



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

COASTAL INSTRUMENTS, INC.⁴
707 Enterprise Drive
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Burgaw, NC 28425
S. Bruce Benson Phone: 800 632 4357

CALIBRATION

Valid To: November 30, 2018

Certificate Number: 2235.01

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

I. Fluid Quantities

Parameter/Equipment	Range	CMC ² (±)	Comments
Gas Flow ³ – Mass and Volumetric Flow Device	1 sccm to 100 slpm (100 to 500) slpm	0.33 % of reading 0.47 % of reading	Transfer and working standards
	(500 to 1000) slpm (1000 to 2500) slpm	0.49 % of reading 0.44 % of reading	
Gas Flow – Mass and Volumetric Flow Device	(1 to 200) sccm	0.27 % of reading	70 cc piston prover, primary standard
	201 sccm to 7 slpm	0.26 % of reading	3.5 liter piston prover, primary standard
	(3 to 24) slpm	0.23 % of reading	12 liter piston prover, primary standard
	(20 to 600) slpm	0.30 % of reading	5 ft ³ bell prover, primary standard

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 Field calibration service is available for this calibration and this laboratory meets A2LA R104 – *General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these calibrations. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the actual uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.

⁴ Equipment repair and/or adjustment services may be offered by this organization; please contact them directly for more information. Please note that repair and adjustment services are not covered by this scope of accreditation.

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Accredited Laboratory

A2LA has accredited

COASTAL INSTRUMENTS, INC.

Burgaw, NC

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 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 8 January 2009*).



Presented this 8th day of December 2016.

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President and CEO
For the Accreditation Council
Certificate Number 2235.01
Valid to November 30, 2018

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