

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. | Atómové elektrárne Mochovce | Metrological Centre building, 935 39 Mochovce |
| 3. | Mladá Boleslav | Komenského náměstí 90/10, 293 01 Mladá Boleslav |
| 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				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Work-place
		min.	unit	max.	unit					
1*	Slide gauges	0 mm	to	2,000 mm		(15·L +15) μm (15·L +30) μm	Comparison with parallel gauge blocks	KP-PB-01	1,2,3	
		1,000 mm	to	2,000 mm	resol. 0.01 mm					
2*	Micrometers	0 mm	to	1,000 mm		(15·L +1.5) μm	Comparison with parallel gauge blocks	KP-PB-02	1,2,3	
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	1,2,3	
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			1,2,3	
		100 mm	to	500 mm		(2·L +0.2) μm			1.3	
		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 +0.8) 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, 2	

**The Appendix is an integral part of
Certificate of Accreditation No. 366/2023 of 10. 7. 2023**

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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	Work-place
		min.	unit	max.	unit					
							measurement with reference tape measure and ruler			
7*	Length gauges	0 mm	to	300 mm		$(0.8 \cdot L + 0.07) \mu\text{m}$	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		$(0.8 \cdot L + 0.03) \mu\text{m}$	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		$(0.3 \cdot L + 0.2) \mu\text{m}$	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 or a height gauge Comparison with a perpendicularity standard and parallel gauge blocks	KP-PB-26	1,2,3	
11*	Internal gauges	0 mm	to	300 mm		$(3 \cdot L + 2) \mu\text{m}$	Comparison with setting rings	KP-PB-20	1,2,3	
12*	Contact, optical, multisensor coordinate measuring machines	0 mm	to	1,600 mm		$(1 \cdot L + 0.2) \mu\text{m}$	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		$(2 \cdot L + 20) \mu\text{m}$	Comparison using step gauges	KP-PB-21	1,4	
14*	Coordinate measuring machines – proximity scanners	0 mm 0 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 mm	to	30 mm		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 measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Work-place
		min.	unit	max.	unit					
17	Surface roughness standards	0 μm		to	100 μm		(0.06·L) μm	Direct measurement by a roughness meter	KP-PB-23	1
18*	Roughness meters	0 μm		to	100 μm		(0.035·L) μm	Comparison with a roughness standard	KP-PB-24	1
21*	Profilometers	0 mm		to	600 mm		(1.2·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 +2) μm	Direct measurement by a coordinate measuring machine	KP-PB-27	1,2,3
	Gauges of length, diameter and geometric quantities	0 mm		to	1,000 mm		0.3 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
23*	Ring gauges	0 μm		to	2,000 μm	roundness straightness	0.1 μm 0.11 μm	Comparison with a reference sphere Comparison with a flat glass	KP-PB-31	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

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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. 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	Work-place
		min. unit	max. unit					
1*	Angle gauges	0 °	to 360 °		3´	Comparison with angle gauges	KP-PB-15	1,2,3
2	Builder's levels					Direct measurement on an index head, comparison with an angle gauge	KP-PB-36	1
	Clinometers	-3 °	to 3 °		0.7 mm/m			
3	Rotation angle of torque wrench					Direct measurement by an angle sensor	KP-PB-40 (ČSN EN ISO 6789, VDI/VDE 2648 1, STN EN ISO 6789)	1.3
		0 °	to 270 °		0.32°			

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CMC for the field of measured quantity: Mass

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	Work-place
		min.	unit	max.	unit					
1*	Balances with non-automatic function ⁴	0 kg	to	5 kg		5·10 ⁻⁷	Loading using a class E2 reference weight	KP-PB-71	1	
		5 kg	to	55 kg		1.6·10 ⁻⁶	class F1			
		55 kg	to	150 kg		5·10 ⁻⁶	class F2			
		150 kg	to	1,000 kg		1.7·10 ⁻⁵	class M1			
2	Weights			1 mg		0.026 mg	Comparison using a reference weight	KP-PB-75	1	
				2 mg		0.026 mg				
				5 mg		0.022 mg				
				10 mg		0.022 mg				
				20 mg		0.019 mg				
				50 mg		0.017 mg				
				100 mg		0.020 mg				
				200 mg		0.022 mg				
				500 mg		0.028 mg				
				1 g		0.028 mg				
				2 g		0.034 mg				
				5 g		0.041 mg				
				10 g		0.055 mg				
				20 g		0.058 mg				
				50 g		0.063 mg				
				100 g		0.15 mg				
				200 g		0.23 mg				
				500 g		6.4 mg				

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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	Workplace
		min.	unit	max.	unit					
				1 kg		7.9 mg				
				2 kg		9.1mg				
				5 kg		18 mg				
				10 kg		69 mg				
				20 kg		79 mg				

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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				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Work-place
		min.	unit	max.	unit					
1*	Torque / torque wrenches	0.2 N·m		to	1,000 N·m		0.4 %	Direct measurement by a torque sensor	KP-PB-40 (ČSN EN ISO 6789, VDI/VDE 2648-1, STN EN ISO 6789)	1, 2, 3
2*	Force / Working force-proving instruments	50 N		to	2,500 N	Tension, pressure	0.13 % FS	Direct measurement by a force-proving instrument	KP-PB-41	5
		10 N		to	1,000 N		0.07 %	Direct measurement by a force sensor		

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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				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Work-place	
		min.	unit	max.	unit						
1*	Mechanical pressure gauges and electromechanical manometers	-100 kPa	to	-1.5 kPa		negative gauge pressure	gas	0.031 % +1.16 Pa 0.025 % + 10 Pa	Comparison with a reference pressure gauge	KP-PB-55 KP-PB-56	1,2
		-1.5 kPa	to	0 kPa		positive gauge pressure	gas	0.025 % + 1 Pa 0.023 % + 1.16 Pa 0.017 % + 1.16 Pa 0.025 % + 0.2 kPa 0.7 kPa 3.01 kPa			
		0 kPa	to	1.5 kPa		positive gauge pressure	liquid	0.025 % +0.6 kPa 0.023 % +0.23 kPa 29 kPa 125 kPa			
		1.5 kPa	to	10 kPa		absolute pressure	gas	0.05 kPa 0.18 kPa			
		10 kPa	to	700 kPa							
		0.7 MPa	to	2 MPa							
		2 MPa	to	2.4 MPa							
		2.4 MPa	to	10 MPa							
		0 MPa	to	0.1 MPa							
		0.1 MPa	to	70 MPa							
		70 MPa	to	100 MPa							
		100 MPa	to	250 MPa							
		0 kPa	to	115 kPa							
		115 kPa	to	600 kPa							

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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	Work-place
		min.	unit	max.	unit					
1*	Direct-indicating thermometers	-100 °C	to	-60 °C		0.04 °C	Comparison using a reference resistance thermometer	KP-PB-51	5	
		-60 °C	to	0 °C		0.04 °C				
1*	Direct-indicating thermometers	0 °C	to	50 °C		0.03 °C	Comparison with a reference thermocouple	KP-PB-51	5	
		50 °C	to	230 °C		0.03 °C				
		230 °C	to	660 °C		0.04 °C				
		660 °C	to	700 °C		0.05 °C				
		700 °C	to	1,000 °C		1.1 °C				
		1,000 °C	to	1,100 °C		1.2 °C				
		1,100 °C	to	1,200 °C		1.2 °C				
		1,200 °C	to	1,500 °C		1.4 °C				
		1,500 °C	to	1,600 °C		2.4 °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				
2*	Direct indicating thermometers – temperature measuring chains – externally	660 °C	to	700 °C		1.1 °C	Comparison with a reference thermocouple	KP-PB-51	5	
		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		2.2 °C				
						2.3 °C				

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		min.	unit	max.	unit					
		1,200 °C	to	1,500 °C		2.9 °C				
		1,500 °C	to	1,600 °C		3.4 °C				
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				

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		min.	unit	max.	unit					
		-50 °C	to	250 °C		TC-S	0.64 °C			
		250 °C	to	1,768 °C			0.24 °C			
		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			

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		min.	unit	max.	unit					
		0 °C	to	600 °C		0.04 °C				
		600 °C	to	1,300 °C		0.04 °C				
		-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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		min.	unit	max.	unit					
		-80 °C	to	0 °C	Ni 120 (6720)	0.08 °C	Direct measurement of equivalent resistance for RTD	KP-PB-122	5	
		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				
		-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						
5	Temperature calibrators, temperature indicators	-210 °C	to	0 °C	TC-J	0.073 °C	Direct generation of equivalent DC voltage for TC – without cold junction compensation	KP-PB-122	2	
0 °C	to	760 °C	0.064 °C							
760 °C	to	1,200 °C	0.071 °C							
-200 °C	to	0 °C	TC-K	0.077 °C						
0 °C	to	760 °C		0.081 °C						
760 °C	to	1,372 °C	0.093 °C							
-250 °C	to	0 °C	TC-T	0.076 °C						
0 °C	to	400 °C		0.068 °C						
-50 °C	to	1,604 °C	TC-R	0.45 °C						
1,604 °C	to	1,664 °C		0.48 °C						
1,664 °C	to	1,768 °C		0.49 °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	Work-place
		min.	unit	max.	unit					
		-50 °C	to	1,604 °C	TC-S	0.45 °C	Direct measurement of equivalent DC voltage for TC – without cold junction compensation	KP-PB-122	2	
		1,604 °C	to	1,664 °C		0.46 °C				
		1,664 °C	to	1,768 °C		0.48 °C				
		0 °C	to	630 °C	TC-B	0.40 °C				
		630 °C	to	1,820 °C		0.25 °C				
		-270 °C	to	0 °C	TC-N	0.098 °C				
		0 °C	to	1,300 °C		0.10 °C				
		-270 °C	to	0 °C	TC-E	0.048 °C				
		0 °C	to	1,000 °C		0.045 °C				
		-210 °C	to	0 °C	TC-J	0.072 °C				
		0 °C	to	760 °C		0.063 °C				
		760 °C	to	1,200 °C		0.071 °C				
		-200 °C	to	760 °C	TC-K	0.075 °C				
760 °C	to	1,372 °C	0.093 °C							
-250 °C	to	0 °C	TC-T	0.074 °C						
0 °C	to	400 °C		0.066 °C						
-50 °C	to	1,604 °C	TC-R	0.44 °C						
1,604 °C	to	1,664 °C		0.47 °C						
1,664 °C	to	1,768 °C		0.49 °C						
-50 °C	to	1,604 °C	TC-S	0.43 °C						
1,604 °C	to	1,664 °C		0.45 °C						
1,664 °C	to	1,768 °C		0.47 °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	Work-place
		min.	unit	max.	unit					
		0 °C	to	630 °C	TC-B	0.39 °C	Direct generation of equivalent resistance for RTD	KP-PB-122	2	
		630 °C	to	1,820 °C		0.21 °C				
		-270 °C	to	0 °C	TC-N	0.089 °C				
		0 °C	to	1,300 °C		0.10 °C				
		-270 °C	to	0 °C	TC-E	0.047 °C				
		0 °C	to	1,000 °C		0.043 °C				
		-200 °C	to	0 °C	Pt 25	0.31 °C				
		0 °C	to	850 °C		0.42 °C				
		-200 °C	to	0 °C	Pt 50	0.16 °C				
		0 °C	to	850 °C		0.19 °C				
		-200 °C	to	0 °C	Pt 100	0.082 °C				
		0 °C	to	850 °C		0.12 °C				
-200 °C	to	0 °C	Pt 200	0.054 °C						
0 °C	to	850 °C		0.094 °C						
-200 °C	to	0 °C	Pt 500	0.038 °C						
0 °C	to	850 °C		0.11 °C						
-200 °C	to	0 °C	Pt 1000	0.050 °C						
0 °C	to	850 °C		0.090 °C						
-60 °C	to	180 °C	Ni 100	0.073 °C						
-60 °C	to	180 °C		Ni 1000	0.046 °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	Work-place
		min.	unit	max.	unit					
		-200 °C	to	0 °C		Pt 25	0.064 °C	Direct measurement of equivalent resistance for RTD	KP-PB-122	2
		0 °C	to	850 °C			0.092 °C			
		-200 °C	to	0 °C		Pt 50	0.040 °C			
		0 °C	to	850 °C			0.068 °C			
		-200 °C	to	0 °C		Pt 100	0.029 °C			
		0 °C	to	850 °C			0.072 °C			
		-200 °C	to	0 °C		Pt 200	0.033 °C			
		0 °C	to	850 °C			0.058 °C			
		-200 °C	to	0 °C		Pt 500	0.023 °C			
		0 °C	to	850 °C			0.048 °C			
		-200 °C	to	0 °C		Pt 1000	0.023 °C			
		0 °C	to	850 °C			0.076 °C			
		-60 °C	to	180 °C		Ni 100	0.028 °C			
		-60 °C	to	180 °C		Ni 1000	0.021 °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				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Work-place
		min. unit	max. unit	unit	unit					
1*	DC voltage / DC voltage sources	0 mV	to	120 mV		8.0 $\mu\text{V/V} + 0.2 \mu\text{V}$	Direct measurement by a reference multimeter	KP-PB-110	5, 2	
		0.12 V	to	1.2 V		5.7 $\mu\text{V/V} + 0.61 \mu\text{V}$				
	1.2 V	to	12 V		5.5 $\mu\text{V/V} + 6.1 \mu\text{V}$	Measurement with a HV adapter or measurement with a reference multimeter with HV probe	KP-PB-120	2		
	12 V	to	120 V		8.1 $\mu\text{V/V} + 81 \mu\text{V}$					
		120 V	to	1,050 V		8.1 $\mu\text{V/V} + 1.2 \text{ mV}$				
		1.05 kV	to	10 kV		1.2 %				
1*	DC voltage / DC voltage meters	0 mV	to	200 mV		12 $\mu\text{V/V} + 2.1 \mu\text{V}$	Direct measurement on a reference calibrator or comparison with a reference multimeter	KP-PB-110	5, 2	
		0.2 V	to	2 V		7 $\mu\text{V/V} + 2.3 \mu\text{V}$				
	2 V	to	20 V		5 $\mu\text{V/V} + 7 \mu\text{V}$	Direct measurement on a HV source or comparison with a reference multimeter with a HV probe	KP-PB-110	2		
	20 V	to	200 V		8 $\mu\text{V/V} + 78 \mu\text{V}$					
		200 V	to	1,100 V		10 $\mu\text{V/V} + 0.71 \text{ mV}$				
		1.1 kV	to	5 kV		1.1 %				
2*	DC current / DC current sources	0 μA	to	120 μA		23 $\mu\text{A/A} + 0.42 \text{ nA}$	Direct measurement by a reference multimeter	KP-PB-111	5, 2	
	0.12 mA	to	1.2 mA		14 $\mu\text{A/A} + 4.1 \text{ nA}$					
	1.2 mA	to	12 mA		16 $\mu\text{A/A} + 41 \text{ nA}$					
	12 mA	to	120 mA		42 $\mu\text{A/A} + 0.61 \mu\text{A}$					

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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	Work-place
		min.	unit	max.	unit					
		0.12 A	to	1.2 A			0.020 % + 13 μA			
		1.2 A	to	10			0.048 % + 0.35 mA			
		10 A	to	30 A			0.064 % + 4.4 mA			
		30 A	to	100 A			0.011 %	Indirect measurement using a reference shunt and multimeter.	KP-PB-111	5
		100 A	to	200 A			0.064 %			
		200	to	300 A			0.069 %			
		300 A	to	1,000 A			2.0 % +2,3 A	Direct measurement by a reference clamp multimeter.	KP-PB-111	5
	DC current / DC current meters	0 μA	to	200 μA			0.011 % + 2 nA	Direct measurement on a reference calibrator or comparison with a reference multimeter	KP-PB-111	5, 2
		0.2 mA	to	2 mA			51 μA/A + 11 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	100 A			0.15 % + 0.12 A			
		30 A	to	1,500 A			0.60 % + 0.42 A			
3*	AC voltage / AC voltage sources	0 mV	to	200 mV		10 Hz to 40 Hz	0.061 % + 19 μV	Direct measurement by a reference multimeter	KP-PB-112	5, 2
						40 Hz to 10 kHz	0.026 % + 16 μV			
						10 kHz to 30 kHz	0.058 % + 17 μV			

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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	Work-place
		min.	unit	max.	unit					
						30 kHz to 100 kHz	0.13 % + 66 μV			
		0.2 V	to	2 V		10 Hz to 40 Hz 40 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz	0.048 % + 0.24 mV 0.019 % + 57 μV 0.029 % + 67 μV 0.058 % + 0.24 mV 0.32 % + 2.1 mV 1.1 % + 20 mV			
		2 V	to	20 V		10 Hz to 40 Hz 40 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz	0.048 % + 2.3 mV 0.018 % + 0.54 mV 0.029 % + 0.64 mV 0.058 % + 2.3 mV 0.32 % + 20 mV 1.0 % + 0.20 V			
		20 V	to	200 V		10 Hz to 40 Hz 40 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz	0.060 % + 23 mV 0.017 % + 6.1 mV 0.029 % + 7.1 mV 0.059 % + 27 mV			
		200 V	to	1,100 V		10 Hz to 40 Hz 40 Hz to 10 kHz 10 kHz to 30 kHz	0.060 % + 0.16 V 0.027 % + 0.10 V 0.039 % + 0.18 V			
		1 kV	to	10 kV		50 Hz	1.4 %	Measurement with a HV adapter or measurement with a reference multimeter with HV probe	KP-PB-120	2
	AC voltage / AC voltage meters	0 mV	to	200 mV		10 Hz to 30 Hz	0.018 % + 15 μV	Direct measurement on a reference calibrator or comparison with a reference multimeter	KP-PB-112	5, 2

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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	Work-place
		min.	unit	max.	unit					
						30 Hz to 10 kHz 10 kHz to 33 kHz 33 kHz to 100 kHz 100 kHz to 330 kHz 330 kHz to 1 MHz	0.013 % + 14 μV 0.03 % + 22 μV 0.074 % + 38 μV 0.16 % + 63 μV 0.26 % + 0.16 mV			
		0.2 V	to	2 V		10 Hz to 30 Hz 30 Hz to 330 Hz 330 Hz to 33 kHz 33 kHz to 100 kHz 100 kHz to 330 kHz 330 kHz to 1 MHz	0.014 % + 91 μV 0.0074 % + 33 μV 0.0065 % + 28 μV 0.014 % + 54 μV 0.037 % + 0.16 mV 0.20 % + 0.92 mV			
		2 V	to	20 V		10 Hz to 30 Hz 30 Hz to 330 Hz 330 Hz to 10 kHz 10 kHz to 33 kHz 33 kHz to 100 kHz 100 kHz to 330 kHz 330 kHz to 1 MHz	0.014 % + 0.90 mV 0.0075 % + 0.34 mV 0.0066 % + 0.11 mV 0.0067 % + 0.33 mV 0.014 % + 0.68 mV 0.038 % + 1.7 mV 0.21 % + 12 mV			
		20 V	to	200 V		10 Hz to 30 Hz 30 Hz to 330 Hz 330 Hz to 10 kHz 10 kHz to 33 kHz 33 kHz to 100 kHz 100 kHz to 200 kHz	0.016 % + 10 mV 0.0086 % + 3.8 mV 0.0076 % + 3.4 mV 0.0088 % + 4.3 mV 0.019 % + 8.5 mV 0.061 % + 27 mV			

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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	Work-place
		min.	unit	max.	unit					
		200 V	to	750 V		45 Hz to 330 Hz 330 Hz to 10 kHz 10 kHz to 33 kHz 33 kHz to 100 kHz	0.018 % + 38 mV 0.014 % + 32 mV 0.022 % + 60 mV 0.11 % + 0.20 V			
		750 V	to	1,100 V		45 Hz to 330 Hz 330 Hz to 10 kHz 10 kHz to 33 kHz	0.018 % + 38 mV 0.014 % + 32 mV 0.020 % + 60 mV			
		1.1 kV	to	5 kV		50 Hz	1.1 %			
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, 2
100 μA	to	200 μA		10 Hz to 5 kHz	0.062 % + 45 nA					
0.2 mA	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	2 mA		10 Hz to 5 kHz	0.050 % + 0.37 μA					
2 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	20 mA		10 Hz to 5 kHz	0.050 % + 3.3 μA					
20 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	200 mA		10 Hz to 5 kHz	0.050 % + 31 μA					

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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	Work-place			
		min.	unit	max.	unit								
		0.2 A	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	2 A		10 Hz to 1 kHz	0.078 % + 0.49 mA						
		2 A	to	10 A		10 Hz to 40 Hz 40 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz	0.10 % + 5.8 mA 0.091 % + 3.2 mA 0.18 % + 12 mA 0.51 % + 79 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						
		30 A	to	100 A		50 Hz	0.14 %				Indirect measurement using a reference shunt and multimeter.	KP-PB-113	2
		30 A	to	1,000 A		30 Hz to 60 Hz	2.1 % + 1.2 A				Direct measurement by a reference clamp multimeter.	KP-PB-113	5
		AC current / AC current meters									Direct measurement on a reference calibrator or comparison with a reference multimeter	KP-PB-113	5, 2
		9 μA	to	200 μA		10 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz	0.030 % + 25 nA 0.054 % + 49 nA 0.96 % + 0.20 μA						
		0.2 mA	to	2 mA		10 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz	0.026 % + 0.25 μA 0.035 % + 0.25 μA 0.50 % + 0.35 μA						
		2 mA	to	20 mA		10 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz	0.026 % + 1.6 μA 0.035 % + 2.5 μA 0.25 % + 3.4 μA						
		20 mA	to	200 mA		10 Hz to 1 kHz	0.026 % + 25 μA						

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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	Work-place
		min.	unit	max.	unit					
						1 kHz to 5 kHz 5 kHz to 10 kHz	0.035 % + 25 μA 0.50 % + 43 μA			
		0.2 A	to	2 A		10 Hz to 1 kHz 1 kHz to 5 kHz	0.052 % + 0.42 mA 0.068 % + 0.48 mA			
		2 A	to	11 A		10 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz 10 kHz to 20 kHz	0.050 % + 3.4 mA 0.098 % + 4.4 mA 0.23 % + 10 mA 0.77 % + 40 mA			
		11 A	to	30 A		30 Hz to 45 Hz 45 Hz to 100 Hz 100 Hz to 1 kHz 1 kHz to 3 kHz 3 kHz to 10 kHz	0.19 % + 3.5 mA 0.059 % + 2.5 mA 0.50 % + 4.3 mA 0.20 % + 7.3 mA 0.50 % + 5.9 mA			
		30 A	to	100 A		40 Hz to 120 Hz	0.20 % + 0.13 A			
		30 A	to	1,500 A		30 to 60 Hz	0.48 % + 0.080 A			
							Measurement of a current simulated by a calibrator with current coil	KP-PB-113	2	5, 2
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, 2
		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 %			

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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	Work-place
		min.	unit	max.	unit					
		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									
				0 Ω		0.4 mΩ	Direct measurement of fixed resistance standards or direct measurement on a calibrator or comparison with a reference multimeter	KP-PB-114	5, 2	
				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		0.0038 %				
				100 Ω		0.0013 %				
				1 kΩ		0.0013 %				
				10 kΩ		0.0013 %				
				100 kΩ		0.0013 %				
				1 MΩ		0.0033 %				
				10 MΩ		0.0064 %				
				100 MΩ		0.014 %				
				1 GΩ		1.0 %				
		0 Ω	to	120 Ω		32 μΩ/Ω + 4 mΩ	Direct measurement on a reference resistance box	KP-PB-114	5, 2	
		0.12 kΩ	to	1.2 kΩ		33 μΩ/Ω				
		1.2 kΩ	to	12 kΩ		33 μΩ/Ω				
		12 kΩ	to	120 kΩ		34 μΩ/Ω				

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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	Work-place
		min.	unit	max.	unit					
		0.12 MΩ	to	1.2 MΩ			37 μΩ/Ω			
		1.2 MΩ	to	12 MΩ			49 μΩ/Ω			
		12 MΩ	to	120 MΩ			0.073 %			
		0.12 GΩ	to	1 GΩ			0.055 %			
		1 GΩ	to	10 GΩ			0.15 %			
		10 GΩ	to	100 GΩ			0.21 %			
		100 GΩ	to	500 GΩ			0.90 %			
6*	AC resistance / AC resistance meters			0.01 Ω	50 Hz		0.60 %	Direct measurement on resistance standards	KP-PB-115	5, 2
				1 Ω	50 Hz		0.011 %			
				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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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	Work-place
		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
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 0.8 to 0.9 0.7 to 0.8 0.6 to 0.7 0.5 to 0.6 0.4 to 0.5 0.3 to 0.4 0.2 to 0.3 0.1 to 0.2 0.1	0.13 % 0.32 % 0.46 % 0.62 % 0.8 % 1.0 % 1.4 % 1.9 % 2.9 % 5.9 %	Direct measurement on a reference calibrator	KP-PB-123	5
9	AC active power single phase/ AC active power meters (for voltage from 0.9 V to 750 V and current from 9 mA to 10 A, frequency from 40 Hz to 400 Hz), capacitive and inductive	1 W		to	7,500 W	cos φ 0.5 to 1	0.14 %	Direct measurement on a reference calibrator	KP-PB-123	2

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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	Work-place
		min.	unit	max.	unit					
10*	Capacity / Capacity meters									
				1 nF		10 Hz to 1 kHz	0.30 %	Direct measurement on a reference calibrator or direct measurement on capacity standards	KP-PB-115	5
				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	Capacity / Capacity meters							Direct measurement on a reference calibrator or direct measurement on capacity standards	KP-PB-115	2
		220 pF	to	400 pF		10 Hz to 10 kHz	3.2 %			
		0.4 nF	to	1.1 nF		10 Hz to 10 kHz	1.4 %			
		1.1 nF	to	3.3 nF		10 Hz to 3 kHz	0.81 %			
		3.3 nF	to	11 nF		10 Hz to 1 kHz	0.36 %			
		11 nF	to	33 nF		10 Hz to 1 kHz	0.56 %			
		33 nF	to	330 nF		10 Hz to 1 kHz	0.36 %			
		0.33 µF	to	1.1 µF		10 Hz to 600 Hz	0.36 %			
		1.1 µF	to	3.3 µF		10 Hz to 300 Hz	0.36 %			
		3.3 µF	to	11 µF		10 Hz to 150 Hz	0.36 %			
		11 µF	to	33 µF		10 Hz to 120 Hz	0.51 %			
		33 µF	to	110 µF		10 Hz to 80 Hz	0.59 %			
		110 µF	to	330 µF		0 Hz to 50 Hz	0.54 %			
		0.33 mF	to	1.1 mF		0 Hz to 20 Hz	0.54 %			
		1.1 mF	to	3.3 mF		0 Hz to 6 Hz	0.54 %			

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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	Work-place
		min.	unit	max.	unit					
		3,3 mF	to	11 mF		0 Hz to 2 Hz	0.54 %			
		11 mF	to	33 mF		0 Hz to 0.6 Hz	0.84 %			
		33 mF	to	110 mF		0 Hz to 0.2 Hz	1.2 %			
12*	Inductance / Inductance meters	1 mH				1 kHz	0.61 %	Direct measurement on a reference calibrator	KP-PB-115	5
		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 %			
13	Inductance / Inductance meters	1 mH	to	10 mH		1 kHz	0.71 %	Direct measurement on a reference induction box	KP-PB-115	2
		1 mH	to	10 mH		1 kHz	0.71 %			
		10 mH	to	100 mH		1 kHz	1.4 %			
		100 mH	to	1000 mH		1 kHz	0.10 %			
14*	Inspection equipment / Insulation resistance	0.01 MΩ	to	5 MΩ		Measuring voltage up to 1,000 V	0.12 %	Direct measurement on a calibrator of inspection instruments	KP-PB-120	5
		5.01 MΩ	to	2,000 MΩ			1.2 %			
	Impedance at 50 Hz	Z ₀ = 0 Ω	to	2 Ω			20 mΩ	Direct measurement on a calibrator of inspection instruments		
		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			

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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	Work-place
		min.	unit	max.	unit					
		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				
	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 %				
	Tripping current of residual current circuit breakers							Direct measurement on a calibrator of inspection instruments		
		2 mA	to	3,000 mA		1.4 %				
	Tripping time of residual current circuit breakers							Direct measurement on a calibrator of inspection instruments		
		10 ms	to	400 ms		0.40 ms				
15	Inspection equipment / Insulation resistance							Direct measurement on a calibrator of inspection instruments or direct measurement on a reference resistance box	KP-PB-120	2
		10 kΩ	to	10 MΩ	Measuring voltage up to 1,500 V	0.30 %				
		10 MΩ	to	1,000 MΩ		0.70 %				
		1 GΩ	to	500 GΩ	Measuring voltage up to 5,000 V	1.5 %				

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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	Work-place
		min.	unit	max.	unit					
		350 MΩ	to	100 GΩ	With an adapter (× 1,000) with measuring voltage up to 10 kV	1.7 %				
		100 GΩ	to	1,000 GΩ		3.5 %				
		1 TΩ	to	9 TΩ		5.0 %				
	Impedance of a protective loop, mains internal resistance, earth resistance			25 mΩ		7.0 mΩ	Direct measurement on a calibrator of inspection instruments			
				50 mΩ		7.0 mΩ				
				100 mΩ		7.9 mΩ				
				330 mΩ		8.0 mΩ				
				500 mΩ		9.6 mΩ				
				1 Ω		13 mΩ				
				1.8 Ω		22 mΩ				
				5 Ω		40 mΩ				
				10 Ω		78 mΩ				
				18 Ω		0.13 Ω				
				50 Ω		0.4 Ω				
				100 Ω		0.65 Ω				
				180 Ω		1.3 Ω				
				500 Ω		3.3 Ω				
				1 kΩ		6.5 Ω				
				1.8 kΩ		13 Ω				

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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	Work-place
		min.	unit	max.	unit					
	Contact resistance	100 mΩ	to	200 Ω			0.45 %	Direct measurement on a calibrator of inspection instruments		
		200 Ω	to	10 kΩ			0.20 %			
	/Leakage current passive	0.1 mA	to	30 mA		50 Hz	0.34 % + 2 μA	Direct measurement on a calibrator of inspection instruments		
	/Leakage current differential	0.1 mA	to	30 mA		50 Hz	0.34 % + 2 μA			
	/Leakage current substitution	0.1 mA	to	30 mA		50 Hz	0.34 % + 2 μA			
	Leakage current active	0.1 mA	to	30 mA		50 Hz	0.34 % + 2 μA			
	Leakage current active	0.1 mA	to	300 mA		0 Hz	0.34 % + 2 μA			
		0.1 mA	to	300 mA		20 Hz to 400 Hz	0.34 % + 2 μA			
Tripping current of residual current circuit breakers	3 mA	to	3,000 mA		50 Hz	1.0 %				
Tripping time of residual current circuit breakers	10 ms	to	5,000 ms			0.020 % + 0.7 ms				
16	Oscilloscope / Vertical amplifier	2 mV	to	50 V		0 Hz	0.012 % + 20 μV	Direct measurement on an oscilloscope calibrator	KP-PB-121	5
		2 mV	to	50 V		1 kHz	0.13 % + 40 μV			
	/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).

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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 measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Work-place
		min.	unit	max.	unit					
1*	Frequency / Frequency generators	0.001 Hz	to	20 GHz		$9.3 \cdot 10^{-8}$	Direct measurement by a reference counter	KP-PB-100	5	
	Frequency / frequency meters	1 Hz	to	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, 2	
3*	Time base of digital stopwatch	10 Hz	to	10 MHz		$1.0 \cdot 10^{-6}$	Indirect measurement by a reference counter	KP-PB-100	5, 2	
4	Frequency / frequency generators	10 Hz	to	350 MHz		$2.2 \cdot 10^{-10}$	Direct measurement by a reference counter	KP-PB-100	2	
	Frequency / frequency meters	10 Hz	to	1.2 GHz		$2.2 \cdot 10^{-10}$	Direct measurement on a reference generator			

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CMC for the field of measured quantity: Physicochemical 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	Work-place
		min.	unit	max.	unit					
1*	Relative humidity	10 % RH	to	20 % RH		(10 to 70)°C	1.7 % RH	Comparison with a humidity standard	KP-PB-99	5
		20 % RH	to	30 % RH			1.5 % RH			
		30 % RH	to	40 % RH			1.2 % RH			
		40 % RH	to	50 % RH			1.0 % RH			
		50 % RH	to	60 % RH			1.1 % RH			
		60 % RH	to	70 % RH			1.3 % RH			
		70 % RH	to	80 % RH			1.9 % RH			
		80 % RH	to	90 % RH			2.0 % RH			
		90 % RH	to	95 % RH			2.3 % RH			

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