Accredited Laboratory

A2LA has accredited

SENSIDYNE LP

Saint Petersburg, FL

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 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 28th day of June 2022.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3943.01
Valid to April 30, 2024

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

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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CALIBRATION

Valid To: April 30, 2024 Certificate Number: 3943.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibration[1, 5]:

I. Acoustics

Parameter/Equipment	Range	CMC[2] (±)	Comments
Sound Level Meters –			
Self-Generated Noise	(0 to 16) dB	0.2 dB	SVAN 401, SVAN 912AE, SV30A, reference microphone
Frequency Weighting Acoustically	(70 to 125) dB, 125 Hz to 1 kHz (1 to 8) kHz	 0.4 dB 0.5 dB	
Frequency Weighting Electrically	63 Hz to 4 kHz (4 to 8) kHz (8 to 16) kHz	0.3 dB 0.4 dB 0.6 dB	
Frequency & Time Weightings	(0 ± 0.5) dB, 1 kHz	 0.1 dB	
Level Linearity	(30 to 136) dB, 1 kHz	 0.2 dB	
Tone Burst Response	(0 ± 0.5) dB, (0.25 to 200) ms	 0.2 dB	
Peak C Sound Level	141 dB, (0.5 to 8) kHz	 0.2 dB	

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Parameter/Equipment	Range	CMC[2, 4] (±)	Comments
Sound Level Meters – (cont)			
Overload Indication	(0 ± 1.8) dB, 4 kHz	0.3 dB	SVAN 401, SVAN 912AE, SV30A, reference microphone
Personal Sound Exposure Meters –			
Acoustic Sensitivity	114 dB, 1 kHz	4.0 %	SVAN 401, SVAN 912AE, SV30A, reference microphone, equivalent electrical impedance, timer, coupler
Frequency Weighting	(0 to 94) dB, 63 Hz to 2 kHz (2 to 8) kHz	0.4 dB 0.6 dB	
Signal Linearity	(55 to 138) dB, 63 Hz to 1 kHz	0.2 dB	
Noise Exposure	(1 to 360) kPa/s^2	3.0 %	
Tone Burst Impulses	1 ms	3.0 %	
Unipolar Pulse	5 mHz	3.0 %	
Acoustic Calibrators –			
Sound Pressure Level	(94 & 114) dB, 20 µPa	0.15 dB	SVAN 401, SVAN 912AE, SV30A, B&K 4192 reference microphone
Frequency	1 kHz ± 10 %	0.1 Hz	
Total Harmonic Distortions	(0 to 0.5) %	0.12 %	

II. Fluid Quantities

Parameter/Equipment	Range	CMC[2, 3, 6] (±)	Comments
Air Flow Rate – Measure	(1 to 250) sccm (0.02 to 6) SLM (2 to 30) SLM	0.37 % 0.38 % 0.36 %	Volumetric primary method, master burrete and stopwatch (master wet cell)
	(1 to 250) sccm (0.02 to 6) SLM (2 to 30) SLM	0.56 % 0.55 % 0.55 %	Volumetric secondary method, master flow cell (secondary wet cell)
	(1 to 250) sccm (0.02 to 6) SLM (2 to 30) SLM	0.40 % 0.40 % 0.44 %	Volumetric secondary method, master flow cell (secondary dry cell)

[1] This laboratory offers commercial calibration services.

[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] The measurands stated are generated with the Burrette series of instruments. This capability is suitable for the calibration of the devices intended to measure the stated measurands in the ranges indicated. CMCs are expressed as a percentage of the reading.

[4] In the statement of the CMC, percentages are percentage of the Sound Pressure in kHz, unless otherwise marked.

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

[6] 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.