



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005
& ANSI/NCSL Z540-1-1994

SENSOR DEVELOPMENTS INC.
 1050 W. Silver Bell Rd.
 Orion, MI 48359
 David M. Schrand Phone: 248 391 3000

CALIBRATION

Valid To: July 31, 2017

Certificate Number: 1668.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations¹:

I. Mechanical

Parameter/Equipment	Range	CMC ^{2,3} (±)	Comments
Force Transducers	(1 to 10 000) lbf	0.05 % FS	Weights, hydraulic press with transducer
	(10 000 to 300 000) lbf	0.06 % FS	Hydraulic press with transducer
Torque Transducers	(1.2 to 15 000) in·lbf	0.06 % FS	Torque arm with weights or transducer
	(15 000 to 360 000) in·lbf	0.09 % FS	Torque arm with transducer

¹ This laboratory offers 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, "FS" indicates the CMC is a function of the full scale of the unit under test.



Accredited Laboratory

A2LA has accredited

SENSOR DEVELOPMENTS INC.

Orion, MI

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of ANSI/NCSLI Z540-1-1994 and any additional program requirements in the field of calibration. 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 8 January 2009*).



Presented this 20th day of May 2015.

A handwritten signature in black ink, reading "Peter Abney".

President & CEO
For the Accreditation Council
Certificate Number 1668.01
Valid to July 31, 2017

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