



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

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CALIBRATION

Valid To: December 31, 2020

Certificate Number: 1109.09

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations^{1, 7}:

I. Dimensional

Parameter/Equipment	Range	CMC ^{2, 5} (\pm)	Comments
Calipers – (Length Only)	Up to 12 in	(300 + 8L) μ in	Gage blocks
Micrometers	Up to 12 in	(68 + 8L) μ in	Gage blocks
Height Gages	Up to 18 in	(240 + 8L) μ in	Gage blocks
Height Masters	Up to 18 in	(110 + 8L) μ in	Gage blocks
Indicator	Up to 1 in (1 to 6) in	66 μ in (130 + 8L) μ in	Sylvac 80 Gage blocks
Dimensional Verification (1D)	Up to 24 in	(710 + 7.1L) μ in	Gage blocks

Parameter/Equipment	Range	CMC ² (\pm)	Comments
Angle	Up to 90°	0.11°	Sine bar

II. Electrical – DC & Low Frequency

Parameter/Equipment	Range	CMC ^{2, 3, 4} (\pm)	Comments
DC Voltage – Generate	Up to 220 mV (0.22 to 2.2) V (2.2 to 11) V (11 to 22) V (22 to 220) V (220 to 1100) V	8.9 μ V/V + 0.4 μ V 6.8 μ V/V + 0.7 μ V 4.2 μ V/V + 2.5 μ V 4.9 μ V/V + 4 μ V 5.8 μ V/V + 40 μ V 12 μ V/V + 400 μ V	Fluke 5720A
DC Voltage – Measure	Up to 200 mV 200 mV to 2 V (2 to 20) V (20 to 200) V (200 to 1000) V	5.8 μ V/V + 0.5 μ V 4.1 μ V/V + 0.2 μ V 3.5 μ V/V + 0.2 μ V 6.4 μ V/V + 0.2 μ V 8.6 μ V/V + 0.5 μ V	Fluke 8508A
DC Current – Generate	Up to 220 μ A 220 μ A to 2.2 mA (2.2 to 22) mA (22 to 220) mA 220 mA to 2.2A Up to 1 A (1 to 11) A (11 to 20.5) A	0.005 % + 6 nA 0.004 % + 7 nA 0.004 % + 40 nA 0.005 % + 0.25 μ A 0.006 % + 6 μ A 0.026 % + 40 μ A 0.059 % + 500 μ A 0.11 % + 750 μ A	Fluke 5720A Fluke 5522A
Clamp-On Meter	Up to 1050 A	0.58 % + 0.5 A	50-turn coil

Parameter/Equipment	Range	CMC ^{2, 3} (\pm)	Comments
DC Current – Measure	Up to 200 μ A 200 μ A to 2 mA (2 to 20) mA (20 to 200) mA 200 mA to 2 A (2 to 20) A	0.0033 μ A/A + 0.4 nA 0.029 μ A/A + 4 nA 0.32 μ A/A + 40 nA 11 μ A/A + 0.8 nA 0.02 % + 45 μ A 0.047 % + 0.4 mA	Fluke 8508A
Resistance – Generate	Fixed Points 1 Ω 1.9 Ω 10 Ω 19 Ω 100 Ω 190 Ω 1 k Ω 1.9 k Ω 10 k Ω 19 k Ω 100 k Ω 190 k Ω 1 M Ω 1.9 M Ω 10 M Ω 19 M Ω 100 M Ω Ranged (110 to 330) M Ω (330 to 1100) M Ω	130 μ Ω 0.15 m Ω 0.35 m Ω 0.40 m Ω 1.2 m Ω 2.1 m Ω 13 m Ω 17 m Ω 120 m Ω 150 m Ω 1.5 Ω 1.9 Ω 29 Ω 34 Ω 580 Ω 770 Ω 15 k Ω 0.41 % + 0.1 M Ω 1.9 % + 0.5 M Ω	Fluke 5720A Fluke 5522A
Resistance – Measure	Up to 2 Ω (2 to 20) Ω (20 to 200) Ω 200 Ω to 2 k Ω (2 to 20) k Ω (20 to 200) k Ω 200 k Ω to 2 M Ω (2 to 20) M Ω (20 to 200) M Ω 200 M Ω to 2 G Ω	47 μ Ω / Ω + 4 μ Ω 27 μ Ω / Ω + 14 μ Ω 19 μ Ω / Ω + 45 μ Ω 19 μ Ω / Ω + 0.45 m Ω 19 μ Ω / Ω + 5 m Ω 19 μ Ω / Ω + 50 m Ω 28 μ Ω / Ω + 1.0 Ω 0.004 % + 0.10 k Ω 0.22 % + 10 k Ω 0.24 % + 1.0 k Ω	Fluke 8508A

Parameter/Equipment	Range	CMC ^{2,3} (±)	Comments
Capacitance – Generate	(0.19 to .4) nF (0.4 to 1.1) nF (1.1 to 3.3) nF (3.3 to 11) nF (11 to 33) nF (33 to 110) nF (110 to 330) nF (0.33 to 1.1) µF (1.1 to 3.3) µF (3.3 to 11) µF (11 to 33) µF (33 to 110) µF (110 to 330) µF (0.33 to 1.1) mF (1.1 to 3.3) mF (3.3 to 11) mF (11 to 33) mF (33 to 110) mF	0.58 % + 0.06 nF 0.58 % + 0.06 nF 0.57 % + 0.01 nF 0.29 % + 0.01 nF 0.29 % + 0.1 nF 0.39 % + 0.1 nF 0.37 % + 0.3 nF 0.39 % + 1 nF 0.38 % + 3 nF 0.41 % + 10 nF 0.51 % + 30 nF 0.69 % + 100 nF 0.61 % + 0.3 µF 0.65 % + 1 µF 0.62 % + 3 µF 0.66 % + 10 µF 0.9 % + 30 µF 1.4 % + 100 µF	Fluke 5522A
Electrical Calibration of Thermocouple Indicators –			
Type E	(-250 to -100) °C (-100 to -25) °C (-25 to 350) °C (350 to 650) °C (650 to 1000) °C	0.70 °C 0.36 °C 0.31 °C 0.31 °C 0.35 °C	Fluke 5522A
Type J	(-210 to -100) °C (-100 to -30) °C (-30 to 150) °C (150 to 760) °C (760 to 1200) °C	0.42 °C 0.33 °C 0.30 °C 0.31 °C 0.37 °C	
Type K	(-200 to -100) °C (-100 to -25) °C (-25 to 120) °C (120 to 1000) °C (1000 to 1372) °C	0.46 °C 0.36 °C 0.31 °C 0.39 °C 0.58 °C	
Type T	(-250 to -150) °C (-150 to 0) °C (0 to 120) °C (120 to 400) °C	0.84 °C 0.39 °C 0.32 °C 0.31 °C	

Parameter/Range	Frequency	CMC ^{2,8} (\pm)	Comments
AC Voltage – Generate			
(Up to 2.2) mV	(10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (300 to 500) kHz 500 kHz to 1MHz	0.034 % + 4 μ V 0.084 % + 4 μ V 0.084 % + 4 μ V 0.027 % + 4 μ V 0.062 % + 5 μ V 0.13 % + 10 μ V 0.17 % + 20 μ V 0.32 % + 20 μ V	Fluke 5720A
(2.2 to 22) mV	(10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (300 to 500) kHz 500 kHz to 1MHz	0.039 % + 4 μ V 0.016 % + 4 μ V 0.016 % + 4 μ V 0.023 % + 4 μ V 0.065 % + 5 μ V 0.14 % + 10 μ V 0.19 % + 20 μ V 0.34 % + 20 μ V	
(22 to 220) mV	(10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (300 to 500) kHz 500 kHz to 1MHz	0.034 % + 12 μ V 0.011 % + 7 μ V 0.010 % + 7 μ V 0.023 % + 7 μ V 0.054 % + 17 μ V 0.11 % + 20 μ V 0.16 % + 25 μ V 0.32 % + 45 μ V	
220 mV to 2.2 V	(10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (300 to 500) kHz 500 kHz to 1 MHz	0.030 % + 40 μ V 0.012 % + 15 μ V 0.006 % + 8 μ V 0.009 % + 10 μ V 0.014 % + 30 μ V 0.050 % + 80 μ V 0.12 % + 0.2 mV 0.21 % + 0.3 mV	

Parameter/Range	Frequency	CMC ^{2, 3, 4} (\pm)	Comments
AC Voltage – Generate (cont)			
(2.2 to 22) V	(10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (300 to 500) kHz 500 kHz to 1MHz	0.032 % + 0.40 mV 0.012 % + 0.15 mV 0.006 % + 0.05 mV 0.009 % + 0.10 mV 0.013 % + 0.20 mV 0.035 % + 0.60 mV 0.12 % + 2.0 mV 0.20 % + 3.2 mV	Fluke 5720A
(22 to 220) V	(10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (300 to 500) kHz 500 kHz to 1MHz	0.033 % + 4.0 mV 0.011 % + 1.5 mV 0.007 % + 0.6 mV 0.011 % + 1.0 mV 0.019 % + 2.5 mV 0.11 % + 16 mV 0.51 % + 40 mV 0.94 % + 80 mV	
(220 to 1100) V	(15 to 50) Hz 50 Hz to 1 kHz (5 to 10) kHz	0.034 % + 16 mV 0.010 % + 3.5 mV 0.049 % + 10 mV	Fluke 5522A
AC Voltage – Measure			
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	0.03 % rdg + 0.02 % rng 0.02 % rdg + 0.01 % rng 0.05 % rdg + 0.02 % rng 0.1 % rdg + 0.05 % rng	Fluke 8508A
2 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	0.03 % rdg + 0.02 % rng 0.02 % rdg + 0.01 % rng 0.01 % rdg + 0.01 % rng 0.01 % rdg + 0.01 % rng 0.02 % rdg + 0.01 % rng 0.03 % rdg + 0.02 % rng 0.08 % rdg + 0.05 % rng 0.35 % rdg + 0.1 % rng 1.2 % rdg + 1.0 % rng	

Parameter/Range	Frequency	CMC ^{2, 3, 4} (\pm)	Comments
AC Voltage – Measure (cont)			
20 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	0.03 % rdg + 0.02 % rng 0.02 % rdg + 0.01 % rng 0.01 % rdg + 0.01 % rng 0.01 % rdg + 0.01 % rng 0.02 % rdg + 0.01 % rng 0.03 % rdg + 0.02 % rng 0.08 % rdg + 0.05 % rng 0.35 % rdg + 0.1 % rng 1.2 % rdg + 1.0 % rng	Fluke 8508A
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	0.03 % rdg + 0.02 % rng 0.02 % rdg + 0.01 % rng 0.01 % rdg + 0.01 % rng 0.01 % rdg + 0.01 % rng 0.02 % rdg + 0.01 % rng 0.03 % rdg + 0.02 % rng 0.08 % rdg + 0.05 % rng 0.35 % rdg + 0.1 % rng 1.2 % rdg + 1.0 % rng	
1000 V	(1 to 10) Hz (10 to 40) Hz 40 Hz to 10 kHz 10 kHz to 30 kHz (30 to 100) kHz	0.03 % rdg + 0.07 % rng 0.02 % rdg + 0.02 % rng 0.02 % rdg + 0.02 % rng 0.03 % rdg + 0.03 % rng 0.09 % rdg + 0.2 % rng	
AC Current – Generate			
Up to 220 μ A	(10 to 20) Hz (20 to 40) Hz 40 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	0.030 % + 16 nA 0.020 % + 10 nA 0.015 % + 8 nA 0.033 % + 12 nA 0.13 % + 65 nA 2.0 % + 0.4 μ A	Fluke 5720A Fluke 5522A

Parameter/Range	Frequency	CMC ^{2, 3, 4} (\pm)	Comments
AC Current – Generate (cont)			
(0.22 to 2.2) mA	(10 to 20) Hz (20 to 40) Hz 40 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.031 % + 41 nA 0.019 % + 36 nA 0.014 % + 36 nA 0.024 % + 0.11 μ A 0.13 % + 0.65 μ A	Fluke 5720A
	(10 to 30) kHz	1.2 % + 0.6 μ A	Fluke 5522A
(2.2 to 22) mA	(10 to 20) Hz (20 to 40) Hz 40 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	0.030 % + 0.4 μ A 0.020 % + 0.36 μ A 0.016 % + 0.36 μ A 0.024 % + 0.56 μ A 0.13 % + 5 μ A 0.51 % + 4 μ A	Fluke 5720A
(22 to 220) mA	(10 to 20) Hz (20 to 40) Hz 40 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	0.029 % + 0.4 μ A 0.019 % + 0.36 μ A 0.014 % + 0.36 μ A 0.023 % + 0.56 μ A 0.13 % + 5 μ A 0.53 % + 200 μ A	Fluke 5720A
(0.22 to 2.2) A	20 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.031 % + 36 μ A 0.053 % + 80 μ A 0.81 % + 0.16 mA	Fluke 5522A
(1.1 to 3.0) A	(10 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.21 % + 100 μ A 0.09 % + 100 μ A 0.73 % + 1 mA 3.1 % + 5 mA	Fluke 5522A
(3.0 to 11.0) A	(10 to 45) Hz 100 Hz to 1 kHz (1 to 5) kHz	0.11 % + 2 mA 0.15 % + 2 mA 3.4 % + 2 mA	
(11.0 to 20.5) A	(10 to 45) Hz 100 Hz to 1 kHz (1 to 5) kHz	0.20 % + 5 mA 0.23 % + 5 mA 3.4 % + 5 mA	
Clamp on Meter Up to 150 A (150 to 1050) A	(45 to 440) Hz (45 to 440) Hz	0.5 % + 0.14 A 0.5 % + 0.5 A	50-turn coil

Parameter/Range	Frequency	CMC ^{2,3,4} (\pm)	Comments
AC Current – Measure			
200 μ A	(1 to 10) Hz 10 Hz to 10 kHz (10 to 30) kHz (30 to 100) kHz	0.063 % rdg + 0.02 % rng 0.064 % rdg + 0.02 % rng 0.096 % rdg + 0.02 % rng 0.47 % rdg + 0.02 % rng	Fluke 8508A
2 mA	(1 to 10) Hz 10 Hz to 10 kHz (10 to 30) kHz (30 to 100) kHz	0.037 % rdg + 0.02 % rng 0.036 % rdg + 0.02 % rng 0.084 % rdg + 0.02 % rng 0.46 % rdg + 0.02 % rng	
20 mA	(1 to 10) Hz 10 Hz to 10 kHz (10 to 30) kHz (30 to 100) kHz	0.037 % rdg + 0.02 % rng 0.036 % rdg + 0.02 % rng 0.084 % rdg + 0.02 % rng 0.46 % rdg + 0.02 % rng	
200 mA	(1 to 10) Hz 10 Hz to 10 kHz (10 to 30) kHz	0.037 % rdg + 0.02 % rng 0.034 % rdg + 0.02 % rng 0.073 % rdg + 0.02 % rng	
2 A	10 Hz to 2 kHz (2 to 10) kHz (10 to 30) kHz	0.073 % rdg + 0.02 % rng 0.086 % rdg + 0.02 % rng 0.35 % rdg + 0.02 % rng	
20 A	10 Hz to 2 kHz (2 to 10) kHz	0.10 % rdg + 0.02 % rng 0.29 % rdg + 0.02 % rng	
Oscilloscopes – Bandwidth	50 kHz to 100 MHz (100 to 300) MHz (300 to 500) MHz (500 to 600) MHz (600 to 1100) MHz	1.8 % flatness 3.0 % flatness 4.6 % flatness 4.7 % flatness 7.3 % flatness	Fluke 5522A
Rise Time	1 kHz to 10 MHz	650 ps	

III. Fluid Quantities

Parameter/Equipment	Range	CMC ^{2,8} (\pm)	Comments
Gas Flow	(1 to 500 000) cm ³ /m (1 to 30 000) cm ³ /m	0.34 % of reading 0.34 % of reading	Sierra flow station DHI molbloc
Volume – To Receive	Seraphin 1 gal Seraphin 5 gal Seraphin 25 gal	3.7 in ³ 4.7 in ³ 27 in ³	Certified container
Volumetric Glassware and Volumetric Apparatus- Including: Beakers, Flasks, etc.	(1000 to 4000) mL (1 to 1000) mL	0.58 % of reading 0.12 % of reading	Gravimetric
POVA (Piston/Plunger Operated Volumetric Apparatus – Fixed and Variable) Including: Burets, Pipettes, Syringes, etc.	(10 to 1000) μ L (1 to 1000) mL	0.29 % of reading 0.34 % of reading	Gravimetric
Hydrometers	(0.7 to 1.2) sg (5 to 50) % Salt Brine	0.00095 sg 0.08 % Salt Brine	S.G. balance

IV. Mechanical

Parameter/Equipment	Range	CMC ^{2,8} (\pm)	Comments
Scales & Balances	(1 to 500) mg (1 to 200) g 200 g to 20 kg (200 to 6000) g (5 to 2500) lbs	0.0015 % of range 0.0012 % of range 0.024 % of range 0.024 % of range 0.012 % of range	ASTM class 1 ASTM class 1 ASTM class 1 ASTM class 4 ASTM class 6
Mass	Up to 200 g Up to 5000 g Up to 23 000 g (23 to 150) kg	0.001 % of reading 0.009 % of reading 0.0076 % of reading 0.091 % of reading	ASTM class 3 ASTM class 3 ASTM class 3 ASTM class 3
Torque – Application Measuring Equipment Torque Angle	(4 to 50) in·lbf 30 in·lbf to 250 ft·lbf (250 to 1000) ft·lbf (4 to 50) in·lbf (30 to 400) in·lbf (80 to 1000) in·lbf (20 to 250) ft·lbf (100 to 1000) ft·lbf Up to 360°	0.080 in·lbf 0.049 ft·lbf 0.13 ft·lbf 0.35 % of reading 0.35 % of reading 0.39 % of reading 0.38 % of reading 0.45 % of reading 0.25°	Weight set with arms Torque calibrator ATEST 180
Force – Compression and Tension	Up to 100 lbf Up to 500 lbf	0.058 lbf 0.29 lbf	Load frame and cells

Parameter/Equipment	Range	CMC ² (\pm)	Comments
Pressure –	(20 to 500) bar	0.77 bar	Kistler system 6907
	10 kPa/kg 50 kPa/kg 200 kPa/kg	30 μ Pa/Pa + 0.46 Pa 33 μ Pa/Pa + 1.2 Pa 38 μ Pa/Pa + 4.7 Pa	Fluke precision deadweight calibrator
	(up to 10/30) inH ₂ O	0.0049 % range + 0.0076 % rdg	Ruska 7250LP
	10 psi/lb 50 psi/lb	0.031 % of reading 0.029 % of reading	Ametek Type R-10 Ametek Type R-2

V. Thermodynamics

Parameter/Equipment	Range	CMC ^{2,8} (\pm)	Comments
Temperature – Measuring Equipment (Partial Immersion)	-50 °C to 150 °C -60 °C to 400 °C	0.073 °C 0.5 °C	Reference probe - Using reference probe Using G.C. oven
Triple Point (H ₂ O)	0.01 °C	0.0002 °C	Fluke 5901B-G triple point cell
Simulation	-100 °C to 100 °C	0.029 °C	Resistance standard
Dew Point – Measuring Equipment	-80 °C to 60 °C	0.21 °C @ 21.1°C	G. E. - chilled mirror
Relative Humidity – Measuring Equipment	(5 % to 40 %) R.H. (40 % to 95 %) R.H.	0.99 % R.H. @ 21.1°C 1.9 % R.H. @ 21.1°C	G. E. - chilled mirror

Parameter/Equipment	Range	CMC ^{2, 8} (\pm)	Comments
Infrared – Measuring Equipment	(-15 to 0) °C (0 to 50) °C (50 to 100) °C (100 to 120) °C (35 to 100) °C (100 to 200) °C (200 to 350) °C (350 to 500) °C	0.53 °C 0.49 °C 0.60 °C 0.67 °C 0.61 °C 0.87 °C 1.5 °C 2.0 °C	Fluke 4180 Fluke 4181

VI. Time & Frequency

Parameter/Equipment	Range	CMC ^{2, 3, 4} (\pm)	Comments
Frequency – Measuring Equipment	0.01 Hz to 2 MHz	3.3 parts in 10^6 + 5 μ Hz	Fluke 5522A
Frequency – Measure	(3 to 5) Hz (5 to 10) Hz (10 to 40) Hz 40 Hz to 300 kHz	0.12 % 0.06 % 0.04 % 0.02 %	HP 34401A

¹ This laboratory offers commercial 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. Calibration and Measurement Capabilities 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 The measurands stated are generated with the Fluke 5522A series of instruments. This capability is suitable for the calibration of the devices intended to measure the stated measurand in the ranges indicated. CMCs are expressed as either a specific value that covers the full range or as a fraction of the reading plus a fixed floor specification

⁴ The measurands stated are measured with the HP 34401A & Fluke 8508a. This capability is suitable for the calibration of the devices intended to generate the measurand in the ranges indicated. CMCs are expressed as either a specific value that covers the full range, a fraction of the reading, or as a combination of the fraction of the reading plus a range of specification or a fraction of the reading plus a fraction of the range.

⁵ In the statement of CMC, L is the numerical value of the nominal length of the device measured in inches and R is the numerical value of the resolution of the device in microinches.

⁶ Humidity values derived from dew point, pressure, and ambient temperature.

⁷ This scope meets A2LA's *P112 Flexible Scope Policy*.

⁸ 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

GM METROLOGY LABORATORY, MILFORD, MI

Milford, MI

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/NCSLI 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 23rd day of April 2019.

A handwritten signature in blue ink, appearing to read "John Doe", is placed over a blue horizontal line.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1109.09
Valid to December 31, 2020



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