

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

BD SENSORS s.r.o.
CAB number 2233, Calibration Laboratory
Hradišská 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	to	-45.9 kPa	gauge pressure	gas	$2.5 \cdot 10^{-5} \cdot (p_{\text{amb}} - p_e) + 1.4 \text{ Pa}$ $6 \cdot 10^{-5} \cdot p_e $ 0.6 Pa $8 \cdot 10^{-5} \cdot p_e $ 0.11 Pa $8 \cdot 10^{-5} \cdot p_e$ $2.5 \cdot 10^{-5} \cdot p_e + 0.2 \text{ Pa}$ $2.5 \cdot 10^{-5} \cdot p_e + 2 \text{ Pa}$ $6 \cdot 10^{-5} \cdot p_e$	EURAMET cg-17	KP-801, KP 802		
		-45.9 kPa	to	-10 kPa							
		-10 kPa	to	-7.5 kPa							
		-7.5 kPa	to	-1.35 kPa							
		-1.35 kPa	to	1.35 kPa							
		1.35 kPa	to	5 kPa							
		5 kPa	to	350 kPa							
		0.35 MPa	to	7 MPa							
		7 MPa	to	20 MPa							
		0.01 kPa	to	5 kPa	absolute pressure	gas					1.5 Pa $2.5 \cdot 10^{-5} \cdot p + 1 \text{ Pa}$ $2.5 \cdot 10^{-5} \cdot p + 2 \text{ Pa}$ $6 \cdot 10^{-5} \cdot p + 5 \text{ Pa}$
		5 kPa	to	350 kPa							
		0.35 MPa	to	7 MPa							
		7 MPa	to	20 MPa							
		0.4 MPa	to	2 MPa	gauge pressure	liquid					0.16 kPa $8 \cdot 10^{-5} \cdot p_e$ $1.2 \cdot 10^{-4} \cdot p_e$
		2 MPa	to	100 MPa							
		100 MPa	to	400 MPa							
		0.4 MPa	to	2 MPa	absolute pressure	liquid					0.16 kPa $8 \cdot 10^{-5} \cdot (p - p_{\text{amb}})$ $1.2 \cdot 10^{-4} \cdot (p - p_{\text{amb}})$
		2 MPa	to	100 MPa							
		100 MPa	to	400 MPa							



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		min	unit	max.	unit				
2	Piston gauges	-95 kPa	to	-10 kPa		$6 \cdot 10^{-5} \cdot p_e $ 0.6 Pa $2.5 \cdot 10^{-5} \cdot p_e + 0.2 \text{ Pa}$ $2.5 \cdot 10^{-5} \cdot p_e + 2 \text{ Pa}$ $6 \cdot 10^{-5} \cdot p_e$	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					
		5 kPa	to	350 kPa					
		0.35 MPa	to	7 MPa					
		7 MPa	to	20 MPa		$8 \cdot 10^{-5} \cdot p_e + 10 \text{ Pa}$ $8 \cdot 10^{-5} \cdot p_e$ $1.2 \cdot 10^{-4} \cdot p_e$			
		0.1 MPa	to	1.5 MPa					
		1.5 MPa	to	100 MPa					
		100 MPa	to	400 MPa					

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, $p_e = (p - p_{amb})$

