EA MLA Signatory
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. **622/2025**

PRIMA BILAVČÍK, s.r.o.
with registered office 9. května 1182, 688 01 Uherský Brod
Company Registration No. 26227631

for the Calibration Laboratory No. **2318**
Calibration Laboratory

Scope of accreditation:

Calibration in the field of length, plane angle, mass, force, pressure, temperature, electrical quantities, time quantities and frequency, physicochemical 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.: 462/2024 of 10/09/2024, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **01/12/2026**

Prague: 04/12/2025

Český institut pro akreditaci, o.p.s. «CAI»

Signed in the Czech original:
Gor Petrosjan on 04/12/2025

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

The Appendix is an integral part of
Certificate of Accreditation No. 622/2025 of 04/12/2025

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

PRIMA BILAVČÍK s.r.o.
CAB number 2318, Calibration Laboratory
9. května 1182, 688 01 Uherský Brod

Calibration laboratory locations:

1. **Uherský Brod** 9. května 1182, 688 01 Uherský Brod
2. **Reserved**
3. **Mladá Boleslav** Komenského náměstí 90/10, 293 01 Mladá Boleslav
4. **Reserved**
5. **Uherský Brod II** Antonína Dvořáka 1274, 688 01 Uherský Brod

CMC for the field of measured quantity: Length

Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the measurand	Lowest stated expanded mesurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Location
1*	Slide gauges	0 mm	to	2,000 mm				(15·L +15) µm	Comparison with parallel gauge blocks	KP-PB-01	1,3
		1,000 mm	to	2,000 mm	resol. 0.01 mm			(15·L +30) µm			
2*	Micrometers	0 mm	to	1,000 mm				(15·L +1.5) µm	Comparison with parallel gauge blocks	KP-PB-02	1,3
3*	Length gauges	0 mm	to	1,040 mm				(1.2·L +0.15) µm	Direct or comparative measurement by a distance meter	KP-PB-04	1,3
4	Parallel gauge blocks - 3rd order	0.5 mm	to	100 mm				(1·L +0.1) µm	Comparison with parallel gauge blocks	KP-PB-07	1
	- 4th order	0.5 mm	to	100 mm				(2·L +0.2) µm			1,3
		100 mm	to	500 mm				(2·L +0.2) µm			3
		100 mm	to	1,000 mm				(1.2·L +0.17) µm			1
5*	Height gauges	0 mm	to	1,000 mm				(1.2·L +1) µm	Comparison with parallel gauge blocks	KP-PB-12	1
6*	Graduated scales, tape measures, measuring tapes	0 mm	to	50 m				(0.2·n) mm	Direct measurement on a measuring track, comparative	KP-PB-14	1,3

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded mesurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Location
		min.	unit	max.	unit					
								measurement with reference tape measure and ruler		
7*	Length gauges	0 mm	to	300 mm			(0.8·L +0.07) µm	Comparison with parallel gauge blocks	KP-PB-16	1
8*	Gauges of length and geometric shapes by a laser interferometer	0 m	to	20 m			(0.8·L +0.03) µm	Direct measurement by a laser interferometer	KP-PB-19	1
9*	Gauges of length, shape, geometric positions, angles with a laser interferometer and laser tracker	0.2 m	to	15 m			(0.3·L +0.2) µm	Direct measurement by a LaserTracker laser interferometer	KP-PB-19	1
10	Angles	0 mm	to	1,000 mm			4 µm 6 µm	Direct measurement using a coordinate measuring machine Comparison with a perpendicularity standard and parallel gauge blocks	KP-PB-26	1,3
11*	Internal gauges	0 mm	to	300 mm			(3·L +2) µm	Comparison with setting rings	KP-PB-20	1,3
12*	Contact, optical, multisensor coordinate measuring machines	0 mm	to	1,600 mm			(0.6·L +0.2) µm	Comparison with steel parallels and graduated scale	KP-PB-21	1
13*	Coordinate measuring machines – manual mobile hinged arms	0 mm	to	3,700 mm			(2·L +20) µm	Comparison using step gauges	KP-PB-21	1
14*	Coordinate measuring machines – proximity scanners	0 mm 200 mm	to to	200 mm 1,500 mm			3 µm 20 µm	Comparison with a measuring gauge	KP-PB-21	1
15*	Coordinate measuring machines	0 m	to	30 m			50 µm	Direct measurement by a LaserTracker laser interferometer	KP-PB-21	1
16*	Coordinate measuring machines – tomographs	0 mm	to	500 mm			3 µm	Comparison with a spherical standard	KP-PB-21	1

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded mesurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Location
		min.	unit	max.	unit					
17	Surface roughness standards	0.01	µm	to 100	µm		(0.06·L) µm	Direct measurement by a roughness meter	KP-PB-23	1
18*	Roughness meters	0.01	µm	to 100	µm		(0.035·L) µm	Comparison with a roughness standard	KP-PB-24	1
19	Ring gauges	0	µm	to 2,000	µm	roundness	0.1 µm	Comparison with a reference sphere	KP-PB-31	1
						straightness	0.11 µm	Comparison with a flat glass		
20	Reserved									
21*	Profilometers	0	mm	to 600	mm		(1.0·L +1.2) µm	Comparison with a contour standard	KP-PB-25	1
22	Gauges of length and geometric quantities	0	mm	to 1,000	mm		(3·L +0.5) µm	Direct measurement by a coordinate measuring machine	KP-PB-27	1,3
		0	mm	to 300	mm		(1.2·L +0.2) µm	Direct measurement by a ring gauge		1
23*	3D length gauges	0	mm	to 3,200	mm		43 µm	Direct measurement by a mobile hinged arm	KP-PB-27	1
24	Laser distance meters	0	m	to 20	m		0.9 mm	Direct measurement by a LaserTracker laser interferometer, comparison with a length standard	KP-PB-28	1
25	Surface layer thickness gauges	0	mm	to 2.0	mm		(20·L +1.3) µm	Comparative measurement by a thickness standard	KP-PB-29	1

[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).

L dimension in meters

n number of two-metre sections along the whole length

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CMC for the field of measured quantity: Plane angle

Ord. num-ber[1]	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded mesurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
		min.	unit	max.	unit					
1*	Angle gauges	0 °	to	360 °			3´	Comparison with angle gauges	KP-PB-15	1, 3
2	Builder's levels	-3 °	to	3 °			0.7 mm/m	Direct measurement on an index head, comparison with an angle gauge	KP-PB-36	1
	Clinometers	-180 °	to	180 °			0.15°			
3	Rotation angle of torque wrench	0 °	to	270 °			0.32°	Direct measurement by an angle sensor	KP-PB-40	1.3

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[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: Mass

Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		Nominal range max.	unit	Parameter(s) of the measurand	Lowest stated expanded mesurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Location
1*	Balances with non-automatic function				0 g					KP-PB-71	5
		1 mg	to		200 mg			0.018 mg	Loading using a class E2 reference weight (acc. to OIML R111-1:2004)		
		200 mg	to		1 g			0.026 mg			
		1 g	to		2 g			0.032 mg			
		2 g	to		10 g			0.050 mg			
		10 g	to		20 g			0.064 mg			
		20 g	to		50 g			0.078 mg			
		50 g	to		100 g			0.13 mg			
		100 g	to		5 kg			$1.3 \cdot 10^{-6}$			
		5 kg	to		55 kg			$6 \cdot 10^{-6}$	Loading using a class F1 reference weight (acc. to OIML R111-1:2004)	KP-PB-71	5
		55 kg	to		150 kg			$2.2 \cdot 10^{-5}$	Loading using a class F2 reference weight (acc. to OIML R111-1:2004)	KP-PB-71	5
		150 kg	to		1 t			$7.3 \cdot 10^{-5}$	Loading using a class M1 reference weight (acc. to OIML R111-1:2004)	KP-PB-71	5
2	Conventional mass of weights and bodies	1 mg	to		5 mg			0.0020 mg	Comparison with a reference weight (acc. to OIML R111-1:2004) on reference scales and comparators	KP-PB-75	5
					10 mg			0.0022 mg			
					20 mg			0.0023 mg			
					50 mg			0.0029 mg			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded mesurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Location
		min.	unit	max.	unit					
				100	mg		0.0035 mg			
				200	mg		0.0043 mg			
				500	mg		0,0053 mg			
				1	g		0.0064 mg			
				2	g		0.0083 mg			
				5	g		0.011 mg			
				10	g		0.013 mg			
				20	g		0.017 mg			
				50	g		0.024 mg			
				100	g		0.032 mg			
				200	g		0.062 mg			
				500	g		0.16 mg			
				1	kg		0.32 mg			
				2	kg		0.62 mg			
				5	kg		1.6 mg			
				10	kg		14 mg			
				20	kg		24 mg			

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[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).

[4] The lowest calibration uncertainty for balances is stated without accounting for the effect of the calibrated meter.

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CMC for the field of measured quantity: Force

Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the measurand	Lowest stated expanded mesurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Location
1*	Torque / torque wrenches, torque screwdrivers	0.2	N·m	to	1,000	N·m		0.4 %	Direct measurement by a torque sensor	KP-PB-40	1, 3
2*	Force / Working force-proving instruments	0.1	N	to	200	N	Tension, pressure	0,05 %	Suspension by means of load bodies	KP-PB-41	5
		10	N	to	1,000	N		0.07 %	Direct measurement by a force sensor		
		1,000	N	to	2,500	N		0.13 % FS			

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[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).

FS full scale

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CMC for the field of measured quantity: Pressure

Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		Nominal range max.	unit	Parameter(s) of the measurand		Lowest stated expanded mesurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Work-place
1*	Mechanical pressure gauges and electromechanical manometers	-100 kPa	to		-2 kPa		positive gauge pressure	gas	0.025 % + 10 Pa	Comparison with a reference pressure gauge	KP-PB-55 KP-PB-56	1
		-2 kPa	to		2 kPa				0.1 % + 1 digit[5]			
		2 kPa	to		10 kPa				0.025 % + 1 Pa			
		10 kPa	to		100 kPa				0.025 % + 10 Pa			
		0.1 MPa	to		2 MPa				0.025 % + 0.2 kPa			
		2 MPa	to		6 MPa				0.025 % + 0.6 kPa			
		6 MPa	to		7 MPa				1.4 kPa			
		0 MPa	to		6 MPa		positive gauge pressure	liquid	0.025 % +0.6 kPa			
		6 MPa	to		16 MPa				0.025 % +1.6 kPa			
		16 MPa	to		60 MPa				0.025 % + 6 kPa			
		60 MPa	to		100 MPa				25 kPa			
		100 MPa	to		250 MPa				250 kPa			
		70 kPa	to		100 kPa		absolute pressure	gas[4]	0.025 % + 60 Pa			
		0.1 MPa	to		2 MPa				0.025 % + 0.3 kPa			
		2 MPa	to		6 MPa				0.025 % + 0.7 kPa			
		6 MPa	to		7 MPa				1.5 kPa			
		0.1 MPa	to		6 MPa		absolute pressure	liquid[4]	0.025 % +0.7 kPa			
		6 MPa	to		16 MPa				0.025 % +1.7 kPa			
		16 MPa	to		60 MPa				0.025 % + 6.1 kPa			

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Ord. num-ber[1]	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand		Lowest stated expanded mesurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Work-place
		min.	unit	max.	unit						
		70 kPa	to	120 kPa		barometric pressure	gas	0.05 kPa			

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[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).

[4] The resulting pressure is the sum of relative and barometric pressure. The resulting uncertainty is made up of the uncertainty of relative and barometric pressure.

[5] digit = last digit resolution

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CMC for the field of measured quantity: Temperature

Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		Nominal range max.	unit	Parameter(s) of the measurand	Lowest stated expanded mesurement uncertainty [2]	Calibration principle	Calibration procedure identification [3]	Work-place
1*	Direct-indicating thermometers	-100	°C	to	-60	°C		0.04 °C	Comparison using a reference resistance thermometer	KP-PB-51	3,5
		-60	°C	to	0	°C		0.04 °C			
		0	°C	to	50	°C		0.03 °C			
		50	°C	to	230	°C		0.04 °C			
		230	°C	to	660	°C		0.05 °C			
		660	°C	to	700	°C		1.1 °C	Comparison with a reference thermocouple		
		700	°C	to	1,000	°C		1.2 °C			
		1,000	°C	to	1,100	°C		1.2 °C			
		1,100	°C	to	1,200	°C		1.4 °C			
		1,200	°C	to	1,500	°C		2.4 °C			
		1,500	°C	to	1,600	°C		2.9°C			
2*	Direct indicating thermometers – temperature measuring chains – externally	-100	°C	to	230	°C		0.2 °C	Comparison using a reference resistance thermometer	KP-PB-51	5
		230	°C	to	660	°C		0.3 °C			
		660	°C	to	700	°C		1.1 °C	Comparison with a reference thermocouple		
		700	°C	to	1,000	°C		2.1 °C			
		1,000	°C	to	1,100	°C		2.2 °C			
		1,100	°C	to	1,200	°C		2.3 °C			
		1,200	°C	to	1,500	°C		2.9 °C			
		1,500	°C	to	1,600	°C		3.4 °C			

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Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range			Parameter(s) of the measurand	Lowest stated expanded mesurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Work-place
		min. unit		max. unit					
3*	Temperature – contactless thermometers	-20 °C	to	0 °C		1.2 °C	Comparison with a reference black body	KP-PB-53	5
		0 °C	to	50 °C		1.3 °C			
		50 °C	to	100 °C		1.4 °C			
		100 °C	to	200 °C		1.9 °C			
		200 °C	to	300 °C		2.8 °C			
		300 °C	to	400 °C		3.4 °C			
		400 °C	to	500 °C		3.6 °C			
		500 °C	to	600 °C		3.9 °C			
		600 °C	to	800 °C		5.0 °C			
		800 °C	to	1,000 °C		6.1 °C			
		1,000 °C	to	1,200 °C		7.3 °C			
4*	Temperature calibrators, temperature indicators	-210 °C	to	0 °C	TC-J	0.15 °C	Direct generation of equivalent DC voltage for TC – without cold junction compensation	KP-PB-122	5
		0 °C	to	1,200 °C		0.08 °C			
		-270 °C	to	0 °C	TC-K	0.18 °C			
		0 °C	to	500 °C		0.09 °C			
		500 °C	to	1,372 °C		0.12 °C			
		-270 °C	to	0 °C	TC-T	0.17 °C			
		0 °C	to	400 °C		0.05 °C			
		-50 °C	to	250 °C	TC-R	0.70 °C			
		250 °C	to	1,768 °C		0.24 °C			
		-50 °C	to	250 °C	TC-S	0.64 °C			
		250 °C	to	1,768 °C		0.24 °C			

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Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range			Parameter(s) of the measurand	Lowest stated expanded mesurement uncertainty [2]	Calibration principle	Calibration procedure identification [3]	Work-place
		min. unit		max. unit					
		250 °C	to	1,820 °C	TC-B	0.41 °C			
		-270 °C	to	0 °C	TC-N	0.27 °C			
		0 °C	to	1,300 °C		0.10 °C			
		-270 °C	to	0 °C	TC-E	0.12 °C			
		0 °C	to	1,000 °C		0.07 °C			
		-210 °C	to	0 °C	TC-J	0.08 °C	Direct measurement of equivalent DC voltage for TC – without cold junction compensation	KP-PB-122	5
		0 °C	to	1,200 °C		0.07 °C			
		-270 °C	to	0 °C	TC-K	0.09 °C			
		0 °C	to	500 °C		0.06 °C			
		500 °C	to	1,372 °C		0.07 °C			
		-270 °C	to	0 °C	TC-T	0.09 °C			
		0 °C	to	400 °C		0.03 °C			
		-50 °C	to	250 °C	TC-R	0.32 °C			
		250 °C	to	1,064 °C		0.09 °C			
		1,064 °C	to	1,768 °C		0.10 °C			
		-50 °C	to	250 °C	TC-S	0.29 °C			
		250 °C	to	1,064 °C		0.10 °C			
		1,064 °C	to	1,768 °C		0.12 °C			
		250 °C	to	700 °C	TC-B	0.18 °C			
		700 °C	to	1,820 °C		0.11 °C			
		-270 °C	to	0 °C	TC-N	0.12 °C			
		0 °C	to	600 °C		0.04 °C			
		600 °C	to	1,300 °C		0.04 °C			

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Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range			Parameter(s) of the measurand	Lowest stated expanded mesurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Work-place
		min. unit		max. unit					
		-270 °C	to	0 °C	TC-E	0.05 °C			
		0 °C	to	1,000 °C		0.03 °C			
				-100 °C	Pt 100 (3850)	0.03 °C	Direct generation of equivalent resistance for RTD	KP-PB-122	5
				0 °C		0.03 °C			
				30 °C		0.04 °C			
				60 °C		0.04 °C			
				100 °C		0.04 °C			
				200 °C		0.05 °C			
				400 °C		0.07 °C			
				800 °C		0.13 °C			
		-200 °C	to	0 °C	Pt 100 (3850)	0.15 °C			
		0 °C	to	800 °C		0.43 °C			
		-200 °C	to	260 °C	Pt 500 (3850)	0.12 °C			
		260 °C	to	800 °C		0.45 °C			
		-200 °C	to	0 °C	Pt 1000 (3850)	0.05 °C			
		0 °C	to	800 °C		0.45 °C			
		-60 °C	to	0 °C	Ni 100 (6180)	0.12 °C			
		0 °C				0.02 °C			
		0 °C	to	250 °C		0.21 °C			

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Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range			Parameter(s) of the measurand	Lowest stated expanded mesurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Work-place
		min. unit		max. unit					
		-80 °C	to	0 °C	Ni 120 (6720)	0.08 °C			
		0 °C	to	260 °C		0.11 °C			
		-50 °C	to	0 °C	Ni 1000 (6180)	0.03 °C			
		0 °C	to	200 °C		0.15 °C			
		-200 °C	to	800 °C	Pt 100 (385)	0.03 °C	Direct measurement of equivalent resistance for RTD	KP-PB-122	5
		-200 °C	to	800 °C	Pt 500 (385)	0.10 °C			
		-200 °C	to	800 °C	Pt 1000 (385)	0.16 °C			
		-60 °C	to	250 °C	Ni 100 (6180)	0.02 °C			
		-60 °C	to	250 °C	Ni 120 (6720)	0.02 °C			
		-60 °C	to	200 °C	Ni 1000 (6180)	0.02 °C			

[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: Electrical quantities

Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		Nominal range max.	unit	Parameter(s) of the measurand		Lowest stated expanded mesurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
1*	DC voltage / DC voltage sources	0 mV		to	120 mV				8.0 µV/V + 0.2 µV	Direct measurement by a reference multimeter	KP-PB-110	5
		0.12 V		to	1.2 V				5.7 µV/V + 0.61 µV			
		1.2 V		to	12 V				5.5 µV/V + 6.1 µV			
		12 V		to	120 V				8.1 µV/V + 81 µV			
		120 V		to	1,050 V				8.1 µV/V + 1.2 mV			
		1.05 kV		to	10 kV				1.2 %	Measurement with a reference multimeter with HV probe	KP-PB-110	5
	DC voltage / DC voltage meters	0 mV		to	200 mV				15 µV/V + 2.3 µV	Direct measurement on a reference calibrator or comparison with a reference multimeter	KP-PB-110	5
		0.2 V		to	2 V				8.8 µV/V + 2.6 µV			
		2 V		to	20 V				7.5 µV/V + 25 µV			
		20 V		to	200 V				13 µV/V + 0.28 mV			
		200 V		to	1,020 V				13 µV/V + 1.8 mV			
2*	DC current / DC current sources	0 µA		to	120 µA				23 µA/A + 0.42 nA	Direct measurement by a reference multimeter	KP-PB-111	5
		0.12 mA		to	1.2 mA				14 µA/A + 4.1 nA			
		1.2 mA		to	12 mA				16 µA/A + 41 nA			
		12 mA		to	120 mA				42 µA/A + 0.61 µA			
		0.12 A		to	1.2 A				0.020 % + 13 µA			
		1.2 A		to	10 A				0.048 % + 0.35 mA			
		10 A		to	30 A				0.064 % + 4.4 mA			

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		min.	unit	max.	unit						
		10 A	to	30 A				0.031 %	Indirect measurement using a reference shunt and multimeter.	KP-PB-111	5
		30 A	to	70 A				0.083 %			
		70 A	to	200 A				0.064 %			
		200	to	300 A				0.060 %			
		0 A	to	200 A				1.2 % +0.5 A	Direct measurement by a reference clamp multimeter or a current clamp	KP-PB-111	5
		200 A	to	2,000 A				1.0 % +4.5 A			
	DC current / DC current meters	0 µA	to	200 µA				91 µA/A + 10 nA	Direct measurement on a reference calibrator or comparison with a reference multimeter	KP-PB-111	5
		0.2 mA	to	2 mA				46 µA/A + 30 nA			
		2 mA	to	20 mA				46 µA/A + 0.21 µA			
		20 mA	to	200 mA				51 µA/A + 2.2 µA			
		0.2 A	to	2 A				87 µA/A + 32 µA			
		2 A	to	20 A				0.023 % + 0.30 mA			
		20 A	to	30 A				0.034 % + 0.94 mA			
		30 A	to	60 A				0.64 % + 0.10 A	Measurement of a current simulated by a calibrator with current coil	KP-PB-111	5
		60 A	to	300 A				0.78 % + 0.13 A			
		300 A	to	1,500 A				0.60 % + 0.42 A			

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Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand		Lowest stated expanded mesurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
		min.	unit	max.	unit						
3*	AC voltage / AC voltage sources	0 mV	to	100 mV			10 Hz to 40 Hz	0.061 % + 19 µV	Direct measurement by a reference multimeter	KP-PB-112	5
							40 Hz to 200 Hz	0.027 % + 15 µV			
							200 Hz to 2 kHz	0.023 % + 13 µV			
							2 kHz to 20 kHz	0.032 % + 14 µV			
							20 kHz to 100 kHz	0.081 % + 51 µV			
		0.1 V	to	1 V			10 Hz to 40 Hz	0.048 % + 0.24 mV			
							40 Hz to 200 Hz	0.023 % + 61 µV			
							200 Hz to 2 kHz	0.018 % + 61 µV			
							2 kHz to 20 kHz	0.030 % + 0.10 mV			
							20 kHz to 100 kHz	0.072 % + 0.50 mV			
							100 kHz to 1 MHz	1.2 % + 25 mV			
		1 V	to	10 V			10 Hz to 40 Hz	0.048 % + 2.3 mV			
							40 Hz to 200 Hz	0.021 % + 0.61 mV			
							200 Hz to 2 kHz	0.018 % + 0.61 mV			
							2 kHz to 20 kHz	0.030 % + 1.0 mV			
							20 kHz to 100 kHz	0.072 % + 5.0 mV			
							100 kHz to 200 kHz	1.2 % + 0.25 V			
		10 V	to	100 V			10 Hz to 40 Hz	0.060 % + 23 mV			
							40 Hz to 200 Hz	0.024 % + 10 mV			
							200 Hz to 2 kHz	0.022 % + 7.1 mV			
							2 kHz to 20 kHz	0.033 % + 11 mV			
							20 kHz to 50 kHz	0.11 % + 62 mV			
		100 V	to	1,000 V			10 Hz to 40 Hz	0.060 % + 0.16 V			
							40 Hz to 200 Hz	0.021 % + 0.10 V			
							200 Hz to 2 kHz	0.022 % + 0.10 V			
							2 kHz to 10 kHz	0.037 % + 0.11 V			

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Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand		Lowest stated expanded mesurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
		min. unit	max. unit						
		1 kV to	10 kV		50 Hz	2.2 %	Measurement with a reference multimeter with HV probe	KP-PB-112	5
	AC voltage / AC voltage meters	0 mV to	202 mV		10 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 100 kHz 100 kHz to 500 kHz	0.071 % + 24 µV 0.018 % + 24 µV 0.020 % + 33 µV 0.13 % + 56 µV 0.35 % + 0.10 mV	Direct measurement on a reference calibrator or comparison with a reference multimeter	KP-PB-112	5
		0,202 V to	2,02 V		10 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 100 kHz 100 kHz to 500 kHz	0.053 % + 0.21 mV 0.019 % + 0.12 mV 0.020 % + 0.21 mV 0.067 % + 0.30 mV 0.29 % + 0.46 mV			
		2,02 V to	20,2 V		10 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 100 kHz	0.050 % + 2.0 mV 0.017 % + 1.3 mV 0.021 % + 1.8 mV 0.083 % + 3.8 mV			
		20,2 V to	202 V		30 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz 10 kHz to 40 kHz	0.050 % + 24 mV 0.017 % + 13 mV 0.021 % + 19 mV 0.035 % + 31 mV			
		202 V to	1020 V		30 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	0.060 % + 0.21 V 0.024 % + 0.08 V 0.039 % + 0.13 V			

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Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand		Lowest stated expanded mesurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
		min.	unit	max.	unit						
4*	AC current / AC current sources	0	µA	to 100	µA		10 Hz to 40 Hz 40 Hz to 1 kHz 1 kHz to 10 kHz	0.061 % + 24 nA 0.039 % + 16 nA 0.083 % + 32 nA	Direct measurement by a reference multimeter	KP-PB-113	5
		100	µA	to 1	mA		10 Hz to 40 Hz 40 Hz to 1 kHz 1 kHz to 10 kHz	0.058 % + 0.21 µA 0.037 % + 0.19 µA 0.082 % + 0.31 µA			
		1	mA	to 10	mA		10 Hz to 40 Hz 40 Hz to 1 kHz 1 kHz to 10 kHz	0.058 % + 3.1 µA 0.037 % + 1.9 µA 0.081 % + 3.1 µA			
		10	mA	to 100	mA		10 Hz to 40 Hz 40 Hz to 1 kHz 1 kHz to 10 kHz	0.059 % + 27 µA 0.035 % + 12 µA 0.082 % + 30 µA			
		100	mA	to 1	A		10 Hz to 40 Hz 40 Hz to 1 kHz 1 kHz to 10 kHz	0.074 % + 0.34 mA 0.054 % + 0.17 mA 0.081 % + 0.5 mA			
		1	A	to 10	A		10 Hz to 40 Hz 40 Hz to 1 kHz	0.10 % + 5.8 mA 0.091 % + 3.2 mA			
		10	A	to 30	A		10 Hz to 40 Hz 40 Hz to 1 kHz	0.093 % + 13 mA 0.082 % + 9.1 mA			
		0	A	to 4	A		30 Hz to 60 Hz	0.72 % + 0.003 A	Direct measurement by a reference clamp multimeter or a current clamp	KP-PB-113	5
		4	A	to 40	A		30 Hz to 60 Hz	0.71 % + 0.03 A			
		40	A	to 200	A		30 Hz to 60 Hz	1.2 % + 0.5 A			
		200	A	to 400	A		30 Hz to 60 Hz	1.1 % + 1.3 A			
		400	A	to 1,500	A		30 Hz to 60 Hz	1.3 % + 1.6 A			
		1,500	A	to 2,000	A		30 Hz to 60 Hz	1.1 % + 4.6 A			

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Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand		Lowest stated expanded mesurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
		min.	unit	max.	unit						
	AC current / AC current meters	10 µA	to	202 µA			10 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	0.20 % + 0.25 µA 0.071 % + 0.15 µA 0.96 % + 0.20 µA	Direct measurement on a reference calibrator or comparison with a reference multimeter	KP-PB-113	5
		0,202 mA	to	2,02 mA			10 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	0.19 % + 0.31 µA 0.055 % + 0.27 µA 0.50 % + 0.35 µA			
		2,02 mA	to	20,2 mA			10 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	0.19 % + 4.1 µA 0.048 % + 2.5 µA 0.25 % + 3.4 µA			
		20,2 mA	to	202 mA			10 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	0.19 % + 41 µA 0.049 % + 25 µA 0.50 % + 43 µA			
		0,202 A	to	2,02 A			10 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 5 kHz	0.19 % + 0.36 mA 0.064 % + 0.28 mA 0.50 % + 0.45 mA			
		2,02 A	to	30 A			30 Hz to 45 Hz 45 Hz to 100 Hz 100 Hz to 1 kHz	0.19 % + 3.5 mA 0.059 % + 2.5 mA 0.50 % + 4.3 mA			
		30 A 60 A 300 A	to to to	60 A 300 A 1500 A			30 to 60 Hz 30 to 60 Hz 30 to 60 Hz	0.43 % + 0.07 A 0.50 % + 0.07 A 0.48 % + 0.08 A	Measurement of a current simulated by a calibrator with current coil	KP-PB-113	5
5*	DC resistance / Resistors and resistance boxes	0 Ω	to	1 Ω				20 µΩ/Ω + 6.1 µΩ	Direct measurement by a reference multimeter	KP-PB-114	5

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		min.	unit		max. unit						
		1 Ω	to	10 Ω				11 μΩ/Ω + 31 μΩ			
		10 Ω	to	100 Ω				10 μΩ/Ω + 0.10 mΩ			
		100 Ω	to	1 kΩ				9.1 μΩ/Ω + 0.81 mΩ			
		1 kΩ	to	10 kΩ				11 μΩ/Ω + 8.1 mΩ			
		10 kΩ	to	100 kΩ				12 μΩ/Ω + 81 mΩ			
		0.1 MΩ	to	1 MΩ				13 μΩ/Ω + 2 Ω			
		1 MΩ	to	10 MΩ				18 μΩ/Ω + 80 Ω			
		10 MΩ	to	90 MΩ				0.019 %			
		90 MΩ	to	900 MΩ				0.051 %			
		0.9 GΩ	to	9 GΩ				0.20 %			
		9 GΩ	to	2000 GΩ				2.5 %			
	DC resistance / DC resistance meters								Direct measurement of fixed resistance standards or direct measurement on a calibrator or comparison with a reference multimeter	KP-PB-114	5
				0 Ω				5.5 mΩ			
				0.0001 Ω				0.0073 %			
				0.001 Ω				0.0029 %			
				0.01 Ω				0.0022 %			
				0.1 Ω				0.0020 %			
				1 Ω				0.0020 %			
				10 Ω				0.0005 %			
				100 Ω				0.0004 %			
				1 kΩ				0.0039 %			
				10 kΩ				0.0019 %			
				100 kΩ				0.0031 %			
				1 MΩ				0.0046 %			

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		min.	unit	max.	unit						
				10 MΩ				0.018 %			
				100 MΩ				0.35 %			
				1 GΩ				1.0 %			
									Direct measurement on a calibrator	KP-PB-114	5
		0 Ω	to	1 kΩ				0,020 % + 50 mΩ			
		1 kΩ	to	10 kΩ				0,020 % + 58 mΩ			
		10 kΩ	to	100 kΩ				0.020 % + 0.30 Ω			
		0.1 MΩ	to	1 MΩ				0.020 % + 4.0 Ω			
		1 MΩ	to	10 MΩ				0.020 % +0.13 kΩ			
6*	AC resistance / AC resistance meters								Direct measurement on resistance standards	KP-PB-115	5
				10 Ω			1 kHz	0.013 %			
				10 Ω			100 kHz	0.043 %			
				50 Ω			1 kHz	0.013 %			
				100 Ω			1 kHz	0.013 %			
				50 Ω			100 kHz	0.021 %			
				100 Ω			100 kHz	0.021 %			
				1 kΩ			1 kHz	0.011 %			
				1 kΩ			100 kHz	0.021 %			
				10 kΩ			1 kHz	0.011 %			
				10 kΩ			100 kHz	0.041 %			
				100 kΩ			1 kHz	0.03 %			
				100 kΩ			100 kHz	0.12 %			
				1 MΩ			1 kHz	0.03 %			
				1 MΩ			100 kHz	0.38 %			

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		min.	unit	max.	unit						
7*	DC Power / DC Power Meters (for voltage from 1 V to 1,000 V and current from 0.5 mA to 30 A)	0.5 mW	to	30 kW				0.072 %	Direct measurement on a reference calibrator	KP-PB-123	5
	(for voltage 1 V to 1,000 V and current 30 A to 1,500 A)	30 kW	to	1,500 kW				0.74 %	Direct measurement on a reference calibrator with current coil		
8*	AC active power single phase/ AC active power meters (for voltage from 1 V to 1,000 V and current from 0.5 mA to 30 A, frequency from 40 Hz to 400 Hz), capacitive and inductive	0.5 mW	to	30 kW		cos φ	1	0.13 %	Direct measurement on a reference calibrator	KP-PB-123	5
							0.8 to 0.9	0.32 %			
							0.7 to 0.8	0.46 %			
							0.6 to 0.7	0.62 %			
							0.5 to 0.6	0.8 %			
							0.4 to 0.5	1.0 %			
							0.3 to 0.4	1.4 %			
							0.2 to 0.3	1.9 %			
							0.1 to 0.2	2.9 %			
							0.1	5.9 %			
	(for voltage 1 V to 1,000 V and current 30 A to 1,500 A, frequency 30 Hz to 60 Hz)	30 kW	to	1500 kW		cos φ	1	0.95 %	Direct measurement on a reference calibrator with current coil		
9	Reserved										

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10*	Capacity / Capacity meters									Direct measurement on a reference calibrator or direct measurement on capacity standards	KP-PB-115	5
					1	nF		10 Hz to 1 kHz	0.30 %			
					10	nF		1 kHz	0.30 %			
					10	nF		100 kHz	1.5 %			
					20	nF		10 Hz to 1 kHz	0.30 %			
					50	nF		10 Hz to 1 kHz	0.30 %			
					100	nF		10 Hz to 1 kHz	0.30 %			
					1	µF		10 Hz to 1 kHz	0.49 %			
					10	µF		10 Hz to 1 kHz	0.72 %			
11	Reserved											
12*	Inductance / Inductance meters									Direct measurement on a reference calibrator	KP-PB-115	5
					1	mH		1 kHz	0.61 %			
					10	mH		1 kHz	0.61 %			
					20	mH		1 kHz	0.61 %			
					30	mH		1 kHz	0.61 %			
					50	mH		1 kHz	0.61 %			
					100	mH		1 kHz	0.61 %			
					1	H		1 kHz	0.67 %			
					10	H		1 kHz	0.78 %			
					100	µF		1 kHz	5.1 %			
13	Reserved											
14*	Inspection equipment / Insulation resistance							Measuring voltage		Direct measurement on a calibrator of inspection instruments or a reference resistance box	KP-PB-120	5
		0.01	MΩ	to	5	MΩ		up to 5,000 V	0.12 %			
		5	MΩ	to	121	MΩ			0.22 %			

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		min. unit		max. unit						
		122 MΩ	to	1,221 GΩ			0.52 %			
		1,22 GΩ	to	12,221 GΩ			1.2 %			
	Mains impedance at 50 Hz							Direct measurement on a calibrator of inspection instruments		
		$Z_{0=}$ 0 Ω	to	2 Ω			20 mΩ			
		50 mΩ		+ Z_0			2.4 mΩ			
		100 mΩ		+ Z_0			3.8 mΩ			
		220 mΩ		+ Z_0			6.6 mΩ			
		330 mΩ		+ Z_0			9.6 mΩ			
		500 mΩ		+ Z_0			12 mΩ			
		1 Ω		+ Z_0			16 mΩ			
		5 Ω		+ Z_0			32 mΩ			
		10 Ω		+ Z_0			54 mΩ			
		100 Ω		+ Z_0			0.50 Ω			
		1 kΩ		+ Z_0			5.0 Ω			
	Transient resistance							Direct measurement on impedance standards		
				0.01 Ω		50 Hz	0.60 %			
				0.1 Ω		50 Hz	0.20 %			
				1 Ω		50 Hz	0.011 %			
	Leakage current							Direct measurement on a calibrator of inspection instruments or direct measurement with a multimeter		
				2 mA			1.7 %			
				4.7 mA			1.7 %			
				7.7 mA			1.7 %			

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Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand		Lowest stated expanded mesurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
		min.	unit	max.	unit						
	Tripping current of residual current circuit breakers	2 mA	to	3,000 mA				1.4 %	Direct measurement on a calibrator of inspection instruments		
	Tripping time of residual current circuit breakers	10 ms	to	400 ms				0.40 ms	Direct measurement on a calibrator of inspection instruments		
15	Reserved										
16	Oscilloscope / Vertical amplifier	2 mV 2 mV	to	50 V 50 V			0 Hz 1 kHz	0.012 % + 20 µV 0.13 % + 40 µV	Direct measurement on an oscilloscope calibrator	KP-PB-121	5
	/Time base	2 ns	to	5 s				0.010 %			
	/Limit frequency	5 MHz	to	600 MHz		50 Ω	600 mV_{p-p}	15 %			

[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).

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

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9. května 1182, 688 01 Uherský Brod

CMC for the field of measured quantity: Time and frequency quantities

Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded mesurement uncertainty [2]	Calibration principle	Calibration procedure identification [3]	Loca-tion
		min.	unit	max.	unit					
1*	Frequency / Frequency generators	0.001	Hz	20	GHz		$9.3 \cdot 10^{-8}$	Direct measurement by a reference counter	KP-PB-100	5
	Frequency / frequency meters	1	Hz	10	MHz	sine wave signal	$20 \cdot 10^{-6}$	Direct measurement on a reference calibrator		
2*	Time interval / Manually operated time meters	0:00:00	h:min:s	23:59:59	h:min:s		0.10 s	Comparison with a time interval standard	KP-PB-100	5
3*	Time base of digital stopwatch	10	Hz	10	MHz		$4.7 \cdot 10^{-6}$	Indirect measurement by a reference counter	KP-PB-100	5

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[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).

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

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CAB number 2318, Calibration Laboratory
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CMC for the field of measured quantity: Physicochemical quantities

Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the measurand	Lowest stated expanded mesurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
1*	Relative humidity	10 % RH	to		40 % RH		(10 to 60) °C	0.9 % RH	Comparison with a humidity standard	KP-PB-99	3,5
		40 % RH	to		70 % RH			1.0 % RH			
		70 % RH	to		80 % RH			1.1 % RH			
		80 % RH	to		90 % RH			1.2 % RH			
		90 % RH	to		95 % RH			1.6 % RH			

[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).

"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 the certificate itself. "