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Český institut pro akreditaci, o.p.s.
(Czech Accreditation Institute)
Hájkova 2747/22, Žižkov, 130 00 Praha 3

issues

according to section 16 of Act No. 22/1997 Coll., on technical requirements for products and on changes and amendments to some Acts, as amended

CERTIFICATE OF ACCREDITATION

No. 146/2026

JSP, s.r.o.
with registered office Raisova 547, Holínské Předměstí, 506 01 Jičín
Company Registration No. 49286684

for the Calibration Laboratory No. **2362**
Calibration Laboratory

Scope of accreditation:

Calibration of meters of pressure, temperature, humidity and electrical quantities to the extent as specified in the appendix to this Certificate.

This Certificate of Accreditation is a proof of accreditation issued on the basis of assessment of fulfillment of the accreditation criteria in accordance with

ČSN EN ISO/IEC 17025:2018

In its activities performed within the scope and for the period of validity of this Certificate, the abovementioned Accredited Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Accredited Body meets the specified accreditation requirements in accordance with the relevant regulations applicable to the activity of an accredited conformity assessment body.

This Certificate of Accreditation replaces, to the full extent, Certificate No.: 487/2024 of 18/09/2024, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **18/09/2029**

Prague: 26/03/2026



Signed in the Czech original:
Jan Velíšek on 26/03/2026

Jan Velíšek
Director of the Department
of Testing and Calibration Laboratories
Czech Accreditation Institute

This translation of the Czech original has been issued by: Eliška Frycová

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

JSP, s.r.o.

CAB number 2362, Calibration laboratory
 Raisova 547, Holínské Předměstí, 506 01 Jičín

Calibration laboratory locations:

1. **Workplace Jičín** Raisova 547, Holínské Předměstí, 506 01 Jičín
2. **Workplace Pardubice** budova M 84, Semtín 103, 530 02 Pardubice

The laboratory provides opinions and interpretations of the calibration results.

CMC for the field of measured quantity: Pressure

Ord. 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	Location	
		min.	unit							max.
1*	Deformation and digital manometers, pressure transducers and pressure measuring chains	-95 kPa	to	-15 kPa	relative pressure	gas	0.04 % 0.01 % 0.00027 kPa 0.01 % 0.02 %	KL-PM-0101	1, 2	
		-15 kPa	to	-2.7 kPa						
		-2.7 kPa	to	2.7 kPa						
		2 kPa	to	15 kPa						
		15 kPa	to	14 MPa						
		0 kPa	to	0.6 MPa	relative pressure	liquid	0.18 kPa	KL-PM-0101	1, 2	
		0.6 MPa	to	60 MPa			0.03 %			Comparison with a piston manometer Comparison with a digital manometer
		60 MPa	to	70 MPa			0.1 %			
		5 kPa	to	70 kPa	absolute pressure	gas	0.028 kPa	KL-PM-0101	1, 2	
		70 kPa	to	14 MPa			0.02 % + 0.014 kPa			Comparison with a reference calibrator
		0.1 MPa	to	0.7 MPa	absolute pressure	liquid	0.28 kPa	KL-PM-0101	1, 2	
		14 MPa	to	60 MPa			0.03 % + 0.1 kPa			Comparison with a piston manometer Comparison with a digital manometer
		60 MPa	to	70 MPa			0.10 % + 0.1 kPa			

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- 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).

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CMC for the field of measured quantity: Temperature

Ord. 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	Location	
		min.	unit	max.	unit						
1*	Resistance temperature sensors (with/without a transducer), direct indicating thermometers and measuring chains with resistance temperature sensors										
				-196 °C	to	-40 °C		0.15 °C	Comparison with a Pt100 standard in liquid baths and dry block calibrators	KL-PM-0001	1, 2
				-196 °C	to	-40 °C		0.20 °C			
				-40 °C	to	0 °C		0.05 °C			
						0 °C		0.04 °C			
				0 °C	to	100 °C		0.05 °C			
				100 °C	to	200 °C		0.06 °C			
				200 °C	to	300 °C		0.15 °C			
				300 °C	to	420 °C		0.18 °C			
				420 °C	to	660 °C		0.23 °C			
2*	Thermoelectric temperature sensors (with/without a transducer), direct indicating thermometers and measuring chains with thermocouples								Comparison with a Pt100 standard in liquid baths and dry block calibrators	KL-PM-0002	1, 2
				-196 °C	to	-40 °C		0.6 °C			
				-40 °C	to	200 °C		0.3 °C			
				200 °C	to	400 °C		0.6 °C			
				400 °C	to	660 °C		0.9 °C			
				400 °C	to	900 °C		0.9 °C	Comparison with standard thermocouples S, B, Pt-Pd in horizontal ovens		
				900 °C	to	1,100 °C		1.0 °C			
				1,100 °C	to	1,200 °C		1.5 °C			
				1,200 °C	to	1,400 °C		2.0 °C			
				1,400 °C	to	1,553 °C		2.8 °C			

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Ord. 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	Location
		min.	unit	max.	unit					
3*	Dial thermometers	-40 °C	to	200 °C		0.2 °C	Comparison with a Pt100 standard in liquid baths and dry block calibrators	KL-PM-0005	1, 2	
		200 °C	to	500 °C		0.7 °C				
		500 °C	to	660 °C		1.2 °C				
4	Glass thermometers	-40 °C	to	0 °C		0.06 °C		KL-PM-0005	2	
				0 °C		0.05 °C				
		0 °C	to	100 °C		0.06 °C				
		100 °C	to	230 °C		0.07 °C				

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CMC for the field of measured quantity: Air humidity

Ord. 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	Location
		min	unit	max	unit					
1*	Relative humidity / hygrometers and measuring chains incl. humidity probes	5 % RH	to	30 % RH		Air Temperature (7 to 90) °C	1.2 % RH	Comparison with a reference hygrometer	KL-PM-0201	1, 2
		30 % RH	to	50 % RH			1.3 % RH			
		50 % RH	to	70 % RH			1.4 % RH			
		70 % RH	to	80 % RH			1.5 % RH			
		80 % RH	to	90 % RH			1.6 % RH			
		90 % RH	to	95 % RH			1.8 % RH			

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CMC for the field of measured quantity: Electrical quantities

Ord. 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	Location
		min	unit	max	unit					
1*	Measurement and simulation of temperature sensor signals (resistance temperature sensors, thermocouples)	10 Ω	to	100 Ω		0.0015 % + 0.23 mΩ	Comparison with a reference multimeter	KL-PM-0006	1	
		0.1 kΩ	to	1 kΩ		0.0013 % + 1.8 mΩ				
		1 kΩ	to	10 kΩ		0.0015 % + 18 mΩ				
		-10 mV	to	100 mV		0.00081 % + 0.54 μV				
2	DC voltage DC voltage meters	0 mV	to	100 mV		0.00081 % + 0.54 μV	Comparison with a reference multimeter	KL-PM-0301	1	
		0,1 V	to	1 V		0.00064 % + 2.6 μV				
		1 V	to	10 V		0.00064 % + 7.6 μV				
		10 V	to	100 V		0.00092 % + 97 μV				
		100 V	to	1,000 V		0.00092 % + 1.4 mV				
	DC voltage sources	0 mV	to	100 mV		0.00081 % + 0.54 μV	Measurement by a reference multimeter	KL-PM-0301	1	
		0.1 V	to	1 V		0.00064 % + 2.6 μV				
		1 V	to	10 V		0.00064 % + 7.6 μV				
		10 V	to	100 V		0.00092 % + 97 μV				
		100 V	to	1,000 V		0.00092 % + 1.4 mV				
3	DC current DC current meters	0 μA	to	1 μA		0.033 % + 0.022 nA	Comparison with a reference multimeter	KL-PM-0301	1	
		1 μA	to	10 μA		0.0049 % + 0.14 nA				
		10 μA	to	100 μA		0.0012 % + 0.92 nA				
		0.1 mA	to	1 mA		0.0012 % + 9.2 nA				
		1 mA	to	10 mA		0.0015 % + 0.092 μA				
		10 mA	to	100 mA		0.0049 % + 1.1 μA				
		0.1 A	to	1 A		0.025 % + 0.019 mA				
		1 A	to	10 A		0.058 % + 0.57 mA				
		10 A	to	30 A		0.080 % + 5.2 mA				

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		min	unit	max	unit					
	DC current sources	0 μA	to	1 μA		0.033 % + 0.022 nA	Measurement by a reference multimeter			
		1 μA	to	10 μA		0.0049 % + 0.14 nA				
		10 μA	to	100 μA		0.0012 % + 0.92 nA				
		0.1 mA	to	1 mA		0.0012 % + 9.2 nA				
		1 mA	to	10 mA		0.0015 % + 0.092 μA				
		10 mA	to	100 mA		0.0049 % + 1.1 μA				
		0.1 A	to	1 A		0.025 % + 0.019 mA				
		1 A	to	10 A		0.058 % + 0.57 mA				
		10 A	to	30 A		0.080 % + 5.2 mA				
4	AC voltage AC voltage meters	0 mV	to	100 mV	10 Hz to 100 kHz	0.028 % + 32 μV	Comparison with a reference multimeter	KL-PM-0301	1	
		0.1 V	to	1 V	10 Hz to 100 kHz	0.025 % + 0.14 mV				
		1 V	to	10 V	10 Hz to 100 kHz	0.025 % + 1.4 mV				
		10 V	to	100 V	10 Hz to 50 kHz	0.029 % + 28 mV				
		100 V	to	1,000 V	10 Hz to 10 kHz	0.029 % + 0.36 V				
	AC voltage surces	0 mV	to	100 mV	10 Hz to 100 kHz	0.028 % + 32 μV	Measurement by a reference multimeter			
		0.1 V	to	1 V	10 Hz to 100 kHz	0.025 % + 0.14 mV				
		1 V	to	10 V	10 Hz to 100 kHz	0.025 % + 1.4 mV				
		10 V	to	100 V	10 Hz to 50 kHz	0.029 % + 28 mV				
		100 V	to	1,000 V	10 Hz to 10 kHz	0.029 % + 0.36 V				
5	AC current AC current meters	1 μA	to	100 μA	20 Hz to 2 kHz	0.049 % + 25 nA	Comparison with a reference multimeter			
		0.1 mA	to	1 mA	20 Hz to 10 kHz	0.049 % + 0.24 μA				
		1 mA	to	10 mA	20 Hz to 10 kHz	0.049 % + 2.4 μA				
		10 mA	to	100 mA	20 Hz to 10 kHz	0.049 % + 24 μA				
		0.1	to	1 A	20 Hz to 10 kHz	0.065 % + 0.26 mA				

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		min	unit	max unit					
	AC current sources	1	to	10 A	20 Hz to 1 kHz	0.12 % + 43 mA	Measurement by a reference multimeter		
		10	to	30 A	20 Hz to 1 kHz	0.12 % + 131 mA			
		1 μA	to	100 μA	20 Hz to 2 kHz	0.049 % + 25 nA			
		0.1 mA	to	1 mA	20 Hz to 10 kHz	0.049 % + 0.24 μA			
		1 mA	to	10 mA	20 Hz to 10 kHz	0.049 % + 2.4 μA			
		10 mA	to	100 mA	20 Hz to 10 kHz	0.049 % + 24 μA			
		0.1	to	1 A	20 Hz to 10 kHz	0.065 % + 0.26 mA			
		1	to	10 A	20 Hz to 1 kHz	0.12 % + 43 mA			
		10	to	30 A	20 Hz to 1 kHz	0.12 % + 131 mA			
6	DC resistance DC resistance meters	0 Ω	to	1 Ω		0.0025 % + 7.5 μΩ	Comparison with a reference multimeter, simulation by a resistance box	KL-PM-0301	1
		1 Ω	to	10 Ω		0.0017 % + 45 μΩ			
		10 Ω	to	100 Ω		0.0015 % + 0.23 mΩ			
		0.1 kΩ	to	1 kΩ		0.0013 % + 1.8 mΩ			
		1 kΩ	to	10 kΩ		0.0015 % + 18 mΩ			
		10 kΩ	to	100 kΩ		0.0017 % + 0.36 Ω			
		0.1 MΩ	to	1 MΩ		0.0018 % + 3.9 Ω			
		1 MΩ	to	10 MΩ		0.0025 % + 105 Ω			
		10 MΩ	to	100 MΩ		0.12 %			
		100 MΩ	to	1 GΩ		0.24 %			
		1 GΩ	to	10 GΩ		0.59 %			
		10 GΩ	to	100 GΩ		1.2 %			
	DC resistance sources	0 Ω	to	1 Ω		0.0025 % + 7.5 μΩ			
		1 Ω	to	10 Ω		0.0017 % + 45 μΩ			
		10 Ω	to	100 Ω		0.0015 % + 0.23 mΩ			
		0,1 kΩ	to	1 kΩ		0.0013 % + 1.8 mΩ			

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		min	unit					
		1 kΩ	to	10 kΩ	0.0015 % + 18 mΩ			
		10 kΩ	to	100 kΩ	0,0017 % + 0.36 Ω			
		0.1 MΩ	to	1 MΩ	0.0018 % + 3.9 Ω			
		1 MΩ	to	10 MΩ	0.0025 % + 105 Ω			
		10 MΩ	to	90 MΩ	0.025 %			
		90 MΩ	to	900 MΩ	0.18 %			
		900 MΩ	to	9 GΩ	0.50 %			
		9 GΩ	to	100 GΩ	3.8 %			

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"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and for the certificate itself. "