



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

PRECISION ENVIRONMENTS, INC
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West Chester, OH 45069
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CALIBRATION

Valid To: February 29, 2024

Certificate Number: 2573.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations^{1,5}:

I. Acoustics & Vibration

Parameter/Equipment	Range	CMC ^{2,4} (±)	Comments
Environmental Surveys of Sound Level ³ – Measure	(74 to 114) dB	6.1 dB	Sound level meter and NCSL RP-16

II. Fluid Quantities

Parameter/Equipment	Range	CMC ^{2,4} (±)	Comments
Environmental Surveys of Air Flow ³ – Measure			ASTM D3154-14
Direct Measure	(500 to 5000) fpm	42 ft/min + 4.8 % of reading	(fpm=feet per minute)
Calculated Lab Air Velocity	(1 to 25) fpm	1.0 x (42 ft/min) + 4.8 % of reading	Calculation based on room volume and duct velocity

III. Mechanical

Parameter/Equipment	Range	CMC ^{2,4} (±)	Comments
Environmental Surveys of Pressure ³ – Measure	(0.05 to 50) inH ₂ O	0.005 in H ₂ O + 3.2 % of reading	Multimeter and NCSL RP-16
	12 Pa to 12 kPa	1.2 Pa + 3.2 % of reading	

IV. Optical Quantities

Parameter/Equipment	Range	CMC ^{2,4} (±)	Comments
Environmental Surveys of Illuminance ³ – Measure	(0 to 200) FC	9.4 FC	Light meter and NCSL RP-16

V. Thermodynamics

Parameter/Equipment	Range	CMC ^{2,4} (±)	Comments
Temperature Indicating Devices – Measure and Measuring Equipment	(15 to 25) °C	0.0056 °C	SPRT and black stack with temperature bath
Temperature Indicating Devices ³ – Measure	(15 to 25) °C	0.036 °C	Data logger and NCSL RP-16
Environmental Surveys of Temperature ³ – Measure	(15 to 25) °C	0.02 °C	Data logger and NCSL RP-16
Environmental Surveys of Humidity ³ – Measure	(20 to 80) % RH (23 ± 10) °C	1.2 % RH	Humidity sensor and NCSL RP-16

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 of a specific calibration performed by the laboratory may be greater than the CMC uncertainty 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 CMCs 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 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.

⁵ This scope meets A2LA's *P112 Flexible Scope Policy*.



Accredited Laboratory

A2LA has accredited

PRECISION ENVIRONMENTS, INC.

West Chester, OH

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 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 24th day of May 2022.

A blue ink signature of a representative of the Accreditation Council.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2573.01
Valid to February 29, 2024

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