

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

Institut pro testování a certifikaci, a. s.
CAB number 2222, Calibration Laboratory
Sokolovská 573, 686 01 Uherské Hradiště

Calibration laboratory locations:

- | | | |
|----|-------------------------|---|
| 1. | Uherské Hradiště | Sokolovská 573, 686 01 Uherské Hradiště |
| 2. | Zlín | třída Tomáše Bati 5264, 760 01 Zlín |
| 3. | Praha | Křelovická 970, 104 00 Praha 10 – Uhříněves |
| 4. | Brno | Křížíkova 70, 612 00 Brno |

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 mesurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
		min.	unit	max.	unit					
1	Slide gauges	0 mm	to	100 mm		12 µm	Direct measurement using parallel gauge blocks	KP 1/D	1	
		100 mm	to	500 mm		14 µm				
2	Depth gauges	0 mm	to	200 mm		13 µm	Direct measurement using parallel gauge blocks	KP 1/D		
3	Height gauges	0 mm	to	500 mm		14 µm	Direct measurement using parallel gauge blocks	KP 1/D		
4	Micrometers	0 mm	to	50 mm		1.6 µm	Direct measurement using parallel gauge blocks	KP 2/D		
		50 mm	to	100 mm		2.0 µm				
		100 mm	to	200 mm		3.2 µm				
5	Micrometer depth gauges	0 mm	to	100 mm		2 µm	Direct measurement using parallel gauge blocks	KP 2/D		
6	Three-contact internal gauge with a micrometer screw	0 mm	to	50 mm		1.6 µm	Direct measurement of standard measuring rings.	KP 2/D		
		50 mm	to	75 mm		1.8 µm				
		75 mm	to	100 mm		2.0 µm				
7	Three-contact internal gauge with a lever mechanism	0 mm	to	50 mm		2.1 µm	Direct measurement of standard measuring rings	KP 2/D		
		50 mm	to	75 mm		2.3 µm				
		75 mm	to	100 mm		2.5 µm				

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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					
8	Two-contact internal gauge	0 mm	to	35 mm		2.5 μm	Direct measurement of standard measuring rings	KP 2/D		
		35 mm	to	65 mm		2.6 μm				
		65 mm	to	75 mm		2.7 μm				
		75 mm	to	100 mm		2.9 μm				
9	Pasameters	0 mm	to	25 mm		0.5 μm	Direct measurement using parallel gauge blocks	KP 2/D		
		25 mm	to	50 mm		0.8 μm				
		50 mm	to	75 mm		1.2 μm				
		75 mm	to	100 mm		1.5 μm				
		100 mm	to	125 mm		1.8 μm				
		125 mm	to	150 mm		2.2 μm				
		150 mm	to	175 mm		2.5 μm				
		175 mm	to	200 mm		2.9 μm				
10	Micropasameters	0 mm	to	25 mm		2.0 μm	Direct measurement using parallel gauge blocks	KP 2/D		
		25 mm	to	50 mm		2.5 μm				
		50 mm	to	75 mm		3.2 μm				
		75 mm	to	100 mm		3.8 μm				
		100 mm	to	125 mm		4.5 μm				
		125 mm	to	150 mm		5.4 μm				
		150 mm	to	175 mm		6.1 μm				
		175 mm	to	200 mm		6.9 μm				
11	Centesimal indicators	0 mm	to	100 mm		(2L + 6) μm	Comparison with a standard length gauge	KP 3/D		
12	Millesimal indicators	0 mm	to	50 mm		(2L + 1) μm	Comparison with a standard length gauge	KP 3/D		
13	Cylindrical gauges	0 mm	to	200 mm		(3L + 0.5) μm	Direct measurement by a length gauge	KP 3/D		
14	Slot gauges	0 mm	to	200 mm		(3L + 0.5) μm	Direct measurement by a length gauge	KP 3/D		

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		min.	unit	max.	unit					
15	Limit plug gauges	0 mm		200 mm			(5·L +3) μm	Direct measurement by a length gauge	KP 3/D	
16	Precision plug gauges	0 mm		50 mm			(1·L +0.5) μm	Direct measurement by a length gauge	KP 3/D	
17	Measuring wires	0.17 mm		6.35 mm			(1·L +0.5) μm	Direct measurement by a length gauge	KP 3/D	
18	Setting rings	10 mm		200 mm			(4·L +1.2) μm	Direct measurement by a length gauge	KP 3/D	
19	Micrometer depth gauges	0 mm		100 mm			2.0 μm	Direct measurement by a length gauge	KP 3/D	
20	Steel rules	0 mm		250 mm			0.05 mm	Direct measurement by a standard microscope	KP 4/D	
21	Rules – straightness	0 mm		250 mm			0.007 mm	Direct measurement by a standard microscope.	KP 4/D	
22	Thread gauges	0 mm		300 mm			0.01 mm	Direct measurement by a standard microscope.	KP 4/D	1
23	Radius gauges	0 mm		300 mm			0.01 mm	Direct measurement by a standard microscope.	KP 4/D	
24	Profile gauges	0 mm		300 mm			(1·L +0.5) μm	Direct measurement by a standard microscope.	KP 4/D	
25	Parallel gauge blocks	0.5 mm		100 mm			(2·L +0.2) μm	Comparison with standard parallel gauge blocks	KP 21/D	

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 measured length in metres

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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	Location
		min. unit	max. unit					
1	Angles	0 °	to 180 °		2.5 ′	Direct measurement by a standard microscope.	KP 4/D	1
2	Angle gauges	0 °	to 360 °		2.5 ′	Direct measurement by a standard microscope.	KP 4/D	

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CMC for the field of measured quantity: Mechanical motion (speed)

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	Speed / analogue and digital contact and contactless, revolution counters, rpm sensors, stroboscopes.	1 min ⁻¹ to 10,000 min ⁻¹					0.006 min ⁻¹	Direct measurement of optical signal or direct comparison with a standard revolution counter	KP 6/F	1
		10,000 min ⁻¹ to 999,999 min ⁻¹					0.03 min ⁻¹			
		2 min ⁻¹ to 999.99 min ⁻¹					0.1 min ⁻¹	Measurement by a standard revolution counter		
		1,000 min ⁻¹ to 9,999 min ⁻¹					0.9 min ⁻¹			
		10,000 min ⁻¹ to 999,999 min ⁻¹					7.0 min ⁻¹			

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CMC for the field of measured quantity: Hardness

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	Hardness tester Shore A	1 Shore A	to 100 Shore A	Spring force 31 mN	0.3 Shore A	Direct measurement of force on a calibrator and measurement of tip geometry using an image analyzer	KP 1/H	2
2	Hardness tester Shore C	1 Shore C	to 100 Shore C	Spring force 71 mN	0.3 Shore C	Direct measurement of force on a calibrator and measurement of tip geometry using an image analyzer	KP 1/H	
3	Hardness tester Shore D	1 Shore D	to 100 Shore D	Spring force 71 mN	0.3 Shore D	Direct measurement of force on a calibrator and measurement of tip geometry using an image analyzer	KP 1/H	
4	Hardness tester IRHD/N	10 IRHD	to 100 IRHD		0.6 IRHD	Direct measurement of force on a calibrator and measurement of tip geometry using an image analyzer	KP 2/H	
5	Hardness tester IRHD/m	10 IRHD	to 100 IRHD		1.1 IRHD	Direct measurement of force on a calibrator and measurement of tip geometry using an image analyzer	KP 2/H	

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CMC for the field of measured quantity: Pressure, mechanical stress

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	Deformation pressure gauges	0 kPa	to 10 kPa	Overpressure gas	0.015 % + 0.058 kPa	Comparison with a standard digital manometer	KP 1/P	1
		10 kPa	to 400 kPa		0.046 % + 0.07 kPa			
		0.4 MPa	to 2 MPa		0.046 % + 0.18 kPa			
		2 MPa	to 6 MPa		0.015 % + 0.42 kPa			
		0 kPa	to 95 kPa	Underpressure gas	0.046 % + 0.07 kPa			
		70 kPa	to 130 kPa	Absolute pressure gas ⁴	0.015 % + 0.12 kPa			
		130 kPa	to 520 kPa		0.046 % + 0.13 kPa			
		0.52 MPa	to 2.12 MPa		0.046 % + 0.21 kPa			
		2.12 MPa	to 6 MPa		0.015 % + 0.44 kPa			
6 MPa	to 16 MPa	Overpressure, absolute pressure gas, liquid ⁴	0.015 % + 1.2 kPa					
16 MPa	to 60 MPa	Overpressure, absolute pressure liquid ⁴	0.046 % + 11 kPa					
60 MPa	to 100 MPa		0.012 % + 8.3 kPa					
70 kPa	to 120 kPa	Barometric pressure	0.082 kPa					
2*	Pressure converters	0 kPa	to 10 kPa	Overpressure gas	0.015 % + 0.0018 kPa	Comparison with a standard digital manometer	KP 2/P	
		10 kPa	to 400 kPa		0.048 % + 0.035 kPa			
		0.4 MPa	to 2 MPa		0.048 % + 0.12 kPa			
		2 MPa	to 6 MPa		0.015 % + 0.35 kPa			
		0 kPa	to 95 kPa	Underpressure gas	0.048 % + 0.035 kPa			
		70 kPa	to 130 kPa	Absolute pressure gas ⁴	0.015 % + 0.1 kPa			
130 kPa	to 520 kPa	0.048 % + 0.11 kPa						
0.52 MPa	to 2.12 MPa	0.048 % + 0.16 kPa						
2.12 MPa	to 6 MPa	0.015 % + 0.36 kPa						

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		min. unit	max. unit					
		6 MPa	to 16 MPa	Overpressure, absolute pressure gas, liquid ⁴	0.015 % + 0.93 kPa			
		16 MPa	to 60 MPa	Overpressure, absolute pressure liquid ⁴	0.048 % + 11 kPa			
		60 MPa	to 100 MPa		0.012 % + 8.1 kPa			
		70 kPa	to 120 kPa	Barometric pressure	0.12 %			
3*	Digital manometers	0 kPa	to 10 kPa	Overpressure gas	0.015 % + 0.0018 kPa	Comparison with a standard digital manometer	KP 3/P	
		10 kPa	to 400 kPa		0.046 % + 0.039 kPa			
		0.4 MPa	to 2 MPa		0.046 % + 0.14 kPa			
		2 MPa	to 6 MPa		0.015 % + 0.36 kPa			
		0 kPa	to 95 kPa	Underpressure gas	0.046 % + 0.039 kPa			
		70 kPa	to 130 kPa	Absolute pressure gas ⁴	0.015 % + 0.1 kPa			
		130 kPa	to 520 kPa		0.046 % + 0.11 kPa			
		0.52 MPa	to 2.12 MPa		0.046 % + 0.17 kPa			
		2.12 MPa	to 6 MPa		0.015 % + 0.37 kPa			
		6 MPa	to 16 MPa	Overpressure, absolute pressure gas, liquid ⁴	0.015 % + 0.98 kPa			
		16 MPa	to 60 MPa	Overpressure, absolute pressure liquid ⁴	0.046 % + 0.11 kPa			
		60 MPa	to 100 MPa		0.012 % + 8.2 kPa			
		70 kPa	to 120 kPa	Barometric pressure	0.058 kPa			

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⁴ The resulting pressure is the sum of relative and barometric pressure. The resulting uncertainty is the combination of relative and barometric pressure uncertainty.

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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.
1*	Thermocouples	-40 °C	to	0 °C	0.6 °C	Comparison with a standard resistance sensor in liquid bath.	KP 1/T	1, 4	
				0 °C	0.6 °C				Comparison with a standard resistance sensor in dry block.
		0 °C	to	100 °C	0.6 °C				
		100 °C	to	250 °C	0.7 °C				
250 °C	to	600 °C	0.8 °C						
		600 °C	to	800 °C	1.5 °C	Comparison with a standard thermoelectric sensor in a horizontal oven			
		800 °C	to	1,200 °C	2.2 °C				
2*	Resistance temperature sensors, resistance temperature sensors with a transducer	-40 °C	to	0 °C	0.07 °C	Comparison with a reference resistance sensor in a liquid bath or dry block	KP 2/T	4	
				0 °C	0.05 °C				
		0 °C	to	100 °C	0.08 °C				
		100 °C	to	250 °C	0.10 °C				
250 °C	to	350 °C	0.43 °C	Comparison with a standard resistance sensor in dry block					
		350 °C	to	600 °C	0.62 °C				
3*	Glass thermometers	-40 °C	to	0 °C	0.20 °C	Comparison with a standard resistance sensor in liquid bath	KP 3/T	1, 4	
				0 °C	0.05 °C				
		0 °C	to	100 °C	0.14 °C				
		100 °C	to	250 °C	0.15 °C				
		250 °C	to	300 °C	0.30 °C				

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		min.	unit	max.	unit					
4*	Direct-indicating thermometers	-80 °C	to	-40 °C		0.3 °C	Comparison with a reference direct indicating temperature sensor in an electrical vertical furnace	KP 4/T	1, 4	
		-40 °C	to	0 °C		0.07 °C				
		0 °C	to	100 °C		0.06 °C	Comparison with a standard resistance sensor in dry block			
		100 °C	to	250 °C		0.09 °C				
		250 °C	to	350 °C		0.10 °C	Comparison with a standard thermoelectric sensor in a horizontal oven			
		350 °C	to	600 °C		0.44 °C				
600 °C	to	800 °C		1.6 °C						
800 °C	to	1,200 °C		2.2 °C						
5*	Controllers and indicators	-270 °C	to	0 °C	Type K	0.3 °C	Simulation of thermoelectric temperature sensors using DC voltage	KP 5/T	1, 4	
		0 °C	to	1,370 °C	Type K	0.3 °C				
		-50 °C	to	0 °C	Type S	0.9 °C				
		0 °C	to	1,780 °C	Type S	0.6 °C				
		200 °C	to	500 °C	Type B	1.5 °C				
		500 °C	to	1,820 °C	Type B	0.6 °C				
		0 °C	to	1,768 °C	Type R	0.6 °C				
		-210 °C	to	0 °C	Type J	0.2 °C				
		0 °C	to	1,200 °C	Type J	0.2 °C				
		-270 °C	to	0 °C	Type N	0.2 °C				
		0 °C	to	1,300 °C	Type N	0.2 °C				
		-200 °C	to	-50 °C	RTD	0.05 °C				Simulation of resistance temperature sensors using DC electrical resistors
-50 °C	to	850 °C	RTD	0.05 °C						
6*	Non-contact thermometers	-30 °C	to	23 °C		2.2 °C	Direct measurement on a black body, comparison with a standard contactless thermometer.	KP 6/T	1, 4	

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		min. unit	max. unit					
		23 °C	to 150 °C		2.1 °C			
		150 °C	to 250 °C		2.2 °C			
		250 °C	to 350 °C		2.5 °C			
		350 °C	to 500 °C		3.0 °C			
7*	Direct-indicating thermometers integrated in conditioning and thermal chambers and baths	-80 °C	to 250 °C		1.0 °C	Comparison with a standard digital thermometer in a chamber (characterisation)	KP 22/T	1, 4
		250 °C	to 600 °C		1.1 °C			
		600 °C	to 700 °C		1.7 °C			
		700 °C	to 850 °C		1.9 °C			
		850 °C	to 1,200 °C		2.9 °C			
8*	Direct-indicating thermometers and temperature measuring chains integrated in conditioning and thermal chambers and baths	-20 °C	to 250 °C		1.0 °C	Comparison with a standard digital thermometer in a chamber (characterisation according to the standard AMS 2750)	KP 21/T	1
		250 °C	to 600 °C		1.1 °C			
		600 °C	to 700 °C		1.7 °C			
		700 °C	to 850 °C		1.9 °C			
		850 °C	to 1,000 °C		2.9 °C			
9*	Temperature controllers and indicators of conditioning and thermal chambers and baths	-20 °C	to 1,370 °C	Type K	0.3 °C	Simulation of thermoelectric temperature sensors using DC voltage (characterisation according to the standard AMS 2750)	KP 21/T	1
		-20 °C	to 1,300 °C	Type N	0.2 °C			
		0 °C	to 1,780 °C	Type S	0.6 °C			
		200 °C	to 500 °C	Type B	1.5 °C			
		500 °C	to 1,800 °C	Type B	0.6 °C			

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CMC for the field of measured quantity: Electrical quantities

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		min. unit	max. unit					
1*	Direct-current voltage/ direct-current voltage meters (digital and analogue multimeters, voltmeters, oscilloscopes, testing and inspection instruments and their parts)					Voltage generation by a standard calibrator	KP 1/E, KP 2/E, KP 3/E, KP 18/E	1
		0 mV	to 1 mV		1.3 μV			
		1 mV	to 20 mV		1.7 μV			
		20 mV	to 100 mV		2.1 μV			
		100 mV	to 200 mV		3.4 μV			
		200 mV	to 500 mV		0.5 μV			
		500 mV	to 900 mV		0.0011 %			
		0.9 V	to 1.5 V		0.0009 %			
		1.5 V	to 2 V		0.0008 %			
		2 V	to 4 V		0.0007 %			
		4 V	to 10 V		0.00055 %			
		10 V	to 20 V		0.00051 %			
		20 V	to 40 V		0.0011 %			
		40 V	to 100 V		0.00094 %			
		100 V	to 200 V		0.00082 %			
		200 V	to 400 V		0.0014 %			
		400 V	to 1,100 V		0.0013 %			
		1,100 V	to 6,000 V		0.6 %			

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		min.	unit	max.	unit					
2*	Direct-current voltage / direct-current voltage sources and calibrators, multifunction calibrators, testing and inspection instruments and their parts, high voltage testers.	0 mV	to	120 mV		0.00096 % + 0.71 μV	Direct measurement by a standard multimeter	KP 8/E	1	
		120 mV	to	1,200 mV		0.00072 % + 4.6 μV				
		1.2 V	to	12 V		0.00060 % + 4.6 μV				
		12 V	to	120 V		0.00088 % + 29 μV				
		120 V	to	1,100 V		0.00098 % + 82 μV				
		1,100 V	to	11,000 V		0.6 %	Measurement by a standard multimeter with a HV probe			
3*	Direct current / direct-current meters (digital and analogue multimeters, ammeters, testing and inspection instruments and their parts, current probes).	0 μA	to	2 μA		3.8 nA	Current generation by a standard calibrator	KP 1/E, KP 2/E, KP 3/E	1	
		2 μA	to	10 μA		4.5 nA				
		10 μA	to	20 μA		5.5 nA				
		20 μA	to	40 μA		0.027 %				
		40 μA	to	100 μA		0.019 %				
		100 μA	to	200 μA		0.015 %				
		200 μA	to	200 mA		0.011 %				
		200 mA	to	400 mA		0.027 %				
		400 mA	to	1 A		0.019 %				
		1 A	to	2 A		0.015 %				
		2 A	to	3 A		0.045 %				

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		min.	unit	max.	unit					
		3 A	to	4 A		0.038 %	Comparison with current measured by a standard shunt with multimeter			
		4 A	to	30 A		0.035 %				
		30 A	to	50 A		0.15 %				
50 A	to	100 A		0.28 %						
	Direct current/ clamp ammeters and multimeters, clamp current probes.	1 A	to	5 A		0.2 %	Current generation by a standard calibrator			
		5 A	to	750 A		0.13 %	Simulation of reference current using calibrator and current coil			
4*	Direct current / current sources, testing and inspection instruments and their parts.	0 µA	to	12 µA		0.0045 % + 6.0 nA	Direct measurement by a standard multimeter	KP 1/E, KP 2/E, KP 3/E	1	
		12 µA	to	120 µA		0.0050 % + 6.7 nA				
		120 µA	to	1.2 mA		0.0050 % + 4.5 nA				
		1.2 mA	to	12 mA		0.0044 % + 0.045 µA				
		12 mA	to	120 mA		0.0065 % + 0.45 µA				
		120 mA	to	1.05 A		0.016 % + 9.8 µA				
		1.05 A	to	12 A		0.0073 % + 25 µA	Indirect measurement using a standard shunt and multimeter	KP 8/E		
		12 A	to	20 A		0.0058 % + 4 µA				
		20 A	to	50 A		0.042 % + 61 µA				
		50 A	to	100 A		0.047 %				

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		min.	unit	max.	unit					
	Direct current / current sources	1 A	to	40 A		3.8 %	Direct measurement by a standard clamp multimeter	KP 8/E	1	
		40 A	to	100 A		5 %				
		100 A	to	250 A		4 %				
		250 A	to	400 A		2.5 %				
		400 A	to	1,000 A		2 %				
5*	Alternating-current voltage/ analogue multimeters, voltmeters, oscilloscopes, testing and inspection instruments and their parts	0.1 mV	to	1 mV	10 Hz to 100 kHz	8 μV	Voltage generation by a standard calibrator	KP 1/E, KP 2/E, KP 3/E, KP 18/E	1	
					100 kHz to 300 kHz	18 μV				
					300 kHz to 1 MHz	34 μV				
		1 mV	to	10 mV	10 Hz to 100 kHz	15 μV				
					100 kHz to 300 kHz	30 μV				
					300 kHz to 1 MHz	70 μV				
		10 mV	to	20 mV	10 Hz to 30 kHz	13 μV				
				30 kHz to 100 kHz	18 μV					
				100 kHz to 300 kHz	45 μV					
				300 kHz to 1 MHz	110 μV					
	20 mV	to	40 mV	10 Hz to 30 kHz	17 μV					
				30 kHz to 100 kHz	29 μV					
				100 kHz to 300 kHz	75 μV					
				300 kHz to 1 MHz	270 μV					
		40 mV	to	200 mV	10 Hz to 30 kHz	0.045 %				
				30 kHz to 100 kHz	0.075 %					
				100 kHz to 300 kHz	0.2 %					
				300 kHz to 1 MHz	0.7 %					

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		min. unit	max. unit								
		200 mV	to	400 mV	10 Hz to 300 Hz	0.04 %					
					300 Hz to 30 kHz	0.03 %					
					30 kHz to 100 kHz	0.04 %					
					100 kHz to 300 kHz	0.1 %					
					300 kHz to 1 MHz	0.55 %					
					0.4 V	to			1 V	10 Hz to 300 Hz	0.022 %
					300 Hz to 30 kHz	0.016 %					
30 kHz to 100 kHz	0.025 %										
100 kHz to 300 kHz	0.07 %										
300 kHz to 1 MHz	0.47 %										
1 V	to	2 V	10 Hz to 300 Hz	0.015 %							
300 Hz to 30 kHz	0.01 %										
30 kHz to 100 kHz	0.02 %										
100 kHz to 300 kHz	0.05 %										
300 kHz to 1 MHz	0.43 %										
2 V	to	4 V	10 Hz to 300 Hz	0.03 %							
300 Hz to 30 kHz	0.02 %										
30 kHz to 100 kHz	0.03 %										
100 kHz to 300 kHz	0.11 %										
300 kHz to 1 MHz	0.55 %										
4 V	to	10 V	10 Hz to 300 Hz	0.02 %							
300 Hz to 30 kHz	0.013 %										
30 kHz to 100 kHz	0.02 %										
100 kHz to 300 kHz	0.086 %										
300 kHz to 1 MHz	0.47 %										
10 V	to	20 V	10 Hz to 300 Hz	0.015 %							
300 Hz to 30 kHz	0.01 %										
30 kHz to 100 kHz	0.015 %										

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		min.	unit	max.	unit						
						100 kHz to 300 kHz	0.075 %				
						300 kHz to 1 MHz	0.42 %				
		20 V	to	40 V		10 Hz to 300 Hz	0.03 %				
						300 Hz to 30 kHz	0.019 %				
						30 kHz to 100 kHz	0.035 %				
						100 kHz to 300 kHz	0.11 %				
						300 kHz to 1 MHz	0.15 %				
				40 V	to	100 V					
				10 Hz to 300 Hz	0.022 %						
				300 Hz to 10 kHz	0.01 %						
				10 kHz to 30 kHz	0.014 %						
				30 kHz to 100 kHz	0.03 %						
				100 kHz to 200 kHz	0.08 %						
				100 V	to				200 V		
				10 Hz to 300 Hz	0.02 %						
				300 Hz to 30 kHz	0.01 %						
				30 kHz to 100 kHz	0.023 %						
				100 kHz to 200 kHz	0.065 %						
				200 V	to	750 V					
				45 Hz to 300 Hz	0.03 %						
				300 Hz to 10 kHz	0.025 %						
				10 kHz to 30 kHz	0.03 %						
				30 kHz to 100 kHz	0.15 %						
				750 V	to				1,100 V		
				45 Hz to 300 Hz	0.027 %						
				300 Hz to 10 kHz	0.022 %						
				10 kHz to 30 kHz	0.025 %						
				1,100 V	to	5,000 V					
				40 Hz to 100 Hz	2 %	Comparison with a standard multimeter with a HV probe					

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		min.	unit	max.	unit					
6*	Alternating-current voltage / voltage sources and calibrators, multifunction calibrators, testing and inspection instruments and their parts, high voltage testers	0.1 mV	to	12 mV		1 Hz to 40 Hz 40 Hz to 1,000 Hz 1 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 300 kHz	0.062 % + 3,5 μV 0.048 % + 1,4 μV 0.048 % + 1,4 μV 0.13 % + 1,4 μV 0.6 % + 1,4 μV 4.7 % + 2,4 μV	Direct measurement by a standard multimeter	KP 8/E	1
		12 mV	to	120 mV		1 Hz to 40 Hz 40 Hz to 1,000 Hz 1 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz	0.036 % + 2,8 μV 0.017 % + 1.7 μV 0.017 % + 1.7 μV 0.038 % + 1.7 μV 0.13 % + 1.9 μV 0.37 % + 12 μV 1.2 % + 11 μV			
		120 mV	to	1.2 V		1 Hz to 40 Hz 40 Hz to 1,000 Hz 1 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz	0.028 % + 32 μV 0.01 % + 22 μV 0.01 % + 22 μV 0.035 % + 22 μV 0.093 % + 23 μV 0.35 % + 120 μV 1.2 % + 80 μV			
		1.2 V	to	12 V		1 Hz to 40 Hz 40 Hz to 1,000 Hz 1 kHz to 20 kHz 20 kHz to 50 kHz	0.028 % + 320 μV 0.0093 % + 220 μV 0.0093 % + 220 μV 0.035 % + 220 μV			

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		min.	unit	max.	unit							
						50 kHz to 100 kHz	0.093 % + 230 μV					
						100 kHz to 300 kHz	0.35 % + 1.2 mV					
						300 kHz to 1 MHz	1.2 % + 0.77 mV					
		12 V	to	120 V		1 Hz to 40 Hz	0.036 % + 3.8 mV					
						40 Hz to 1,000 Hz	0.024 % + 2.2 mV					
						1 kHz to 20 kHz	0.024 % + 2.2 mV					
						20 kHz to 50 kHz	0.041 % + 2.2 mV					
						50 kHz to 100 kHz	0.14 % + 2.3 mV					
						100 kHz to 300 kHz	0.47 % + 12 mV					
						300 kHz to 1 MHz	1.2 % + 16 mV					
		120 V	to	700 V		1 Hz to 40 Hz	0.047 % + 46 mV					
						40 Hz to 1,000 Hz	0.047 % + 23 mV					
						1 kHz to 20 kHz	0.047 % + 23 mV					
						20 kHz to 50 kHz	0.014 % + 23 mV					
						50 kHz to 100 kHz	0.24 % + 23 mV					
		1,100 V	to	15,000 V		40 Hz to 100 Hz	2 %	Measurement by a standard multimeter with a HV probe	KP 8/E	1		
7*	Alternating-current voltage, peak and peak-to-peak value of periodic non-harmonic signals / sources of non-harmonic and pulse signals, pulse testers					Bandwidth:	Impedance:		Measurement by a standard oscilloscope ⁵	KP 8/E	1	
		10 mV	to	5 V		1 Hz to 300 kHz,	Z = 50 Ω					1.8 %
						300 kHz to 2 GHz						4.0 %
		5 V	to	38 V		1 Hz to 300 kHz,	Z = 50 Ω	2.9 %				
				300 kHz to 1 GHz		4.5 %						

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		min.	unit	max.	unit					
		10 mV	to	40 V		1 Hz to 300 kHz, Z = 1 MΩ 300 kHz to 400 MHz	1.8 % 4.0 %			
		40 V	to	400 V		1 Hz to 400 MHz Z = 10 MΩ	4.5 %			
		40 V	to	1,000 V		1 Hz to 400 MHz Z = 66.7 MΩ	4.5 %			
8*	Pulse amplitude, peak and peak-to-peak value of voltage / sources of non-harmonic and pulse signals, pulse testers	10 mV	to	40 V		Z = 1 MΩ rise time >1.3 ns	4.0 %	Measurement by a standard oscilloscope with a voltage probe	KP 8/E	1
		10 V	to	5,000 V		Z = 50 kΩ >140 ns	5.6 %			
		10 V	to	5,000 V		Z = 1 kΩ >4.2 ns	5.0 %			
		1 V	to	5,000 V		Z = 50 Ω >3.5 ns	4.9 %			
9*	Alternating current, peak and peak-to-peak value / sources of non-harmonic and pulse signals, pulse testers	100 mA	to	1.5 A		1 Hz to 20 kHz	2.7 %	Measurement by a standard oscilloscope with a shunt or clamp probe	KP 8/E	1
		1.5 A	to	15 A		1 Hz to 20 kHz	2.4 %			
		1 A	to	2,500 A		rise time >140 ns	4.9 %	Measurement by a standard oscilloscope with a current shunt		
10*	Alternating current / digital, analogue multimeters and ammeters, testing and inspection instruments and their parts, current probes	1 μA	to	10 μA		10 Hz to 1 kHz 1 kHz to 5 kHz	0.015 μA 0.02 μA	Current generation by a standard calibrator	KP 1/E, KP 2/E, KP 3/E	1
		10 μA	to	50 μA		10 Hz to 1 kHz 1 kHz to 5 kHz	0.025 μA 0.035 μA			

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		min. unit	max. unit					
		50 μA	to 100 μA	10 Hz to 1 kHz 1 kHz to 5 kHz	0.035 μA 0.06 μA			
		100 μA	to 200 μA	10 Hz to 1 kHz 1 kHz to 5 kHz	0.035 % 0.06 %			
		200 μA	to 400 μA	10 Hz to 1 kHz 1 kHz to 5 kHz	0.071 % 0.083 %			
		400 μA	to 800 μA	10 Hz to 1 kHz 1 kHz to 5 kHz	0.045 % 0.06 %			
		800 μA	to 2 mA	10 Hz to 1 kHz 1 kHz to 5 kHz	0.03 % 0.045 %			
		2 mA	to 3 mA	10 Hz to 1 kHz 1 kHz to 5 kHz	0.075 % 0.085 %			
		3 mA	to 4 mA	10 Hz to 1 kHz 1 kHz to 5 kHz	0.055 % 0.065 %			
		4 mA	to 8 mA	10 Hz to 1 kHz 1 kHz to 5 kHz	0.045 % 0.06 %			
		8 mA	to 20 mA	10 Hz to 1 kHz 1 kHz to 5 kHz	0.033 % 0.045 %			
		20 mA	to 30 mA	10 Hz to 1 kHz 1 kHz to 5 kHz	0.075 % 0.085 %			
		30 mA	to 40 mA	10 Hz to 1 kHz 1 kHz to 5 kHz	0.055 % 0.065 %			
		40 mA	to 80 mA	10 Hz to 1 kHz 1 kHz to 5 kHz	0.045 % 0.055 %			
		80 mA	to 200 mA	10 Hz to 1 kHz 1 kHz to 5 kHz	0.03 % 0.045 %			
		200 mA	to 300 mA	10 Hz to 1 kHz 1 kHz to 5 kHz	0.15 % 2 %			

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		min. unit	max. unit						
		300 mA	to 800 mA	10 Hz to 1 kHz 1 kHz to 5 kHz	0.1 % 0.15 %				
		800 mA	to 2,000 mA	10 Hz to 1 kHz 1 kHz to 5 kHz	0.06 % 0.11 %				
		2 A	to 4 A	10 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz 10 kHz to 20 kHz	0.1 % 0.2 % 0.5 % 2 %				
		4 A	to 6 A	10 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz 10 kHz to 20 kHz	0.07 % 0.14 % 0.38 % 1.5 %				
		6 A	to 11 A	10 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz 10 kHz to 20 kHz	0.07 % 0.13 % 0.35 % 1.3 %				
		11 A	to 20 A	40 Hz to 400 Hz	0.35 %				
		20 A	to 30 A	40 Hz to 300 Hz	0.1 %				
		30 A	to 50 A	40 Hz to 250 Hz	1.2 %				
		50 A	to 100 A	40 Hz to 160 Hz	2 %				
		Clamp ammeters and clamp current probes		1 A	to 5 A				40 Hz to 300 Hz
5 A	to 20 A			40 Hz to 300 Hz	0.16 %	Simulation of reference current using calibrator and current coil			

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		min.	unit	max.	unit					
		20 A	to	30 A		40 Hz to 300 Hz	0.33 %			
		30 A	to	100 A		40 Hz to 300 Hz	0.25 %			
		100 A	to	250 A		40 Hz to 300 Hz	0.35 %			
		250 A	to	750 A		40 Hz to 300 Hz	0.2 %			
11*	Alternating current / current sources	1 μA	to	120 μA		10 Hz to 20 Hz 20 Hz to 45 Hz 45 Hz to 100 Hz 100 Hz to 1,000 Hz 1 kHz to 5 kHz 5 kHz to 20 kHz	0.46 % + 35 nA 0.17 % + 35 nA 0.07 % + 35 nA 0.071 % + 35 nA 0.061 % + 35 nA 0.061 % + 35 nA	Direct measurement by a standard multimeter	KP 8/E	1
		120 μA	to	1.2 mA		10 Hz to 20 Hz 20 Hz to 45 Hz 45 Hz to 100 Hz 100 Hz to 1,000 Hz 1 kHz to 5 kHz 5 kHz to 20 kHz	0.46 % + 230 nA 0.17 % + 230 nA 0.07 % + 230 nA 0.037 % + 230 nA 0.044 % + 230 nA 0.044 % + 230 nA			
		1.2 mA	to	12 mA		10 Hz to 20 Hz 20 Hz to 45 Hz 45 Hz to 100 Hz 100 Hz to 1,000 Hz 1 kHz to 5 kHz 5 kHz to 20 kHz	0.46 % + 2.3 μA 0.17 % + 2.3 μA 0.07 % + 2.3 μA 0.037 % + 2.3 μA 0.041 % + 2.3 μA 0.041 % + 2.3 μA			
		12 mA	to	120 mA		10 Hz to 20 Hz 20 Hz to 45 Hz 45 Hz to 100 Hz 100 Hz to 1,000 Hz 1 kHz to 5 kHz	0.46 % + 23 μA 0.17 % + 23 μA 0.07 % + 23 μA 0.037 % + 23 μA 0.04 % + 23 μA			

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		min.	unit	max.	unit								
						5 kHz to 20 kHz	0.04 % + 23 μA						
		120 mA	to	1 A		10 Hz to 20 Hz 20 Hz to 45 Hz 45 Hz to 100 Hz 100 Hz to 1,000 Hz 1 kHz to 5 kHz 5 kHz to 20 kHz	0.46 % + 230 μA 0.17 % + 230 μA 0.07 % + 230 μA 0.12 % + 230 μA 0.13 % + 230 μA 0.13 % + 230 μA						
		1.2 A	to	12 A		40 Hz to 1 kHz 1 kHz to 20 kHz	0.14 % + 330 μA 0.15 % + 41 μA				Indirect measurement by a multimeter with standard shunt	KP 8/E	1
		12 A	to	20 A		40 Hz to 1 kHz 1 kHz to 20 kHz	0.14 % + 420 μA 0.15 % + 490 μA						
		20 A 50 A	to	50 A 100 A		40 Hz to 250 Hz 40 Hz to 250 Hz	1 % + 44 μA 2 % + 48 μA						
		1 A 40 A 400 A	to	40 A 400 A 1,500 A		40 Hz to 300 Hz 40 Hz to 300 Hz 40 Hz to 150 Hz	1.2 % + 0.5 A 0.6 % + 5 A 0.6 % + 23 A				Measurement by a standard clamp ammeter	KP 8/E	1
		12*	DC resistance / ohmmeters, testing and inspection instruments and their parts.										Direct measurement of fixed resistance standards

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		min.	max. unit					
			100 Ω 1 kΩ 10 kΩ 100 kΩ 1 MΩ 10 MΩ 100 MΩ 1 GΩ 10 GΩ 100 GΩ 1 TΩ		1.2 mΩ 14 mΩ 0.14 Ω 1.7 Ω 30 Ω 60 Ω 9 kΩ 0.4 MΩ 0.4 GΩ 5 GΩ 100 GΩ			
13*	DC resistance/ standard resistors, shunts		0.1 mΩ 1 mΩ 0.01 Ω 0.1 Ω 1 Ω 10 Ω 100 Ω 1 kΩ 10 kΩ 100 kΩ		10 nΩ 70 nΩ 0.4 μΩ 3 μΩ 20 μΩ 250 μΩ 1.5 mΩ 40 mΩ 0.4 Ω 7 Ω	Comparison by ratio method – measurement of voltage drop at constant measuring current	KP 6/E	1
			1 MΩ		40 Ω	Comparison by ratio method – measurement of standard and calibrated resistance		

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		min. unit	max. unit					
			10 MΩ 100 MΩ 1 GΩ		700 Ω 12 kΩ 0.6 MΩ			
14*	DC resistance / resistors, calibrators, simulators, testing and inspection instruments and their parts.							
		0 Ω	to 12 Ω		0.002 % + 78 μΩ	Direct measurement by a standard multimeter	KP 8/E	1
		12 Ω	to 120 Ω		0.0016 % + 570 μΩ			
		0.12 kΩ	to 1.2 kΩ		0.0014 % + 540 μΩ			
		1.2 kΩ	to 12 kΩ		0.0014 % + 5.4 mΩ			
		12 kΩ	to 120 kΩ		0.0016 % + 45 mΩ			
		0.12 MΩ	to 1.2 MΩ		0.0026 % + 1.9 Ω			
		1.2 MΩ	to 12 MΩ		0.0068 % + 110 Ω			
		12 MΩ	to 120 MΩ		0.058 % + 1.3 kΩ			
		0.12 GΩ	to 1.2 GΩ		0.57 % + 0.35 MΩ			
		0.1 MΩ	to 1 MΩ		0.004 %	Indirect comparison – method of resistance divider excited by constant measuring voltage	KP 6/E	
		1 MΩ	to 10 MΩ		0.01 %			
		10 MΩ	to 200 MΩ		0.02 %			
		200 MΩ	to 500 MΩ		0.03 %			
		500 MΩ	to 1,000 MΩ		0.1 %			
		1,000 MΩ	to 2,000 MΩ		0.2 %			
		2,000 MΩ	to 5,000 MΩ		0.3 %			
		5,000 MΩ	to 10,000 MΩ		0.5 %			
		10,000 MΩ	to 50,000 MΩ		1 %			
		50,000 MΩ	to 100,000 MΩ		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	Location
		min. unit	max. unit					
15	HF level (voltage) / HF voltmeters, measuring receivers, synthesizers, oscilloscopes, spectral and circuit analyzers, radiocommunication and radio navigation testers, simulators and imitators (ATC, DME, TACAN, TCAS, VOR-ILS)	20 dB μ V to (10 μ V to	47 dB μ V 224 μ V)	0.1 MHz to 1.4 GHz 1.4 GHz to 2.08 GHz	4 % 3.5 %	Indirect comparison with standard HF wattmeter	KP 13/E, KP 18/E	1
		47 dB μ V to (224 μ V to	67 dB μ V 2.24 mV)	10 MHz to 30 MHz 30 MHz to 2.08 GHz	4 % 3.5 %			
		67 dB μ V (2.24 μ V to	87 dB μ V 22.4 mV)	10 MHz to 30 MHz 30 MHz to 2.08 GHz	4 % 3.5 %			
		87 dB μ V to (22.4 mV to	117 dB μ V 707 mV)	100 kHz to 300 kHz 300 kHz to 600 kHz 600 kHz to 1 MHz 1 MHz to 1.3 GHz 1.3 GHz to 2.08 GHz	17 % 14 % 8.5 % 2.6 % 3.2 %			
		117 dB μ V to (707 mV to	137 dB μ V 7.07 V)	100 kHz to 300 kHz 300 kHz to 600 kHz 600 kHz to 1 MHz 1 MHz to 1.3 GHz 1.3 GHz to 2.08 GHz	17 % 14 % 8.5 % 3.5 % 4 %			

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		min. unit	max. unit					
		137 dB μ V to (7.07 V	147 dB μ V to 22.4 V)	100 kHz to 2.08 GHz	2.9 %			
		147 dB μ V to (22.4 V	152 dB μ V to 39.0 V)	100 kHz to 2.08 GHz	3.7 %			
16	HF level (voltage) / HF generators, circuit analyzers, radiocommunication and radio navigation testers, simulators and imitators (ATC, DME, TACAN, TCAS, VOR-ILS)	20 dB μ V to (10 μ V	47 dB μ V to 224 μ V)	0.1 MHz to 1.4 GHz 1.4 GHz to 2.08 GHz	4 % 3.5 %	Indirect measurement of HF voltage - by measuring HF power at impedance 50 Ω ⁶	KP 11/E, KP 12/E,	1
		47 dB μ V to (224 μ V	67 dB μ V to 2.24 mV)	10 MHz to 30 MHz 30 MHz to 2.08 GHz	4 % 3.5 %			
		67 dB μ V to (2.24 μ V	87 dB μ V to 22.4 mV)	10 MHz to 30 MHz 30 MHz to 2.08 GHz	4 % 3.5 %			
		87 dB μ V to (22.4 mV	117 dB μ V to 707 mV)	100 kHz to 300 kHz 300 kHz to 600 kHz 600 kHz to 1 MHz 1 MHz to 1.3 GHz 1.3 GHz to 2.08 GHz	17 % 14 % 8.5 % 2.6 % 3.2 %			
		117 dB μ V to (707 mV	137 dB μ V to 7.07 V)	100 kHz to 300 kHz	17 %			

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		min. unit	max. unit					
				300 kHz to 600 kHz	14 %			
				600 kHz to 1 MHz	8.5 %			
				1 MHz to 1.3 GHz	3.5 %			
				1.3 GHz to 2.08 GHz	4 %			
		137 dB μ V (7.07 V	147 dB μ V to 22.4 V)					
				100 kHz to 2.08 GHz	2.9 %			
		147 dB μ V (22.4 V	152 dB μ V to 39.0 V)					
				100 kHz to 2.08 GHz	3.7 %			
17*	HF level (power) / oscillators, circuit analyzers, testers, radiocommunication and radio navigation testers, simulators and imitators (ATC, DME, TACAN, TCAS, VOR-ILS)	1 pW (-90 dBm	to 2.5 pW to -86 dBm)	10 MHz to 20 MHz	8.7 %	Direct measurement by a standard measuring receiver	KP 15/E	1
				20 MHz to 50 MHz	6.5 %			
				50 MHz to 7 GHz	6.2 %			
		2.5 pWd (-86 dBm	to 800 pW to -61 dBm)	10 MHz to 20 MHz	7.8 %	Measurement by a standard HF wattmeter	KP 15/E	
				20 MHz to 50 MHz	5.2 %			
				50 MHz to 7 GHz	4.8 %			
		800 pW (-61 dBm	to 2 nW to -57 dBm)	10 MHz to 20 MHz	8.5 %			
				20 MHz to 50 MHz	6.2 %			
				50 MHz to 7 GHz	5.5 %			

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		min.	unit						max.
				7 GHz to 15 GHz	6.0 %				
				15 GHz to 18 GHz	6.6 %				
		2 nW	to	10 μW	10 MHz to 20 MHz				7.5 %
		(-57 dBm	to	-20 dBm)	20 MHz to 50 MHz				4.8 %
				50 MHz to 7 GHz	3.9 %				
				7 GHz to 15 GHz	4.5 %				
				15 GHz to 18 GHz	5.4 %				
		10 μW	to	100 μW	100 kHz to 300 kHz				7.3 %
		(-20 dBm	to	-10 dBm)	300 kHz to 1 MHz				4.0 %
				1 MHz to 50 MHz	3.6 %				
				50 MHz to 1 GHz	3.0 %				
				1 GHz to 2 GHz	3.7 %				
		2 GHz to 15 GHz	4.8 %						
		15 GHz to 18 GHz	5.1 %						
		18 GHz to 20 GHz	5.5 %						
		20 GHz to 26.5 GHz	4.6 %						
		26.5 GHz to 40.8 GHz	6.0 %						
100 μW	to	10 mW	100 kHz to 300 kHz	7.7 %					
(-10 dBm	to	+10 dBm)	300 kHz to 1 MHz	4.1 %					
		1 MHz to 50 MHz	3.4 %						
		50 MHz to 1 GHz	2.6 %						
		1 GHz to 2 GHz	3.7 %						
		2 GHz to 15 GHz	4.6 %						
		15 GHz to 18 GHz	4.9 %						
		18 GHz to 20 GHz	5.3 %						

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		min. unit	max. unit					
				20 GHz to 26.5 GHz 26.5 GHz to 40.8 GHz	4.3 % 5.6 %			
		10 mW (+10 dBm	100 mW to +20 dBm)	100 kHz to 300 kHz 300 kHz to 1 MHz 1 MHz to 10 MHz 10 MHz to 50 MHz 50 MHz to 1 GHz 1 GHz to 15 GHz 15 GHz to 18 GHz 18 GHz to 20 GHz 20 GHz to 26.5 GHz 26.5 GHz to 40.8 GHz	6.2 % 6.2 % 5.4 % 4.6 % 4.4 % 5.8 % 6.0 % 6.4 % 5.5 % 6.5 %			
		100 mW (+20 dBm	to 3 W to +33 dBm)	100 kHz to 300 kHz 300 kHz to 1 MHz 1 MHz to 10 MHz 10 MHz to 500 MHz 500 MHz to 1 GHz	6.0 % 6.0 % 5.2 % 4.8 % 5.9 %			
		3 mW (+33 dBm	to 10 W to +40 dBm)	1 GHz to 4.2 GHz 100 kHz to 300 kHz 300 kHz to 1 MHz 1 MHz to 10 MHz 10 MHz to 500 MHz 500 MHz to 1 GHz	6.7 % 7.3 % 7.3 % 6.6 % 6.3 % 7.1 %			
		10 W	to 25 W					

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		min. unit	max. unit					
		(+40 dBm to +44 dBm)		1 GHz to 4.2 GHz	7.6 %			
				100 kHz to 300 kHz	7.4 %			
				300 kHz to 1 MHz	7.4 %			
				1 MHz to 10 MHz	6.7 %			
				10 MHz to 500 MHz	6.2 %			
				500 MHz to 1 GHz	6.9 %			
				1 GHz to 2 GHz	8.0 %			
		10 W to 25 W						
		(+40 dBm to +44 dBm)		2 GHz to 4.2 GHz	9.5 %			
				1 GHz to 2 GHz	8.0 %			
18*	HF level (power) / HF wattmeters, selective HF meters, spectral and circuit analyzers, testers, radiocommunication and radio navigation testers, simulators and imitators (ATC, DME, TACAN, TCAS, VOR-ILS)	800 pW to 2 nW						
		(-61 dBm to -57 dBm)		10 MHz to 20 MHz	8.5 %	Comparison with a standard HF wattmeter	KP 14/E	1
				20 MHz to 50 MHz	6.2 %			
				50 MHz to 7 GHz	5.5 %			
				7 GHz to 15 GHz	6.0 %			
				15 GHz to 18 GHz	6.6 %			
		2 nW to 10 μW						
		(-57 dBm to -20 dBm)		10 MHz to 20 MHz	7.5 %			
				20 MHz to 50 MHz	4.8 %			
				50 MHz to 7 GHz	3.9 %			
				7 GHz to 15 GHz	4.5 %			

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		min. unit	max. unit					
				15 GHz to 18 GHz	5.4 %			
		10 μW to (-20 dBm	100 μW to -10 dBm	100 kHz to 300 kHz 300 kHz to 1 MHz 1 MHz to 50 MHz 50 MHz to 1 GHz 1 GHz to 2 GHz 2 GHz to 15 GHz 15 GHz to 18 GHz 18 GHz to 20 GHz 20 GHz to 26.5 GHz 26.5 GHz to 40.8 GHz	7.3 % 4.0 % 3.6 % 3.0 % 3.7 % 4.8 % 5.1 % 5.5 % 4.6 % 6.0 %			
		100 μW to (-10 dBm	10 mW to +10 dBm	100 kHz to 300 kHz 300 kHz to 1 MHz 1 MHz to 50 MHz 50 MHz to 1 GHz 1 GHz to 2 GHz 2 GHz to 15 GHz 15 GHz to 18 GHz 18 GHz to 20 GHz 20 GHz to 26.5 GHz 26.5 GHz to 40.8 GHz	7.7 % 4.1 % 3.4 % 2.6 % 3.7 % 4.6 % 4.9 % 5.3 % 4.3 % 5.6 %			
		10 mW to (+10 dBm	100 mW to +20 dBm	100 kHz to 300 kHz 300 kHz to 1 MHz 1 MHz to 10 MHz 10 MHz to 50 MHz	6.2 % 6.2 % 5.4 % 4.6 %			

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		min.	unit	max.	unit					
						50 MHz to 1 GHz	4.4 %			
						1 GHz to 15 GHz	5.8 %			
						15 GHz to 18 GHz	6.0 %			
						18 GHz to 20 GHz	6.4 %			
						20 GHz to 26.5 GHz	5.5 %			
						26.5 GHz to 40.8 GHz	6.5 %			
		100 mW to 2 W (+20 dBm to +33 dBm)				100 kHz to 300 kHz	6.0 %			
						300 kHz to 1 MHz	6.0 %			
						1 MHz to 10 MHz	5.2 %			
						10 MHz to 500 MHz	4.8 %			
						500 MHz to 1 GHz	5.9 %			
						1 GHz to 4.2 GHz	6.7 %			
		2 mW to 10 W (+33 dBm to +40 dBm)				100 kHz to 300 kHz	7.3 %			
				300 kHz to 1 MHz	7.3 %					
				1 MHz to 10 MHz	6.6 %					
				10 MHz to 500 MHz	6.3 %					
				500 MHz to 1 GHz	7.1 %					
				1 GHz to 4.2 GHz	7.6 %					
10 W to 25 W (+40 dBm to +44 dBm)				100 kHz to 300 kHz	7.4 %					
				300 kHz to 1 MHz	7.4 %					
				1 MHz to 10 MHz	6.7 %					
				10 MHz to 500 MHz	6.2 %					
				500 MHz to 1 GHz	6.9 %					
				1 GHz to 2 GHz	8.0 %					
				2 GHz to 4.2 GHz	9.5 %					

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		min.	unit	max.	unit					
19*	HF attenuation / attenuators, attenuation pads, selective HF meters, spectral and circuit analyzers, testers, radiocommunication and radio navigation testers, simulators, imitators (ATC, DME, TACAN, TCAS, VOR-ILS)	0 dBm	to	10 dBm	100 kHz to 400 kHz	0.048 dB	Indirect measurement power method	KP 16/E	1	
					400 kHz to 1.3 GHz	0.048 dB				
					1.3 GHz to 3 GHz	0.048 dB				
					3 GHz to 6 GHz	0.059 dB				
		10 dBm	to	20 dBm	100 kHz to 400 kHz	0.064 dB				
					400 kHz to 1.3 GHz	0.067 dB				
					1.3 GHz to 3 GHz	0.062 dB				
20 dBm	to	30 dBm	3 GHz to 6 GHz	0.076 dB						
			100 kHz to 400 kHz	0.11 dB						
400 kHz to 1.3 GHz	0.11 dB	1.3 GHz to 3 GHz	0.11 dB	0.11 dB						
					3 GHz to 6 GHz	0.11 dB				
30 dBm	to	40 dBm	100 kHz to 400 kHz	0.15 dB						
			400 kHz to 3 GHz	0.15 dB						
3 GHz to 6 GHz	0.17 dB	40 dBm	to	60 dBm						
					100 kHz to 3 GHz	0.18 dB				
3 GHz to 6 GHz	0.19 dB	60 dBm	to	65 dBm						
					100 kHz to 6 GHz	0.25 dB				

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		min.	unit	max.	unit					
20*	Modulation swing of frequency modulation / generators, modulation meters, selective HF meters, spectral analyzers, radiocommunication and radio navigation testers, simulators and imitators (ATC, DME, TACAN, TCAS, VOR-ILS)	0.1 kHz	to	0.2 kHz	30 Hz to 60 kHz	Carrier frequency (0.03 to 120) MHz (120 to 550) MHz (0.55 to 1) GHz	3.4 % 3.4 % 3.2 %	Direct measurement or comparison with a modulation analyzer	KP 21/E	1
				(60 to 100) kHz	(4.25 to 120) MHz (120 to 550) MHz (0.55 to 1) GHz	3.4 % 6.8 % 13 %				
		0.2 kHz	to	0.3 kHz	30 Hz to 60 kHz	(0.03 to 120) MHz (120 to 550) MHz (0.55 to 1) GHz	2.4 % 2.4 % 3.2 %			
				(60 to 100) kHz	(4.25 to 120) MHz (120 to 550) MHz (0.55 to 1) GHz	2.4 % 4 % 6.8 %				
		0.3 kHz	to	0.4 kHz	30 Hz to 60 kHz	(0.03 to 120) MHz (120 to 550) MHz (0.55 to 1) GHz	2 % 2 % 4.9 %			
				(60 to 100) kHz	(4.25 to 120) MHz (120 to 550) MHz (0.55 to 1) GHz	2 % 3.1 % 4.9 %				
		0.4 kHz	to	0.5 kHz	30 Hz to 60 kHz	(0.03 to 120) MHz (120 to 550) MHz	1.9 % 1.9 %			

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		min. unit	max. unit					
				(0.55 to 1) GHz	4 %			
				(60 to 100) kHz	1.9 %			
				(120 to 550) MHz	2.6 %			
		0.5 kHz	to 0.6 kHz	(0.55 to 1) GHz	4 %			
				30 Hz to 60 kHz	1.8 %			
				(0.03 to 120) MHz	1.8 %			
				(120 to 550) MHz	1.8 %			
				(0.55 to 1) GHz	3.4 %			
				(60 to 100) kHz	1.8 %			
				(4.25 to 120) MHz	1.8 %			
				(120 to 550) MHz	2.4 %			
		0.6 kHz	to 0.7 kHz	(0.55 to 1) GHz	3.4 %			
				30 Hz to 60 kHz	1.7 %			
				(0.03 to 120) MHz	1.7 %			
				(120 to 550) MHz	1.7 %			
				(0.55 to 1) GHz	3.1 %			
				(60 to 100) kHz	1.7 %			
				(4.25 to 120) MHz	1.7 %			
				(120 to 550) MHz	2.2 %			
		0.7 kHz	to 0.8 kHz	(0.55 to 1) GHz	3.1 %			
				30 Hz to 60 kHz	1.7 %			
				(0.03 to 120) MHz	1.7 %			
				(120 to 550) MHz	1.7 %			
				(0.55 to 1) GHz	2.8 %			
				(60 to 100) kHz	1.7 %			
				(4.25 to 120) MHz	1.7 %			
				(120 to 550) MHz	2.1 %			
				(0.55 to 1) GHz	2.8 %			
		0.8 kHz	to 0.9 kHz	30 Hz to 60 kHz	1.6 %			
				(0.03 to 120) MHz	1.6 %			
				(120 to 550) MHz	1.6 %			
				(0.55 to 1) GHz	2.6 %			
				(60 to 100) kHz	1.6 %			
				(4.25 to 120) MHz	1.6 %			
				(120 to 550) MHz	2 %			
				(0.55 to 1) GHz	2.6 %			

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		min.	unit	max.	unit					
		0.9 kHz	to	1 kHz	30 Hz to 60 kHz	(0.03 to 120) MHz	1.6 %			
						(120 to 550) MHz	1.6 %			
						(0.55 to 1) GHz	2.5 %			
					(60 to 100) kHz	(4.25 to 120) MHz	1.6 %			
						(120 to 550) MHz	1.9 %			
						(0.55 to 1) GHz	2.5 %			
		1 kHz	to	2 kHz	30 Hz to 60 kHz	(0.03 to 120) MHz	1.2 %			
						(120 to 550) MHz	1.2 %			
						(0.55 to 1) GHz	2.2 %			
					(60 to 100) kHz	(4.25 to 120) MHz	1.2 %			
						(120 to 550) MHz	1.6 %			
						(0.55 to 1) GHz	2.2 %			
		2 kHz	to	3 kHz	30 Hz to 60 kHz	(0.03 to 120) MHz	1.1 %			
						(120 to 550) MHz	1.1 %			
						(0.55 to 1) GHz	1.6 %			
					(60 to 100) kHz	(4.25 to 120) MHz	1.1 %			
						(120 to 550) MHz	1.3 %			
						(0.55 to 1) GHz	1.6 %			
		3 kHz	to	4 kHz	30 Hz to 60 kHz	(0.03 to 120) MHz	1.1 %			
						(120 to 550) MHz	1.1 %			
						(0.55 to 1) GHz	1.4 %			
					(60 to 100) kHz	(4.25 to 120) MHz	1.1 %			
						(120 to 550) MHz	1.2 %			
						(0.55 to 1) GHz	1.4 %			
		4 kHz	to	5 kHz	30 Hz to 60 kHz	(0.03 to 120) MHz	1.1 %			
						(120 to 550) MHz	1.1 %			
						(0.55 to 1) GHz	1.3 %			
					(60 to 100) kHz	(4.25 to 120) MHz	1.1 %			

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		min.	unit	max.	unit					
		5 kHz	to	8 kHz	30 Hz to 60 kHz	(120 to 550) MHz (0.55 to 1) GHz	1.2 % 1.3 %			
						(0.03 to 120) MHz	1.1 %			
						(120 to 550) MHz (0.55 to 1) GHz	1.1 % 1.2 %			
					(60 to 100) kHz	(4.25 to 120) MHz	1.1 %			
						(120 to 550) MHz (0.55 to 1) GHz	1.1 % 1.2 %			
		8 kHz	to	10 kHz	30 Hz to 60 kHz	(0.03 to 120) MHz	1 %			
						(120 to 550) MHz (0.55 to 1) GHz	1 % 1.2 %			
					(60 to 100) kHz	(4.25 to 120) MHz	1 %			
						(120 to 550) MHz (0.55 to 1) GHz	1 % 1.2 %			
		10 kHz	to	100 kHz	30 Hz to 60 kHz	(0.03 to 120) MHz	1 %			
						(120 to 550) MHz (0.55 to 1) GHz	1 % 1.1 %			
					(60 to 100) kHz	(4.25 to 120) MHz	1 %			
						(120 to 550) MHz (0.55 to 1) GHz	1 % 1 %			
		100 kHz	to	300 kHz	30 Hz to 60 kHz	(0.03 to 120) MHz	2.2 %			
						(120 to 550) MHz (0.55 to 1) GHz	2.2 % 2.2 %			
					(60 to 100) kHz	(4.25 to 120) MHz	2.2 %			
						(120 to 550) MHz (0.55 to 1) GHz	2.2 % 2.2 %			
		300 kHz	to	500 kHz	30 Hz to 60 kHz	(0.03 to 120) MHz	3.2 %			
						(120 to 550) MHz	3.2 %			

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		min.	unit	max.	unit					
						(0.55 to 1) GHz (60 to 100) kHz (4.25 to 120) MHz (120 to 550) MHz (0.55 to 1) GHz	3.2 % 3.2 % 3.2 % 3.2 %			
21*	Amplitude modulation depth / generators, modulation meters, selective HF meters, spectral analyzers, radio navigation and radiocommunication testers, simulators and imitators (ATC, DME, TACAN, TCAS, VOR-ILS)					Carrier Modulation frequency frequency		Direct measurement or direct comparison with a standard modulation analyzer	KP 21/E	1
				20 %		30 Hz	0.015 %			
				30 %		30 Hz	0.015 %			
				40 %		30 Hz	0.015 %			
		2 %	to	5 %		30 Hz to 60 kHz	3.6 %			
						55 kHz to 10 MHz	3.2 %			
						10 MHz to 1 GHz	3.2 %			
						60 kHz to 100 kHz	4.3 %			
						55 kHz to 10 MHz	4.3 %			
						10 MHz to 1 GHz	4.3 %			
		5 %	to	10 %		30 Hz to 60 kHz	2.7 %			
						55 kHz to 10 MHz	2.2 %			
						10 MHz to 1 GHz	2.2 %			
						60 kHz to 100 kHz	3.6 %			
						55 kHz to 10 MHz	3.6 %			
						10 MHz to 1 GHz	3.6 %			
		10 %	to	80 %		30 Hz to 60 kHz	2.2 %			
						55 kHz to 10 MHz	1.8 %			
						10 MHz to 1 GHz	1.8 %			
						60 kHz to 100 kHz	3.4 %			
						55 kHz to 10 MHz	3.4 %			
						10 MHz to 1 GHz	3.4 %			
		80 %	to	100 %		30 Hz to 60 kHz	2.4 %			
						55 kHz to 10 MHz	2.4 %			

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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					
						10 MHz to 1 GHz 60 kHz to 100 kHz 55 kHz to 10 MHz 10 MHz to 1 GHz	1.7 % 3.3 % 3.3 %			
22*	Capacity / capacitors and capacity standards, capacity calibrators, capacity decades, testing and inspection instruments and their parts.	2 pF	to	5 pF		1 kHz to 2 kHz 2 kHz to 5 kHz 5 kHz to 10 kHz 10 kHz to 20 kHz 20 kHz to 1 MHz	9 % 3.5 % 1.5 % 0.8 % 0.5 %	Direct measurement using a standard RLC bridge	KP 32/E	1
5 pF		to	10 pF		1 kHz to 2 kHz 2 kHz to 5 kHz 5 kHz to 10 kHz 10 kHz to 20 kHz 20 kHz to 100 kHz 100 kHz to 1 MHz	3.5 % 1.6 % 0.6 % 0.4 % 0.3 % 0.4 %				
10 pF		to	100 pF		1 kHz to 2 kHz 2 kHz to 5 kHz 5 kHz to 10 kHz 10 kHz to 20 kHz 20 kHz to 100 kHz 100 kHz to 400 kHz 400 kHz to 1 MHz	1.9 % 0.4 % 0.35 % 0.2 % 0.15 % 0.2 % 0.4 %				
100 pF		to	1,000 pF		0.5 kHz to 2 kHz 2 kHz to 5 kHz 5 kHz to 100 kHz	0.55 % 0.15 % 0.08 %				

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		min. unit	max. unit					
				100 kHz to 400 kHz	0.17 %			
				400 kHz to 1 MHz	0.37 %			
		1 nF	to 10 nF	100 Hz to 500 Hz	0.8 %			
				500 Hz to 2 kHz	0.12 %			
				2 kHz to 100 kHz	0.08 %			
				100 kHz to 400 kHz	0.17 %			
				400 kHz to 1 MHz	0.37 %			
		10 nF	to 100 nF	100 Hz to 500 Hz	0.2 %			
				500 Hz to 100 kHz	0.1 %			
				100 kHz to 400 kHz	0.25 %			
				400 kHz to 1 MHz	0.73 %			
		100 nF	to 1,000 nF	100 Hz to 500 Hz	0.15 %			
		500 Hz to 20 kHz	0.08 %					
		20 kHz to 100 kHz	0.15 %					
		100 kHz to 400 kHz	0.85 %					
1 μF	to 10 μF	100 Hz to 500 Hz	0.13 %					
		500 Hz to 10 kHz	0.08 %					
		10 kHz to 20 kHz	0.13 %					
		20 kHz to 50 kHz	0.3 %					
		50 kHz to 100 kHz	0.7 %					
10 μF	to 100 μF	50 Hz to 100 Hz	0.25 %					
		100 Hz to 500 Hz	0.15 %					
		500 Hz to 1 kHz	0.1 %					
		1 kHz to 5 kHz	0.2 %					
		5 kHz to 10 kHz	0.4 %					
23*	Capacity / capacity standards, capacitors, testing and inspection instruments and their parts		1 pF	1 kHz	1.5 %	Comparison with a standard capacitor	KP 32/E	1

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		min.	unit					
				1 kHz to 100 kHz	1.6 %			
				100 kHz to 1 MHz	2 %			
		10 pF		1 kHz	0.05 %			
				1 kHz to 100 kHz	0.2 %			
				100 kHz to 1 MHz	0.2 %			
		100 pF		1 kHz	0.01 %			
				1 kHz to 100 kHz	0.1 %			
				100 kHz to 1 MHz	0.5 %			
		1,000 pF		100 Hz to 1 kHz	0.05 %			
				1 kHz	0.02 %			
				1 kHz to 100 kHz	0.05 %			
				100 kHz to 1 MHz	0.1 %			
10 nF		100 Hz to 1 kHz	0.05 %					
		1 kHz	0.01 %					
		1 kHz to 100 kHz	0.05 %					
		100 kHz to 1 MHz	0.1 %					
100 nF		100 Hz to 1 kHz	0.05 %					
		1 kHz	0.01 %					
		1 kHz to 100 kHz	0.1 %					
1 μF		100 Hz to 1 kHz	0.15 %					
		1 kHz	0.1 %					
		1 kHz to 100 kHz	0.6 %					
10 μF		100 Hz to 1 kHz	0.15 %					
		1 kHz	0.1 %					
		1 kHz to 50 kHz	0.5 %					
100 μF		100 Hz to 1 kHz	0.1 %					
		1 kHz	0.1 %					
		1 kHz to 10 kHz	0.6 %					

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		min.	unit					
24*	Capacity / RLCG bridges and meters, testing and inspection instruments and their parts	1 pF		1 kHz	1.5 %	Direct measurement on capacity standards	KP 31/E	1
				1 kHz to 100 kHz	1.6 %			
				100 kHz to 1 MHz	2 %			
		10 pF		1 kHz	0.05 %			
				1 kHz to 100 kHz	0.2 %			
				100 kHz to 1 MHz	0.2 %			
		100 pF		1 kHz	0.01 %			
				1 kHz to 100 kHz	0.1 %			
				100 kHz to 1 MHz	0.5 %			
1,000 pF		100 Hz to 1 kHz	0.05 %					
		1 kHz	0.02 %					
		1 kHz to 100 kHz	0.05 %					
		100 kHz to 1 MHz	0.1 %					
10 nF		100 Hz to 1 kHz	0.05 %					
		1 kHz	0.01 %					
		1 kHz to 100 kHz	0.05 %					
		100 kHz to 1 MHz	0.1 %					
100 nF		100 Hz to 1 kHz	0.05 %					
		1 kHz	0.01 %					
		1 kHz to 100 kHz	0.1 %					
1 μF		100 Hz to 1 kHz	0.15 %					
		1 kHz	0.1 %					
		1 kHz to 100 kHz	0.6 %					
10 μF		100 Hz to 1 kHz	0.15 %					
		1 kHz	0.1 %					
		1 kHz to 50 kHz	0.5 %					

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		min. unit	max. unit					
			100 µF	100 Hz to 1 kHz 1 kHz 1 kHz to 10 kHz	0.1 % 0.1 % 0.6 %			
25*	Inductance / inductors and inductance standards, inductance calibrators, inductance decades, testing and inspection instruments and their parts	1 µH	to 2 µH	1 kHz to 2 kHz 2 kHz to 4 kHz 4 kHz to 8 kHz 8 kHz to 10 kHz 10 kHz to 50 kHz 50 kHz to 100 kHz	10 % 4.1 % 2 % 1 % 0.83 % 0.3 %	Measurement by standard RLCG bridge, two-terminal or three-terminal connection	KP 32/E	1
2 µH		to 3 µH	1 kHz to 2 kHz 2 kHz to 4 kHz 4 kHz to 8 kHz 8 kHz to 10 kHz 10 kHz to 50 kHz 50 kHz to 100 kHz	5 % 2.1 % 1 % 0.6 % 0.5 % 0.2 %				
3 µH		to 5 µH	1 kHz to 2 kHz 2 kHz to 4 kHz 4 kHz to 8 kHz 8 kHz to 10 kHz 10 kHz to 50 kHz 50 kHz to 100 kHz	3.2 % 1.4 % 0.69 % 0.38 % 0.33 % 0.18 %				
5 µH		to 10 µH	1 kHz to 2 kHz 2 kHz to 4 kHz 4 kHz to 8 kHz	2 % 0.86 % 0.44 %				

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		min. unit	max. unit					
				8 kHz to 10 kHz	0.27 %			
				10 kHz to 50 kHz	0.19 %			
				50 kHz to 100 kHz	0.15 %			
		10 μH	to 20 μH	1 kHz to 2 kHz	1 %			
				2 kHz to 4 kHz	0.46 %			
				4 kHz to 10 kHz	0.25 %			
				10 kHz to 100 kHz	0.14 %			
		20 μH	to 50 μH	500 Hz to 1 kHz	1.3 %			
				1 kHz to 2 kHz	0.53 %			
				2 kHz to 4 kHz	0.26 %			
				4 kHz to 10 kHz	0.16 %			
				10 kHz to 100 kHz	0.14 %			
		50 μH	to 200 μH	500 Hz to 1 kHz	0.55 %			
				1 kHz to 4 kHz	0.25 %			
				4 kHz to 10 kHz	0.11 %			
				10 kHz to 100 kHz	0.14 %			
		200 μH	to 1 mH	100 Hz to 200 Hz	1.9 %			
				200 Hz to 500 Hz	0.6 %			
				500 Hz to 1 kHz	0.2 %			
				1 kHz to 4 kHz	0.11 %			
				4 kHz to 10 kHz	0.07 %			
				10 kHz to 100 kHz	0.13 %			
		1 mH	to 1 H	100 Hz to 200 Hz	0.48 %			
				200 Hz to 500 Hz	0.2 %			
				500 Hz to 1 kHz	0.13 %			
				1 kHz to 20 kHz	0.09 %			
		1 H	to 20 H	100 Hz to 200 Hz	0.18 %			
				200 Hz to 1 kHz	0.14 %			

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		min.	unit max. unit					
				1 kHz to 20 kHz	1.8 %			
				20 kHz to 100 kHz	5.7 %			
				100 kHz	3.2 %			
			1 Ω	0 Hz	0.005 %			
				0 Hz to 1 kHz	0.06 %			
				1 kHz to 100 kHz	0.26 %			
				100 kHz to 1 MHz	0.92 %			
				1 MHz	0.53 %			
			10 Ω	0 Hz	0.005 %			
				0 Hz to 1 kHz	0.03 %			
				1 kHz to 100 kHz	0.04 %			
				100 kHz	0.06 %			
		100 kHz to 1 MHz	0.15 %					
		1 MHz	0.1 %					
	100 Ω	0 Hz	0.005 %					
		0 Hz to 100 kHz	0.03 %					
		100 kHz	0.06 %					
		100 kHz to 1 MHz	0.58 %					
		1 MHz to 10 MHz	0.5 %					
		10 MHz to 50 MHz	12 %					
	1 kΩ	0 Hz	0.005 %					
		0 Hz to 1 kHz	0.02 %					
		1 kHz to 100 kHz	0.05 %					
		100 kHz to 2 MHz	0.11 %					
	10 kΩ	0 Hz	0.17 %					
		0 Hz to 1 kHz	0.02 %					
		1 kHz to 100 kHz	0.06 %					
		100 kHz to 2 MHz	1.4 %					

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		min.	unit	max.	unit					
						2 MHz	0.52 %			
				100 kΩ		0 Hz	0.017 %			
						0 Hz to 1 kHz	0.02 %			
						1 kHz to 100 kHz	0.25 %			
						100 kHz	0.09 %			
						100 kHz to 1 MHz	16 %			
						1 MHz	0.31 %			
				1 MΩ		0 Hz	0.01 %			
						0 Hz to 1 kHz	0.06 %			
						1 kHz to 20 kHz	0.26 %			
						20 kHz to 200 kHz	2.5 %			
						200 kHz	1.9 %			
				10 MΩ		0 Hz	0.06 %			
						0 Hz to 100 Hz	0.44 %			
						100 Hz to 400 Hz	0.5 %			
						400 Hz to 1 kHz	0.9 %			
				100 MΩ		100 Hz	0.15 %			
						100 Hz to 1 kHz	0.32 %			
						1 kHz to 20 kHz	0.9 %			
28*	AC resistance, impedance / impedance standards and calibrators, testing and inspection instruments and their parts.	0.1 mΩ	to	1 Ω		20 Hz to 50 Hz	0.015 Ω	Direct measurement using a standard RLC bridge	KP 32/E	1
						50 Hz to 100 Hz	0.006 Ω			
						100 Hz to 500 Hz	0.003 Ω			
						500 Hz to 1 kHz	0.002 Ω			
						1 kHz to 10 kHz	0.002 Ω			
						10 kHz to 100 kHz	0.002 Ω			

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		min. unit	max. unit					
				100 kHz to 500 kHz 500 kHz to 1 MHz	0.006 Ω 0.01 Ω			
		1 Ω	to 10 Ω	20 Hz to 50 Hz 50 Hz to 100 Hz 100 Hz to 500 Hz 500 Hz to 1 kHz 1 kHz to 10 kHz 10 kHz to 100 kHz 100 kHz to 500 kHz 500 kHz to 1 MHz	1.4 % 0.61 % 0.35 % 0.15 % 0.12 % 0.19 % 0.6 % 1 %			
		10 Ω	to 100 Ω	20 Hz to 50 Hz 50 Hz to 100 Hz 100 Hz to 500 Hz 500 Hz to 10 kHz 10 kHz to 100 kHz 100 kHz to 500 kHz 500 kHz to 1 MHz	0.58 % 0.27 % 0.16 % 0.08 % 0.11 % 0.25 % 0.41 %			
			100 Ω	2 MHz	0.3 %			
		100 Ω	to 1 kΩ	20 Hz to 50 Hz 50 Hz to 100 Hz 100 Hz to 500 Hz 500 Hz to 10 kHz 10 kHz to 100 kHz 100 kHz to 500 kHz 500 kHz to 1 MHz	0.5 % 0.25 % 0.15 % 0.07 % 0.08 % 0.21 % 0.4 %			
			1 kΩ	2 MHz	0.2 %			
		1 kΩ	to 10 kΩ	20 Hz to 50 Hz 50 Hz to 100 Hz	0.51 % 0.25 %			

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		min.	unit	max.	unit					
						100 Hz to 500 Hz	0.18 %			
						500 Hz to 10 kHz	0.13 %			
						10 kHz to 100 kHz	0.18 %			
						100 kHz to 500 kHz	0.22 %			
						500 kHz to 1 MHz	0.4 %			
				10 kΩ		2 MHz	0.3 %			
		10 kΩ	to	100 kΩ		20 Hz to 50 Hz	0.51 %			
						50 Hz to 100 Hz	0.25 %			
						100 Hz to 500 Hz	0.18 %			
						500 Hz to 10 kHz	0.13 %			
						10 kHz to 100 kHz	0.18 %			
						100 kHz to 500 kHz	0.22 %			
						500 kHz to 1 MHz	0.4 %			
		0.1 MΩ	to	1 MΩ		20 Hz to 50 Hz	2.3 %			
						50 Hz to 100 Hz	1 %			
						100 Hz to 500 Hz	0.6 %			
						500 Hz to 1 kHz	0.24 %			
						1 kHz to 10 kHz	0.18 %			
						10 kHz to 100 kHz	0.31 %			
						100 kHz to 500 kHz	0.9 %			
						500 kHz to 1 MHz	1.6 %			
		1 MΩ	to	2 MΩ		20 Hz to 50 Hz	4.2 %			
						50 Hz to 100 Hz	1.8 %			
						100 Hz to 500 Hz	1 %			
						500 Hz to 1 kHz	0.4 %			
						1 kHz to 10 kHz	0.3 %			
						10 kHz to 100 kHz	0.48 %			
						100 kHz to 500 kHz	1.6 %			

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		min.	unit	max.	unit					
						500 kHz to 1 MHz	2.9 %			
		2 MΩ	to	5 MΩ	20 Hz to 50 Hz		9.6 %			
					50 Hz to 100 Hz		4.1 %			
					100 Hz to 500 Hz		2.3 %			
					500 Hz to 1 kHz		0.83 %			
					1 kHz to 10 kHz		0.65 %			
					10 kHz to 100 kHz		1.1 %			
					100 kHz to 500 kHz		3.5 %			
					500 kHz to 1 MHz		6.6 %			
		5 MΩ	to	10 MΩ	100 Hz to 500 Hz		4.5 %			
					500 Hz to 1 kHz		1.6 %			
					1 kHz to 10 kHz		1.3 %			
					10 kHz to 100 kHz		2.1 %			
		10 MΩ	to	20 MΩ	100 Hz to 500 Hz		8.7 %			
500 Hz to 1 kHz					3.1 %					
1 kHz to 10 kHz					2.4 %					
10 kHz to 100 kHz					4 %					
20 MΩ	to	50 MΩ	500 Hz to 1 kHz		7.7 %					
			1 kHz to 10 kHz		5.9 %					
			10 kHz to 50 kHz		7.1 %					
50 MΩ	to	100 MΩ	1 kHz to 2 kHz		12 %					
			2 kHz to 10 kHz		10 %					
29*	Insulation resistance / inspection instruments, electrical strength testers							Direct measurement on a calibrator of inspection instruments or on standard resistors	KP 5/E	1
		10 kΩ	to	30 kΩ		0.2 %				
		30 kΩ	to	5 MΩ		0.12 %				
		5 MΩ	to	500 MΩ		1.2 %				

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		min.	unit	max.	unit					
		500 M Ω	to	10 G Ω		1.4 %				
	Transition resistance / inspection instruments, multifunctional electrical safety testers	0.02 Ω	to	0.02 Ω		0.0013 %	Direct measurement on a calibrator of inspection instruments or on standard resistors			
		0.2 Ω	to	0.3 Ω		0.013 %				
		0.3 Ω	to	0.8 Ω		0.035 %				
		0.8 Ω	to	4 Ω		0.075 %				
		4 Ω	to	20 Ω		0.11 %				
		100 Ω	to	100 Ω		0.007 %				
		1,000 Ω	to	1,000 Ω		0.031 %				
	Earth resistance, protective conductor resistance / inspection instruments, resistance meters	0.05 Ω	to	0.6 Ω		0.01 %	Direct measurement on a calibrator of inspection instruments or on standard resistors			
		1 Ω	to	1 Ω		0.012 %				
		5 Ω	to	5 Ω		0.034 %				
		10 Ω	to	10 Ω		0.063 %				
		100 Ω	to	100 Ω		0.58 %				
		1,000 Ω	to	1,000 Ω		5.8 %				
	Tripping loop and network impedance / inspection instruments, impedance meters	0.5 Ω	to	1.5 Ω		0.01 %	Direct measurement on a calibrator of inspection instruments			
		5 Ω	to	5 Ω		0.04 %				
		10 Ω	to	10 Ω		0.03 %				
		100 Ω	to	100 Ω		0.11 %				
		1,000 Ω	to	1,000 Ω		1.1 %				

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		min.	unit	max.	unit					
	Tripping current / inspection instruments	3 mA	to	3 A		1.7 %	Direct measurement on a calibrator of inspection instruments			
	Tripping time of residual current circuit breakers/ inspection instruments	20 ms	to	100 ms		0.41 ms	Direct measurement on a calibrator of inspection instruments			
		100 ms	to	150 ms		0.41 %				
		150 ms	to	250 ms		0.34 %				
		250 ms	to	5 s		0.29 %				
	Direct leakage current / inspection instruments, leakage current meters	50 µA	to	50 µA		0.06 mA	Indirect measurement by a resistance decade and standard multimeter			
		50 µA	to	500 µA		0.2 mA				
		500 µA	to	1.2 mA		0.002 mA				
		1.2 mA	to	5.0 mA		0.007 mA				
		5 mA	to	12 mA		0.011 mA				
		12 mA	to	20 mA		0.031 mA				
		20 mA	to	50 mA		0.045 mA				
	Substitute leakage current / inspection instruments, leakage current meters	50 µA	to	50 µA		0.1 µA	Indirect measurement by a resistance decade and standard multimeter			
		50 µA	to	500 µA		0.2 µA				
		500 µA	to	5 mA		4 µA				
		5 mA	to	10 mA		0.15 %				
		10 mA	to	20 mA		0.2 %				

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		min. unit	max. unit					
		20 mA	to 40 mA		0.4 %			
	Differential leakage current / inspection instruments, leakage current meters	50 μA	to 40 mA		0.8 %	Indirect measurement by a resistance decade and standard multimeter		
30*	Non-linear distortion THD, THF / distortion meters and analyzers, signal analyzers, radiocommunication testers, testing and inspection instruments and their parts for fundamental harmonic level $U_{P,P} = (7 \text{ to } 20) \text{ V}$			Fundamental harmonic		Direct measurement on a standard distortion generator	KP 22/E	1
		0.1 %	to 0.3 %	20 Hz to 50 kHz	2.0 % + 0.039 % (abs.)			
				50 kHz to 100 kHz	2.3 % + 0.039 % (abs.)			
				100 kHz to 200 kHz	2.9 % + 0.039 % (abs.)			
		0.3 %	to 1 %	20 Hz to 1 kHz	7.0 % + 0.033 % (abs.)			
				1 kHz to 50 kHz	4.1 % + 0.033 % (abs.)			
				50 kHz to 100 kHz	5.5 % + 0.033 % (abs.)			
				100 kHz to 200 kHz	7.0 % + 0.030 % (abs.)			
		1 %	to 10 %	20 Hz to 50 kHz	18 % + 0.010 % (abs.)			
				50 kHz to 100 kHz	14 % + 0.012 % (abs.)			
				100 kHz to 200 kHz	20 % + 0.010 % (abs.)			
		10 %	to 40 %	20 Hz to 1 kHz	20 % + 0.10 % (abs.)			
				1 kHz to 50 kHz	20 % + 0.15 % (abs.)			
				50 kHz to 100 kHz	20 % + 0.020 % (abs.)			
			0 %	20 Hz to 50 kHz	0.010 % (abs.)			
				50 kHz	0.031 % (abs.)			
				100 kHz	0.054 % (abs.)			

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 CAB number 2222, Calibration Laboratory
 Sokolovská 573, 686 01 Uherské Hradiště

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					
		0.1 %				20 Hz	0.012 % (abs.)			
						50 Hz	0.012 % (abs.)			
						100 Hz	0.012 % (abs.)			
						1 kHz	0.012 % (abs.)			
						5 kHz	0.012 % (abs.)			
						10 kHz	0.012 % (abs.)			
						50 kHz	0.026 % (abs.)			
						100 kHz	0.026 % (abs.)			
		1 %				20 Hz	0.10 % (abs.)			
				50 Hz	0.10 % (abs.)					
				100 Hz	0.10 % (abs.)					
				1 kHz	0.10 % (abs.)					
				5 kHz	0.10 % (abs.)					
				10 kHz	0.10 % (abs.)					
				50 kHz	0.025 % (abs.)					
				100 kHz	0.025 % (abs.)					
10 %				20 Hz	1.0 % (abs.)					
				50 Hz	1.0 % (abs.)					
				100 Hz	1.0 % (abs.)					
				1 kHz	1.0 % (abs.)					
				5 kHz	1.0 % (abs.)					
				10 kHz	1.0 % (abs.)					
				50 kHz	2.5 % (abs.)					
				100 kHz	2.5 % (abs.)					

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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									
31*	Non-linear distortion of THF signals with levels from 150 mV to 300 V / signal generators, sources, oscillators, radiocommunication testers, testing and inspection instruments and their parts	0 %	to	0.1 %	Fundamental harmonic:	Bandwidth	29.0 % + 0.01 % (abs.) 30.0 % + 0.01 % (abs.) 36.0 % + 0.01 % (abs.)	Direct measurement using a standard distortion analyzer	KP 22/E	1				
					10 Hz to 1 kHz	80 kHz								
					1 kHz to 10 kHz	80 kHz								
					10 kHz to 20 kHz	80 kHz								
					0.1 %	to					0.3 %	10 Hz to 10 kHz	80 kHz	18.0 %
					10 kHz to 20 kHz	80 kHz					19.0 %			
					20 kHz to 50 kHz	80 kHz					39.0 %			
0.3 %	to	1 %	10 Hz to 20 kHz	80 kHz	16.0 %									
20 kHz to 50 kHz	500 kHz	27.0 %												
50 kHz to 100 kHz	500 kHz	30.0 %												
1 %	to	3 %	10 Hz to 20 kHz	80 kHz	15.0 %									
20 kHz to 50 kHz	500 kHz	22.0 %												
50 kHz to 100 kHz	500 kHz	23.0 %												
3 %	to	10 %	10 Hz to 10 kHz	80 kHz	14.0 %									
10 kHz to 20 kHz	500 kHz	15.0 %												
20 kHz to 100 kHz	500 kHz	21.0 %												
10 %	to	40 %	20 Hz to 20 kHz	80 kHz	14.0 %									
20 kHz to 100 kHz	500 kHz	20.0 %												
32	Impedance module (complex) / standards, impedance elements, coupling networks, artificial networks, filters	0 Ω	to	10 Ω	9 kHz to 500 MHz	0.5 Ω	Measurement by a network analyzer ⁸	KP 33/E	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	Location	
		min. unit	max. unit						
		10 Ω	to	13 Ω		5.0 %			
		13 Ω	to	16 Ω		4.0 %			
		16 Ω	to	20 Ω		3.5 %			
		20 Ω	to	30 Ω		3.0 %			
		30 Ω	to	40 Ω		2.0 %			
		40 Ω	to	70 Ω		1.9 %			
		70 Ω	to	85 Ω		2.0 %			
		85 Ω	to	100 Ω		2.5 %			
		100 Ω	to	120 Ω		3.0 %			
		120 Ω	to	170 Ω		4.0 %			
		170 Ω	to	220 Ω		5.0 %			
		220 Ω	to	270 Ω		6.0 %			
		270 Ω	to	300 Ω		7.0 %			
		300 Ω	to	350 Ω		8.0 %			
350 Ω	to	400 Ω	9.0 %						
	Impedance phase (complex) / standards, impedance elements, coupling networks, artificial networks, filters	-360 °	to	+360 °		1.7°	Measurement by a network analyzer ⁸		
33	Reflection coefficient modulus / HF instruments, HV circuit elements	0.000	to	0.178	9 kHz to 2 GHz 2 GHz to 6 GHz	0.009 (abs.) 0.015 (abs.)	Measurement by a network analyzer ⁸	KP 33/E	1
		0.178	to	0.500	9 kHz to 2 GHz 2 GHz to 6 GHz	3.5 % 5.5 %			
		0.500	to	0.708	9 kHz to 2 GHz 2 GHz to 6 GHz	3.0 % 4.0 %			
		0.708	to	1.000	9 kHz to 2 GHz	2.5 %			

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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	Location
		min. unit	max. unit					
				2 GHz to 6 GHz	4.0 %			
34	Reflection coefficient phase / HF instruments, HV circuit elements	-360 °	to +360 °	Reflection coefficient Frequency 0.009 to 0.018 9 kHz to 2 GHz 2 GHz to 6 GHz	Reflection coefficient 0,009 to 0,018 42.0 ° 55.0 °	Measurement by a network analyzer ⁸	KP 33/E	1
				0.018 to 0.056 9 kHz to 2 GHz 2 GHz to 6 GHz	0,018 to 0,056 20.0 ° 42.0 °			
				0.056 to 0.178 9 kHz to 2 GHz 2 GHz to 6 GHz	0,056 to 0,178 6.0 ° 13.0 °			
				0.5 to 1 9 kHz to 1 GHz 1 GHz to 2 GHz 2 GHz to 3 GHz 3 GHz to 5 GHz 5 GHz to 6 GHz	0,5 to 1 1.0 ° 1.3 ° 2.0 ° 3.0 ° 3.5 °			
35	DC power / DC wattmeters and DC power meters	40 μW	to 5.6 kW	0.2 V to 280 V 0.2 mA to 20 A	0.021 % 0.021 %	Comparison with indirectly measured reference performance	KP 9/E	1
36	DC power / DC power generators and sources	10 μW	to 100 kW	0.1 V to 1 kV 0.1 A to 100 A	0.0049 % 0.0049 %	Indirect power measurement by measuring voltage and current with two reference multimeters	KP 9/E	1
37	AC active power / AC wattmeters and AC power meters in the range 0.2 V to 280 V; 0.2 mA to 20 A; 15 Hz to 1 kHz; 0° to 360°	0 W	to 5.6 kW		0.73 mW/VA	Generation by a reference power calibrator	KP 9/E	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	Location
		min. unit	max. unit					
38	AC apparent power / AC wattmeters and AC power meters in the range 0.2 V to 280 V; 0.2 mA to 20 A; 15 Hz to 1 kHz	40 μVA	to 5.6 kVA		0.75 mVA/VA	Generation by a reference power calibrator	KP 9/E	1
39	AC reactive power / AC wattmeters and AC power meters in the range 0.2 V to 280 V; 0.2 mA to 20 A; 15 Hz to 1 kHz; 0° to 360°	0 var	to 5.6 kvar		0.73 mvar/VA	Generation by a reference power calibrator	KP 9/E	1
40	AC active power / AC power generators and sources in the range 0.1 V to 700 V; 0° to 360°	0 W	to 70 W	0.01 A to 0.1 A 40 Hz to 1 kHz	0.97 mW/VA	Measurement by a digital sampling wattmeter	KP 9/E	1
		0 W	to 11.2 kW	0.1 A to 16 A 15 Hz to 1 kHz				
		0 W	to 70 kW	16 A to 100 A 40 Hz to 1 kHz				
41	AC apparent power / AC power generators and sources in the range 0.1 V to 700 V	1 mVA	to 70 VA	0.01 A to 0.1 A 40 Hz to 1 kHz	0.97 mVA/VA	Measurement by a reference digital sampling wattmeter	KP 9/E	1
		10 mVA	to 11.2 kVA	0.1 A to 16 A 15 Hz to 1 kHz				
		1.6 VA	to 700 kVA	16 A to 100 A 40 Hz to 1 kHz				
42	AC reactive power / AC power generators and sources in the range 0.1 V to 700 V; 0° to 360°	0 var	to 70 var	0.01 A to 0.1 A 40 Hz to 1 kHz	0.97 mvar/VA	Measurement by a reference digital sampling wattmeter	KP 9/E	1
		0 var	to 11.2 kvar	0.1 A to 16 A 15 Hz to 1 kHz				
		0 var	to 70 kvar	16 A to 100 A 40 Hz to 1 kHz				

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

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 CAB number 2222, Calibration Laboratory
 Sokolovská 573, 686 01 Uherské Hradiště

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					
43	Phase angle/wattmeters and power meters in the range 0.2 V to 280 V; 0.2 mA to 20 A	0 °		to	360 °	15 Hz to 200 Hz 200 Hz to 1 kHz	0.15° 0.25°	Generation by a reference power calibrator	KP 9/E	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).

⁴ CMC is given for a signal with fundamental and selectable n-th harmonic. n = (2 to 100) for frequencies up to 1 kHz, n = (2 to 10) for frequencies over 1 kHz.

⁵ It does not apply to overshoot in steep-edge pulse waveforms.

⁶ Applies to N (m) connector and matched sources (meters).

⁷ The uncertainty is given as a percentage of the modulation swing value.

⁸ Connection in the measurement plane of the "N" connector; characteristic impedance = 50 Ω

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CMC for the field of measured quantity: Optical 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*	UV-VIS-NIR absorbance (transmittance) / photometers and spectrometers, Elisa readers, solid and liquid filters for the control of absorbance, stray light and spectral resolution	0.1	to	0.3	wavelength:		Direct measurement and comparison by standard filters and CRM	KP 1/S	1	
					235 nm	0.0030 abs.				
					257 nm	0.0030 abs.				
					302 nm	0.0025 abs.				
					313 nm	0.0025 abs.				
					345 nm	0.0025 abs.				
					350 nm	0.0025 abs.				
					395 nm	0.0025 abs.				
					512 nm	0.0040 abs.				
0.3	to	0.6	235 nm	0.0040 abs.						
			257 nm	0.0040 abs.						
			302 nm	0.0090 abs.						
			313 nm	0.0040 abs.						
			345 nm	0.0040 abs.						
			350 nm	0.0040 abs.						
			395 nm	0.0080 abs.						
0.6	to	1.6	235 nm	0.0050 abs.						
			257 nm	0.0050 abs.						
			302 nm	0.0098 abs.						

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

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CAB number 2222, Calibration Laboratory
Sokolovská 573, 686 01 Uherské Hradiště

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					
						345 nm 350 nm 395 nm 512 nm 678 nm	0.0050 abs. 0.0050 abs. 0.0090 abs. 0.0060 abs. 0.0040 abs.			
		1.6	to	5.0		190 nm to 390 nm	0.010 abs.			
		0.03 (93.3 %	to to	0.6 25.1 %)		250 nm to 400 nm	0.0045 abs. (1.1 % abs.)	Direct measurement with standard filters, comparison with standard filters		
		0.6 (25.1 %	to to	1.1 8 %)		250 nm to 400 nm	0.0050 abs. (1.2 % abs.)			
		0	to to	0.4 40 %)		396 nm to 401 nm 401 nm to 406 nm 406 nm to 420 nm	0.0060 abs. (1.4 % abs.) 0.0030 abs. (0.7 % abs.) 0.0030 abs. (0.7 % abs.)			
		0.4 (40 %	to to	0.8 16 %)		396 nm to 401 nm 401 nm to 406 nm 406 nm to 420 nm	0.0030 abs. (0.7 % abs.) 0.0030 abs. (0.7 % abs.) 0.0030 abs. (0.7 % abs.)			
		0.8 (16 %	to to	1.2 6.3 %)		396 nm to 401 nm 401 nm to 406 nm	0.013 abs. (3.0 % abs.) 0.0050 abs.			

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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					
						406 nm to 420 nm	(1.2 % abs.) 0.0050 abs. (1.2 % abs.)			
		1.2 (6.3 %)	to	1.6 (2.5 %)		396 nm to 401 nm	0.0060 abs. (2.1 % abs.)			
						401 nm to 406 nm	0.026 abs. (5.9 % abs.)			
						406 nm to 420 nm	0.0090 abs. (1.4 % abs.)			
		1.6 (2.5 %)	to	2.8 (0.16 %)		396 nm to 401 nm	0.030 abs. (6.7 % abs.)			
						401 nm to 406 nm	0.010 abs. (1.9 % abs.)			
						406 nm to 420 nm	0.0080 abs. (2.3 % abs.)			
		0 (100 %)	to	0.35 (45 %)		420 nm to 460 nm	0.0035 abs. (0.9 % abs.)			
						460 nm to 600 nm	0.0030 abs. (0.7 % abs.)			
						600 nm to 860 nm	0.0035 abs. (0.9 % abs.)			
		0.35 (45 %)	to	0.7 (20 %)		420 nm to 460 nm	0.0040 abs. (1.0 % abs.)			
						460 nm to 600 nm	0.0030 abs. (0.7 % abs.)			
						600 nm to 860 nm	0.0030 abs. (0.7 % abs.)			

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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					
		0.7	to	1.0		420 nm to 460 nm	0.0050 abs. (1.2 % abs.)			
		(20 %	to	10 %)		460 nm to 600 nm	0.0040 abs. (1.0 % abs.)			
						600 nm to 860 nm	0.0040 abs. (1.0 % abs.)			
		1.0	to	1.2		420 nm to 460 nm	0.0065 abs. (1.5 % abs.)			
		(10 %	to	6.3 %)		460 nm to 600 nm	0.0050 abs. (1.2 % abs.)			
						600 nm to 860 nm	0.0050 abs. (1.2 % abs.)			
		1.2	to	2.2		420 nm to 460 nm	0.0080 abs. (1.9 % abs.)			
		(6.3 %	to	0.63 %)		460 nm to 600 nm	0.006 abs. (1.5 % abs.)			
						600 nm to 860 nm	0.0065 abs. (1.5 % abs.)			
		0	to	0.3		860 nm to 950 nm	0.0035 abs. (0.9 % abs.)			
		(100 %	to	50.1 %)		950 nm to 1,000 nm	0.0035 abs. (0.9 % abs.)			
						1,000 nm to 1,500 nm	0.0030 abs. (0.7 % abs.)			
0.3	to	0.65		860 nm to 950 nm	0.0030 abs. (0.7 % abs.)					
(50.1 %	to	22.4 %)		950 nm to 1,000 nm	0.0055 abs.					

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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					
						1,000 nm to 1,500 nm	(1.3 % abs.) 0.0060 abs. (1.4 % abs.)			
		0.65 (22.4 %)	to	0.8 (16 %)		860 nm to 950 nm 950 nm to 1,000 nm 1,000 nm to 1,500 nm	0.0040 abs. (1.0 % abs.) 0.0055 abs. (1.3 % abs.) 0.0060 abs. (1.4 % abs.)			
		0.8 (16 %)	to	1.0 (10 %)		860 nm to 950 nm 950 nm to 1,000 nm	0.0040 abs. (1.0 % abs.) 0.0040 abs. (1.0 % abs.)			
		1.0 (10 %)	to	1.4 (4 %)		860 nm to 950 nm 950 nm to 1,000 nm	0.0050 abs. (1.2 % abs.) 0.0050 abs. (1.2 % abs.)			
2*	Absorbance ratio / spectral resolution of UV spectrometers, liquid filters	1.0	to	2.2		265 nm to 270 nm	0.0020 abs.	Direct measurement of CRM and calculation	KP 1/S	1
3*	UV-VIS-NIR wavelength / photometers and spectrometers, filters for controlling wavelengths and spectral resolution	200 nm	to	650 nm			0.035 nm	Direct measurement of CRM or standard filters, comparison with CRM	KP 1/S	1
		650 nm	to	900 nm			0.060 nm			
		900 nm	to	2,600 nm			0.5 nm			
4*	Wave number in the IR spectrum / IR and FTIR spectrometers	10,000 cm ⁻¹	to	4,000 cm ⁻¹			0.60 cm ⁻¹	Direct measurement of standard filters	KP 3/S	1, 3
		4,000 cm ⁻¹	to	400 cm ⁻¹			0.30 cm ⁻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	Location
		min.	unit	max.	unit					
5*	Integral transmittance/fade and transmittance meters	18 %	to	100 %		0.7 %	Direct measurement of standard filters	KP 1/S	1	
6*	Colorimetric coordinates / spectrophotometers for colour measurement, colorimetric samples L* = a* = b* =	5	to	100	Lighting type: D65, C Viewing angle: 2°, 10°	0.1 abs. 0.2 abs. 0.1 abs.	Direct measurement of colorimetric standards and comparison with colorimetric standards	KP 5/S	1	
7*	Colorimetric coordinates/ Colorimetric standards and samples L* = a* = b* =	0	to	80	Lighting type: D65, C Viewing angle: 2°, 10°	0.5 abs. 0.3 abs. 0.5 abs.	Comparison with colorimetric standards	KP 5/S	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)

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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	Location
		min. unit	max. unit					
1*	Frequency / frequency counters, meters, measuring receivers, oscilloscopes, spectral, modulation and frequency analyzers, radiocommunication and radio navigation testers, simulators and imitators (ATC, DME, TACAN, TCAS, VOR-ILS)	0.01 Hz	to 0.1 Hz		$3.2 \cdot 10^{-9}$	Direct measurement on a standard generator	KP 1/F, KP 18/E	1
		0.1 Hz	to 1 Hz		$4.9 \cdot 10^{-10}$			
		1 Hz	to 100 Hz		$2.2 \cdot 10^{-10}$			
		100 Hz	to 40 GHz		$1.9 \cdot 10^{-10}$			
			0.1 MHz		$9.5 \cdot 10^{-11}$			
			1 MHz		$9.5 \cdot 10^{-11}$			
			5 MHz		$9.5 \cdot 10^{-11}$			
			10 MHz		$9.5 \cdot 10^{-11}$			
2*	Frequency / standard oscillators, HF, LF, function and pulse generators, frequency converters, spectral, circuit, modulation and frequency analyzers, radiocommunication and radio navigation testers, simulators and imitators (ATC, DME, TACAN, TCAS, VOR-ILS)	0.1 Hz	to 1 Hz	Sine signal U = 3.57 V	$6.5 \cdot 10^{-6}$	Direct frequency measurement with a standard counter	KP 2/F, KP 3/F, KP 4/F	
		1 Hz	to 10 Hz		$2.1 \cdot 10^{-7}$			
10 Hz	to 100 Hz	$1.4 \cdot 10^{-8}$						
100 Hz	to 1 kHz	$3.1 \cdot 10^{-9}$						
1 kHz	to 10 kHz	$4.1 \cdot 10^{-10}$						
10 kHz	to 500 MHz	$1.4 \cdot 10^{-10}$						
500 MHz	to 6 GHz	$1.2 \cdot 10^{-10}$						
		6 GHz	to 15 GHz	Sine signal U = 1.0 V	$1.0 \cdot 10^{-10} + 2.8 \text{ Hz}$			
		15 GHz	to 46 GHz		$1.0 \cdot 10^{-10} + 3.7 \text{ Hz}$			

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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					
		0.01 Hz	to 0.1 Hz	Rectangle signal U = 5.0 V	$1.3 \cdot 10^{-10}$			
		0.1 Hz	to 10 Hz		$1.2 \cdot 10^{-10}$			
		10 Hz	to 350 MHz		$1.1 \cdot 10^{-10}$			
3*	Bandwidth / oscilloscopes	100 kHz	to 1 GHz		13 %	Indirect measurement using a standard generator and HF voltmeter	KP 18/E	1
		1 GHz	to 3 GHz		17 %			
		3 GHz	to 6 GHz		20 %			
4*	Time, time interval / counters, stopwatches, generators, timers, synthesizers, converters	1 ns	to 10 ns		0.75 ns	Direct measurement using a standard oscilloscope	KP 2/F	
		10 ns	to 10 ms		0.40 ns			
		10 ms	to 1 s		0.51 ns	Direct comparison, electrical start	KP 18/E	
		1 s	to 10 s		1.5 ns			
		10 s	to 100 s		$1.5 \cdot 10^{-10}$			
		100 s	to 100,000 s		$1.1 \cdot 10^{-10}$			
		10 s	to 12 h		0.06 s	Comparison with a standard, manual start	KP 5/F	

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:

Institut pro testování a certifikaci, a. s.
 CAB number 2222, Calibration Laboratory
 Sokolovská 573, 686 01 Uherské Hradiště

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	Location
		min.	unit	max.	unit					
1*	Volume concentration of ozone / ozone generators	0 nmol/mol		to	100 nmol/mol		2.4 nmol/mol 17 nmol/mol	Spectrophotometric measurement of ozone concentration	KP 1/O	2
2*	Relative humidity / humidity meters	5 % RH		to	70 % RH		2.2 % RH 3.2 % RH	Direct comparison with a standard hygrometer in a climatic chamber	KP 1/V	1
		70 % RH		to	95 % RH					

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