The Appendix is an integral part of
Certificate of Accreditation No. 469/2023 of 01/09/ 2023

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

BD SENSORS s.r.o.
CAB number 2233, Calibration Laboratory
Hradišťská 817, 687 08 Buchlovice

CMC for the field of measured quantity: Pressure

Ordinal number [1]	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand		Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Work place
		min	unit	max.	unit						
1	Mechanical pressure gauges and electromechanical manometers	-94	kPa	-45.9	kPa	gauge pressure	gas	$2.5\cdot10^{-5}\cdot(p_{amb}-\lvert p_e\rvert)+1.4$ Pa	EURAMET cg-17	KP-801, KP 802	
		-45.9	kPa	-10	kPa			$6\cdot10^{-5}\cdot\lvert p_e\rvert$			
		-10	kPa	-7.5	kPa			0.6 Pa			
		-7.5	kPa	-1.35	kPa			$8\cdot10^{-5}\cdot\lvert p_e\rvert$			
		-1.35	kPa	1.35	kPa			0.11 Pa			
		1.35	kPa	5	kPa			$8\cdot10^{-5}\cdot p_e$			
		5	kPa	350	kPa			$2.5\cdot10^{-5}\cdot p_e+0.2$ Pa			
		0.35	MPa	7	MPa			$2.5\cdot10^{-5}\cdot p_e+2$ Pa			
		7	MPa	20	MPa			$6\cdot10^{-5}\cdot p_e$			
		0.01	kPa	5	kPa	absolute pressure	gas	1.5 Pa			
		5	kPa	350	kPa			$2.5\cdot10^{-5}\cdot p+1$ Pa			
		0.35	MPa	7	MPa			$2.5\cdot10^{-5}\cdot p+2$ Pa			
		7	MPa	20	MPa			$6\cdot10^{-5}\cdot p+5$ Pa			
		0.4	MPa	2	MPa	gauge pressure	liquid	0.16 kPa			
		2	MPa	100	MPa			$8\cdot10^{-5}\cdot p_e$			
		100	MPa	400	MPa			$1.2\cdot10^{-4}\cdot p_e$			
		0.4	MPa	2	MPa	absolute pressure	liquid	0.16 kPa			
		2	MPa	100	MPa			$8\cdot10^{-5}\cdot(p-p_{amb})$			
		100	MPa	400	MPa			$1.2\cdot10^{-4}\cdot(p-p_{amb})$			

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Ordinal number [1]	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand		Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Work place
		min	unit	max.	unit						
2	Piston gauges	-95 kPa	to	-10 kPa		gauge pressure	gas	$6 \cdot 10^{-5} \cdot \lvert p_e \rvert$	EURAMET cg-3 (cross-floating method, calculation of the effective area of the pressure balance and mass of the weights)	KP-803	
		-10 kPa	to	-3 kPa				0.6 Pa			
		5 kPa	to	350 kPa				$2.5 \cdot 10^{-5} \cdot p_e$ + 0.2 Pa			
		0.35 MPa	to	7 MPa				$2.5 \cdot 10^{-5} \cdot p_e$ + 2 Pa			
		7 MPa	to	20 MPa				$6 \cdot 10^{-5} \cdot p_e$			
		0.1 MPa	to	1.5 MPa		gauge pressure	liquid	$8 \cdot 10^{-5} \cdot p_e$ + 10 Pa			
		1.5 MPa	to	100 MPa				$8 \cdot 10^{-5} \cdot p_e$			
		100 MPa	to	400 MPa				$1.2 \cdot 10^{-4} \cdot p_e$			

[1] Asterisk at the ordinal number identifies the calibrations, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

[2] The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02 M a part of CMC and it is the lowest value of the respective uncertainty. If not stated otherwise, its coverage probability is approx. 95 %. If not stated otherwise, the uncertainty values stated without a unit are relative to the measured value. The uncertainty value stated herein is based on the best conditions achievable by the laboratory; the uncertainty value of a specific calibration may be higher depending on the conditions of such a calibration. For identical extreme values of adjacent ranges, the lower uncertainty value always applies.

[3] If the document identifying the calibration procedure is dated, only these specific procedures are used. If the document identifying the calibration procedure is not dated, the latest edition of the specified procedure is used (including any changes).

p absolute pressure
p_{amb} ambient pressure
p_e gauge pressure, $p_e = (p - p_{amb})$