



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

VAISALA INC  
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CALIBRATION

Valid To: December 31, 2013

Certificate Number: 2083.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations<sup>1</sup>:

I. Mechanical

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Pressure	(50 to 1100) hPa	0.07 hPa	Fluke DHI PPC4

II. Thermodynamics

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Relative Humidity <sup>3</sup>	10 % RH to 20 % RH	0.13 % RH	MBW chilled mirror hygrometer
	20 % RH to 40 % RH	0.23 % RH	
	40 % RH to 70 % RH	0.27 % RH	
	70 % RH to 80 % RH	0.34 % RH	
	80 % RH to 90 % RH	0.39 % RH	
	90 % RH to 95 % RH	0.41 % RH	

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Relative Humidity <sup>3</sup> (cont)	10 % RH to 20 % RH 20 % RH to 40 % RH 40 % RH to 70 % RH 70 % RH to 80 % RH 80 % RH to 90 % RH 90 % RH to 95 % RH	0.42 % RH 0.60 % RH 0.77 % RH 0.79 % RH 0.79 % RH 0.72 % RH	Thunder Scientific 2500
Fixed Point	0 % RH	0.10 % RH	Vaisala DMP248 dewpoint transmitter
Temperature <sup>3</sup>	-80 °C to 200 °C  -80 °C to 200 °C  15 °C to 25 °C	0.013 °C  0.05 °C  0.043 °C	Fluke Hart Scientific 1575 w/5698 probe  Fluke Hart Scientific 2560 w/5614 probe  Thunder Scientific 2500
Dewpoint	-60 °C to -10 °C  -60 °C to -10 °C	0.17 °C  0.73 °C	MBW chilled mirror hygrometer  Thunder Scientific 3900

<sup>1</sup> This laboratory offers commercial calibration service.

<sup>2</sup> Calibration and Measurement Capability (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. Calibration and Measurement Capabilities 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.

<sup>3</sup> 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.



World Class Accreditation

The American Association for Laboratory Accreditation

# Accredited Laboratory

A2LA has accredited

**VAISALA**

*Woburn, MA*

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/NCSL 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 21<sup>st</sup> day of December 2011.



  
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President & CEO

For the Accreditation Council  
Certificate Number 2083.01  
Valid to December 31, 2013

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