



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017
& ANSI/NCSL Z540-1-1994

CAL-CERT COMPANY
120 South Chaparral Court, Suite 110
Anaheim Hills, CA 92808
Marshall Doyle Phone: 714 696 5300

CALIBRATION

Valid To: January 31, 2023

Certificate Number: 4986.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations^{1, 8}:

I. Dimensional

Parameter/Equipment	Range	CMC ^{2,6} (±)	Comments
Calipers ³	Up to 60 in	$0.6R + (16L + 4.1) \mu\text{in}$	CP-008, gage blocks
Micrometers – External ³	Up to 48 in	$0.6R + (3L + 10) \mu\text{in}$	CP-010, gage blocks
Dial Indicator – Mechanical/Electronic ³	Up to 6 in	$0.6R + (L + 33) \mu\text{in}$	CP-009, gage blocks
Extensometer	Up to 1 in	29 $\mu\text{in/inch}$	CP-007, linear calibrator
Depth Gage ³	Up to 8 in	$0.6R + (16L + 4.1) \mu\text{in}$	CP-115, gage blocks
Ring Gage	Up to 6 in	$(11L + 22) \mu\text{in}$	CP-115, comparator with gage blocks

Parameter/Equipment	Range	CMC ^{2, 6} (±)	Comments
Plug Gages	Up to 4 in	$(13L + 46) \mu\text{in}$	CP-115, gage blocks & comparator
Pin Gages	Up to 4 in	$(13L + 46) \mu\text{in}$	CP-115, super mic, gage blocks
Thread Plug Gages Pitch Diameter	Up to 4 in	98 μin	CP-115, super mic, gage blocks
Micrometer Standards	Up to 6 in (>6 to 12) in (>12 to 24) in (>24 to 36) in	$(15L + 18) \mu\text{in}$	CP-115, height master, riser blocks, gage blocks, & electronic pick-up
Electronic Indicators	0.25 in	$0.6R + 6 \mu\text{in}$	CP-115, gage blocks
Height Gages ³	Up to 40 in	$0.6R + (8L + 220) \mu\text{in}$	CP-115, end standards & electronic pick-up with μ -checker
Rulers ³	Up to 84 in	$(62L + 56) \mu\text{in}$	CP-115, gage blocks
Tape Measures ³	Up to 100 ft	$0.6R + (62L + 81) \mu\text{in}$	CP-115, standard rule, gage blocks
Riser Blocks	Up to 12 in	$(8.4L + 150) \mu\text{in}$	CP-115, gage blocks & μ -checker
Microscope ³	X to Y Range: (6 x 4) in 0.0001 in Resolution	1600 μin	CP-115, gage blocks & image reticles

Parameter/Equipment	Range	CMC ^{2, 6, 9} (±)	Comments
Super Micrometer ³	Up to 1 in	7 μin	CP-115, gage blocks
Protractor	(0 to 340)°	0.013°	CP-115, angle gage blocks
Displacement – Measurement ³ (Feeler Gages, Film Thickness, Etc.)	Up to 24 in	(15L + 18) μin	CP-115

II. Dimensional Inspection

Parameter/Equipment	Range	CMC ² (±)	Comments
1 – Dimensional Inspection ^{3, 4}	Up to 12 in	650 μin	CP-115, ASTM & AASHTO procedures, calipers, rulers, straight edges, & gage blocks

III. Electrical DC/Low Frequency

Parameter/Range	Frequency	CMC ^{2,5} (±)	Comments
AC Current – Generate ³			
(0.029 to 0.329 99) mA	(10 to 20) Hz (20 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.28 % + 0.18 µA 0.15 % + 0.17 µA 0.15 % + 0.29 µA 0.46 % + 0.17 µA 1.5 % + 0.17 µA	CP-033, multifunction calibrator
(0.33 to 3.2999) mA	(10 to 20) Hz (20 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.23 % + 0.47 µA 0.12 % + 0.4 µA 0.12 % + 0.4 µA 0.23 % + 0.4 µA 0.69 % + 0.3 µA	
(3.3 to 32.999) mA	(10 to 20) Hz (20 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.23 % + 4 µA 0.12 % + 3.5 µA 0.11 % + 3.4 µA 0.23 % + 3.5 µA 0.7 % + 3.4 µA	
(33 to 329.99) mA	(10 to 20) Hz (20 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.23 % + 41 µA 0.12 % + 36 µA 0.11 % + 37 µA 0.23 % + 35 µA 0.7 % + 35 µA	
(0.33 to 2.199 99) A	(10 to 20) Hz 45 Hz to 1 kHz (1 to 5) kHz	0.23 % + 350 µA 0.12 % + 350 µA 0.87 % + 350 µA	
(2.2 to 11) A	(45 to 65) Hz (65 to 500) Hz 500 Hz to 1 kHz	0.07 % + 2400 µA 0.12 % + 2400 µA 0.38 % + 2400 µA	
(11 to 550) A Toroidal Other Clamps	(40 to 400) Hz (40 to 400) Hz	1.3 % + 120 mA 1.5 % + 1 A	

Parameter/Range	Frequency	CMC ^{2,5} (\pm)	Comments
AC Current – Measure ³			
(0 to 200) μ A	(1 to 10) Hz 10 Hz to 10 kHz (10 to 30) kHz (30 to 100) kHz	0.017 % + 46 nA 0.029 % + 26 nA 0.065 % + 25 nA 0.44 % + 24 nA	CP-033, Fluke 8508A
(0.200 to 200) mA	(1 to 10) Hz 10 Hz to 10 kHz (10 to 30) kHz (30 to 100) kHz	0.015 % + 47 nA 0.029 % + 26 nA 0.065 % + 25 nA 0.44 % + 25 nA	
>200 mA to 2 A	10 Hz to 2 kHz (2 to 10) kHz (10 to 30) kHz	0.029 % + 230 μ A 0.029 % + 230 μ A 0.07 % + 230 μ A	
(>2 to 20) A	10 Hz to 2 kHz (2 to 10) kHz	0.09 % + 2.3 μ A 0.29 % + 2.3 mA	
(0 to 2500) A	60 Hz	0.33 % + 110 mA	
AC Voltage – Generate ³			
(1.0 to 32.99) mV	(10 to 45) Hz 45 Hz to 10 kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 500) kHz	0.4 % + 23 μ A 0.17 % + 23 μ A 0.23 % + 23 μ A 0.29 % + 23 μ A 0.4 % + 38 μ A 1.1 % + 95 μ A	CP-033, multifunction calibrator
(33 to 329.999) mV	(10 to 45) Hz 45 Hz to 10 kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 500) kHz	0.29 % + 58 μ A 0.057 % + 25 μ A 0.12 % + 24 μ A 0.18 % + 47 μ A 0.28 % + 200 μ A 0.8 % + 380 μ A	
(0.33 to 3.299 99) V	(10 to 45) Hz 45 Hz to 10 kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 500) kHz	0.17 % + 360 μ A 0.034 % + 67 μ A 0.09 % + 100 μ A 0.16 % + 360 μ A 0.28 % + 1.9 mA 0.58 % + 3.8 mA	

Parameter/Range	Frequency	CMC ^{2,5} (±)	Comments
AC Voltage – Generate ³ (cont)			
(3.3 to 32.9999) V	(10 to 45) Hz 45 Hz to 10 kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz	0.17 % + 650 μV 0.046 % + 0.8 mV 0.09 % + 3.1 mV 0.22 % + 5.9 mV 0.28 % + 20 mV	CP-033, multifunction calibrator
(33 to 329.999) V	45 Hz to 1 kHz (1 to 10) kHz (10 to 20) kHz	0.06 % + 1.4 mV 0.09 % + 1.4 mV 0.1 % + 1.1 mV	
(330 to 1020) V	45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.06 % + 180 μV 0.23 % + 130 μV 0.23 % + 640 μV	
AC Voltage – Measure ³			
(0 to 200) mV	(1 to 10) Hz (10 to 40) Hz (40 to 100) Hz 100 Hz to 2 kHz (2 to 10) kHz (10 to 30) kHz (30 to 100) kHz	0.014 % + 17 μV 0.014 % + 5 μV 0.012 % + 4.6 μV 0.012 % + 2.3 μV 0.012 % + 5 μV 0.04 % + 9.3 μV 0.08 % + 23 μV	CP-033, Fluke 8508A
>200 mV to 200 V	(1 to 10) Hz (10 to 40) Hz (40 to 100) Hz 100 Hz to 2 kHz (2 to 10) kHz (10 to 30) kHz (30 to 100) kHz (100 to 300) kHz 300 kHz to 1 MHz	0.012 % + 14 μV 0.012 % + 2.3 μV 0.01 % + 2.3 μV 0.007 % + 2.3 μV 0.009 % + 2.3 μV 0.023 % + 4.6 μV 0.06 % + 23 μV 0.35 % + 230 μV 1.2 % + 2.3 mV	
(>200 to 1050) V	(1 to 10) Hz (10 to 40) Hz 40 Hz to 10 kHz (10 to 30) kHz (30 to 100) kHz	0.012 % + 60 mV 0.012 % + 17 mV 0.009 % + 17 mV 0.023 % + 35 mV 0.058 % + 170 mV	
(>1 to 20) kV	(20 to 100) Hz	0.05 % + 5 V	Precision HV meter

Parameter/Equipment	Range	CMC ^{2,5} (±)	Comments
Capacitance – Generate ³	(0.33 to 0.4999) nF (0.5 to 1.0999) nF (1.1 to 3.2999) nF (3.3 to 10.999) nF (11 to 32.999) nF (33 to 109.99) nF (110 to 329.99) nF (0.33 to 1.0999) μF (1.1 to 3.2999) μF (3.3 to 10.999) μF (11 to 32.999) μF (33 to 109.99) μF (110 to 329.99) μF (330 to 1.1) mF	0.56 % + 12 pF 0.57 % + 12 pF 0.58 % + 12 pF 0.56 % + 15 pF 0.29 % + 120 pF 0.29 % + 120 pF 0.29 % + 350 pF 0.29 % + 1.2 nF 0.4 % + 3.5 nF 0.4 % + 12 nF 0.46 % + 35 nF 0.58 % + 120 nF 0.81 % + 350 nF 1.2 % + 350 nF	CP-033, standard capacitor, decade capacitor Multifunction calibrator
DC Current – Generate ³	0 to 3.299 99) mA (3.3 to 32.9999) mA (33 to 329.999) mA 330 mA to 2.199 99 A (2.2 to 11) A (11 to 16.5) A (16.5 to 150) A (150 to 500) A	0.013 % + 0.5 μA 0.01 % + 0.2 μA 0.01 % + 3.4 μA 0.03 % + 60 μA 0.05 % + 0.5 mA 0.29 % + 2.3 mA 0.29 % + 17 mA 0.29 % + 58 mA	CP-033, multifunction calibrator Fluke 5500A/coil 50 turns
DC Current – Measure ³	(0 to 2) mA (>2 to 20) mA (>20 to 200) mA >200 mA to 2 A (>2 to 20) A (0 to 2500) A	6.5 μA/A + 0.4nA 6.5 μA/A + 4 nA 8 μA/A + 40 nA 170 μA/A + 16 μA 370 μA/A + 600 μA 430 μA/A + 680 μA	CP-033, Fluke 8508A Current shunt & DMM
DC Voltage – Generate ³	(0 to 329.9999) mV 330 mV to 3.299 999 V (3.3 to 32.999 99) V (33 to 329.9999) V (100 to 1020) V	60 μV/V + 3μV 50 μV/V + 5μV 50 μV/V + 50 μV 55 μV/V + 500 μV 55 μV/V + 1.5 mV	CP-033, multifunction calibrator

Parameter/Equipment	Range	CMC ^{2,5} (±)	Comments
DC Voltage – Measure ³	(0 to 200) mV >200 mV to 2 V (>2 to 20) V (>20 to 200) V (>200 to 1000) V (20 to 200 00) V	2.7 μV/V + 100 nV 2.7 μV + 0.4 μV 2.7 μV + 4 μV 4 μV + 40 μV 4 μV + 0.5 mV 0.024 % + 39 mV	CP-033, Fluke 8508A Precision HV meter
Resistance – Generate ³	(0 to 10.99) Ω (11 to 32.999) Ω (33 to 109.999) Ω (110 to 329.999) Ω 330 Ω to 1.099 99 kΩ (1.1 to 3.299 99) kΩ (3.3 to 10.9999) kΩ (11 to 32.9999) kΩ (33 to 109.999) kΩ (110 to 329.999) kΩ 330 kΩ to 1.099 99 MΩ (1.1 to 3.299 99) MΩ (3.3 to 10.9999) MΩ (11 to 32.9999) MΩ (33 to 109.999) MΩ (110 to 330) MΩ	0.014 % + 0.009 Ω 0.14 % + 0.017 Ω 0.01 % + 0.017 Ω 0.01 % + 0.017 Ω 0.01 % + 0.07 Ω 0.004 % + 0.6 Ω 0.009 % + 0.9 Ω 0.01 % + 0.8 Ω 0.013 % + 7 Ω 0.014 % + 7 Ω 0.017 % + 64 Ω 0.009 % + 610 Ω 0.069 % + 730 Ω 0.12 % + 660 Ω 0.58 % + 6.4 kΩ 0.58 % + 20 kΩ	CP-033, multifunction calibrator
Resistance – Measure ³	(0 to 2) Ω (>2 to 20) Ω (>20 to 200) Ω >200 Ω to 2 kΩ (>2 to 20) kΩ (>20 to 200) kΩ >200kΩ to 2 MΩ (>2 to 20) MΩ (>20 to 200) MΩ >200 MΩ to 2 GΩ (>2 to 20) GΩ	2 μΩ/Ω + 96 μΩ 5 μΩ/Ω + 120 μΩ 6.7 μΩ/Ω + 390 μΩ 6 μΩ/Ω + 790 μΩ 8 μΩ/Ω + 5.8 mΩ 8.1 μΩ/Ω + 58 mΩ 8 μΩ/Ω + 580 mΩ 8.1 μΩ/Ω + 1.2 kΩ 10 μΩ/Ω + 120 Ω 35 μΩ/Ω + 120 kΩ 35 μΩ/Ω + 1.2 MΩ	CP-033, Fluke 8508A

IV. Fluid Quantities

Parameter/Equipment	Range	CMC ^{2,7} (±)	Comments
Rotational/Cups Viscometers ³	(0 to 150 000) cp	0.6 % cp	CP-100, certified viscosity reference standards

V. Mechanical

Parameter/Equipment	Range	CMC ^{2, 6, 7} (±)	Comments
Test Machine Alignment ³	Up to 30 000 lbf axial load	1.1 % Bending	CP-096, ASTM E1012 strain recorder & strain gauge bars
Mass	5 kg 2 kg 1 kg 100 g 50 g 30 g 20 g 10 g 5 g 3 g 2 g 1 g 500 mg 300 mg 200 mg 100 mg 50 mg 30 mg 20 mg 10 mg 50 lb Up to 34 000 g	58 mg 58 mg 1.6 mg 0.15 mg 0.07 mg 0.04 mg 0.03 mg 0.031 mg 0.023 mg 0.022 mg 0.02 mg 0.021 mg 0.013 mg 0.008 mg 0.008 mg 0.01 mg 0.021 mg 0.013 mg 0.01 mg 0.015 mg 140 mg 0.6R + 0.000 14 %	CP-019, analytical balance
Force – Compression ³	(0 to 2000) lbf (2000 to 10 000) lbf (10 000 to 50 000) lbf (50 000 to 100 000) lbf (100 000 to 600 000) lbf (600 000 to 1 000 000) lbf	0.19 % 0.19 % 0.19 % 0.19 % 0.2 % 0.45 %	CP-001, gram force gages, dead weights ASTM E4 method using load cells & dead weights
Force – Tension ³	(0 to 200 000) lbf	0.2 %	CP-001, ASTM E4 method using load cells & dead weights

Parameter/Equipment	Range	CMC ² (±)	Comments
Indirect Validation of Rockwell Hardness Testers ³	HRC:		CP-004, indirect method (ASTM E18) standard hardness test blocks
	Low	0.54 HRC	
	Medium	0.48 HRC	
	High	0.48 HRC	
	HRA:		
	Low	0.26 HRA	
	Medium	0.24 HRA	
	High	0.20 HRA	
	HRBW:		
	Low	0.36 HRB	
	Medium	0.37 HRB	
	High	0.44 HRB	
	HR15N:		
	Low	0.47 HR15N	
	Medium	0.29 HR15N	
	High	0.30 HR15N	
	HR30N:		
	Low	0.46 HR30N	
	Medium	0.44 HR30N	
	High	0.32 HR30N	
	HR45N:		
	Low	0.50 HR45N	
	Medium	0.23 HR45N	
	High	0.24 HR45N	
HR15T:			
Low	0.46 HR15T		
Medium	0.40 HR15T		
High	0.38 HR15T		
HR30T:			
Low	0.58 HR30T		
Medium	0.39 HR30T		
High	0.40 HR30T		
HR45T:			
Low	0.64 HR45T		
Medium	0.64 HR45T		
High	0.46 HR45T		

Parameter/Equipment	Range	CMC ^{2, 6, 7, 9} (\pm)	Comments
Durometer – Type A, B, O ³ Type C, D, DO ³	Up to 100 Points (56.08 to 820.87) g Up to 100 Points 0 g to 4.53 kg	4.7 grams 26 grams	CP-017, electronic balance
Durometer – Indenter Calibration ³	(0.096 to 0.100) in	0.000 32''	CP-017, gage blocks
Precision Balances ³	Up to 500 g 501 g to 35 kg	0.6R + 0.000 14 % 0.6R + 0.01 %	CP-002, ultra class weights
Platform Scales ³	Up to 50 lb (51 to 500) lb (501 to 5000) lb	0.6R + 0.01 %	CP-002, Class F weights
Pressure ³	(0.1 to 10 000) psi Up to 200 in·H ₂ O Up to 2000 in·H ₂ O	0.016 % 0.037 % 0.013 %	CP-003, hydraulic dead weight tester Pneumatic digital pressure indicator using digital pressure gauge
Volume – Volume Measurement ³	Up to 0.01 ft ² (0.01 to 0.05) ft ² (0.05 to 1.2) ft ²	0.009 % 0.027 % 0.014 %	CP-038 thermometer, balance
Vacuum – Measure ³	Up to 30 in·Hg	0.03 %	CP-003, vacuum gage, digital gage
Torque – Measure ³	(0 to 50) lbf·in (>50 to 750) lbf·in (25 to 250) lbf·ft (>250 to 1000) lbf·ft	0.55 % 0.55 % 0.56 % 0.59 %	CP-006, torque transducer

VI. Thermodynamics

Parameter/Equipment	Range	CMC ^{2,7,9} (±)	Comments
Humidity – Measure ³	(20 to 75) % (75 to 95) %	1.5 % 1.9 %	CP-012, digital hygrometer thermometer
Thermocouples & Thermocouple Indicators ³ – Generate & Measure			
Type B	(1200 to 3200) °F	0.47 °C	CP-012, 5500A multifunction calibrator
Type E	(-400 to 1800) °F	0.51 °C	
Type J	(-200 to 1200) °F	0.30 °C	
Type K	(-300 to 2400) °F	0.41 °C	
Type N	(-300 to 2350) °F	0.41 °C	
Type R	(30 to 3200) °F	0.85 °C	
Type S	(30 to 3200) °F	0.79 °C	
Type T	(400 to 600) °F	0.64 °C	
Type U	(-200 to 600) °F	0.38 °C	
Calibration of RTD – Generate ³			
Pt 385, 100 Ω	(-200 to 630) °C	0.12 °C	CP-012, 5500A multifunction calibrator
Pt 3926, 100 Ω	(-200 to 630) °C	0.12 °C	
Pt 3916, 100 Ω	(-200 to -190) °C	0.25 °C	
	(-190 to 600) °C	0.1 °C	
Pt 385, 200 Ω	(-200 to 600) °C	0.14 °C	
Pt 385, 500 Ω	(-200 to 600) °C	0.09 °C	
Pt 385, 1000 Ω	(-200 to 600) °C	0.07 °C	
PtNi 385, 120 Ω	(-80 to 260) °C	0.13 °C	
Cu 427, 10 Ω	(-100 to 260) °C	0.3 °C	
Thermal Ovens, Freezers, Environmental Chambers, Autoclaves, Water Baths, & Sealers ³	(-100 to 0) °C (0 to 100) °C (100 to 200) °C (200 to 400) °C (400 to 600) °C	0.3 °C 0.11 °C 0.14 °C 0.16 °C 0.17 °C	
Thermometers	(-40 to 50) °C (50 to 100) °C (100 to 200) °C (200 to 400) °C (400 to 600) °C	0.062 °C 0.028 °C 0.043 °C 0.050 °C 0.066 °C	CP-012, thermocouple/RTD meters

Parameter/Equipment	Range	CMC ^{2,6,9} (±)	Comments
IR Thermometers/ Pyrometers ³	(50 to 400) °C	10 °C	CP-012, black body, PRT, reference pyrometer
Conductivity – Generate ³	98.80 µS/cm 9.21 µS/cm	2.3 µS/cm 0.57 µS/cm	CP-024 conductivity standards
Hydrometry – Specific Gravity, Hydrometers & Equivalent Values in Other Hydrometer Scales	(>0.631 to 2) SG	0.000 54 SG	CP-020, hydrometer standards, PRT.

VII. Time & Frequency

Parameter/Equipment	Range	CMC ^{2,7,9} (±)	Comments
Frequency – Measure ³	0.33 ns to 10 s	520 ns	Universal counter
Frequency – Source ³	(0.01 to 600) MHz	29 µHz/Hz + 17 mHz	Multifunction calibrator, scope calibrator
Time Verification ³	Up to 10 Hr	0.06 s/d	Stopwatch
Stopwatches, Timers ³	24 Hr	34 ms	Vibrograf TM-4500
RPM ³	Up to 7200 RPM (7200 to 72 000) RPM (72 000 to 99 999) RPM	0.0028 % + 0.07 RPM 0.001 % + 0.2 RPM 0.0003 % to 1 RPM	Fluke 5500A, HP 53132A

¹ This laboratory offers commercial calibration service and field calibration service.

- ² Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.
- ³ This laboratory performs field calibration activities for these parameters.
- ⁴ Dimensional Inspection covers sieves, liquid limit device, grooving tool, followers, plunger, metal specimens, Kelly ball, LA abrasion, Marshall and proctor hammers, platens, expansion racks, slump cones, tampers, 123 blocks, and sample splitters.
- ⁵ The stated measured values are determined using the indicated instrument (see Comments). This capability is suitable for the calibration of the devices intended to measure or generate the measured value in the ranges indicated. CMC's are expressed as either a specific value that covers the full range or as a percent or fraction of the reading plus a fixed floor specification.
- ⁶ In the statement of CMC, SG is the numerical value of the specific gravity, R is the resolution of the unit under test, and L is the numerical value of the nominal length of the device measured in inches.
- ⁷ In the statement of CMC, percentages are percentages of reading unless otherwise noted.
- ⁸ This scope meets A2LA's *P112 Flexible Scope Policy*.
- ⁹ The type of instrument or material being calibrated is defined by the parameter. This indicates the laboratory is capable of calibrating instruments that measure or generate the values in the ranges indicated for the listed measurement parameter.



Accredited Laboratory

A2LA has accredited

CAL-CERT COMPANY

Anaheim Hills, CA

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of ANSI/NCCL Z540-1-1994 and R205 – Specific Requirements: Calibration Laboratory Accreditation Program. 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).

Presented this 20th day of January 2021.



A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4986.02
Valid to January 31, 2023
Revised September 21, 2022

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.