

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

**MeTeKa-CZ s.r.o.**  
Calibration Laboratory  
č.p. 100, 763 41 Ludkovice

### CMC for the field of measured quantity: Pressure

Ord. number <sup>1</sup>	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the meas. quantity		Lowest expanded measurement uncertainty specified <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Work-place
		min unit	max unit						
1 *	Deformation pressure gauges	5 kPa to -95 kPa	300 kPa to 200 kPa	Absolute pressure Gauge pressure Gauge pressure, absolute pressure	gas	0.025 % + 0.2 kPa 0.025 % + 0.05 kPa 0.025 % + 0.2 kPa	Comparison with a standard digital manometer	KP 1/P	
		2 MPa to 0 MPa	14 MPa to 100 MPa	Gauge pressure, absolute pressure	oil	0.025 % + 15 kPa 0.025 % + 15 kPa			
2 *	Pressure converters	5 kPa to -95 kPa	300 kPa to 200 kPa	Absolute pressure Gauge pressure	gas	0.027 % + 0.08 kPa 0.027 % + 0.05 kPa	Comparison with a standard digital manometer	KP 2/P	
		200 kPa to 2 MPa	2,000 kPa to 14 MPa	Gauge pressure, absolute pressure	oil	0.027 % + 0.25 kPa 0.027 % + 16 kPa			
		0 MPa to 70 kPa	100 MPa to 120 kPa	Gauge pressure, absolute pressure Barometric pressure	gas	0.027 % + 16 kPa 50 Pa			
3 *	Digital manometers	5 kPa to -95 kPa	300 kPa to 200 kPa	Absolute pressure Gauge pressure	gas	0.025 % + 0.08 kPa 0.025 % + 0.05 kPa	Comparison with a standard digital manometer	KP 3/P	
		200 kPa to 2 MPa	2,000 kPa to 14 MPa	Gauge pressure, absolute pressure	oil	0.025 % + 0.2 kPa 0.025 % + 15 kPa			
		0 MPa to 70 kPa	100 MPa to 120 kPa	Gauge pressure, absolute pressure Barometric pressure	gas	0.025 % + 15 kPa 50 Pa			

- 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 II AC-P14 and EA-4/02, 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 value measured. If the calibration is carried out outside the laboratory premises, the measurement uncertainty may be affected.
- 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).

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**CMC for the field of measured quantity: Temperature**

Ord. number <sup>1</sup>	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Work-place
		min unit	max unit					
1*	Thermocouple sensors	-45 °C	to 30 °C		0.4 °C	Comparison with a standard in a furnace Comparison with a standard in a mixture of ice and water Comparison with a standard in a liquid bath Comparison with a standard in a furnace	KP 1/T	
		30 °C	to 300 °C	0 °C	0.4 °C			
		300 °C	to 420 °C		0.6 °C			
		420 °C	to 600 °C		0.8 °C			
		600 °C	to 900 °C		1.4 °C	Comparison with a standard in a horizontal furnace		
		900 °C	to 1,100 °C		1.7 °C			
2*	Resistance temperature sensors	-45 °C	to 30 °C		0.09 °C	Comparison with a standard in a furnace	KP 2/T	
				0 °C	0.07 °C	Comparison with a standard in a mixture of ice and water		
				30 °C	0.07 °C	Comparison with a standard in a liquid bath		
				300 °C	0.5 °C	Comparison with a standard in a furnace		
				420 °C	0.7 °C			
3	Glass thermometers	0 °C	to 0 °C		0.07 °C	Comparison with a standard in a mixture of ice and water	KP 3/T	
		30 °C	to 300 °C		0.07 °C	Comparison with a standard in a liquid bath		
		-45 °C	to -20 °C		0.15 °C	Comparison with a standard in a furnace		
		-20 °C	to 30 °C		0.09 °C			
4*	Direct-indicating thermometers				0.07 °C	Comparison with a standard in a mixture of ice and water		
					0.07 °C	Comparison with a standard in a liquid bath		
					0.5 °C	Comparison with a standard in a furnace		
					0.7 °C			

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Ord. number <sup>1</sup>	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Work-place
		min unit	max unit					
		600 °C 900 °C	to to 1,100 °C		1.4 °C 1.7 °C	Comparison with a standard in a horizontal furnace		
5*	Controllers and indicators	-50 °C 300 °C 300 °C 300 °C -100 °C	to 1,300 °C to 1,700 °C to 1,800 °C to 1,700 °C to 1,000 °C	Type K Type S Type B Type R Type J	0.3 °C 0.6 °C 0.6 °C 0.6 °C 0.2 °C	Simulation of thermoelectric temperature sensors using voltage	KP 5/T	
		-100 °C -100 °C	to 1,300 °C to 1,000 °C	Type N Type E	0.2 °C 0.2 °C	Simulation of resistance temperature sensors using electrical resistor		
		-200 °C	to 850 °C	Pt, Ni, Cu	0.06 °C			
6*	Direct-indicating thermometers integrated in conditioning and thermal chambers	-45 °C 0 °C 650 °C 900 °C	to 0 °C to 650 °C to 900 °C to 1,000 °C		1.0 °C 1.1 °C 1.6 °C 1.7 °C	Comparison with a reference thermometer	KP 6/T	

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### CMC for the field of measured quantity: Time and Frequency

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		min unit	max unit						
1*	Electronic and manual stopwatch	10 s	to 100,000 s			0,25 s	Electronically triggered comparison with a standard	KP I/F	
		10 s	to 28 h			0,35 s	Manually triggered comparison with a standard		

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- <sup>3)</sup> 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).

