

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

MICHELLI MEASUREMENT GROUP, LLC 2334 Stagecoach Road, Ste E Stockton, CA 95215 Patrick Jester Phone: 800-903-8823

CALIBRATION

Valid To: July 31, 2025

Certificate Number: 5104.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations^{1,4}:

I. Chemical

Parameter/Equipment	Range	CMC ^{2, 4} (±)	Comments	Location ⁶
pH – Measuring Equipment ³	(4, 7, 10) pH	0.016 pH	Buffer solutions	STK, FRE, BAK, RNO, HAY
Electrolytic Conductivity – Measuring Equipment ³	≈10 μS/cm ≈100 μS/cm ≈1000 μS/cm ≈1413 μS/cm ≈10 000 μS/cm	0.55 μS/cm 2.1 μS/cm 4.6 μS/cm 4.6 μS/cm 40 μS/cm	Conductivity solutions	STK, FRE, BAK, RNO, HAY

II. Dimensional

Parameter/Equipment	Range	$CMC^{2}(\pm)$	Comments	Location ⁶
Micrometers ³	Up to 2 in (2 to 4) in (4 to 7) in (7 to 10) in (10 to 12) in (12 to 15) in (15 to 17) in (17 to 20) in (20 to 24) in (24 to 37) in (37 to 40) in	85 μin 86 μin 87 μin 88 μin 90 μin 91 μin 92 μin 93 μin 580 μin 590 μin	Grade 0 gage blocks	STK, FRE, BAK, RNO, HAY

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Parameter/Equipment	Range	$CMC^{2}(\pm)$	Comments	Location ⁶
Calipers ³	Up to 40 in	290 µin	Grade 0 gage blocks	STK, FRE, BAK, RNO, HAY

III. Mechanical

Parameter/ Equipment	Range	$CMC^{2}(\pm)$	Comments	Location ⁵
Scales & Balances ³	1 mg 2 mg 3 mg 5 mg 10 mg 20 mg 30 mg 50 mg 100 mg 200 mg 300 mg 500) mg (0.5 to 1) g 1 g 2 g 3 g 5 g 10 g 20 g 30 g 50 g 100 g 200 g 200 g	5.1 µg 1.6 µg 3.5 µg 4.4 µg 2.0 µg 2.3 µg 2.5 µg 2.3 µg 4.2 µg 1.2 µg 1.0 µg 2.0 µg 2.0 µg 3.8 µg 14 µg 10 µg 16 µg 27 µg 47 µg 16 µg 110 µg 190 µg 440 µg	Class 0 weights (Applied load)	STK, FRE, BAK, RNO, HAY
	(1 to 500) mg (0.5 to 1) g (1 to 5) g (5 to 10) g (10 to 30) g (30 to 50) g (50 to 100) g (1/32 to 16) oz	12 μg 12 μg 40 μg 58 μg 86 μg 140 μg 290 μg 0.0058 oz	Class 1 weights (Applied load) NIST Class F (ASTM Class 5)	STK, FRE, BAK, RNO, HAY STK, FRE, BAK, RNO, HAY

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Parameter/Equipment	Range	$CMC^{2}(\pm)$	Comments	Location ⁶
Scales & Balances ³ (cont)	(1 to 20) g (20 to 50) g (50 to 200) g (200 to 1000) g (1 to 5) kg (0.001 to 0.2) lb (0.2 to 0.5) lb (0.5 to 1) lb (1 to 5) lb (5 to 10) lb (10 to 25) lb (25 to 50) lb (50 to 500) lb	0.6 mg 0.9 mg 5.2 mg 8.9 mg 2.9 g 0.000 058 lb 0.000 059 lb 0.000 059 lb 0.000 060 lb 0.000 072 lb 0.000 120 lb 0.000 670 lb 0.000 770 lb 0.058 lb	NIST Class F (ASTM Class 6) Weight cart & weight blocks (Applied load)	STK, FRE, BAK, RNO, HAY STK, FRE, BAK, RNO, HAY
	(500 to 24 000) lb (3000 to 30 000) lb	0.015 lb 1.3 lb		

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

⁵ The locations that can perform the calibrations are given by the letter code listed in the table below. The field locations below are service locations and all calibrations are performed at customer sites:

Location	Code
(Main Location) 2334 Stagecoach Roade, Ste E,	STK
Stockton, CA 95215	~
(Field Location) 3287 W Sussex Way,	FRE
Fresno, CA 93722	TIL
(Field Location) 11502 Regarse Dr.,	DAV
Bakersfield, CA 93311	DAK
(Field Location) 7838 Anchor Point Dr.,	DNO
Reno, NV 89506	KNU
(Field Location) 25352 Cypress Ave	UAV
Hayward, CA 94544	пат

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Accredited Laboratory

A2LA has accredited

MICHELLI MEASUREMENT GROUP, LLC

Stockton, 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/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 1st day of December 2023.

Mr. Trace McInturff, Vice President, Accreditation Services For the Accreditation Council Certificate Number 5104.03 Valid to July 31, 2025 Revised February 22, 2024

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