

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

**JSP, s.r.o.**  
Calibration Laboratory  
Raisova 547, Holinské Předměstí, 506 01 Jičín

*The Laboratory provides expert opinions and interprets calibration results.*

**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 and digital manometers, pressure transducers and pressure measuring chains	-95 kPa	up to	-7 kPa		relative pressure gas	0.04 %	Comparison with a standard calibrator	KL-PM-0101 KL-PM-0102	
		-7 kPa	up to	14 kPa			0.0028 kPa			
		14 kPa	up to	14 MPa			0.02 %			
		14 MPa	up to	60 MPa		relative pressure liquid	0.03 %	Comparison with a piston manometer		
		60 MPa	up to	70 MPa			0.1 %	Comparison with a digital manometer		
		5 kPa	up to	70 kPa		absolute pressure gas	0.028 kPa	Comparison with a standard calibrator		
		70 kPa	up to	14 MPa			0.02 % + 0.014 kPa			
		14 MPa	up to	60 MPa		absolute pressure liquid	0.03 % + 0.1 kPa	Comparison with a piston manometer		
60 MPa	up to	70 MPa		0.10 % + 0.1 kPa	Comparison with a digital manometer					

<sup>1</sup> Asterisk at the ordinal number identifies the calibrations, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

<sup>2</sup> The expanded measurement uncertainty is in accordance with ILAC-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.

<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).



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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>	Workplace
		min. unit	up to	max. unit	unit					
1*	Resistance temperature sensors (with/without a transducer), direct indicating thermometers and measuring chains with resistance temperature sensors	-40 °C	up to	0 °C		0.05 °C	Comparison with a Pt100 standard in liquid baths and dry block calibrators	KL-PM-0001 KL-PM-0004		
				0 °C		0.04 °C				
		0 °C	up to	100 °C		0.05 °C				
		100 °C	up to	200 °C		0.06 °C				
		200 °C	up to	300 °C		0.15 °C				
		300 °C	up to	420 °C		0.18 °C				
		420 °C	up to	660 °C		0.23 °C				
2*	Thermoelectric temperature sensors (with/without a transducer), direct indicating thermometers and measuring chains with thermocouples	-40 °C	up to	200 °C		0.3 °C	Comparison with a Pt100 standard in liquid baths and dry block calibrators	KL-PM-0002 KL-PM-0004		
		200 °C	up to	400 °C		0.6 °C				
		400 °C	up to	660 °C		0.9 °C				
				400 °C	up to	900 °C		0.9 °C	Comparison with standard thermocouples S, B, Pt-Pd in horizontal ovens	
				900 °C	up to	1,100 °C		1.0 °C		
				1,100 °C	up to	1,200 °C		1.5 °C		
				1,200 °C	up to	1,400 °C		2.0 °C		
				1,400 °C	up to	1,553 °C		2.8 °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>	Workplace
		min.	unit	max.	unit					
3*	Dial thermometers	-40 °C	up to	200 °C		0.2 °C	Comparison with a Pt100 standard in liquid baths and dry block calibrators	KL-PM-0005		
		200 °C	up to	500 °C		0.7 °C				
		500 °C	up to	660 °C		1.2 °C				
4*	Simulation of resistance temperature sensors	0 Ω	up to	600 Ω		0.006 % + 4 mΩ	Comparison with a reference multimeter	KL-PM-0006		
		600 Ω	up to	6,000 Ω		0.006 % + 40 mΩ				
	Simulation of thermocouple temperature sensors	-10 mV	up to	100 mV		0.004 % + 2.4 μV				

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