



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CAMERON INSTRUMENTS INC.
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CALIBRATION

Valid To: January 31, 2023

Certificate Number: 4171.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations^{1,7}:

I. Mechanical

Parameter/Equipment	Range	CMC ^{2,3,4,5,6} (±)	Comments
Gauge Pressure – Measure/Measuring Equipment			
Gas	(5 to 350) kPa (25 to 1750) kPa (100 to 7000) kPa	0.0025 % + 0.13 Pa 0.0024 % + 0.67 Pa 0.0027 % + 2.6 Pa	Fluke PG7601
	(-99 to 259) kPa	0.0023 % + 0.62 Pa	Fluke PG7601 +RPM4
	(2000 to 70 000) kPa	0.0042 % + 1.9 Pa	Fluke PG7202
	(-31 to 10) kPa	0.010 %	BA100K – RPM4
	(-99 to 240) kPa (240 to 700) kPa	12 Pa 0.005 %	A700KP – RPM4
	(-99 to 1750) kPa (1750 to 7000) kPa	175 Pa 0.010 %	A7M – PM600
	(0 to 6350) kPa (6350 to 20 000) kPa	700 Pa 0.011 %	A20M – PM600

Parameter/Equipment	Range	CMC ^{2, 3, 4, 5, 6} (±)	Comments
Gauge Pressure – Measure/Measuring Equipment (cont)			
Oil	(2000 to 70 000) kPa (5000 to 200 000) kPa	0.0042 % + 35 Pa 0.0044 % + 19 Pa	Fluke PG7202
	(0 to 5850) kPa (5850 to 20 000) kPa	700 Pa 0.012 %	A20M RPM4 E-DWT
	(0 to 66 000) kPa (66 000 to 200 000) kPa	9200 Pa 0.014 %	A200M RPM4 E-DWT
Absolute Pressure – Measure/Measuring Equipment			
Gas	(5 to 350) kPa (25 to 1750) kPa (100 to 7000) kPa	0.0025 % + 0.27 Pa 0.0024 % + 0.14 Pa 0.0027 % + 0.19 Pa	Fluke PG7601
	(2000 to 70 000) kPa + atmospheric pressure	0.0042 % + 2.4 Pa	Fluke PG7202 and Fluke RPM4
	(70 to 110) kPa	0.010 %	BA100K – RPM4
	(5 to 240) kPa (240 to 700) kPa	12 Pa 0.005 %	A700KP – RPM4
	(5 to 1750) kPa (1750 to 7000) kPa	175 Pa 0.010 %	A7M – PM600
	(97 to 6350) kPa (6350 to 20 000) kPa	700 Pa 0.011 %	A20M – PM600
Oil	(2000 to 70 000) kPa + atmospheric pressure	0.0042 % + 35 Pa	Fluke PG7202 and Fluke RPM4
	(5000 to 200 000) kPa + atmospheric pressure	0.0044 % + 19 Pa	Fluke PG7202 and Fluke RPM4

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, percentages are to be read as percent of reading, unless otherwise noted.

⁴ The contributions from the "best existing device", such as resolution and repeatability of the unit under calibration, are not included in the CMC uncertainties claim.

⁵ The QRPT (RPM, PPC, PM600) uncertainty budgets are prepared in accordance with Fluke technical note 8050TN11.

⁶ 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.

⁷ This scope meets A2LA's *P112 Flexible Scope Policy*.



Accredited Laboratory

A2LA has accredited

CAMERON INSTRUMENTS INC.

Guelph, Ontario, CANADA

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 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 9th day of November 2020.

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

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4171.01
Valid to January 31, 2023

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