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

G.T. MICHELLI COMPANY, LLC
130 Brookhollow Esplanade
Harahan, LA 70123
Dave Fenocchi Phone: 501-672-6320

CALIBRATION

Valid To: June 30, 2028 Certificate Number: 3601.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the organization's compliance with A2LA's Calibration Program Requirements), accreditation is granted to this laboratory to perform the following calibrations[1, 7]:

I. Dimensional

Parameter/Equipment	Range	CMC[2, 4] (±)	Comments
Micrometers[3] –	Up to 12 in (12 to 40) in	80 µin 590 µin	Grade 0 gage blocks
Supermicrometer	Up to 1 in	13 µin	Grade 00 gage blocks
Calipers[3]	Up to 40 in (40 to 80) in	580 µin 590 µin	Grade 0 gage blocks
Gauge Blocks	(0.05 to 20) in	$(7 + 3.1L)$ µin	P&W Labmaster™ 1000 A
Length & Travel Indicators	Up to 6 in	76 µin	Grade 0 gage blocks & granite surface plate
Height Gages[3]	Up to 24 in	670 µin	Grade 0 gage blocks & Starrett granite surface plate
Pin Gauges	Up to 12 in	$(13 + 2.5L)$ µin	P&W Labmaster™ 1000 A

Parameter/Equipment	Range	CMC[2, 4] (±)	Comments
Length Standards	Up to 80 in	(6.7 + 3.3*L*) µin	P&W Labmaster™ 1000 A
Parallels, Straight Edges, 1-2-3 Blocks –			
Parallel & Straight	Up to 40 in	45 µin	Amplifier, gage probe & surface plate
Precision Levels –			
Bubble Levels	Up to 15 in	100 µin	Precision height gage
Inclinometers, Digital Protractors	Up to 180 °	210 sec of arc	Sine plate & gage blocks
Rigid Rules	Up to 18 in	1200 µin	P&W Labmaster™ w/ Grade 0 gage blocks
Ring Gauges	Up to 18 in	(13 + 2.8*L*) µin	P&W Labmaster™ 1000 A
Tapes	Up to 95 ft	(2200 + 55*L*) µin	P&W Labmaster™ w/ Grade 0 gage blocks
Thickness Gauges	Up to 20 in	(7 + 3.1*L*) µin	P&W Labmaster™ 1000 A
Surface Plates[3] –			
Flatness	(12 to 102) in diagonal	0.0053 mm/m	Electronic level system
Repeatability	(0.000 02 to 0.002) in	31 µin	Repeat-o-meter
Threaded Plug Gages –			
Major Diameter	Up to 16 in	(13 + 2.7*D*) µin	P&W Labmaster™ 1000 A
Pitch Diameter	Up to 16 in	(45 + 1.4*D*) µin	

II. Electrical DC/Low Frequency

Parameter/Equipment	Range	CMC[2, 6] (±)	Comments
DC Voltage – Generate[3]	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	7 µV/V + 0.4 µV 3.7 µV/V + 0.7 µV 2.7 µV/V + 2.5 µV 1.4 µV/V + 4 µV 3.8 µV/V + 40 µV 4.8 µV/V + 400 µV	Fluke 5730A
	Up to 330 mV (0.33 to 3.3) V (3.3 to 33) V (33 to 330) V (330 to 1020) V	2.4 µV/V + 3 µV 2.1 µV/V + 5 µV 4.5 µV/V + 50 µV 5.5 µV/V + 500 µV 16 µV/V + 1500 µV	Fluke 5502A
Fixed Point	10 V	0.71 µV/V	Fluke 732C
DC Current – Generate[3]	Up to 220 µA (0.22 to 2.2) mA (2.2 to 22) mA (22 to 220) mA (0.22 to 2.2) A	40 µA/A + 6 nA 36 µA/A + 7 nA 36 µA/A + 40 nA 46 µA/A + 0.7 nA 84 µA/A + 12 nA	Fluke 5730A
	Up to 330 µA (0.33 to 33) mA (3.3 to 33) mA (33 to 330) mA (0.33 to 1.1) A (1.1 to 3) A (3 to 11) A (11 to 20.5) A	0.017 % + 0.07 µA 0.002 % + 0.45 µA 0.016 % + 3.6 µA 0.022 % + 36 µA 0.002 % + 44 µA 0.11 % + 1.2 mA 0.08 % + 7.5 mA 2 % + 200 mA	Fluke 5502A
	(10 to 16.5) A (16.5 to 150) A (150 to 1025) A	0.25 % + 2 mA 0.26 % + 15 mA 0.28 % + 50 mA	Fluke 5502A, 50 turn coil
DC Voltage – Measure[3]	Up to 200 mV Up to 2 V Up to 20 V Up to 200 V Up to 1000 V	0.65 µV/V + 2.0 µV 3.5 µV/V + 0.3 µV 7.7 µV/V + 0.05 µV 27 µV/V + 5.0 µV 300 µV/V + 25 µV	Fluke 8588A
	(1 to 40) kV	0.034 kV	HP 34401A w/80K-40 high voltage probe
	(5 to 100) kV	0.011 kV	Haefely-Hipotronics KVM100-W

Parameter/Range	Frequency	CMC[2, 6] (±)	Comments
AC Voltage – Generate[3]			
Up to 33 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	0.15 % + 20 µV 0.10 % + 20 µV 0.15 % + 20 µV 0.20 % + 20 µV 0.4 % + 33 µV 1.2 % + 60 µV	Fluke 5502A
(33 to 330) 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	0.055 % + 20 µV 0.033 % + 20 µV 0.073 % + 20 µV 0.10 % + 40 µV 0.23 % + 170 µV 0.50 % + 330 µV	
(0.33 to 3.3) 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	0.055 % + 60 µV 0.11 % + 60 µV 0.07 % + 60 µV 0.06 % + 60 µV 0.15 % + 0.2 mV 0.50 % + 0.9 mV	
(3.3 to 33) V	(10 to 45) Hz 45 Hz to 10 kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz	0.017 % + 0.8 mV 0.058 % + 0.6 mV 0.088 % + 0.6 mV 0.10 % + 0.6 mV 0.23 % + 0.2 mV	
(33 to 330) V	45 Hz to 1 kHz (1 to 10) kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz	0.052 % + 3 mV 0.091 % + 9 mV 0.10 % + 9 mV 0.12 % + 9 mV 0.24 % + 80 mV	
(330 to 1020) V	45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.051 % + 20 mV 0.08 % + 20 mV 0.09 % + 20 mV	
AC Current – Generate[3]			
Up to 330 µA	(10 to 20) Hz (20 to 45) Hz	0.23 % + 0.1 µA 0.25 % + 0.1 µA	Fluke 5502A with LCOMP off

Parameter/Range	Frequency	CMC[2, 6] (±)	Comments
AC Current – Generate[3] (cont)			
Up to 330 µA	45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	0.24 % + 0.1 µA 0.36 % + 0.15 µA 0.85 % + 0.2 µA 1.6 % + 0.4 µA	Fluke 5502A with LCOMP off
(0.33 to 3.3) mA	(10 to 20) Hz (20 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	0.29 % + 0.15 µA 0.24 % + 0.15 µA 0.22 % + 0.15 µA 0.28 % + 0.2 µA 0.58 % + 0.3 µA 1.0 % + 0.6 µA	
(3.3 to 33) mA	(10 to 20) Hz (20 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	0.18 % + 2 µA 0.09 % + 2 µA 0.05 % + 2 µA 0.08 % + 2 µA 0.20 % + 3 µA 0.42 % + 4 µA	
(33 to 330) mA	(10 to 20) Hz (20 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	0.18 % + 20 µA 0.09 % + 20 µA 0.04 % + 20 µA 0.10 % + 50 µA 0.20 % + 0.1 mA 0.42 % + 0.2 mA	
(0.33 to 1.1) A	(10 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.44 % + 0.1 mA 0.15 % + 0.1 mA 0.62 % + 1 mA 2.5 % + 5 mA	
(1.1 to 3) A	(10 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.19 % + 0.1 mA 0.16 % + 0.1 mA 2.1 % + 1 mA 3.2 % + 5 mA	
(3 to 11) A	(45 to 100) Hz 100 Hz to 1 kHz (1 to 5) kHz	0.41 % + 0.1 mV 0.23 % + 0.1 mV 3.0 % + 1 mV	
(11 to 20.5) A	(45 to 100) Hz 100 Hz to 1 kHz (1 to 5) kHz	0.16 % + 0.1 mV 0.19 % + 0.1 mV 3.0 % + 1 mV	

Parameter/Range	Frequency	CMC[2, 5, 6] (±)	Comments
AC Voltage –Measure			
(0 to 200) mV	(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	0.027 % + 7.3 µV 0.019 % + 7.2 µV 0.018 % + 6.0 µV 0.017 % + 7.0 µV 0.036 % + 6.4 µV 0.06 % + 30 µV	Fluke 8508A
(0 to 2) V	(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	0.029 % + 36 µV 0.029 % + 41 µV 0.006 % + 43 µV 0.031 % + 39 µV 0.031 % + 82 µV 0.030 % + 390 µV 0.043 % + 420 µV 0.13 % + 5.4 mV	
(0 to 20) V	(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	0.015 % + 460 µV 0.015 % + 400 µV 0.015 % + 420 µV 0.015 % + 380 µV 0.015 % + 970 µV 0.016 % + 6.2 mV	
(5 to 100) kV RMS (5 to 100) kV Peak/√2	(50 to 420) Hz (50 to 420) Hz	0.022 kV 0.11 kV	Haefely-Hipotronics KVM100-W
(0 to 200) V	(40 to 100) Hz 100 Hz to 2 kHz (2 to 10) kHz (10 to 30) kHz (30 to 100) kHz	0.015 % + 1.4 mV 0.015 % + 2.8 mV 0.015 % + 4.0 mV 0.015 % + 2.4 mV 0.016 % + 250 mV	Fluke 8508A
(0 to 1000) V	40 Hz to 5 kHz	0.029 % + 250 mV	
AC Current – Measure[9,10]			Fluke 8508A
Up to 200 µA	10 Hz to 10 kHz (10 To 30) kHz	0.026 % 0.065 %	
Up to 2 mA	10 Hz to 10 kHz (10 to 30) kHz	0.080 % 0.11 %	

Parameter/Equipment	Range	CMC[2, 6] (±)	Comments
Capacitance – Generate[3]	(220 to 400) pF (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	0.43 % + 0.01 nF 0.61 % + 0.01 nF 0.73 % + 0.01 nF 0.56 % + 0.01 nF 0.58 % + 0.1 nF 0.56 % + 0.1 nF 0.58 % + 0.3 nF 0.58 % + 1 nF 0.58 % + 3 nF 0.62 % + 10 nF 0.58 % + 30 nF 0.57 % + 0.1 µF 0.70 % + 0.3 µF 0.71 % + 1 µF 0.48 % + 3 µF 0.46 % + 10 µF 0.91 % + 30 µF 1.3 % + 100 µF	Fluke 5502A
Resistance – Generate[3]	Up to 11 Ω (11 to 33) Ω (33 to 110) Ω (110 to 330) Ω (0.33 to 1.1) kΩ (1.1 to 3.3) kΩ (3.3 to 11) kΩ (11 to 33) kΩ (33 to 110) kΩ (110 to 330) kΩ (0.33 to 1.1) MΩ (1.1 to 3.3) MΩ (3.3 to 11) MΩ (11 to 33) MΩ (33 to 110) MΩ (110 to 330) MΩ (0.33 to 1.1) GΩ	0.025 % + 0.001 Ω 0.014 % + 0.0015 Ω 0.01 % + 0.0014 Ω 0.01 % + 0.002 Ω 0.01 % + 0.002 Ω 0.01 % + 0.02 Ω 0.01 % + 0.02 Ω 0.01 % + 0.2 Ω 0.012 % + 0.2 Ω 0.012 % + 2 Ω 0.015 % + 2 Ω 0.015 % + 30 Ω 0.06 % + 50 Ω 0.10 % + 2.5 kΩ 0.55 % + 3 kΩ 0.52 % + 0.1 MΩ 1.3 % + 0.5 MΩ	Fluke 5502A
Resistance – Generate[3] (Fixed Values)	25 Ω 100 Ω 200 Ω 400 Ω	6.4 µΩ/Ω 5.3 µΩ/Ω 5 µΩ/Ω 5 µΩ/Ω	IET Labs SRL Resistors

Parameter/Equipment	Range	CMC[2, 6] (±)	Comments
Resistance – Generate[3] Fixed Values (cont)	1 kΩ 10 kΩ 100 kΩ 1 MΩ 10 MΩ 100 MΩ 1 GΩ 10 GΩ 100 GΩ 1 TΩ 10 TΩ	0.015 kΩ 0.015 kΩ 0.083 kΩ 0.015 MΩ 0.083 MΩ 0.083 MΩ 0.016 GΩ 0.027 GΩ 0.36 GΩ 0.58 GΩ 0.60 GΩ	IET Labs VRS-100-11-1K-BP
Resistance – Measure	Up to 2 Ω Up to 20 Ω Up to 200 Ω Up to 2 kΩ Up to 20 kΩ Up to 200 kΩ Up to 2 MΩ Up to 20 MΩ Up to 200 MΩ Up to 2 GΩ	41 µΩ /Ω + 7.6 mΩ 0.009 % + 6.4 mΩ 45 µΩ /Ω + 12 mΩ 0.012 % + 31 mΩ 30 µΩ /Ω + 150 mΩ 77 µΩ /Ω + 1.7 Ω 0.005 % + 43 Ω 0.03 % + 990 Ω 0.04 % + 15 kΩ 2.0 % + 450 kΩ	Fluke 8508A
Electrical Calibration of Thermocouple Indicators[3] – Generate & Measure			
Type E	(-250 to -100) °C (-100 to -25) °C (-25 to 350) °C (350 to 650) °C (650 to 1000) °C	0.50 °C 0.16 °C 0.14 °C 0.16 °C 0.21 °C	Fluke 5502A
Type J	(-210 to -100) °C (-100 to -30) °C (-30 to 150) °C (150 to 760) °C (760 to 1200) °C	0.28 °C 0.17 °C 0.15 °C 0.18 °C 0.24 °C	
Type K	(-200 to -100) °C (-100 to -25) °C (-25 to 120) °C (120 to 1000) °C (1000 to 1372) °C	0.33 °C 0.19 °C 0.17 °C 0.26 °C 0.40 °C	

Parameter/Equipment	Range	CMC[2, 6] (±)	Comments
Electrical Calibration of Thermocouple Indicators[3] – Generate & Measure (cont)			
Type T	(-250 to -150) °C (-150 to 0) °C (0 to 120) °C (120 to 400) °C	0.63 °C 0.24 °C 0.16 °C 0.14 °C	Fluke 5502A
Electrical Calibration of RTD Indicators[3] – Generate			
Pt 385, 100 Ω	(-200 to -80) °C (-80 to 0) °C Up to 100 °C (100 to 300) °C (300 to 400) °C (400 to 630) °C (630 to 800) °C	0.07 °C 0.07 °C 0.10 °C 0.13 °C 0.15 °C 0.17 °C 0.33 °C	Fluke 5502A
Oscilloscope[3] –			
DC Volt Function Into 50 Ω	Up to 6.6 V	0.23 mV	Fluke 5502A/SC600
Into 1 MΩ	(1 to 2.5) mV (2.5 to 500) mV (1 to 2.2) V (2.3 to 11) V (12 to 130) V	0.014 mV 0.019 mV 0.082 mV 0.27 mV 1.1 mV	
Square Wave Signal 10 Hz to 10 kHz Into 50 Ω	1 mV to 6.6 V	0.43 mV	
Into 1 MΩ	(1 to 25) mV (26 to 110) mV (111 to 500) mV (1 to 2.2) V (2.3 to 11) V (11 to 130) V	0.045 mV 0.018 mV 0.061 mV 0.24 mV 0.35 mV 17 mV	

Parameter/Equipment	Range	CMC[2] (±)	Comments
Oscilloscope[3] – (cont)			
Level Sinewave Signal 5 mV to 5.5 V Into 50 Ω	50 kHz 51 kHz to 100 MHz (101 to 300) MHz (301 to 600) MHz	0.024 mV 0.093 mV 0.11 mV 0.87 mV	Fluke 5502A/SC600
Time Markers Into 50 Ω 1 V-pk	5 s to 2 ns	0.05 ns	

V. Mechanical

Parameter/Equipment	Range	CMC[2] (±)	Comments
Scales & Balances[3]	1 mg to 100 g (101 to 300) g (301 to 1000) g (1001to 2000) g	(2.00E-4 + 1.05-8Wt) g (1.20E-3 + 4.30E-9Wt) g (2.40E-3 + 6.90E-9Wt) g (5.80E-3 + 6.40E-9Wt) g	Class 1 mass
	(0.1 to 1) lb (1.1 to 5) lb (5.1 to 50) lb (50.1 to 500) lb (501 to 2500) lb (2501 to 5000) lb (5001 to 10000) lb (10001 to 20000) lb (20001 to 50000) lb (60001 to 120 000)lb (100001 to 350 000) lb	(2.00E-4 + 5.45E-7Wt) lb (6.00E-4 + 5.49E-7Wt) lb (5.80E-3 + 7.71E-7Wt) lb (5.82E-2 + -7.66E-7Wt) lb (2.88E-1 + 8.36E-7Wt) lb (5.76E-1 + 1.05E-6Wt) lb (1.1513 + 1.05E-6Wt) lb (2.3025 + 1.05E-6Wt) lb (6.9143 + 9.33E-7Wt) lb (18.6743 + 7.39E-5Wt) lb (40.1721 + 2.63E-6Wt) lb	Class 5 weights

Parameter/Equipment	Range	CMC[2, 5, 8] (±)	Comments
Scales & Balances[3] (cont)			
Truck & Rail Scales[3]	(0.05 to 100) g (101 to 200) g (201 to 1000) g (1001 to 2000) g	(1.16E-2 + 1.00E-10Wt) g (2.31E-2 + 1.00E-10Wt) g (1.16E-1 + 1.00E-10Wt) g (2.31E-1 + 1.00E-10Wt) g	Class 5 mass
Tank & Hopper Scales[3] -Force Method	(2.1 to 5) kg (5.1 to 10) kg (10.1 to 50) kg (50.1 to 100) kg (101 to 1000) kg (1001 to 5000) kg (5001 to 10000) kg	(6.00E-4 + 9.99E-7Wt) kg (1.20E-3 + 9.71E-7Wt) kg (5.80E-3 + 1.08E-6Wt) kg (1.16E-2 + 1.35E-6Wt) kg (1.15E-1 + 1.03E-6Wt) kg (5.77E-1 + 1.13E-6Wt) kg (1.1501 + 1.14E-6Wt) kg	
	40 lb to 60000 lb 60001 lb to 200000 lb 200001 lb to 400000 lb	(6.9282 + 6.97E-7Wt) lb (23.0521 + 9.09E-7Wt) lb (46.0484 + 1.05E-6WT) lb	Class 5 weights
	(10 000 to 50 000) lbf (20 000 to 100 000) lbf (30 000 to 150 000) lbf (40 000 to 200 000) lbf	48 lbf 69 lbf 83 lbf 96 lbf	Tank Scale Kit one 50 klbf load cell two 50 klbf load cell three 50 klbf load ce our 50 klbf load cells

Parameter/Equipment	Range	CMC[2, 5, 8] (±)	Comments
Torque – Measuring Equipment[3]	(10 to 100) ozf ·in (2.5 to 25) lbf·in (5 to 50) lbf·ft (10 to 100) lbf·in (50 to 500) lbf·in (25 to 250) lbf·ft (250 to 2500) lbf·ft	(0.63% + 0.006) ozf·in (0.55% + 0.013) lbf·in (0.58% + 0.008) lbf·in (0.63% + 0.004) lbf·in (0.62% + 0.01) lbf·in (0.60% + 0.01) lbf·ft (0.60% + 0.10) lbf·ft	Norbar
	Up to 6 lbf·in (6 to 60) lbf·in Up to 5 lbf·ft (5 to 50) lbf·ft Up to 80 lbf·ft (80 to 800) lbf·ft	0.0093 lbf·in (0.11% + 0.008)lbf·in 0.0093 lbf·ft (0.12% + 0.006) lbf·ft 0.18 lbf·ft (0.12% + 0.15) lbf·ft	AKO
	(5 to 10) lbf·in (10 to 50) lbf·in (50 to 100) lbf·in (100 to 500) lbf·in (25 to 50) lbf·ft (50 to 250) lbf·ft (100 to 200) lbf·ft (200 to 1000) lbf·ft	1.2% 0.61% 1.2% 0.61% 0.92% + 0.12 0.6% 1.1% + 0.1 0.6%	Mountz
	(250 to 2500) lbf·ft (750 to 7500) lbf·ft (2500 to 25 000) lbf·ft	0.6% 0.6% 0.6%	AWS
Force – Measuring Equipment[3]			
Compression &Tension	(20 000 to 200 000) lbf	65 lbf	Load cells
Compression Tension	(2000 to 20 000) lbf (2000 to 20 000) lbf	47 lbf 15 lbf	
Compression	(5000 to 150 000) lbf (160 000 to 350 000) lb	64 lbf 250 lbf	Universal Calibration Machine

Parameter/Equipment	Range	CMC[2, 5, 8] (±)	Comments
Force – Measuring Equipment[3] (cont)			
Tension	(5000 to 100 000) lbf f (160 000 to 350 000) lbf	36 lbf 1300 lbf	Universal Calibration Machine
Compression & Tension	(0.5 to 25) lbf (2 to 100) lbf (10 to 500) lbf (2000 to 10 000) lbf	0.018 lbf 0.02 lbf 0.12 lbf 0.54 lbf	Force Calibration Machine
Compression	(3000 to 135 000) lbf (10 000 to 500 000) lbf (27 000 to 500 000) lbf	150 lbf 250 lbf 1300 lbf	Load Cell
Pressure – Measuring Equipment[3]	(-15 to 0) psig (0 to 30) psig (0 to 100) psig (0 to 500) psig (0 to 1000) psig (0 to 2000) psig (0 to 5000) psig (0 to 10 000) psig (0 to 20 000) psig (0 to 40 000) psig	0.0037 psig 0.0079 psig 0.027 psig 0.12 psig 0.25 psig 0.51 psig 1.3 psig 2.7 psig 12 psig 47 psig	Digital pressure gauges
	(0 to 15) psig (-15 to 3000) psig (-13.2 to 15) psig (-12.1 to 100) psig (-5 to 300) psig (0 to 1000) psig	0.005% + 0.00075 psig 0.0053% + 0.15 psig 0.0037% + 0.00095 psig 0.0062% + 0.0038 psig 0.0069% + 0.0093 psig 0.007% + 0.03 psig	Pressure Modules - Gauge Mode
	(1.5 to 30) psia (2.6 to 100) psia (10 to 300) psia (ATM to 1000) psia	0.0074% + 0.00079 psia 0.0072% + 0.0028 psia 0.0072% + 0.0083 psia 0.0071% + 0.0029 psia	Pressure Modules – Absolute Mode

VII. Thermodynamics

Parameter/Equipment	Range	CMC[2, 8] (±)	Comments
Temperature – Measure[3]	(-197 to 0) °C Up to 157 °C (157 to 232) °C (232 to 420) °C (420 to 660) °C (-197 to 0) °C Up to 157 °C (157 to 232) °C (232 to 420) °C	0.027 °C 0.027 °C 0.027 °C 0.029 °C 0.053 °C 0.017 °C 0.017 °C 0.017 °C 0.026 °C	Fluke 9144 field metrology well with Fluke 5609 PRT Fluke 1502A, 5616 PRT
Temperature – Measuring Equipment[3]	Up to 50 °C (50 to 200) °C (200 to 420) °C (420 to 550) °C (550 to 660) °C	0.08 °C 0.11 °C 0.14 °C 0.17 °C 0.2 °C	Fluke 9144 field metrology well
Infrared Temperature – Measuring Equipment[3]	35 °C (35 to 100) °C (100 to 200) °C (200 to 350) °C (350 to 500) °C	0.45 °C 0.63 °C 0.90 °C 1.4 °C 2.1 °C	Fluke 4181 Blackbody - emissivity 0.95 wavelength 8 to 14 µm
Humidity – Measure[3]	(11 to 49) % RH (50 to 79) % RH 80 % RH (10-95)% RH	1.9% RH 2.0 % RH 2.1% RH 0.5% RH	Vaisala HM45/HMP113 temp/humidity meter w/probe Thunder Scientific 2500

VIII. Time & Frequency

Parameter/Equipment	Range	CMC[2, 6] (±)	Comments
Frequency – Measuring Equipment[3]	(0.01 to 119.99) Hz (120 to 1199.9) Hz (1.2 to 11.999) kHz (12 to 119.99) kHz	0.004 % + 4 mHz 0.003 % + 30 mHz 0.003 % + 300 mHz 0.0024 % + 3 Hz	Fluke 5502A

[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] Field calibration service is available for this calibration.–Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the actual uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.

[4] In the statement of CMC, *L* is the numerical value of the nominal length in inches, *D* is diameter in inches, and *DL* is the Diagonal length in inches.

[5] In the statement of CMC, percent is to be read as percent of reading.

[6] 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.

[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.

[9] Above 1 kHz interpolate the uncertainty (U_i) between frequencies f_{upper} and f_{lower} using: $U_i = U_{lower} + (f_i - f_{lower}) \times (U_{upper} - U_{lower}) \div (f_{upper} - f_{lower})$

[10] Add 20 µ/A if relative humidity is >50%RH

Accredited Laboratory

A2LA has accredited

G.T. MICHELLI COMPANY, LLC

Harahan, LA

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/NCSL 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 17th of August 2026.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3601.01
Valid to June 30, 2028

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