 0.49 mV 6.5 mV 23 mV	Comparison to Fluke 5522A
DC Voltage – Measure	Up to 100 mV 100 mV to 1 V (1 to 10) V (10 to 100) V (100 to 1000) V	0.009 3 mV 0.005 8 mV 0.055 mV 0.78 mV 8.4 mV	Measurement using HP 3458A Option 2
DC Current – Source	Up to 330 μ A 330 μ A to 3.3 mA (3.2 to 33) mA (33 to 330) mA 330 mA to 1.1 A (1.1 to 3.0) A (3.0 to 11) A (11 to 20.5) A	0.081 μ A 0.45 μ A 0.004 2 mA 0.042 mA 0.000 26 A 0.001 4 A 0.006 4 A 0.024 A	Comparison to Fluke 5522A
DC Current – Measure	Up to 100 μ A 100 μ A to 1 mA (1 to 10) mA (10 to 100) mA 100 mA to 1 A (1 to 5) A (5 to 10) A (10 to 20) A	0.003 4 μ A 0.000 03 mA 0.000 32 mA 0.004 9 mA 0.000 14 A 0.16 A 0.002 3 A 0.002 3 A	Measurement using HP 3458A Option 2 (Values over 1A shunted) Agilent 34330A Shunt
AC Voltage – Source	Up to 33 mV Up to 10 Hz (10 to 45) Hz 45 Hz to 1 kHz (1 to 10) kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 450) kHz	0.038 mV 0.038 mV 0.013 mV 0.013 mV 0.015 mV 0.046 mV 0.15 mV 0.37 mV	Comparison to Fluke 5522A

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
AC Voltage – Source	33 to 330 mV		Comparison to Fluke 5522A
	Up to 10 Hz	0.051 mV	
	(10 to 45) Hz	0.061 mV	
	45 Hz to 1 kHz	0.029 mV	
	(1 to 10) kHz	0.029 mV	
	(10 to 20) kHz	0.031 mV	
	(20 to 50) kHz	0.053 mV	
	(50 to 100) kHz	0.14 mV	
	(100 to 500) kHz	0.33 mV	
	0.33 to 3.3 V		
	Up to 10 Hz	1.3 mV	
	(10 to 45) Hz	1.3 mV	
	45 Hz to 1 kHz	0.65 mV	
	(1 to 10) kHz	0.65 mV	
	(10 to 20) kHz	0.8 mV	
	(20 to 50) kHz	1.2 mV	
	(50 to 100) kHz	2.9 mV	
	(100 to 450) kHz	10.0 mV	
	3.3 to 33 V		
	Up to 10 Hz	13 mV	
	(10 to 45) Hz	13 mV	
	45 Hz to 1 kHz	6.5 mV	
	(1 to 10) kHz	6.5 mV	
	(10 to 20) kHz	9.9 mV	
	(20 to 50) kHz	15 mV	
	(50 to 90) kHz	37 mV	
	33 to 330 V		
	Up to 45 Hz	76 mV	
	45 Hz to 1 kHz	76 mV	
	(1 to 10) kHz	84 mV	
	(10 to 20) kHz	110 mV	
	(20 to 50) kHz	42 mV	
	(50 to 100) kHz	150 mV	
	330 to 1000 V		
	Up to 45 Hz	360 mV	
	45 Hz to 1 kHz	360 mV	
	(1 to 5) kHz	310 mV	
	(5 to 10) kHz	360 mV	

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
AC Voltage - Measure	Up to 10 mV		Measurement using HP 3458A Option 2
	Up to 20 Hz	0.084 mV	
	(20 to 40) Hz	0.047 mV	
	(40 to 100) Hz	0.036 mV	
	100 Hz to 20 kHz	0.032 mV	
	(20 to 50) kHz	0.047 mV	
	(50 to 100) kHz	0.13 mV	
	(100 to 250) kHz	0.55 mV	
	(10 to 100) mV		
	Up to 20 Hz	0.49 mV	
	(20 to 40) Hz	0.2 mV	
	(40 to 100) Hz	0.081 mV	
	100 Hz to 20 kHz	0.035 mV	
	(20 to 50) kHz	0.22 mV	
	(50 to 100) kHz	0.79 mV	
	(100 to 300) kHz	2.9 mV	
	300 kHz to 1 MHz	8.1 mV	
	(1 to 2) MHz	18 mV	
	100 mV to 1 V		
	Up to 20 Hz	4.9 mV	
	(20 to 40) Hz	2 mV	
	(40 to 100) Hz	0.81 mV	
	100 Hz to 20 kHz	0.35 mV	
	(20 to 50) kHz	2.2 mV	
	(50 to 100) kHz	7.9 mV	
	(100 to 300) kHz	29 mV	
	(300 to 500) kHz	42 mV	
	500 kHz to 1 MHz	81 mV	
	(1 to 2) MHz	180 mV	
	(1 to 10) V		
	Up to 20 Hz	49 mV	
	(20 to 40) Hz	20 mV	
	(40 to 100) Hz	8.1 mV	
	100 Hz to 20 kHz	3.5 mV	
	(20 to 50) kHz	22 mV	
	(50 to 100) kHz	79 mV	
	(100 to 300) kHz	290 mV	
	300 kHz to 1 MHz	810 mV	

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
AC Voltage - Measure	(10 to 100) V Up to 20 Hz (20 to 40) Hz (40 to 100) Hz 100 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz 300 kHz to 1 MHz	0.49 V 0.2 V 0.082 V 0.047 V 0.22 V 0.79 V 2.9 V 8.1 V	Measurement using HP 3458A Option 2
	(100 to 1 000) V Up to 40 Hz (40 to 100) Hz 100 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz	2.3 V 1.2 V 0.93 V 2.2 V 9.3 V	
AC Current - Source	Up to 330 μ A Up to 10 Hz (10 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	0.88 μ A 0.69 μ A 0.6 μ A 1.4 μ A 3.3 μ A 6.6 μ A	Comparison to Fluke 5522A
	330 μ A to 3.3 mA Up to 10 Hz (10 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	0.008 2 mA 0.005 3 mA 0.004 0 mA 0.007 9 mA 0.02 mA 0.039 mA	
	(3.3 to 33) mA Up to 10 Hz 10 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	0.071 mA 0.16 mA 0.31 mA 0.08 mA 0.16 mA	

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
AC Current - Source	(33 to 330) mA Up to 10 Hz (10 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	1.6 mA 0.6 mA 0.26 mA 0.18 mA 0.35 mA 1.8 mA	Comparison to Fluke 5522A
	(0.33 to 1.1) A Up to 10 Hz (10 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	7.1 mA 5.2 mA 2.2 mA 2.2 mA 7.1 mA	
	(1.1 to 3) A Up to 10 Hz (10 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	11 mA 35 mA 0.83 mA 1.9 mA 6.5 mA	
	(3 to 11) A Up to 45 Hz (45 to 65) Hz (65 to 500) Hz 500 Hz to 1 kHz (1 to 5) kHz	11 mA 10 mA 16 mA 16 mA 390 mA	
	(11 to 20.5) A Up to 45 Hz (45 to 65) Hz (65 to 500) Hz 500 Hz to 1 kHz (1 to 5) kHz	35 mA 35 mA 42 mA 42 mA 720 mA	
AC Current - Measure	Up to 100 μ A Up to 20 Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 1 kHz	0.5 μ A 0.21 μ A 0.11 μ A 0.11 μ A	Measurement using HP 3458A Opt 2 w/ Agilent 34330A Current Shunt for values over 1 A

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
AC Current - Measure	100 μ A to 100 mA Up to 20 Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz (5 to 20) kHz (20 to 50) kHz (50 to 100) kHz	0.49 mA 0.2 mA 0.094 mA 0.061 mA 0.51 mA 0.81 mA 0.81 mA	Measurement using HP 3458A Opt 2 w/ Agilent 34330A Current Shunt for values over 1 A
	100 mA to 1 A Up to 20 Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz (5 to 20) kHz	0.016 A 0.006 6 A 0.017 A 0.018 A 0.007 3 A	
	(1 to 5) A Up to 1 kHz (1 to 5) kHz	0.17 A 0.17 A	
	(5 to 10) A Up to 1 kHz (1 to 5) kHz	0.029 A 0.15 A	
	(10 to 20) A Up to 1 kHz (1 to 5) kHz	0.012 A 0.15 A	
	Up to 10 Ω (10 to 100) Ω 100 Ω to 1.0 k Ω (1.0 to 10.0) k Ω (10.0 to 100.0) k Ω 100.0 k Ω to 1.0 M Ω (1.0 to 10.0) M Ω (10.0 to 100.0) M Ω 100.0 to 1.0 G Ω	0.012 Ω 0.004 9 Ω 0.000 095 k Ω 0.003 5 k Ω 0.003 5 k Ω 0.000 04 M Ω 0.000 99M Ω 0.02 M Ω 0.004 3 G Ω	Comparison to Fluke 5522A

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Resistance - Sense	Up to 10.0 Ω (10.0 to 100.0) Ω 100.0 Ω to 1.0 k Ω (1.0 to 10.0) k Ω (10.0 to 100.0) k Ω 100.0 k Ω to 1.0 M Ω (1.0 to 10.0) M Ω (10.0 to 100.0) M Ω	0.000 26 Ω 0.002 2 Ω 0.007 1 Ω 0.000 13 k Ω 0.001 5 k Ω 0.000 023 M Ω 0.000 74 M Ω 0.06 M Ω	Comparison to HP 3458A Option 2
Electrical Temperature Simulation Type B	(600 to 800) $^{\circ}\text{C}$ (800 to 1 000) $^{\circ}\text{C}$ (1 000 to 1 550) $^{\circ}\text{C}$ (1 550 to 1 820) $^{\circ}\text{C}$	0.38 $^{\circ}\text{C}$ 0.31 $^{\circ}\text{C}$ 0.27 $^{\circ}\text{C}$ 0.30 $^{\circ}\text{C}$	Comparison to Fluke 5522A
Type E	(-250 to -100) $^{\circ}\text{C}$ (-100 to -25) $^{\circ}\text{C}$ (-25 to 350) $^{\circ}\text{C}$ (350 to 650) $^{\circ}\text{C}$ (650 to 1 000) $^{\circ}\text{C}$	0.41 $^{\circ}\text{C}$ 0.18 $^{\circ}\text{C}$ 0.17 $^{\circ}\text{C}$ 0.18 $^{\circ}\text{C}$ 0.21 $^{\circ}\text{C}$	
Type J	(-210 to -100) $^{\circ}\text{C}$ (-100 to -30) $^{\circ}\text{C}$ (-30 to 150) $^{\circ}\text{C}$ (150 to 760) $^{\circ}\text{C}$ (760 to 1 200) $^{\circ}\text{C}$	0.25 $^{\circ}\text{C}$ 0.18 $^{\circ}\text{C}$ 0.17 $^{\circ}\text{C}$ 0.18 $^{\circ}\text{C}$ 0.22 $^{\circ}\text{C}$	
Type K	(-200 to -100) $^{\circ}\text{C}$ (-100 to -25) $^{\circ}\text{C}$ (-25 to 120) $^{\circ}\text{C}$ (120 to 1 000) $^{\circ}\text{C}$ (1 000 to 1 372) $^{\circ}\text{C}$	0.29 $^{\circ}\text{C}$ 0.19 $^{\circ}\text{C}$ 0.18 $^{\circ}\text{C}$ 0.24 $^{\circ}\text{C}$ 0.34 $^{\circ}\text{C}$	
Electrical Temperature Simulation Type N	(-200 to -100) $^{\circ}\text{C}$ (-100 to -25) $^{\circ}\text{C}$ (-25 to 120) $^{\circ}\text{C}$ (120 to 410) $^{\circ}\text{C}$ (410 to 1 300) $^{\circ}\text{C}$	0.34 $^{\circ}\text{C}$ 0.21 $^{\circ}\text{C}$ 0.19 $^{\circ}\text{C}$ 0.19 $^{\circ}\text{C}$ 0.25 $^{\circ}\text{C}$	Comparison to Fluke 5522A
Type R	(0 to 250) $^{\circ}\text{C}$ (250 to 400) $^{\circ}\text{C}$ (400 to 1 000) $^{\circ}\text{C}$ (1 000 to 1767) $^{\circ}\text{C}$	0.47 $^{\circ}\text{C}$ 0.31 $^{\circ}\text{C}$ 0.30 $^{\circ}\text{C}$ 0.34 $^{\circ}\text{C}$	

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Type S	(0 to 250) °C	0.40 °C	
	(250 to 1000) °C	0.32 °C	
	(1 000 to 1 400) °C	0.32 °C	
	(1 400 to 1 767) °C	0.39 °C	
Type T	(-250 to -150) °C	0.51 °C	
	(-150 to 0) °C	0.22 °C	
	(0 to 120) °C	0.18 °C	
	(120 to 400) °C	0.17 °C	

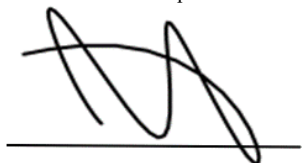
Time and Frequency

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	2.1 RPM 3.2 RPM	Comparison to Shimpo Tachometer
Optical Tachometer	(6 to 600) RPM (600 to 100 000) RPM	0.17 RPM 1.2 RPM	Comparison to Agilent 53181A
Frequency Measure	Up to 1MHz 1 MHz to 100 MHz 100 MHz to 200 MHz 200 MHz to 225 MHz	0.002 2 Hz 0.071 Hz 0.14 Hz 0.16 Hz	Measurement using Agilent 53181A
Frequency Source	Up to 119 Hz 119 Hz to 1199 Hz 1199 Hz to 11.99 kHz 11.99 kHz to 119.99 kHz 119.99 kHz to 500 kHz	0.000 32 Hz 0.003 Hz 0.034 Hz 0.3 Hz 1.3 Hz	Comparison to Fluke 743B w/ Agilent 53181A

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:

- 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.



Jason Stine, Vice President

This Scope of Accreditation, version 016, was last updated on: 20 June 2025 and is valid only when accompanied by the Certificate.

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