



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 2028

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: **22 April 2026**

Certificate Number: **AC-1452**

Certificate Expiry Date: **04 May 2028**

Chemical Quantities

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

Electrical – DC/Low Frequency

| Parameter/Equipment | Range | Expanded Uncertainty of Measurement (+/-) | Reference Standard, Method, and/or Equipment |
|----------------------|------------------|---|--|
| DC Voltage – Source | Up to 330 mV | 0.009 mV | Comparison to Fluke 5522A |
| | 330 mV to 3.29 V | 0.046 mV | |
| | (3.3 to 32.9) V | 0.49 mV | |
| | (33 to 329) V | 6.4 mV | |
| | (330 to 1000) V | 24 mV | |
| DC Voltage – Measure | Up to 100 mV | 0.009 3 mV | Measurement using HP 3458A Option 2 |
| | 100 mV to 1 V | 0.005 8 mV | |
| | (1 to 10) V | 0.055 mV | |
| | (10 to 100) V | 0.78 mV | |
| | (100 to 1000) V | 8.4 mV | |

Electrical – DC/Low Frequency

| Parameter/Equipment | Range | Expanded Uncertainty of Measurement (+/-) | Reference Standard, Method, and/or Equipment |
|----------------------|---|---|--|
| 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 3 mA 0.043 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 33 to 330 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 500) kHz | 0.039 mV 0.038 mV 0.013 mV 0.013 mV 0.015 mV 0.046 mV 0.15 mV 0.37 mV 0.067 mV 0.06 mV 0.029 mV 0.029 mV 0.031 mV 0.053 mV 0.14 mV 0.33 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 | 0.33 to 3.3 V | | Comparison to Fluke 5522A |
| | Up to 10 Hz | 1.3 mV | |
| | (10 to 45) Hz | 1.2 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 | 1.3 mV | |
| | (50 to 100) kHz | 2.9 mV | |
| | (100 to 450) kHz | 9.9 mV | |
| | 3.3 to 33 V | | |
| | Up to 10 Hz | 14 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 | 34 mV | | |
| (50 to 100) kHz | 110 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 | 370 mV | | |
| 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 | | |

Electrical – DC/Low Frequency

| Parameter/Equipment | Range | Expanded Uncertainty of Measurement (+/-) | Reference Standard, Method, and/or Equipment |
|----------------------|------------------|---|--|
| AC Voltage - Measure | (10 to 100) mV | | Measurement using HP 3458A Option 2 |
| | 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 | |
| (10 to 100) V | | | |
| Up to 20 Hz | 0.49 V | | |
| (20 to 40) Hz | 0.2 V | | |
| (40 to 100) Hz | 0.082 V | | |
| 100 Hz to 20 kHz | 0.047 V | | |
| (20 to 50) kHz | 0.22 V | | |
| (50 to 100) kHz | 0.79 V | | |
| (100 to 300) kHz | 2.9 V | | |
| 300 kHz to 1 MHz | 8.1 V | | |

Electrical – DC/Low Frequency

| Parameter/Equipment | Range | Expanded Uncertainty of Measurement (+/-) | Reference Standard, Method, and/or Equipment |
|----------------------|---|--|--|
| AC Voltage - Measure | (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 | Measurement using HP 3458A Option 2 |
| 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 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 (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 (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 (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 | 0.88 μ A 0.69 μ A 0.6 μ A 1.4 μ A 3.3 μ A 6.9 μ A 0.008 3 mA 0.005 3 mA 0.004 0 mA 0.007 9 mA 0.02 mA 0.039 mA 0.071 mA 0.16 mA 0.31 mA 0.08 mA 0.16 mA 1.6 mA 0.6 mA 0.26 mA 0.18 mA 0.35 mA 1.8 mA 7.2 mA 5.2 mA 2.2 mA 2.2 mA 7.1 mA | Comparison to Fluke 5522A |

Electrical – DC/Low Frequency

| Parameter/Equipment | Range | Expanded Uncertainty of Measurement (+/-) | Reference Standard, Method, and/or Equipment |
|----------------------|--|--|--|
| AC Current - Source | (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 (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 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 | 11 mA 35 mA 0.83 mA 1.9 mA 6.6 mA 10 mA 10 mA 16 mA 16 mA 390 mA 36 mA 35 mA 43 mA 43 mA 720 mA | Comparison to Fluke 5522A |
| 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 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 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 (1 to 5) A Up to 1 kHz (1 to 5) kHz | 0.5 μ A 0.21 μ A 0.11 μ A 0.11 μ A 0.49 mA 0.2 mA 0.094 mA 0.061 mA 0.51 mA 0.81 mA 0.81 mA 0.016 A 0.006 6 A 0.017 A 0.018 A 0.007 3 A 0.17 A 0.17 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 | (5 to 10) A Up to 1 kHz (1 to 5) kHz | 0.029 A 0.15 A | Measurement using HP 3458A Opt 2 w/ Agilent 34330A Current Shunt for values over 1 A |
| | (10 to 20) A Up to 1 kHz (1 to 5) kHz | 0.012 A 0.15 A | |
| Resistance - Source | Up to 10 Ω (10 to 100) Ω 100 Ω to 1.0 kΩ (1.0 to 10.0) kΩ (10.0 to 100.0) kΩ 100.0 kΩ to 1.0 MΩ (1.0 to 10.0) MΩ (10.0 to 100.0) MΩ 100.0 to 1.0 GΩ | 0.012 Ω 0.005 0 Ω 0.000 096 kΩ 0.003 5 kΩ 0.003 7 kΩ 0.000 04 MΩ 0.001 10 MΩ 0.03 MΩ 0.003 7 GΩ | Comparison to Fluke 5522A |
| Resistance - Sense | Up to 10.0 Ω (10.0 to 100.0) Ω 100.0 Ω to 1.0 kΩ (1.0 to 10.0) kΩ (10.0 to 100.0) kΩ 100.0 kΩ to 1.0 MΩ (1.0 to 10.0) MΩ (10.0 to 100.0) MΩ | 0.000 26 Ω 0.002 2 Ω 0.007 1Ω 0.000 13 kΩ 0.001 5 kΩ 0.000 023 MΩ 0.000 74 MΩ 0.06 MΩ | Comparison to HP 3458A Option 2 |
| Electrical Temperature Simulation - Thermocouple | Type B (600 to 800) °C (800 to 1 000) °C (1 000 to 1 550) °C (1 550 to 1 820) °C Type E (-250 to -100) °C (-100 to -25) °C (-25 to 350) °C (350 to 650) °C (650 to 1 000) °C Type J (-210 to -100) °C (-100 to -30) °C (-30 to 150) °C (150 to 760) °C (760 to 1 200) °C | 0.37 °C 0.29 °C 0.27 °C 0.29 °C 0.41 °C 0.18 °C 0.16 °C 0.18 °C 0.20 °C 0.24 °C 0.18 °C 0.16 °C 0.18 °C 0.22 °C | Comparison to Fluke 5522A |

Electrical – DC/Low Frequency

| Parameter/Equipment | Range | Expanded Uncertainty of Measurement (+/-) | Reference Standard, Method, and/or Equipment |
|--|---------------------|---|--|
| Electrical Temperature Simulation - Thermocouple | Type K | | Comparison to Fluke 5522A |
| | (-200 to -100) °C | 0.29 °C | |
| | (-100 to -25) °C | 0.19 °C | |
| | (-25 to 120) °C | 0.18 °C | |
| | (120 to 1 000) °C | 0.24 °C | |
| | (1 000 to 1 372) °C | 0.34 °C | |
| | Type N | | |
| | (-200 to -100) °C | 0.34 °C | |
| | (-100 to -25) °C | 0.21 °C | |
| | (-25 to 120) °C | 0.19 °C | |
| | (120 to 410) °C | 0.19 °C | |
| | (410 to 1 300) °C | 0.24 °C | |
| | Type R | | |
| | (0 to 250) °C | 0.46 °C | |
| | (250 to 400) °C | 0.31 °C | |
| | (400 to 1 000) °C | 0.29 °C | |
| | (1 000 to 1 767) °C | 0.34 °C | |
| | Type S | | |
| (0 to 250) °C | 0.39 °C | | |
| (250 to 1000) °C | 0.31 °C | | |
| (1 000 to 1 400) °C | 0.31 °C | | |
| (1 400 to 1 767) °C | 0.38 °C | | |
| Type T | | | |
| (-250 to -150) °C | 0.51 °C | | |
| (-150 to 0) °C | 0.24 °C | | |
| (0 to 120) °C | 0.19 °C | | |
| (120 to 400) °C | 0.19 °C | | |

Length – Dimensional Metrology

| Parameter/Equipment | Range | Expanded Uncertainty of Measurement (+/-) | Reference Standard, Method, and/or Equipment |
|--------------------------|--------------------------------|---|--|
| Micrometers ¹ | Up to 1 in | 55 µin | Comparison to Gage Blocks |
| Calipers ¹ | Up to 12 in (12.1 to 24) in | 590 µin 550 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 µin 37 µin 54 µin | Comparison to Gage Blocks using LabMaster Universal |
| Pin and Plug Gages | 0.005 to 0.060 in 0.061 to 0.130 in 0.131 to 0.200 in 0.201 to 0.251 in 0.252 to 0.330 in 0.331 to 0.410 in 0.411 to 0.510 in | 42 µin 42 µin 42 µin 42 µin 42 µin 42 µin 43 µin | Measurement using Mitutoyo Lassermike |
| 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 µin 6.2 µin 9.5 µin 18 µin 26 µin 27 µin 51 µin | 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 µin 12 µin 27 µin | 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 µin 81 µin | 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 |

Mass and Mass Related

| Parameter/Equipment | Range | Expanded Uncertainty of Measurement (+/-) | Reference Standard, Method, and/or Equipment |
|--|---|--|--|
| Laboratory Balance / Scale ¹ (0.001 mg resolution) (0.01 mg resolution) (0.1 mg resolution) (0.01 g resolution) (0.1 g resolution) (1 g resolution) | 0 to 5 g 0 to 62 g 0 to 300 g 0 to 1 000 g 0 to 6 000 g 0 to 15 000 g 0 to 35 000 g | 0.044 mg 0.25 mg 0.88 mg 2.9 mg 21 mg 0.24 g 2.4 g | Comparison to Class 1 Weights |
| Industrial Scale ¹ (0.01 kg resolution) (0.1 kg resolution) | 0 to 100 kg 0 to 250 kg | 0.012 kg 0.12 kg | Comparison to Class F Weights |
| 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 | 0.031 °C 0.036 °C 0.038 °C 0.040 °C 0.047 °C | Comparison to Hart 1502A w/SPRT |
| Temperature-measure Thermocouples ¹ Type J Type K Type T Type E | (-196 to 400) °C (-196 to 400) °C (-196 to 400) °C (-196 to 400) °C | 0.13 °C 0.16 °C 0.15 °C 0.12 °C | Comparison to Ectron 1140A |
| 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 |

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:

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.



Jason Stine, Vice President