



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

FUTEK ADVANCED SENSOR TECHNOLOGY, INC.
 10 Thomas
 Irvine, CA 92618
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CALIBRATION

Valid To: May 31, 2017

Certificate Number: 2412.01

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 – Measuring Equipment	(230 to 5000) lbf	0.045 %	Load cells
	(2500 to 50 000) lbf	0.022 %	
	(10 000 to 130 000) lbf	0.021 %	Class 3 weights
	(23 000 to 400 000) lbf	0.059 %	
	(1 to 500) mgf	0.02 %	Weights
	1 g to 50 lbf	0.037 %	Dead weight machines
	(20 to 500) lbf	0.037 %	
(200 to 3000) lbf	0.012 %		
	(1000 to 10 000) lbf	0.019 %	
Torque – Measuring Equipment	0.2 in·ozf to 24 000 in·lbf	0.096 %	Torque arms and weights
Pressure	(0.1 to 515) psi	0.03 %	Mensor PCS400
	(100 to 10 000) psi	0.036 %	Deadweight tester
	(100 to 10 000) psi	0.069 %	Reference cell

II. Electrical – DC/Low Frequency

Parameter/Equipment	Range	CMC ^{2,3} (±)	Comments
DC Voltage – Measure	(0.003 to 100) mV 100 mV to 1 V (1 to 10) V (10 to 100) V	0.01 % 0.008 % 0.005 % 0.006 %	Agilent 34401A
DC Current – Measure	(0.001 to 100) mA	0.081 %	Agilent 34401A
Resistance – Measure	100 Ω to 10 kΩ	0.016 %	Agilent 34401A
DC Voltage Ratio – Measure	(0.05 to 10) mV/V	0.028 %	Vishay precision calibrator

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, % means percentage of reading unless otherwise noted.



Accredited Laboratory

A2LA has accredited

FUTEK ADVANCED SENSOR TECHNOLOGY, INC.

Irvine, CA

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 5th day of June 2015.

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

President & CEO
For the Accreditation Council
Certificate Number 2412.01
Valid to May 31, 2017

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