



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

XSENSOR TECHNOLOGY CORP
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CALIBRATION

Valid To: November 30, 2020

Certificate Number: 3589.01

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. Mechanical

Parameter/Equipment	Range	CMC ^{2,5} (±)	Comments
Pressure – Measuring Equipment	(0.1 to 30) psi (0.689 to 206.8) kPa	2.0 psi 14 kPa	Calibrations using the INSTRON 8872 (with fixtures of known area to apply a specific load)
	(>30 to 512) psi (206.8 to 3530) kPa	(0.014 <i>P</i> + 0.64) psi (0.014 <i>P</i> + 4.6) kPa	
	(5.0 to 200.0) mmHg (0.7 to 26.7) kPa	5.9 mmHg 0.8 kPa	Calibrations using the AIR CHAMBER (controlled by IP regulator/transducer/DAQ, and verified with a calibrated/traceable gauge)
	(0.1 to 15.0) psi (0.7 to 103.4) kPa	0.1 psi 0.8 kPa	
	(0.1 to 16.0) psi (0.7 to 110.3) kPa	0.2 psi 1.2 kPa	

¹ This laboratory does not offer 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. 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 In the statement of CMC, *P* is the numerical value of the pressure in the applicable units listed.

⁴ This scope meets A2LA's *P112 Flexible Scope Policy*.

⁵ 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.

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Accredited Laboratory

A2LA has accredited

XSENSOR TECHNOLOGY CORP

Calgary, Alberta, CANADA

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/NCCL 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 4th day of December 2018.

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President and CEO
For the Accreditation Council
Certificate Number 3589.01
Valid to November 30, 2020

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