

**The Appendix is an integral part of
Certificate of Accreditation No. 226/2018 of 04/05/2018**

Accredited entity according to ČSN EN ISO/IEC 17025:2005:

BD SENSORS s.r.o.
Calibration Laboratory
Hradištská 817, 687 08 Buchlovice

Field of measured quantity: **Pressure**
Calibration: Nominal calibration temperature: according to method specification

Ordinal number	Measured quantity	Measured quantity range	Calibration and Measurement Capability [±] ¹⁾	Calibration procedure identification
1	Gauge pressure gas	(-94 to -45.9) kPa (-45.9 to -10) kPa (-10 to -7.5) kPa (-7.5 to -1.35) kPa (-1.35 to 1.35) kPa (1.35 to 5) kPa (5 to 350) kPa (0.35 to 7) MPa (7 to 20) MPa	$2.5 \cdot 10^{-5} \cdot (p_{amb} - p_e) + 1.4 \text{ Pa}$ $6 \cdot 10^{-5} \cdot p_e $ 0.6 Pa $8 \cdot 10^{-5} \cdot p_e $ 0.11 Pa $8 \cdot 10^{-5} \cdot p_e$ $2.5 \cdot 10^{-5} \cdot p_e + 0.2 \text{ Pa}$ $2.5 \cdot 10^{-5} \cdot p_e + 2 \text{ Pa}$ $6 \cdot 10^{-5} \cdot p_e$	KP-801 KP-802
	Absolute pressure gas	(0.01 to 5) kPa (5 to 350) kPa (0.35 to 7) MPa (7 to 20) MPa	1.5 Pa $2.5 \cdot 10^{-5} \cdot p + 1 \text{ Pa}$ $2.5 \cdot 10^{-5} \cdot p + 2 \text{ Pa}$ $6 \cdot 10^{-5} \cdot p + 5 \text{ Pa}$	
	Gauge pressure liquid	(0.4 to 2) MPa (2 to 100) MPa (100 to 400) MPa	0.16 kPa $8 \cdot 10^{-5} \cdot p_e$ $1.2 \cdot 10^{-4} \cdot p_e$	
	Absolute pressure liquid	(0.4 to 2) MPa (2 to 100) MPa (100 to 400) MPa	0.16 kPa $8 \cdot 10^{-5} \cdot (p - p_{amb})$ $1.2 \cdot 10^{-4} \cdot (p - p_{amb})$	
2	Gauge pressure gas	(-95 to -10) kPa (-10 to -3) kPa (5 to 350) kPa (0.35 to 7) MPa (7 to 20) MPa	$6 \cdot 10^{-5} \cdot p_e $ 0.6 Pa $2.5 \cdot 10^{-5} \cdot p_e + 0.2 \text{ Pa}$ $2.5 \cdot 10^{-5} \cdot p_e + 2 \text{ Pa}$ $6 \cdot 10^{-5} \cdot p_e$	KP-803
	Gauge pressure liquid	(0.4 to 2) MPa (2 to 100) MPa (100 to 400) MPa	0.16 kPa $8 \cdot 10^{-5} \cdot p_e$ $1.2 \cdot 10^{-4} \cdot p_e$	

¹⁾ Expressed like uncertainty in accordance with the requirements of the document EA 4/02 at k = 2.



The Appendix is an integral part of
Certificate of Accreditation No. 226/2018 of 04/05/2018

Accredited entity according to ČSN EN ISO/IEC 17025:2005:

BD SENSORS s.r.o.
Calibration Laboratory
Hradištská 817, 687 08 Buchlovice

p measured value of absolute pressure

p_{amb} ambient pressure

p_e measured value of gauge pressure, $p_e = (p - p_{amb})$

KP-801 calibration guide for the calibration of mechanical manometers in accordance to EN 837-1, EN-837-3 and EURAMET cg-17, version 3.0

KP-802 calibration guide for the calibration of electromechanical manometers including the testing of effects of temperature in the range -40 °C to 180 °C and relative humidity in the range 10 % a 98 % in accordance to EURAMET cg-17, version 3.0

KP-803 calibration guide for the calibration of piston gauges in accordance to EURAMET cg-3, version 1.0

Measured instruments or devices:

(In accordance with the above list of measured quantities and the ranges of measurement the following types of instruments or devices can be measured.)

Ordinal number	Measured instrument/device type
1	Mechanical pressure gauges, electromechanical manometers (pressure transducers, pressure transmitters, digital pressure gauges, measurement function of pressure calibrators)
2	Piston gauges

