



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

MEGGITT (XIAMEN) SENSORS & CONTROLS CO. LTD
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CALIBRATION

Valid To: November 30, 2022

Certificate Number: 2602.01

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. Mechanical

Parameter/Equipment	Range ³	CMC ^{2, 4} (±)	Comments
Accelerometer Sensitivity at Reference Frequency	(100 to 160) Hz, 2 g (2 to 15) V	1.5 % of rdg	Comparison, acoustic power system and 2270M8
Acceleration Sensitivity/Frequency Response – Measure	(20 to <100) Hz, (0.25 to 10) g (2 to 15) V	1.5 % of rdg	Comparison, acoustic power system and 2270M8
	(100 to 2500) Hz, 10 g (2 to 15) V	1.5 % of rdg	Comparison, Bouche shaker system and 2270M8
	(>2500 to 10 000) Hz, 10 g (2 to 15) V	1.5 % of rdg	
	(>10 000 to 20 000) Hz, 10 g (2 to 15) V	5.0 % of rdg	

Parameter/Equipment	Range ³	CMC ^{2,4} (±)	Comments
Transverse Sensitivity – Measure	13.2 Hz, 8.9 g	14.0 % of rdg	Transverse sensitivity console with Endeveco crosstalk system manual rotation
Acceleration Amplitude Linearity, Shock – Measure	(20 to 2000) g, (3 to 0.5) ms (2 to 15) V	2.5 % of rdg	Endevco 2925 exciter with 2270M8
	(>2000 to 10 000) g, (0.5 to 0.1) ms (2 to 15) V	3.5 % of rdg	

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 The symbol g represents gravitational units. One g equals 9.80665 m/s^2 .

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

MEGGITT (XIAMEN) SENSORS & CONTROLS CO. LTD

Xiamen, PEOPLE'S REPUBLIC OF CHINA

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/NCSL 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 14th day of September 2020.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2602.01
Valid to November 30, 2022

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