The Appendix is an integral part of
Certificate of Accreditation No. 529/2019 of 15/10/ 2019

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

Institut pro testování a certifikaci, a. s.
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 299, Louky, 763 02 Zlín
3	**Praha**	Křelovická 970, Praha 10 - Uhříněves
4	**Brno**	Křižíkova 70, 612 00 Brno

The Laboratory provides expert opinions and interprets test results.

CMC for the field of measured quantity: Length

Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification [3]	Work place
1	Slide gauges	0	mm	up to	100	mm		12 µm	Direct measurement using steel parallels	KP 1/D	1
		100	mm	up to	500	mm		14 µm			
2	Depth gauges	0	mm	up to	200	mm		13 µm	Direct measurement using steel parallels	KP 1/D	1
3	Height gauges	0	mm	up to	5,200	mm		14 µm	Direct measurement using steel parallels	KP 1/D	1
4	Micrometers	0	mm	up to	50	mm		1.6 µm	Direct measurement using steel parallels	KP 2/D	1
		50	mm	up to	100	mm		2.0 µm			
		100	mm	up to	200	mm		3.2 µm			
5	Micrometer depth gauges	0	mm	up to	100	mm		2.0 µm	Direct measurement using steel parallels	KP 2/D	1
6	Three-contact internal gauge with a micrometer screw	0	mm	up to	50	mm		1.6 µm	Direct measurement of standard measuring rings.	KP 2/D	1
		50	mm	up to	75	mm		1.8 µm			
		75	mm	up to	100	mm		2.0 µm			

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Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification [3]	Work place
7	Three-contact internal gauge with a lever mechanism	0 mm	up to		50 mm			2.1 µm	Direct measurement of standard measuring rings.	KP 2/D	1
		50 mm	up to		75 mm			2.3 µm			
		75 mm	up to		100 mm			2.5 µm			
8	Two-contact internal gauge	0 mm	up to		35 mm			2.5 µm	Direct measurement of standard measuring rings.	KP 2/D	1
		35 mm	up to		65 mm			2.6 µm			
		65 mm	up to		75 mm			2.7 µm			
		75 mm	up to		100 mm			2.9 µm			
9	Pasameters	0 mm	up to		25 mm			0.5 µm	Direct measurement using steel parallels	KP 2/D	1
		25 mm	up to		50 mm			0.8 µm			
		50 mm	up to		75 mm			1.2 µm			
		75 mm	up to		100 mm			1.5 µm			
		100 mm	up to		125 mm			1.8 µm			
		125 mm	up to		150 mm			2.2 µm			
		150 mm	up to		175 mm			2.5 µm			
		175 mm	up to		200 mm			2.9 µm			
10	Micropasameters	0 mm	up to		25 mm			2.0 µm	Direct measurement using steel parallels	KP 2/D	1
		25 mm	up to		50 mm			2.5 µm			
		50 mm	up to		75 mm			3.2 µm			
		75 mm	up to		100 mm			3.8 µm			
		100 mm	up to		125 mm			4.5 µm			
		125 mm	up to		150 mm			5.4 µm			
		150 mm	up to		175 mm			6.1 µm			
		175 mm	up to		200 mm			6.9 µm			
11	Centesimal indicators	0 mm	up to		100 mm			(6+2·L) µm	Comparison with a standard length gauge	KP 3/D	1
12	Millesimal indicators	0 mm	up to		50 mm			(1+2·L) µm	Comparison with a standard length gauge	KP 3/D	1

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Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification [3]	Work place
		min.	unit	max.	unit					
13	Cylindrical gauges	0 mm	up to	200 mm			(0.5+3·L) µm	Direct measurement by a length gauge	KP 3/D	1
14	Slot gauges	0 mm	up to	200 mm			(0.5+3·L) µm	Direct measurement by a length gauge	KP 3/D	1
15	Limit plug gauges	0 mm	up to	200 mm			(3 + 5·L) µm	Direct measurement by a length gauge	KP 3/D	1
16	Precision plug gauges	0 mm	up to	50 mm			(0.5+1·L) µm	Direct measurement by a length gauge	KP 3/D	1
17	Measuring wires	0.17 mm	up to	6.35 mm			(0.5+1·L) µm	Direct measurement by a length gauge	KP 3/D	1
18	Setting rings	10 mm	up to	200 mm			(1.2+4·L) µm	Direct measurement by a length gauge	KP 3/D	1
19	Micrometer depth gauges	0 mm	up to	100 mm			2.0 µm	Direct measurement by a length gauge	KP 3/D	1
20	Steel rules	0 mm	up to	250 mm			0.05 µm	Direct measurement by a standard microscope.	KP 4/D	1
21	Rules – straightness	0 mm	up to	250 mm			0.007 µm	Direct measurement by a standard microscope.	KP 4/D	1
22	Thread gauges	0 mm	up to	300 mm			0.01 µm	Direct measurement by a standard microscope.	KP 4/D	1
23	Radius gauges	0 mm	up to	300 mm			0.01 µm	Direct measurement by a standard microscope.	KP 4/D	1
24	Profile gauges	0 mm	up to	300 mm			(0.5+1·L) µm	Direct measurement by a standard microscope.	KP 4/D	1
25	Steel parallels	0 mm	up to	100 mm			(0.2+2·L) µm	Comparison with standard steel parallels	KP 21/D	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, part of CMC, and it is the lowest value of the respective uncertainty. If not stated otherwise, its coverage probability is approx. 95 %. If not stated otherwise, the uncertainty values stated without a unit are relative to the value measured. If the calibration is carried out outside the laboratory premises, the measurement uncertainty may be affected.

3 If the document identifying the calibration procedure is dated, only these specific procedures are used. If the document identifying the calibration procedure is not dated, the latest edition of the specified procedure is used (including any changes).

L is the 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 meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Workplace
		min.	unit	max.	unit					
1	Angles	0 °	up to	180 °			2.5 ′	Direct measurement by a standard microscope.	KP 4/D	1
2	Angle gauges	0 °	up to	360 °			2.5 ′	Direct measurement by a standard microscope.	KP 4/D	1

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[3] If the document identifying the calibration procedure is dated, only these specific procedures are used. If the document identifying the calibration procedure is not dated, the latest edition of the specified procedure is used (including any changes).

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CMC for the field of measured quantity: Hardness

Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the meas. quantity		Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Workplace
1	Hardness tester Shore A	1	Shore A	up 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	up to	100	Shore C	Spring force	71 mN	0.3 Shore C			
3	Hardness tester Shore D	1	Shore D	up to	100	Shore D	Spring force	71 mN	0.3 Shore D			
4	Hardness tester IRHD/N	10	IRHD	up 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	2
5	Hardness tester IRHD/m	10	IRHD	up to	100	IRHD			1.1 IRHD			

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3 If the document identifying the calibration procedure is dated, only these specific procedures are used. If the document identifying the calibration procedure is not dated, the latest edition of the specified procedure is used (including any changes).

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

Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification [3]	Work place
1*	Deformation manometers	0	kPa	up to	10	kPa	Overpressure gas	0.058 kPa + 0.015 %	Comparison with a standard digital manometer	KP 1/P	1, 4
		10	kPa	up to	400	kPa		0.07 kPa + 0.046 %			
		0.4	MPa	up to	2	MPa		0.18 kPa + 0.046 %			
		2	MPa	up to	6	MPa		0.42 kPa + 0.015 %			
		0	kPa	up to	95	kPa	Underpressure gas	0.07 kPa + 0.046 %			
		70	kPa	up to	130	kPa	Absolute pressure gas[4]	0.12 kPa + 0.015 %			
		130	kPa	up to	520	kPa		0.13 kPa + 0.046 %			
		0.52	MPa	up to	2.12	MPa		0.21 kPa + 0.046 %			
		2.12	MPa	up to	6	MPa		0.44 kPa + 0.015 %			
		6	MPa	up to	16	MPa	Overpressure, abs. pressure gas, oil[4]	1.2 kPa + 0.015 %			
		16	MPa	up to	60	MPa	Overpressure, abs. pressure oil[4]	11 kPa + 0.046 %			
		60	MPa	up to	100	MPa		8.3 kPa + 0.012 %			
		70	kPa	up to	120	kPa	Barometric pressure	0.082 kPa			
2*	Pressure converters	0	kPa	up to	10	kPa	Overpressure gas	0.0018 kPa + 0.015 %	Comparison with a standard digital manometer	KP 2/P	1, 4
		10	kPa	up to	400	kPa		0.035 kPa + 0.048 %			
		0.4	MPa	up to	2	MPa		0.12 kPa + 0.048 %			
		2	MPa	up to	6	MPa		0.35 kPa + 0.015 %			
		0	kPa	up to	95	kPa	Underpressure gas	0.035 kPa + 0.048 %			
		70	kPa	up to	130	kPa	Abs. pressure gas[4]	0.1 kPa + 0.015 %			
		130	kPa	up to	520	kPa		0.11 kPa + 0.048 %			
		0.52	MPa	up to	2.12	MPa		0.16 kPa + 0.048 %			
		2.12	MPa	up to	6	MPa		0.36 kPa + 0.015 %			

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Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification [3]	Work place
		6	MPa	up to	16	MPa	Overpressure, abs. pressure gas, oil[4]	0.93 kPa + 0.015 %			
		16	MPa	up to	60	MPa	Overpressure, abs. pressure oil[4]	11 kPa + 0.048 %			
		60	MPa	up to	100	MPa		8.1 kPa + 0.012 %			
		70	kPa	up to	120	kPa	Barometric pressure	0.12 %			
3*	Digital manometers								Comparison with a standard digital manometer	KP 3/P	1, 4
		0	kPa	up to	10	kPa	Overpressure gas	0.0018 kPa + 0.015 %			
		10	kPa	up to	400	kPa		0.039 kPa + 0.046 %			
		0.4	MPa	up to	2	MPa		0.14 kPa + 0.046 %			
		2	MPa	up to	6	MPa		0.36 kPa + 0.015 %			
		0	kPa	up to	95	kPa	Underpressure gas	0.039 kPa + 0.046 %			
		70	kPa	up to	130	kPa	Absolute pressure gas[4]	0.1 kPa + 0.015 %			
		130	kPa	up to	520	kPa		0.11 kPa + 0.046 %			
		0.52	MPa	up to	2.12	MPa		0.17 kPa + 0.046 %			
		2.12	MPa	up to	6	MPa		0.37 kPa + 0.015 %			
		6	MPa	up to	16	MPa	Overpressure, abs. pressure gas, oil[4]	0.98 kPa + 0.015 %			
		16	MPa	up to	60	MPa	Overpressure, abs. pressure oil[4]	11 kPa + 0.046 %			
		60	MPa	up to	100	MPa		8.2 kPa + 0.012 %			
		70	kPa	up to	120	kPa	Barometric pressure	0.058 kPa			

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[2] The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02, part of CMC, and it is the lowest value of the respective uncertainty. If not stated otherwise, its coverage probability is approx. 95 %. If not stated otherwise, the uncertainty values stated without a unit are relative to the value measured. If the calibration is carried out outside the laboratory premises, the measurement uncertainty may be affected.

[3] If the document identifying the calibration procedure is dated, only these specific procedures are used. If the document identifying the calibration procedure is not dated, the latest edition of the specified procedure is used (including any changes).

[4] The resulting pressure is the sum of relative and barometric pressure. The resulting uncertainty is 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 min.	unit		max.	unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification [3]	Work place
1*	Thermocouples	-40	°C	up to	250	°C		0.2 °C	Comparison with a standard resistance sensor in liquid bath.	KP 1/T	1, 4
		250	°C	up to	600	°C		0.3 °C	Comparison with a standard resistance sensor in dry block.		
		600	°C	up to	800	°C		1.3 °C	Comparison with a standard thermoelectric sensor in a horizontal oven.		
		800	°C	up to	1,200	°C		1.6 °C			
2*	Resistance temperature sensors	-80	°C	up to	0	°C		0.05 °C	Comparison with a standard resistance sensor in liquid bath.	KP 2/T	4
					0	°C		0.03 °C			
		0	°C	up to	100	°C		0.05 °C			
		100	°C	up to	250	°C		0.10 °C			
		250	°C	up to	350	°C		0.20 °C	Comparison with a standard resistance sensor in dry block.		
		350	°C	up to	600	°C		0.25 °C			
3*	Glass thermometers	-40	°C	up 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	up to	100	°C		0.07 °C			
		100	°C	up to	150	°C		0.14 °C			
		150	°C	up to	250	°C		0.15 °C			
		250	°C	up to	300	°C		0.30 °C			

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Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification [3]	Work place
4*	Direct-indicating thermometers	-80 °C		up to	0 °C			0.05 °C	Comparison with a standard resistance sensor in liquid bath.	KP 4/T	1, 4
					0 °C			0.03 °C			
		0 °C		up to	100 °C			0.05 °C			
		100 °C		up to	250 °C			0.07 °C			
		250 °C		up to	300 °C			0.08 °C			
		300 °C		up to	420 °C			0.20 °C			
		420 °C		up to	660 °C			0.25 °C			
		660 °C		up to	800 °C			1.4 °C	Comparison with a standard thermoelectric sensor in a horizontal oven.		
		800 °C		up to	1,200 °C			1.7 °C			
5*	Controllers and indicators	0 °C		up to	1,370 °C		Type K	0.3 °C	Simulation of thermoelectric temperature sensors using DC voltage	KP 5/T	1, 4
		0 °C		up to	1,780 °C		Type S	0.6 °C			
		200 °C		up to	500 °C		Type B	1.5 °C			
		500 °C		up to	1,820 °C		Type B	0.6 °C			
		0 °C		up to	1,768 °C		Type R	0.6 °C			
		0 °C		up to	1,200 °C		Type J	0.2 °C			
		0 °C		up to	1,300 °C		Type N	0.2 °C			
		-50 °C		up to	850 °C		RTD	0.05 °C	Simulation of resistance temperature sensors using DC electrical resistors		
6*	Contactless thermometers	-30 °C		up to	23 °C			2.2 °C	Direct measurement on a black body, comparison with a standard contactless thermometer.	KP 6/T	1, 4
		23 °C		up to	150 °C			2.1 °C			
		150 °C		up to	250 °C			2.2 °C			
		250 °C		up to	350 °C			2.5 °C			
		350 °C		up to	500 °C			3.0 °C			

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Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification [3]	Work place
7*	Direct-indicating thermometers integrated in conditioning and thermal chambers.	-80 °C		up to	250 °C			1.0 °C	Comparison with a standard digital thermometer in a chamber.	KP 22/T	1, 4
		250 °C		up to	600 °C			1.1 °C			
		600 °C		up to	700 °C			1.7 °C			
		700 °C		up to	850 °C			1.9 °C			
		850 °C		up to	1,200 °C			2.9 °C			

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3 If the document identifying the calibration procedure is dated, only these specific procedures are used. If the document identifying the calibration procedure is not dated, the latest edition of the specified procedure is used (including any changes).

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CMC for the field of measured quantity: Electrical quantities

Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Work place
1	Direct-current voltage/ direct-current voltage meters (digital and analogue multimeters, voltmeters, oscilloscopes, testing and inspection instruments and their parts).								Direct measurement on a standard calibrator	KP 1/E, KP 2/E, KP 3/E, KP 18/E	1
		0	mV	up to	1	mV		1.3 µV			
		1	mV	up to	20	mV		1.7 µV			
		20	mV	up to	100	mV		2.1 µV			
		100	mV	up to	200	mV		3.4 µV			
		200	mV	up to	500	mV		5.0 µV			
		500	mV	up to	900	mV		0.0011 %			
		0.9	V	up to	1.5	V		0.0009 %			
		1.5	V	up to	2	V		0.0008 %			
		2	V	up to	4	V		0.0007 %			
		4	V	up to	10	V		0.00055 %			
		10	V	up to	20	V		0.00051 %			
		20	V	up to	40	V		0.0011 %			
		40	V	up to	100	V		0.00094 %			
		100	V	up to	200	V		0.00082 %			
		200	V	up to	400	V		0.0014 %			
		400	V	up to	1,100	V		0.0013 %			
		1,100	V	up to	6,000	V		0.6 %			

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2	Direct-current voltage / Direct-current voltage sources and calibrators, multifunction calibrators, testing and inspection instruments and their parts, high voltage testers	0 mV		up to	120 mV			µV + 0.00096 0.71 %	Direct measurement by a standard multimeter	KP 8/E	1
		120 mV		up to	1,200 mV			µV + 0.00072 4.6 %			
		1.2 V		up to	12 V			µV + 0.0006 4.6 %			
		12 V		up to	120 V			µV + 0.00088 29 %			
		120 V		up to	1,100 V			µV + 0.00098 82 %			
		1,100 V		up to	6,000 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		up to	2 µA			3.8 nA	Direct measurement on a standard calibrator	KP 1/E, KP 2/E, KP 3/E	1
		2 µA		up to	10 µA			4.5 nA			
		10 µA		up to	20 µA			5.5 nA			
		20 µA		up to	40 µA			0.027 %			
		40 µA		up to	100 µA			0.019 %			
		100 µA		up to	200 µA			0.015 %			
		200 µA		up to	200 mA			0.011 %			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Work place
		200 mA		up to	400 mA			0.027 %			
		400 mA		up to	1 A			0.019 %			
		1 A		up to	2 A			0.015 %			
		2 A		up to	3 A			0.045 %			
		3 A		up to	4 A			0.038 %	Indirect measurement using a standard shunt and multimeter		
		4 A		up to	30 A			0.035 %			
		30 A		up to	50 A			0.15 %			
		50 A		up to	100 A			0.28 %			
	Direct current/ Clamp ammeter and multimeter, clamp current probes	1 A		up to	5 A			0.2 %	Direct measurement of a standard calibrator current on a direct conductor		
		5 A		up to	750 A			0.13 %	Indirect measurement – measurement of a simulated current (standard calibrator with a current coil)		
4	Direct current / Current sources, testing and inspection instruments and their parts	0 µA		up to	12 µA			nA + 0.0045 6.0 %	Direct measurement by a standard multimeter	KP 1/E, KP 2/E, KP 3/E	1
		12 µA		up to	120 µA			6.7 nA + 0.005 %			
		120 µA		up to	1.2 mA			4.5 nA + 0.005 %			
		1.2 mA		up to	12 mA			µA + 0.0044 0.045 %			
		12 mA		up to	120 mA			µA + 0.0065 0.45 %			
		120 mA		up to	1.05 A			9.8 µA + 0.016 %			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Work place
		1.05 A		up to	12 A			μA + 0.0073 25 %	Indirect measurement using a standard shunt and multimeter	KP 8/E	
		12 A		up to	20 A			μA + 0.0058 4 %			
		20 A		up to	50 A			61 μA + 0.042 %			
		50 A		up to	100 A			0.047 %			
	Direct current / Current sources	1 A		up to	40 A			3.8 %	Direct measurement by a standard clamp multimeter	KP 8/E	1
		40 A		up to	100 A			5 %			
		100 A		up to	250 A			4 %			
		250 A		up to	400 A			2.5 %			
		400 A		up to	1,000 A			2 %			
5	Alternating-current voltage/ analogue multimeters, voltmeters, oscilloscopes, testing and inspection instruments and their parts	0.1 mV		up to	1.0 mV		10 Hz up to 100 kHz	8 μV	Direct measurement on a standard calibrator	KP 1/E, KP 2/E, KP 3/E, KP 18/E	1
							100 kHz up to 300 kHz	18 μV			
							300 kHz up to 1 MHz	34 μV			
		1.0 mV		up to	10.0 mV		10 Hz up to 100 kHz	15 μV			
							100 kHz up to 300 kHz	30 μV			
							300 kHz up to 1 MHz	70 μV			
		10.0 mV		up to	20.0 mV		10 Hz up to 30 kHz	13 μV			
							30 kHz up to 100 kHz	18 μV			
							100 kHz up to 300 kHz	45 μV			
							300 kHz up to 1 MHz	110 μV			

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		20.0 mV		up to	40.0 mV		10 Hz up to 30 kHz	17 µV			
							30 kHz up to 100 kHz	29 µV			
							100 kHz up to 300 kHz	75 µV			
							300 kHz up to 1 MHz	270 µV			
		40.0 mV		up to	200.0 mV		10 Hz up to 30 kHz	0.045 %			
							30 kHz up to 100 kHz	0.075 %			
							100 kHz up to 300 kHz	0.2 %			
							300 kHz up to 1 MHz	0.7 %			
		200.0 mV		up to	400.0 mV		10 Hz up to 300 Hz	0.04 %			
							300 Hz up to 30 kHz	0.03 %			
							30 kHz up to 100 kHz	0.04 %			
							100 kHz up to 300 kHz	0.1 %			
							300 kHz up to 1 MHz	0.55 %			
		0.4 V		up to	1 V		10 Hz up to 300 Hz	0.022 %			
							300 Hz up to 30 kHz	0.016 %			
							30 kHz up to 100 kHz	0.025 %			
							100 kHz up to 300 kHz	0.07 %			
							300 kHz up to 1 MHz	0.47 %			
		1 V		up to	2 V		10 Hz up to 300 Hz	0.015 %			
							300 Hz up to 30 kHz	0.01 %			
							30 kHz up to 100 kHz	0.02 %			
							100 kHz up to 300 kHz	0.05 %			
							300 kHz up to 1 MHz	0.43 %			

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		2 V		up to	4 V		10 Hz up to 300 Hz	0.03 %			
							300 Hz up to 30 kHz	0.02 %			
							30 kHz up to 100 kHz	0.03 %			
							100 kHz up to 300 kHz	0.11 %			
							300 kHz up to 1 MHz	0.55 %			
		4 V		up to	10 V		10 Hz up to 300 Hz	0.02 %			
							300 Hz up to 30 kHz	0.013 %			
							30 kHz up to 100 kHz	0.02 %			
							100 kHz up to 300 kHz	0.086 %			
							300 kHz up to 1 MHz	0.47 %			
		10 V		up to	20 V		10 Hz up to 300 Hz	0.015 %			
							300 Hz up to 30 kHz	0.01 %			
							30 kHz up to 100 kHz	0.015 %			
							100 kHz up to 300 kHz	0.075 %			
							300 kHz up to 1 MHz	0.42 %			
		20 V		up to	40 V		10 Hz up to 300 Hz	0.03 %			
							300 Hz up to 30 kHz	0.019 %			
							30 kHz up to 100 kHz	0.035 %			
							100 kHz up to 300 kHz	0.11 %			
							300 kHz up to 1 MHz	0.15 %			
		40 V		up to	100 V		10 Hz up to 300 Hz	0.022 %			
							300 Hz up to 10 kHz	0.01 %			
							10 kHz up to 30 kHz	0.014 %			
							30 kHz up to 100 kHz	0.03 %			
							100 kHz up to 200 kHz	0.08 %			

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		100 V	up to	200 V	10 Hz up to 300 Hz	0.02 %			
					300 Hz up to 30 kHz	0.01 %			
					30 kHz up to 100 kHz	0.023 %			
					100 kHz up to 200 kHz	0.065 %			
		200 V	up to	750 V	45 Hz up to 300 Hz	0.03 %			
					300 Hz up to 10 kHz	0.025 %			
					10 kHz up to 30 kHz	0.03 %			
					30 kHz up to 100 kHz	0.15 %			
		750 V	up to	1,100 V	45 Hz up to 300 Hz	0.027 %			
					300 Hz up to 10 kHz	0.022 %			
					10 kHz up to 30 kHz	0.025 %			
		1,100 V	up to	5,000 V	40 Hz up to 100 Hz	2 %	Comparison with a standard multimeter with a HV probe		
6	Alternating-current voltage / Voltage sources and calibrators, multifunction calibrators, testing and inspection instruments and their parts, high voltage testers	0.1 mV	up to	12 mV	1 Hz up to 40 Hz	3.5 µV + 0.062 %	Direct measurement by a standard multimeter	KP 8/E	1
					40 Hz up to 1,000 Hz	1.4 µV + 0.048 %			
					1 kHz up to 20 kHz	1.4 µV + 0.048 %			
					20 kHz up to 50 kHz	1.4 µV + 0.13 %			
					50 kHz up to 100 kHz	1.4 µV + 0.6 %			
					100 kHz up to 300 kHz	2.4 µV + 4.7 %			

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		12 mV	up to	120 mV	1 Hz up to 40 Hz	2.8 µV + 0.036 %			
					40 Hz up to 1,000 Hz	1.7 µV + 0.017 %			
					1 kHz up to 20 kHz	1.7 µV + 0.017 %			
					20 kHz up to 50 kHz	1.7 µV + 0.038 %			
					50 kHz up to 100 kHz	1.9 µV + 0.13 %			
					100 kHz up to 300 kHz	12 µV + 0.37 %			
					300 kHz up to 1 MHz	11 µV + 1.2 %			
		120 mV	up to	1.2 V	1 Hz up to 40 Hz	32 µV + 0.028 %			
					40 Hz up to 1,000 Hz	22 µV + 0.01 %			
					1 kHz up to 20 kHz	22 µV + 0.01 %			
					20 kHz up to 50 kHz	22 µV + 0.035 %			
					50 kHz up to 100 kHz	23 µV + 0.093 %			
					100 kHz up to 300 kHz	120 µV + 0.35 %			
					300 kHz up to 1 MHz	80 µV + 1.2 %			
		1.2 V	up to	12 V	1 Hz up to 40 Hz	320 µV + 0.028 %			
					40 Hz up to 1,000 Hz	220 µV + 0.0093%			
					1 kHz up to 20 kHz	220 µV + 0.0093%			
					20 kHz up to 50 kHz	220 µV + 0.035%			
					50 kHz up to 100 kHz	230 µV + 0.093%			
					100 kHz up to 300 kHz	1.2 mV + 0.35 %			
					300 kHz up to 1 MHz	0.77 mV + 1.2 %			
		12 V	up to	120 V	1 Hz up to 40 Hz	3.8 mV + 0.036 %			
					40 Hz up to 1,000 Hz	2.2 mV + 0.024 %			
					1 kHz up to 20 kHz	2.2 mV + 0.024 %			
					20 kHz up to 50 kHz	2.2 mV + 0.041 %			
					50 kHz up to 100 kHz	2.3 mV + 0.14 %			
					100 kHz up to 300 kHz	12 mV + 0.47 %			

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							300 kHz up to 1 MHz	16 mV + 1.2 %			
		120 V		up to	700 V		1 Hz up to 40 Hz	46 mV + 0.047 %			
							40 Hz up to 1,000 Hz	23 mV + 0.047 %			
							1 kHz up to 20 kHz	23 mV + 0.047 %			
							20 kHz up to 50 kHz	23 mV + 0.014 %			
							50 kHz up to 100 kHz	23 mV + 0.24 %			
		1,100 V		up to	5,000 V		40 Hz up to 100 Hz	2 %	Measurement by a standard multimeter with a HV probe		
7	Alternating-current voltage, peak and peak-to-peak value of periodic non-harmonic signals / Sources of non-harmonic and pulse signals, pulse testers								Measurement by a standard oscilloscope[5]	KP 8/E	1
		10 mV		up to	150 mV		20 Hz to 40 MHz Z = 50 Ω	6.4 %			
		10 mV		up to	150 mV		20 Hz to 40 MHz Z = 50 Ω	6.4 %			
		150 mV		up to	5 V		20 Hz to 40 MHz Z = 50 Ω	6.4 %			
		10 mV		up to	150 mV		20 Hz to 10 MHz Z = 1 MΩ	6.4 %			
		150 mV		up to	40 V		20 Hz to 10 MHz Z = 1 MΩ	6.4 %			
		40 V		up to	400 V		20 Hz to 100 kHz Z = 10 MΩ	54 %			
		400 V		up to	750 V		20 Hz to 100 kHz Z = 67 MΩ	5.5 %			
8	Pulse amplitude, peak and peak-to-peak value / Sources of non-harmonic and pulse signals, pulse testers								Measurement by a standard oscilloscope with a voltage probe	KP 8/E	1
		10 mV		up to	150 mV		rise time >3.5 ns Z=1 MΩ	4.4 %			
		150 mV		up to	40 V		rise time >3.5 ns Z=1 MΩ	4.4 %			
		10 mV		up to	150 mV		rise time >140 ns Z=50 kΩ	6.0 %			
		150 mV		up to	5,000 V		rise time >140 ns Z=50 kΩ	6.0 %			
		10 V		up to	150 V		rise time >4.2 ns Z=1 kΩ	6.3 %			

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		150	V	up to	5,000	V	rise time >4.2 ns Z=1 kΩ	6.3 %			
		1	V	up to	15	V	rise time >3.5 ns Z=50 Ω	6.8 %			
		15	V	up to	5,000	V	rise time >3.5 ns Z=50 Ω	6.8 %			
		1	A	up to	15	A	rise time >200 ns	6.8 %	Measurement by a standard oscilloscope with a current shunt		
		15	A	up to	2,500	A	rise time >200 ns	6.8 %			
9	Alternating current, peak and peak-to-peak value / Sources of non-harmonic and pulse signals, pulse testers	100	mA	up to	2	A	50 Hz up to 5 kHz	2.7 %	Measurement by a standard oscilloscope with a shunt or clamp probe	KP 8/E	1
		100	mA	up to	2	A	50 Hz up to 5 kHz	2.7 %			
		2	A	up to	20	A	50 Hz up to 1 kHz	2.7 %			
		2	A	up to	11	A	1 kHz up to 10 kHz	3.0 %			
		2	A	up to	11	A	10 kHz up to 20 kHz	3.2 %			
10	Alternating current / Digital, analogue multimeters and ammeters, testing and inspection instruments and their parts, current probes	1	µA	up to	10	µA	10 Hz up to 1 kHz	0.015 µA	Direct measurement on a standard calibrator	KP 1/E, KP 2/E, KP 3/E	1
							1 kHz up to 5 kHz	0.02 µA			
		10	µA	up to	50	µA	10 Hz up to 1 kHz	0.025 µA			
							1 kHz up to 5 kHz	0.035 µA			
		50	µA	up to	100	µA	10 Hz up to 1 kHz	0.035 µA			
							1 kHz up to 5 kHz	0.06 µA			
		100	µA	up to	200	µA	10 Hz up to 1 kHz	0.035 %			
							1 kHz up to 5 kHz	0.06 %			

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		200 µA	up to	400 µA	10 Hz up to 1 kHz 1 kHz up to 5 kHz	0.071 % 0.083 %			
		400 µA	up to	800 µA	10 Hz up to 1 kHz 1 kHz up to 5 kHz	0.045 % 0.06 %			
		800 µA	up to	2 mA	10 Hz up to 1 kHz 1 kHz up to 5 kHz	0.03 % 0.045 %			
		2 mA	up to	3 mA	10 Hz up to 1 kHz 1 kHz up to 5 kHz	0.075 % 0.085 %			
		3 mA	up to	4 mA	10 Hz up to 1 kHz 1 kHz up to 5 kHz	0.055 % 0.065 %			
		4 mA	up to	8 mA	10 Hz up to 1 kHz 1 kHz up to 5 kHz	0.045 % 0.06 %			
		8 mA	up to	20 mA	10 Hz up to 1 kHz 1 kHz up to 5 kHz	0.033 % 0.045 %			
		20 mA	up to	30 mA	10 Hz up to 1 kHz 1 kHz up to 5 kHz	0.075 % 0.085 %			
		30 mA	up to	40 mA	10 Hz up to 1 kHz 1 kHz up to 5 kHz	0.055 % 0.065 %			
		40 mA	up to	80 mA	10 Hz up to 1 kHz 1 kHz up to 5 kHz	0.045 % 0.055 %			
		80 mA	up to	200 mA	10 Hz up to 1 kHz 1 kHz up to 5 kHz	0.03 % 0.045 %			
		200 mA	up to	300 mA	10 Hz up to 1 kHz 1 kHz up to 5 kHz	0.15 % 2 %			
		300 mA	up to	800 mA	10 Hz up to 1 kHz 1 kHz up to 5 kHz	0.1 % 0.15 %			

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		800 mA	up to	2,000 mA	10 Hz up to 1 kHz	0.06 %			
					1 kHz up to 5 kHz	0.11 %			
		2 A	up to	4 A	10 Hz up to 1 kHz	0.1 %			
					1 kHz up to 5 kHz	0.2 %			
					5 kHz up to 10 kHz	0.5 %			
					10 kHz up to 20 kHz	2 %			
		4 A	up to	6 A	10 Hz up to 1 kHz	0.07 %			
					1 kHz up to 5 kHz	0.14 %			
					5 kHz up to 10 kHz	0.38 %			
					10 kHz up to 20 kHz	1.5 %			
		6 A	up to	11 A	10 Hz up to 1 kHz	0.07 %			
					1 kHz up to 5 kHz	0.13 %			
					5 kHz up to 10 kHz	0.35 %			
					10 kHz up to 20 kHz	1.3 %			
		11 A	up to	20 A	40 Hz up to 400 Hz	0.35 %			
		20 A	up to	30 A	40 Hz up to 300 Hz	0.1 %	Indirect measurement by a standard multimeter with a shunt	KP 1/E, KP 2/E, KP 3/E	1
		30 A	up to	50 A	40 Hz up to 250 Hz	1.2 %			
		50 A	up to	100 A	40 Hz up to 160 Hz	2 %			
	Clamp ammeters and clamp current probes	1 A	up to	5 A	40 Hz up to 300 Hz	0.25 %	Direct measurement on a calibrator	KP 1/E	
		5 A	up to	20 A	40 Hz up to 300 Hz	0.16 %	Measurement of a current simulated by a calibrator with current coil		
		20 A	up to	30 A	40 Hz up to 300 Hz	0.33 %			
		30 A	up to	100 A	40 Hz up to 300 Hz	0.25 %			
		100 A	up to	250 A	40 Hz up to 300 Hz	0.35 %			
		250 A	up to	750 A	40 Hz up to 300 Hz	0.2 %			

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11	Alternating current / Current sources	1 µA		up to	120 µA		10 Hz up to 20 Hz	35 nA + 0.46 %	Direct measurement by a standard multimeter	KP 8/E	1
							20 Hz up to 45 Hz	35 nA + 0.17 %			
							45 Hz up to 100 Hz	35 nA + 0.07 %			
							100 Hz up to 1,000 Hz	35 nA + 0.071 %			
							1 kHz up to 5 kHz	35 nA + 0.061 %			
							5 kHz up to 20 kHz	35 nA + 0.061 %			
		120 µA		up to	1.2 mA		10 Hz up to 20 Hz	230 nA + 0.46 %			
							20 Hz up to 45 Hz	230 nA + 0.17 %			
							45 Hz up to 100 Hz	230 nA + 0.07 %			
							100 Hz up to 1,000 Hz	230 nA + 0.037 %			
							1 kHz up to 5 kHz	230 nA + 0.044 %			
							5 kHz up to 20 kHz	230 nA + 0.044 %			
		1.2 mA		up to	12 mA		10 Hz up to 20 Hz	2.3 µA + 0.46 %			
							20 Hz up to 45 Hz	2.3 µA + 0.17 %			
							45 Hz up to 100 Hz	2.3 µA + 0.07 %			
							100 Hz up to 1,000 Hz	2.3 µA + 0.037 %			
							1 kHz up to 5 kHz	2.3 µA + 0.041 %			
							5 kHz up to 20 kHz	2.3 µA + 0.041 %			
		12 mA		up to	120 mA		10 Hz up to 20 Hz	23 µA + 0.46 %			
							20 Hz up to 45 Hz	23 µA + 0.17 %			
							45 Hz up to 100 Hz	23 µA + 0.07 %			
							100 Hz up to 1,000 Hz	23 µA + 0.037 %			
							1 kHz up to 5 kHz	23 µA + 0.04 %			
							5 kHz up to 20 kHz	23 µA + 0.04 %			

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		120 mA		up to	1 A		10 Hz up to 20 Hz	230 μA + 0.46 %			
							20 Hz up to 45 Hz	230 μA + 0.17 %			
							45 Hz up to 100 Hz	230 μA + 0.07 %			
							100 Hz up to 1,000 Hz	230 μA + 0.12 %			
							1 kHz up to 5 kHz	230 μA + 0.13 %			
							5 kHz up to 20 kHz	230 μA + 0.13 %			
		1.2 A		up to	12 A		40 Hz up to 1 kHz	330 μA + 0.14 %	Indirect measurement by a multimeter with a standard shunt		
							1 kHz up to 20 kHz	41 μA + 0.15 %			
		12 A		up to	20 A		40 Hz up to 1 kHz	420 μA + 0.14 %			
							1 kHz up to 20 kHz	490 μA + 0.15 %			
		20 A		up to	50 A		40 Hz up to 250 Hz	44 μA + 1 %			
		50 A		up to	100 A			48 μA + 2 %			
		1 A		up to	40 A		40 Hz up to 300 Hz	0.5 A + 1.2 %	Measurement by a standard clamp ammeter		
								0.5 A + 1.2 %			
		40 A		up to	400 A		40 Hz up to 150 Hz	5 A + 0.6 %			
		400 A		up to	1,500 A			23 A + 0.6 %			
12	DC resistance / Ohmmeters, testing and inspection instruments and their parts				0 Ω			20 μΩ	Direct measurement of fixed resistance standards	KP 1/E, KP 2/E	1
					0.1 mΩ			6 nΩ			
					1 mΩ			50 nΩ			
					0.01 Ω			0.3 μΩ			
					0.1 Ω			2 μΩ			
					1 Ω			12 μΩ			

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		min.	unit	max.	unit					
				10	Ω		200	μΩ		
				100	Ω		1.2	mΩ		
				1	kΩ		14	mΩ		
				10	kΩ		0.14	Ω		
				100	kΩ		1.7	Ω		
				1	MΩ		30	Ω		
				10	MΩ		60	Ω		
				100	MΩ		9	kΩ		
				1	GΩ		0.4	MΩ		
				10	GΩ		0.4	GΩ		
				100	GΩ		5	GΩ		
				1	TΩ		100	GΩ		
12*	DC resistance / Ohmmeters, testing and inspection instruments and their parts			0	Ω		20	μΩ	Direct measurement of fixed resistance standards	KP 1/E, KP 2/E	1
				0.1	mΩ		10	nΩ		
				1	mΩ		70	nΩ		
				0.01	Ω		0.6	μΩ		
				0.1	Ω		5	μΩ		
				1	Ω		30	μΩ		
				10	Ω		300	μΩ		
				100	Ω		3	mΩ		
				1	kΩ		14	mΩ		
				10	kΩ		0.14	Ω		
				100	kΩ		1.7	Ω		
				1	MΩ		70	Ω		
				10	MΩ		100	Ω		

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min. unit	Nominal range max. unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Work place
			100 MΩ		13 kΩ			
			1 GΩ		0.7 MΩ			
			10 GΩ		0.4 GΩ			
			100 GΩ		7 GΩ			
			1 TΩ		150 GΩ			
13	DC resistance/ Standard resistors, shunts		0.1 mΩ		10 nΩ	Comparison with resistance standard by ratio method – measurement of voltage drop at constant measuring current	KP 6/E	1
			1 mΩ		70 nΩ			
			0.01 Ω		0.4 μΩ			
			0.1 Ω		3 μΩ			
			1 Ω		20 μΩ			
			10 Ω		250 μΩ			
			100 Ω		1.5 mΩ			
			1 kΩ		40 mΩ			
			10 kΩ		0.4 Ω			
			100 kΩ		7 Ω			
			1 MΩ		40 Ω	Comparison with resistance standard by ratio method – measurement of standard and calibrated resistance		
			10 MΩ		700 Ω			
			100 MΩ		12 kΩ			
			1 GΩ		0.6 MΩ			

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13*	DC resistance/ Standard resistors, shunts				0.1 mΩ			20 nΩ	Comparison with resistance standard by ratio method – measurement of voltage drop at constant measuring current	KP 6/E	1
					1 mΩ			70 nΩ			
					0.01 Ω			0.6 μΩ			
					0.1 Ω			5 μΩ			
					1 Ω			30 μΩ			
					10 Ω			400 μΩ			
					100 Ω			4 mΩ			
					1 kΩ			100 mΩ			
					10 kΩ			1.5 Ω			
					100 kΩ			15 Ω			
					1 MΩ			90 Ω	Comparison with resistance standard by ratio method – measurement of standard and calibrated resistance		
					10 MΩ			1.5 kΩ			
					100 MΩ			20 kΩ			
					1 GΩ			1 MΩ			
14*	DC resistance / Resistors, calibrators, simulators, testing and inspection instruments and their parts	0 Ω	up to		12 Ω			78 μΩ + 0.002 %	Direct measurement by a standard multimeter	KP 6/E, KP 8/E	1
		12 Ω	up to		120 Ω			570 μΩ + 0.0016 %			
		0.12 kΩ	up to		1.2 kΩ			540 μΩ + 0.0014 %			

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		1.2 kΩ		up to	12 kΩ			5.4 mΩ+ 0.0014 %			
		12 kΩ		up to	120 kΩ			45 mΩ+ 0.0016 %			
		0.12 MΩ		up to	1.2 MΩ			1.9 Ω + 0.0026 %			
		1.2 MΩ		up to	12 MΩ			110 Ω + 0.0068 %			
		12 MΩ		up to	120 MΩ			1.3 kΩ + 0.058 %			
		0.12 GΩ		up to	1.2 GΩ			0.35 MΩ + 0.57 %			
15	Hf level (voltage) / Hf voltmeter, level meter, Hf power generator, measuring receiver, synthesizer, selective Hf meter, oscillator, polyscope, oscilloscope, spectral and circuit analyzer, radiocommunication tester. (COM, CMS, CTS, …) and radionavigation tester, simulator, imitator (ATC, DME, TACAN, TCAS, VOR-ILS), testing and inspection instruments and their parts	20 dBµV		up to	47 dBµV		0.1 MHz up to 1.4 GHz	15 %	Direct measurement of HF level by standard HF voltmeter for impedance 50 Ω [6]. Indirect measurement of Hf voltage - by measuring Hf power [6]. Indirect comparison with standard Hf wattmeter[6]. Direct measurement of Hf voltage by oscilloscope	KP 11/E, KP 12/E, KP 13/E, KP 18/E	1
		(10 µV		up to	224 µV)		1.4 GHz up to 2.08 GHz	20 %			
		47 dBµV		up to	67 dBµV		10 MHz up to 30 MHz	4 %			
		(224 µV		up to	2.24 mV)		30 MHz up to 2.08 GHz	3.5 %			
		67 dBµV		up to	87 dBµV		10 MHz up to 30 MHz	4.5 %			
		(2.24 mV		up to	22.4 mV)		30 MHz up to 2.08 GHz	3.5 %			
		87 dBµV		up to	117 dBµV		100 kHz up to 300 kHz	17 %			
		(22.4 mV		up to	0.707 V)		300 kHz up to 600 kHz	14 %			
							600 kHz up to 1 MHz	8.5 %			

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					1 MHz up to 1.3 GHz	2.6 %			
					1.3 GHz up to 2.08 GHz	3.2 %			
		117 dBµV	up to	137 dBµV	100 kHz up to 300 kHz	17 %			
		(0.707 mV	up to	7.07 V)	300 kHz up to 600 kHz	14 %			
					600 kHz up to 1 MHz	8.5 %			
					1 MHz up to 1.3 GHz	3.5 %			
					1.3 GHz up to 2.08 GHz	4 %			
		137 dBµV	up to	147 dBµV	100 kHz up to 2.08 GHz	2.9 %			
		(7.07 mV	up to	22.4 V)					
		147 dBµV	up to	152 dBµV	100 kHz up to 2.08 GHz	3.7 %			
		(22.4 mV	up to	39.0 V)					
16*	Hf level (power) / Hf wattmeter, level meter, measuring receiver, selective Hf meter, oscillator, oscilloscope, polyscope, spectral and circuit analyzer, radiocommunication tester (COM, CMS, CTS, …) and radionavigation tester, simulator, imitator (ATC, DME, TACAN, TCAS, VOR-ILS), testing and inspection instruments and their parts						Comparison with a standard measuring receiver in the N(m) connector plane[6]	KP 14/E	1
		1 pW	up to	2.5 pW	10 MHz up to 20 MHz	8.7 %			
		(-90 dBm	up to	-86 dBm)	20 MHz up to 50 MHz	6.5 %			
					50 MHz up to 7 GHz	6.2 %			
					7 GHz up to 15 GHz	6.5 %			
					15 GHz up to 18 GHz	7.3 %			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min. unit		Nominal range max. unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Work place
		2.5 pW (-86 dBm	up to up to	800 pW -61 dBm)	10 MHz up to 20 MHz 20 MHz up to 50 MHz 50 MHz up to 7 GHz 7 GHz up to 15 GHz 15 GHz up to 18 GHz	7.8 % 5.2 % 4.8 % 5.1 % 6.2 %			
		800 pW (-61 dBm	up to up to	2 nW -57 dBm)	10 MHz up to 20 MHz 20 MHz up to 50 MHz 50 MHz up to 7 GHz 7 GHz up to 15 GHz 15 GHz up to 18 GHz	8.5 % 6.2 % 5.5 % 6.0 % 6.6 %	Comparison with standard Hf wattmeter. Measurement by a standard Hf wattmeter	KP 14/E, KP 15/E	
		2 nW (-57 dBm	up to up to	10 μW -20 dBm)	10 MHz up to 20 MHz 20 MHz up to 50 MHz 50 MHz up to 7 GHz 7 GHz up to 15 GHz 15 GHz up to 18 GHz	7.5 % 4.8 % 3.9 % 4.5 % 5.4 %	Comparison with a standard Hf wattmeter. Measurement by a standard Hf wattmeter. N(m) and N(f) connector	KP 14/E, KP 15/E	
		10 μW	up to	100 μW	100 kHz up to 300 kHz	7.3 %	Comparison with a standard measuring receiver Measurement by a standard Hf wattmeter.N(m) and N(f) connector	KP 14/E, KP 15/E	

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		(-20 dBm up to	-10 dBm)	300 kHz up to 1 MHz 1 MHz up to 50 MHz 50 MHz up to 1 GHz 1 GHz up to 2 GHz 2 GHz up to 15 GHz 15 GHz up to 18 GHz	4.0 % 3.6 % 3.0 % 3.7 % 4.8 % 5.1 %			
				18 GHz up to 20 GHz connector: 2.92 mm (m) connector: 3.5 mm (m)	5.5 %	Comparison with a standard Hf wattmeter	KP 14/E	
				20 GHz up to 26.5 GHz connector: 2.92 mm (f) connector: 3.5 mm (f)	4.6 %	Measurement by a standard Hf wattmeter	KP 15/E	
				26.5 GHz up to 40.8 GHz connector: 2.92 mm (m) connector: 2.4 mm (m)	6.0 %	Comparison with a standard Hf wattmeter	KP 14/E	
				26.5 GHz up to 40.8 GHz connector: 2.92 mm (f) connector: 2.4 mm (f)	6.0 %	Measurement by a standard Hf wattmeter	KP 15/E	
		100 µW up to (-10 dBm up to	10 mW +10 dBm)	100 kHz up to 300 kHz 300 kHz up to 1 MHz 1 MHz up to 50 MHz 50 MHz up to 1 GHz	7.7 % 4.1 % 3.4 % 2.6 %	Comparison with a standard Hf wattmeter Direct measurement N(m) and N(f) connector	KP 14/E, KP 15/E	

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				1 GHz up to 2 GHz 2 GHz up to 15 GHz 15 GHz up to 18 GHz	3.7 % 4.6 % 4.9 %			
				18 GHz up to 20 GHz connector: 2.92 mm (m) connector: 3.5 mm (m)	5.3 %	Comparison with a standard Hf wattmeter	KP 14/E	
				20 GHz up to 26.5 GHz connector: 2.92 mm (f) connector: 3.5 mm (f)	4.3 %	Measurement by a standard Hf wattmeter	KP 15/E	
				26.5 GHz up to 40.8 GHz connector: 2.92 mm (m) connector: 2.4 mm (m)	5.6 %	Comparison with a standard Hf wattmeter	KP 14/E	
				26.5 GHz up to 40.8 GHz connector: 2.92 mm (f) connector: 2.4 mm (f)	5.6 %	Measurement by a standard Hf wattmeter	KP 15/E	
		10 mW up to (+10 dBm up to	100 mW +20 dBm)	100 kHz up to 300 kHz 300 kHz up to 1 MHz 1 MHz up to 10 MHz 10 MHz up to 50 MHz 50 MHz up to 1 GHz	6.2 % 6.2 % 5.4 % 4.6 % 4.4 %	Comparison with a standard measuring receiver. Measurement by a standard Hf wattmeter. N(m) and N(f) connector	KP 14/E, KP 15/E	

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						1 GHz up to 15 GHz 15 GHz up to 18 GHz	5.8 % 6.0 %			
						18 GHz up to 20 GHz connector: 2.92 mm (m) connector: 3.5 mm (m)	6.4 %	Comparison with a standard Hf wattmeter	KP 14/E	
						20 GHz up to 26.5 GHz connector: 2.92 mm (f) connector: 3.5 mm (f)	5.5 %	Direct measurement – standard Hf wattmeter	KP 15/E	
						26.5 GHz up to 40.8 GHz connector: 2.92 mm (m) connector: 2.4 mm (m)	6.5 %	Comparison with a standard Hf wattmeter	KP 14/E	
						26.5 GHz up to 40.8 GHz connector: 2.92 mm (f) connector: 2.4 mm (f)	6.5 %	Measurement by a standard Hf wattmeter	KP 15/E	
		100 mW (+20 dBm	up to up to	3 W +33 dBm)		100 kHz up to 300 kHz 300 kHz up to 1 MHz	6.0 % 6.0 %	Comparison with a standard measuring receiver	KP 14/E	
						1 MHz up to 10 MHz 10 MHz up to 500 MHz 500 MHz up to 1 GHz 1 GHz up to 4.2 GHz	5.2 % 4.8 % 5.9 % 6.7 %	Measurement by a standard Hf wattmeter. N(m) and N(f) connector	KP 15/E.	

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		3 W (+33 dBm	up to up to	10 W +40 dBm)	100 kHz up to 300 kHz 300 kHz up to 1 MHz	7.3 % 7.3 %	Comparison with a standard meas. receiver -	KP 14/E	
					1 MHz up to 10 MHz 10 MHz up to 500 MHz 500 MHz up to 1 GHz 1 GHz up to 4.2 GHz	6.6 % 6.3 % 7.1 % 7.6 %	Measurement by a standard Hf wattmeter	KP 15/E	
		10 W (+40 dBm	up to up to	25 W +44 dBm)	100 kHz up to 300 kHz 300 kHz up to 1 MHz 1 MHz up to 10 MHz 10 MHz up to 500 MHz 500 MHz up to 1 GHz 1 GHz up to 2 GHz 2 GHz up to 4.2 GHz	7.4 % 7.4 % 6.7 % 6.2 % 6.9 % 8.0 % 9.5 %	Measurement by a standard Hf wattmeter. N(f) connector	KP 15/E	
		10 W (+40 dBm	up to up to	25 W +44 dBm)	1 GHz up to 2 GHz 2 GHz up to 4.2 GHz	8.0 % 9.5 %	Comparison with a standard Hf wattmeter. N(f) connector	KP 14/E	

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17*	Hf attenuator / Attenuator, attenuation pad, measuring receiver, selective Hf meter, spectral and circuit, analyzer, tester, radiocommunication, (COM, CMS, CTS, …) and radionavigation tester, simulator, imitator (ATC, DME, TACAN, TCAS, VOR-ILS), testing and inspection instruments and their parts	0 dBm	up to		10 dBm		100 kHz up to 400 kHz 400 kHz up to 1.3 GHz 1.3 GHz up to 3 GHz 3 GHz up to 6 GHz	0.048 dB 0.048 dB 0.048 dB 0.059 dB	Indirect measurement power method – N(m) connector; 50 Ω	KP 16/E	1
		10 dBm	up to		20 dBm		100 kHz up to 400 kHz 400 kHz up to 1.3 GHz 1.3 GHz up to 3 GHz 3 GHz up to 6 GHz	0.064 dB 0.067 dB 0.062 dB 0.076 dB			
		20 dBm	up to		30 dBm		100 kHz up to 400 kHz 400 kHz up to 1.3 GHz 1.3 GHz up to 3 GHz 3 GHz up to 6 GHz	0.11 dB 0.11 dB 0.11 dB 0.11 dB			
		30 dBm	up to		40 dBm		100 kHz up to 400 kHz 400 kHz up to 3 GHz 3 GHz up to 6 GHz	0.15 dB 0.15 dB 0.17 dB			
		40 dBm	up to		60 dBm		100 kHz up to 3 GHz 3 GHz up to 6 GHz	0.18 dB 0.19 dB			
		60 dBm	up to		65 dBm		100 kHz up to 6 GHz	0.25 dB			

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		min.	unit	max.	unit							
18*	Modulation swing of frequency modulation / Modulator, modulation generator and synthesizer, modulation meters, measuring receiver, selective Hf meter, spectral and circuit analyzer, tester, radiocommunication (COM, CMS, CTS…) and radio navigation, simulator, imitator (ATC, DME, TACAN, TCAS, VOR-ILS), testing and inspection instruments and their parts					carrier level: (0.01 to 10) V; f_{mod} (30 Hz to 60 kHz) carrier N1: (4.25 to 120) MHz carrier N2: (120 to 550) MHz carrier N3: (0.55 to 1) GHz	N1[7]	N2[7]	N3[7]	Direct measurement or comparison with a modulation analyzer	KP 21/E	
		300 kHz	up to	500 kHz			3.2	3.2	3.2			
		100 kHz	up to	300 kHz			2.2	2.2	2.2			
		10 kHz	up to	100 kHz			1.0	1.0	1.1			
		8 kHz	up to	10 kHz			1.0	1.0	1.2			
		5 kHz	up to	8 kHz			1.1	1.1	1.2			
		4 kHz	up to	5 kHz			1.1	1.1	1.3			
		3 kHz	up to	4 kHz			1.1	1.1	1.4			
		2 kHz	up to	3 kHz			1.1	1.1	1.6			
		1 kHz	up to	2 kHz			1.2	1.2	2.2			
		0.9 kHz	up to	1.0 kHz			1.6	1.6	2.5			
		0.8 kHz	up to	0.9 kHz			1.6	1.6	2.6			
		0.7 kHz	up to	0.8 kHz			1.7	1.7	2.8			

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		0.6	kHz	up to	0.7	kHz			1.7	1.7	3.1			
		0.5	kHz	up to	0.6	kHz			1.8	1.8	3.4			
		0.4	kHz	up to	0.5	kHz			1.9	1.9	4.0			
		0.3	kHz	up to	0.4	kHz			2.0	2.0	4.9			
		0.2	kHz	up to	0.3	kHz			2.4	2.4	3.2			
		0.1	kHz	up to	0.2	kHz			3.4	3.4	3.2			
	modulation swing						carrier level: (0.01 to 10) V	f_{mod} (60 Hz to 100 kHz)	N1	N2	N3			
		300	kHz	up to	500	kHz			3.2	3.2	3.2			
		100	kHz	up to	300	kHz			2.2	2.2	2.2			
		10	kHz	up to	100	kHz			1.0	1.0	1.0			
		8	kHz	up to	10	kHz			1.0	1.0	1.2			
		5	kHz	up to	8	kHz			1.1	1.1	1.2			
		4	kHz	up to	5	kHz			1.1	1.2	1.3			
		3	kHz	up to	4	kHz			1.1	1.2	1.4			
		2	kHz	up to	3	kHz			1.1	1.3	1.6			
		1	kHz	up to	2	kHz			1.2	1.6	2.2			
		0.9	kHz	up to	1.0	kHz			1.6	1.9	2.5			
		0.8	kHz	up to	0.9	kHz			1.6	2.0	2.6			
		0.7	kHz	up to	0.8	kHz			1.7	2.1	2.8			
		0.6	kHz	up to	0.7	kHz			1.7	2.2	3.1			
		0.5	kHz	up to	0.6	kHz			1.8	2.4	3.4			
		0.4	kHz	up to	0.5	kHz			1.9	2.6	4.0			
		0.3	kHz	up to	0.4	kHz			2.0	3.1	4.9			
		0.2	kHz	up to	0.3	kHz			2.4	4.0	6.8			
		0.1	kHz	up to	0.2	kHz			3.4	6.8	13.0			

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19*	Amplitude modulation / Depth of AM	2 %	up to 5 %	carrier level (0.01 to 10) V; f_{mod} 60 Hz to 100 kHz) carrier frequency: f = (55 kHz to 10 MHz) f = (10 MHz to 1 GHz) f_{mod} = (60 kHz to 100 kHz) carrier frequency: f = (55 kHz to 1 GHz)	 3.6 % 3.2 % 4.3 %	Direct measurement or direct comparison with a standard modulation analyzer	KP 21/E	
		5 %	up to 10 %	f_{mod} = (0.03 kHz to 60 kHz) carrier frequency: f = (55 kHz to 10 MHz) f = (10 MHz to 1 GHz) f_{mod} = (60 kHz to 100 kHz) carrier frequency: f = (55 kHz to 1 GHz)	 2.7 % 2.2 % 3.6 %			
		10 %	up to 80 %	f_{mod} = (0.03 kHz to 60 kHz) carrier frequency: f = (55 kHz to 10 MHz) f = (10 MHz to 1 GHz) f_{mod} = (60 kHz to 100 kHz) carrier frequency: f = (55 kHz to 1 GHz)	 2.2 % 1.8 % 3.4 %			
		80 %	up to 100 %	f_{mod} = (0.03 kHz to 60 kHz) carrier frequency: f = (55 kHz to 10 MHz) f = (10 MHz to 1 GHz)	 2.4 % 1.7 %			

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				f_{mod} = (60 kHz to 100 kHz) carrier frequency: f = (55 kHz to 10 MHz) f = (10 MHz to 1 GHz)	 3.3 % 3.3 %			
			20 %	f_{moc} = 30 Hz carrier frequency: f = (55 kHz to 10 MHz)	 0.015 %			
			30 %	f_{moc} = 30 Hz carrier frequency: f = (55 kHz to 10 MHz)	 0.015 %			
			40 %	f_{moc} = 30 Hz carrier frequency: f = (55 kHz to 10 MHz)	 0.015 %			
20*	Capacity / Capacitors and capacity standards, capacity calibrators, capacity decades, testing and inspection instruments and their parts	2 pF up to	5 pF	1 kHz up to 2 kHz 2 kHz up to 5 kHz 5 kHz up to 10 kHz 10 kHz up to 20 kHz 20 kHz up 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 up to	10 pF	1 kHz up to 2 kHz 2 kHz up to 5 kHz 5 kHz up to 10 kHz 10 kHz up to 20 kHz 20 kHz up to 100 kHz 100 kHz up to 1 MHz	3.5 % 1.6 % 0.6 % 0.4 % 0.3 % 0.4 %			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min. unit		Nominal range max. unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Work place
		10 pF	up to	100 pF	1 kHz up to 2 kHz	1.9 %			
					2 kHz up to 5 kHz	0.4 %			
					5 kHz up to 10 kHz	0.35 %			
					10 kHz up to 20 kHz	0.2 %			
					20 kHz up to 100 kHz	0.15 %			
					100 kHz up to 400 kHz	0.2 %			
					400 kHz up to 1 MHz	0.4 %			
		100 pF	up to	1,000 pF	0.5 kHz up to 2 kHz	0.55 %			
					2 kHz up to 5 kHz	0.15 %			
					5 kHz up to 100 kHz	0.08 %			
					100 kHz up to 400 kHz	0.17 %			
					400 kHz up to 1 MHz	0.37 %			
		1 nF	up to	10 nF	100 Hz up to 500 Hz	0.8 %			
					500 Hz up to 2 kHz	0.12 %			
					2 kHz up to 100 kHz	0.08 %			
					100 kHz up to 400 kHz	0.17 %			
					400 kHz up to 1 MHz	0.37 %			
		10 nF	up to	100 nF	100 Hz up to 500 Hz	0.2 %			
					500 Hz up to 100 kHz	0.1 %			
					100 kHz up to 400 kHz	0.25 %			
					400 kHz up to 1 MHz	0.73 %			
		100 nF	up to	1,000 nF	100 Hz up to 500 Hz	0.15 %			
					500 Hz up to 20 kHz	0.08 %			
					20 kHz up to 100 kHz	0.15 %			
					100 kHz up to 400 kHz	0.85 %			
		1 μF	up to	10 μF	100 Hz up to 500 Hz	0.13 %			
					500 Hz up to 10 kHz	0.08 %			
					10 kHz up to 20 kHz	0.13 %			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min. unit	Nominal range max. unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Work place
				20 kHz up to 50 kHz	0.3 %			
				50 kHz up to 100 kHz	0.7 %			
		10 µF up to	100 µF	50 Hz up to 100 Hz	0.25 %			
				100 Hz up to 500 Hz	0.15 %			
				500 Hz up to 1 kHz	0.1 %			
				1 kHz up to 5 kHz	0.2 %			
				5 kHz up to 10 kHz	0.4 %			
21*	Capacity / RLCG bridges and meters, capacity standards, testing, testing and inspection instruments and their parts		1 pF	1 kHz	1.5 %	Direct measurement on capacity standards. Comparison with a standard capacitor	KP 31/E, KP 32/E	1
				1 kHz up to 100 kHz	1.6 %			
				100 kHz up to 1 MHz	2 %			
			10 pF	1 kHz	0.05 %			
				1 kHz up to 100 kHz	0.2 %			
				100 kHz up to 1 MHz	0.2 %			
			100 pF	1 kHz	0.01 %			
				1 kHz up to 100 kHz	0.1 %			
				100 kHz up to 1 MHz	0.5 %			
			1,000 pF	100 Hz up to 1 kHz	0.05 %			
				1 kHz	0.02 %			
				1 kHz up to 100 kHz	0.05 %			
				100 kHz up to 1 MHz	0.1 %			

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			10 nF	100 Hz up to 1 kHz	0.05 %			
				1 kHz	0.01 %			
				1 kHz up to 100 kHz	0.05 %			
				100 kHz up to 1 MHz	0.1 %			
			100 nF	100 Hz up to 1 kHz	0.05 %			
				1 kHz	0.01 %			
				1 kHz up to 100 kHz	0.1 %			
			1 µF	100 Hz up to 1 kHz	0.15 %			
				1 kHz	0.1 %			
				1 kHz up to 100 kHz	0.6 %			
			10 µF	100 Hz up to 1 kHz	0.15 %			
				1 kHz	0.1 %			
				1 kHz up to 50 kHz	0.5 %			
			100 µF	100 Hz up to 1 kHz	0.1 %			
				1 kHz	0.1 %			
				1 kHz up to 10 kHz	0.6 %			
22*	Inductance / Inductors and inductance standards, inductance calibrators, inductance decades, testing and inspection instruments and their parts	1 µH up to	2 µH	1 kHz up to 2 kHz	10 %	Measurement by standard RLCG bridge - two-terminal or three-terminal connection	KP 32/E	1
				2 kHz up to 4 kHz	4.1 %			
				4 kHz up to 8 kHz	2 %			
				8 kHz up to 10 kHz	1 %			
				10 kHz up to 50 kHz	0.83 %			
				50 kHz up to 100 kHz	0.3 %			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Work place
		min.	unit		max. unit					
		2 µH		up to	3 µH	1 kHz up to 2 kHz	5 %			
						2 kHz up to 4 kHz	2.1 %			
						4 kHz up to 8 kHz	1 %			
						8 kHz up to 10 kHz	0.6 %			
						10 kHz up to 50 kHz	0.5 %			
						50 kHz up to 100 kHz	0.2 %			
		3 µH		up to	5 µH	1 kHz up to 2 kHz	3.2 %			
						2 kHz up to 4 kHz	1.4 %			
						4 kHz up to 8 kHz	0.69 %			
						8 kHz up to 10 kHz	0.38 %			
						10 kHz up to 50 kHz	0.33 %			
						50 kHz up to 100 kHz	0.18 %			
		5 µH		up to	10 µH	1 kHz up to 2 kHz	2 %			
						2 kHz up to 4 kHz	0.86 %			
						4 kHz up to 8 kHz	0.44 %			
						8 kHz up to 10 kHz	0.27 %			
						10 kHz up to 50 kHz	0.19 %			
						50 kHz up to 100 kHz	0.15 %			
		10 µH		up to	20 µH	1 kHz up to 2 kHz	1 %			
						2 kHz up to 4 kHz	0.46 %			
						4 kHz up to 10 kHz	0.25 %			
						10 kHz up to 100 kHz	0.14 %			
		20 µH		up to	50 µH	500 Hz up to 1 kHz	1.3 %			
						1 kHz up to 2 kHz	0.53 %			
						2 kHz up to 4 kHz	0.26 %			
						4 kHz up to 10 kHz	0.16 %			
						10 kHz up to 100 kHz	0.14 %			

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		50 µH		up to	200 µH		500 Hz up to 1 kHz	0.55 %			
							1 kHz up to 4 kHz	0.25 %			
							4 kHz up to 10 kHz	0.11 %			
							10 kHz up to 100 kHz	0.14 %			
		200 µH		up to	1 mH		100 Hz up to 200 Hz	1.9 %			
							200 Hz up to 500 Hz	0.6 %			
							500 Hz up to 1 kHz	0.2 %			
							1 kHz up to 4 kHz	0.11 %			
							4 kHz up to 10 kHz	0.07 %			
							10 kHz up to 100 kHz	0.13 %			
		1 mH		up to	1 H		100 Hz up to 200 Hz	0.48 %			
							200 Hz up to 500 Hz	0.2 %			
							500 Hz up to 1 kHz	0.13 %			
							1 kHz up to 20 kHz	0.09 %			
		1 H		up to	20 H		100 Hz up to 200 Hz	0.18 %			
							200 Hz up to 1 kHz	0.14 %			
		20 H		up to	100 H		100 Hz up to 200 Hz	0.2 %			
							200 Hz up to 1 kHz	0.16 %			
23*	Inductance / RLCG bridges, meters, testing and inspection instruments and their parts				1 µH		1 kHz	4 %	Direct measurement on inductance standards. Two-terminal or three-terminal connection	KP 31/E	1
					2 µH		1 kHz	1 %			
							10 kHz	0.5 %			
							100 kHz	0.3 %			
					20 µH		1 kHz	0.2 %			
					100 µH			0.25 %			
					200 µH			1 %			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min. unit	Nominal range max. unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Work place
			500 µH		0.1 %			
			1 mH		0.1 %			
			2 mH		0.2 %			
			5 mH		0.2 %			
			10 mH		025 %			
			20 mH		0.5 %			
			50 mH		0.1 %			
			100 mH		0.6 %			
			200 mH		0.1 %			
			1 H		0.05 %			
			10 H		0.1 %			
24*	AC resistance, impedance / RLCG bridges, meters, testing and inspection instruments and their parts		0.1 Ω	0 Hz	0.017 %	Direct measurement on impedance standards. Four-terminal connection	KP 31/E	1
				0 Hz up to 100 Hz	0.21 %			
				100 Hz up to 1 kHz	0.32 %			
				1 kHz up to 20 kHz	1.8 %			
				20 kHz up to 100 kHz	5.7 %			
				100 kHz	3.2 %			
			1 Ω	0 Hz	0.005 %			
				0 Hz up to 1 kHz	0.06 %			
				1 kHz up to 100 kHz	0.26 %			
				100 kHz up to 1 MHz	0.92 %			
				1 MHz	0.53 %			
			10 Ω	0 Hz	0.005 %			
				0 Hz up to 1 kHz	0.03 %			
				1 kHz up to 100 kHz	0.04 %			

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						100 kHz	0.06 %			
						100 kHz up to 1 MHz	0.15 %			
						1 MHz	0.1 %			
				100	Ω	0 Hz	0.005 %			
						0 Hz up to 100 kHz	0.03 %			
						100 kHz	0.06 %			
						100 kHz up to 1 MHz	0.58 %			
						1 MHz up to 10 MHz	0.5 %			
						10 MHz 50 MHz	12 %			
				1	kΩ	0 Hz	0.005 %			
						0 Hz up to 1 kHz	0.02 %			
						1 kHz up to 100 kHz	0.05 %			
						100 kHz up to 2 MHz	0.11 %			
				10	kΩ	0 Hz	0.17 %			
						0 Hz up to 1 kHz	0.02 %			
						1 kHz up to 100 kHz	0.06 %			
						100 kHz up to 2 MHz	1.4 %			
						2 MHz	0.52 %			
				100	kΩ	0 Hz	0.017 %			
						0 Hz up to 1 kHz	0.02 %			
						1 kHz up to 100 kHz	0.25 %			
						100 kHz	0.09 %			
						100 kHz up to 1 MHz	16 %			
						1 MHz	0.31 %			

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					1 MΩ		0 Hz	0.01 %			
							0 Hz up to 1 kHz	0.06 %			
							1 kHz up to 20 kHz	0.26 %			
							20 kHz up to 200 kHz	2.5 %			
							200 kHz	1.9 %			
					10 MΩ		0 Hz	0.06 %			
							0 Hz up to 100 Hz	0.44 %			
							100 Hz up to 400 Hz	0.5 %			
							400 Hz up to 1 kHz	0.9 %			
					100 MΩ		100 Hz	0.15 %			
							100 Hz up to 1 kHz	0.32 %			
							1 kHz up to 20 kHz	0.9 %			
25*	AC resistance, impedance / Impedance standards and calibrators, testing and inspection instruments and their parts	0.1 mΩ		up to	1 Ω		20 Hz up to 50 Hz	0.015 Ω	Direct measurement using a standard RLC bridge	KP 32/E	1
							50 Hz up to 100 Hz	0.006 Ω			
							100 Hz up to 500 Hz	0.003 Ω			
							500 Hz up to 1 kHz	0.002 Ω			
							1 kHz up to 10 kHz	0.002 Ω			
							10 kHz up to 100 kHz	0.002 Ω			
							100 kHz up to 500 kHz	0.006 Ω			
							500 kHz up to 1 MHz	0.01 Ω			
		1 Ω		up to	10 Ω		20 Hz up to 50 Hz	1.4 %			
							50 Hz up to 100 Hz	0.61 %			
							100 Hz up to 500 Hz	0.35 %			
							500 Hz up to 1 kHz	0.15 %			

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							1 kHz up to 10 kHz	0.12 %			
							10 kHz up to 100 kHz	0.19 %			
							100 kHz up to 500 kHz	0.6 %			
							500 kHz up to 1 MHz	1 %			
		10 Ω		up to	100 Ω		20 Hz up to 50 Hz	0.58 %			
							50 Hz up to 100 Hz	0.27 %			
							100 Hz up to 500 Hz	0.16 %			
							500 Hz up to 10 kHz	0.08 %			
							10 kHz up to 100 kHz	0.11 %			
							100 kHz up to 500 kHz	0.25 %			
							500 kHz up to 1 MHz	0.41 %			
					100 Ω		2 MHz	0.3 %			
		100 Ω		up to	1 kΩ		20 Hz up to 50 Hz	0.5 %			
							50 Hz up to 100 Hz	0.25 %			
							100 Hz up to 500 Hz	0.15 %			
							500 Hz up to 10 kHz	0.07 %			
							10 kHz up to 100 kHz	0.08 %			
							100 kHz up to 500 kHz	0.21 %			
							500 kHz up to 1 MHz	0.4 %			
					1 kΩ		2 MHz	0.2 %			
		1 kΩ		up to	10 kΩ		20 Hz up to 50 Hz	0.51 %			
							50 Hz up to 100 Hz	0.25 %			
							100 Hz up to 500 Hz	0.18 %			
							500 Hz up to 10 kHz	0.13 %			
							10 kHz up to 100 kHz	0.18 %			
							100 kHz up to 500 kHz	0.22 %			
							500 kHz up to 1 MHz	0.4 %			

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					10 kΩ		2 MHz	0.3 %			
		10 kΩ		up to	100 kΩ		20 Hz up to 50 Hz	0.51 %			
							50 Hz up to 100 Hz	0.25 %			
							100 Hz up to 500 Hz	0.18 %			
							500 Hz up to 10 kHz	0.13 %			
							10 kHz up to 100 kHz	0.18 %			
							100 kHz up to 500 kHz	0.22 %			
							500 kHz up to 1 MHz	0.4 %			
		0.1 MΩ		up to	1 MΩ		20 Hz up to 50 Hz	2.3 %			
							50 Hz up to 100 Hz	1 %			
							100 Hz up to 500 Hz	0.6 %			
							500 Hz up to 1 kHz	0.24 %			
							1 kHz up to 10 kHz	0.18 %			
							10 kHz up to 100 kHz	0.31 %			
							100 kHz up to 500 kHz	0.9 %			
							500 kHz up to 1 MHz	1.6 %			
		1 MΩ		up to	2 MΩ		20 Hz up to 50 Hz	4.2 %			
							50 Hz up to 100 Hz	1.8 %			
							100 Hz up to 500 Hz	1 %			
							500 Hz up to 1 kHz	0.4 %			
							1 kHz up to 10 kHz	0.3 %			
							10 kHz up to 100 kHz	0.48 %			
							100 kHz up to 500 kHz	1.6 %			
							500 kHz up to 1 MHz	2.9 %			
		2 MΩ		up to	5 MΩ		20 Hz up to 50 Hz	9.6 %			
							50 Hz up to 100 Hz	4.1 %			
							100 Hz up to 500 Hz	2.3 %			
							500 Hz up to 1 kHz	0.83 %			

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							1 kHz up to 10 kHz	0.65 %			
							10 kHz up to 100 kHz	1.1 %			
							100 kHz up to 500 kHz	3.5 %			
							500 kHz up to 1 MHz	6.6 %			
		5	MΩ	up to	10	MΩ	100 Hz up to 500 Hz	4.5 %			
							500 Hz up to 1 kHz	1.6 %			
							1 kHz up to 10 kHz	1.3 %			
							10 kHz up to 100 kHz	2.1 %			
		10	MΩ	up to	20	MΩ	100 Hz up to 500 Hz	8.7 %			
							500 Hz up to 1 kHz	3.1 %			
							1 kHz up to 10 kHz	2.4 %			
							10 kHz up to 100 kHz	4 %			
		20	MΩ	up to	50	MΩ	500 Hz up to 1 kHz	7.7 %			
							1 kHz up to 10 kHz	5.9 %			
							10 kHz up to 50 kHz	7.1 %			
		50	MΩ	up to	100	MΩ	1 kHz up to 2 kHz	12 %			
							2 kHz up to 10 kHz	10 %			
26*	Insulation resistance / Inspection instruments								Direct measurement on a calibrator of inspection instruments or on standard resistors	KP 5/E	1
		10	kΩ	up to	30	kΩ		0.2 %			
		30	kΩ	up to	5	MΩ		0.12 %			
		5	MΩ	up to	500	MΩ		1.2 %			
		500	MΩ	up to	10	GΩ		1.4 %			

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	Transition resistance / Inspection instruments								Direct measurement on a calibrator of inspection instruments or on standard resistors		
		0.02 Ω		up to	0.02 Ω			0.0013 %			
		0.2 Ω		up to	0.3 Ω			0.013 %			
		0.3 Ω		up to	0.8 Ω			0.035 %			
		0.8 Ω		up to	4 Ω			0.075 %			
		4 Ω		up to	20 Ω			0.11 %			
		100 Ω		up to	100 Ω			0.007 %			
		1,000 Ω		up to	1,000 Ω			0.031 %			
	Earth resistance, protective conductor resistance / Inspection instruments								Direct measurement on a calibrator of inspection instruments or on standard resistors		
		0.05 Ω		up to	0.6 Ω			0.01 %			
		1 Ω		up to	1 Ω			0.012 %			
		5 Ω		up to	5 Ω			0.034 %			
		10 Ω		up to	10 Ω			0.063 %			
		100 Ω		up to	100 Ω			0.58 %			
		1,000 Ω		up to	1,000 Ω			5.8 %			
	Tripping loop and network impedance / Inspection instruments								Direct measurement on a calibrator of inspection instruments		
		0.5 Ω		up to	1.5 Ω			0.01 %			
		5 Ω		up to	5 Ω			0.04 %			
		10 Ω		up to	10 Ω			0.03 %			
		100 Ω		up to	100 Ω			0.11 %			
		1,000 Ω		up to	1,000 Ω			1.1 %			
	Tripping current / Inspection instruments								Direct measurement on a calibrator of inspection instruments		
		3 mA		up to	3 A		For tripping times 190 ms.	1.7 %			

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	Tripping time of residual current circuit breakers/ Inspection instruments	20 ms		up to	100 ms			0.41 ms	Direct measurement on a calibrator of inspection instruments		
		100 ms		up to	150 ms			0.41 %			
		150 ms		up to	250 ms			0.34 %			
		250 ms		up to	5 s			0.29 %			
	Direct leakage current / Inspection instruments	50 µA		up to	50 µA			0.06 mA	Indirect measurement by a resistance decade and standard multimeter		
		50 µA		up to	500 µA			0.2 mA			
		500 µA		up to	1.2 mA			0.002 mA			
		1.2 mA		up to	5.0 mA			0.007 mA			
		5 mA		up to	12 mA			0.011 mA			
		12 mA		up to	20 mA			0.031 mA			
		20 mA		up to	50 mA			0.045 mA			
	Substitute leakage current / Inspection instruments	50 µA		up to	50 µA			0.1 µA	Indirect measurement by a resistance decade and standard multimeter		
		50 µA		up to	500 µA			0.2 µA			
		500 µA		up to	5 mA			4 µA			
		5 mA		up to	10 mA			0.15 %			
		10 mA		up to	20 mA			0.2 %			
		20 mA		up to	40 mA			0.4 %			
	Differential leakage current / Inspection instruments	50 µA		up to	40 mA			0.8 %	Indirect measurement by a resistance decade and standard multimeter		

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27*	Non-linear distortion THD, THF:/ Non-linear distortion meters, distortion analyzers, signal analyzers, radiocommunication testers, testing and inspection instruments and their parts						Fundamental harmonic level	Fundamental harmonic frequency:		Direct measurement on a standard distortion generator	KP 22/E	1
		0.1 %	up to		0.3 %		U = (7 to 20) V_{P-P}[4)]	20 Hz to 50 kHz	0.039 % (abs.) + 2.0 %			
								50 kHz to 100 kHz	0.039 % (abs.) + 2.3 %			
								100 kHz to 200 kHz	0.039 % (abs.) + 2.9 %			
		0.3 %	up to		1 %			20 Hz to 1 kHz	0.033 % (abs.) + 7.0 %			
								1 kHz to 50 kHz	0.033 % (abs.) + 4.1 %			
								50 kHz to 100 kHz	0.033 % (abs.) + 5.5 %			
								100 kHz to 200 kHz	0.03 % (abs.) + 7.0 %			
		1 %	up to		10 %			20 Hz to 50 kHz	0.01 % (abs.) + 18 %			
								50 kHz to 100 kHz	0.012 % (abs.) + 14 %			
								100 kHz to 200 kHz	0.010 % (abs.) + 20 %			
		10 %	up to		40 %		U = 20 V_{P-P}	20 Hz to 1 kHz	0.10 % (abs.) + 20 %			
								1 kHz to 50 kHz	0.15 % (abs.) + 20 %			
								50 kHz to 100 kHz	0.020 % (abs.) + 20 %			
					0 %			20 Hz to 50 kHz	0.010 % (abs.)[3)]			
								50 kHz	0.031 % (abs.)[3)]			
								100 kHz	0.054 % (abs.)[3)]			
					0.1 %			20 Hz	0.012 % (abs.)[3)]			
								50 Hz	0.012 % (abs.)[3)]			
								100 Hz	0.012 % (abs.)[3)]			
								1 kHz	0.012 % (abs.)[3)]			

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Calibration Laboratory
Sokolovská 573, 686 01 Uherské Hradiště

Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min. unit	Nominal range max. unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Work place
				5 kHz	0.012 % (abs.)[3)]			
				10 kHz	0.012 % (abs.)[3)]			
				50 kHz	0.026 % (abs.)[3)]			
				100 kHz	0.026 % (abs.)[3)]			
			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.)[3)]			
				100 kHz	0.025 % (abs.)[3)]			
			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.)			
28*	Non-linear distortion THF / Signal generators, sources, oscillators, radiocommunication testers, testing and inspection instruments and their parts			Fundamental harmonic Bandwidth 150 mV to 300 V measurement:		Direct measurement using a standard distortion analyzer	KP 22/E	1
		0 %	up to 0.1 %	10 Hz to 1 kHz (BW 80 kHz)	0.01 % (abs.) + 29.0 %			
				10 Hz to 1 kHz (BW 80 kHz)	0.01 % (abs.) + 30.0 %			
				1 kHz to 10 kHz (BW 80 kHz)	0.01 % (abs.) + 36.0 %			

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Sokolovská 573, 686 01 Uherské Hradiště

Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Work place
		0.1 %		up to	0.3 %		10 Hz to 10 kHz (BW 80 kHz)	18.0 %			
							10 kHz to 20 kHz (BW 80 kHz)	19.0 %			
							20 kHz to 50 kHz (BW 80 kHz)	39.0 %			
		0.3 %		up to	1 %		10 Hz to 20 kHz (BW 80 kHz)	16.0 %			
							20 kHz to 50 kHz (BW 500 kHz)	27.0 %			
							50 kHz to 100 kHz (BW 500 kHz)	30.0 %			
		1 %		up to	3 %		10 Hz to 20 kHz (BW 80 kHz)	15.0 %			
							20 kHz to 50 kHz (BW 500 kHz)	22.0 %			
							50 kHz to 100 kHz (BW 500 kHz)	23.0 %			
		3 %		up to	10 %		10 Hz to 10 kHz (BW 80 kHz)	14.0 %			
							10 kHz to 20 kHz (BW 80 kHz)	15.0 %			
							20 kHz to 100 kHz (BW 500 kHz)	21.0 %			
		10 %		up to	40 %		20 Hz to 20 kHz (BW 80 kHz)	14.0 %			
							20 kHz to 100 kHz (BW 500 kHz)	20.0 %			

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2 The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02, part of CMC, and it is the lowest value of the respective uncertainty. If not stated otherwise, its coverage probability is approx. 95 %. If not stated otherwise, the uncertainty values stated without a unit are relative to the value measured. If the calibration is carried out outside the laboratory premises, the measurement uncertainty may be affected.

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.

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CMC for the field of measured quantity: Optical quantities

Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the meas. quantity		Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Workplace
1*	UV-VIS-NIR absorbance / Spectrometers and photometers, Elisa readers, filters and CRM for absorbance, stray light and spectral resolution						wavelength:			Direct measurement of standard filters and CRM	KP 1/S	1
		0		up to	0.3		235 nm	to 260 nm	0.0030 (abs.)			
							260 nm	to 395 nm	0.0025 (abs.)			
		0.3		up to	0.6		235 nm	to 395 nm	0.0045 (abs.)			
								302 nm	0.0030 (abs.)			
								313 nm	0.0036 (abs.)			
		0.6		up to	1.0		235 nm	to 395 nm	0.0050 (abs.)			
		1.0		up to	1.6		235 nm	to 395 nm	0.0055 (abs.)			
		1.6		up to	5.0		190 nm	to 390 nm	0.010 (abs.)			
		0		up to	0.4		396 nm	to 401 nm	0.0060 (abs.)			
		0.4		up to	0.8				0.0030 (abs.)			
		0.8		up to	1.2				0.013 (abs.)			
		1.2		up to	1.6				0.026 (abs.)			
		1.6		up to	2.8				0.030 (abs.)			
		0		up to	0.4		401 nm	to 406 nm	0.0030 (abs.)			
		0.4		up to	0.8				0.0030 (abs.)			
		0.8		up to	1.2				0.0050 (abs.)			
		1.2		up to	1.6				0.0090 (abs.)			
		1.6		up to	2.8				0.010 (abs.)			

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Calibration Laboratory
Sokolovská 573, 686 01 Uherské Hradiště

Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the meas. quantity		Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Workplace
		min.	unit	max.	unit						
		0	up to	0.4		406 nm	to 420 nm	0.0030 (abs.)			
		0.4	up to	0.8				0.0030 (abs.)			
		0.8	up to	1.2				0.0050 (abs.)			
		1.2	up to	1.6				0.0060 (abs.)			
		1.6	up to	2.8				0.0080 (abs.)			
		0	up to	0.35		420 nm	to 460 nm	0.0035 (abs.)			
		0.35	up to	0.7				0.0040 (abs.)			
		0.7	up to	1.0				0.0050 (abs.)			
		1.0	up to	1.2				0.0065 (abs.)			
		1.2	up to	2.2				0.0080 (abs.)			
		0	up to	0.35		460 nm	to 600 nm	0.0030 (abs.)			
		0.35	up to	0.7				0.0030 (abs.)			
		0.7	up to	1.0				0.0040 (abs.)			
		1.0	up to	1.2				0.0050 (abs.)			
		1.2	up to	2.0				0.0060 (abs.)			
		0	up to	0.35		600 nm	to 860 nm	0.0035 (abs.)			
		0.35	up to	0.7				0.0030 (abs.)			
		0.7	up to	1.0				0.0045 (abs.)			
		1.0	up to	1.2				0.0050 (abs.)			
		1.2	up to	1.8				0.0065 (abs.)			
		0	up to	0.3		860 nm	to 950 nm	0.0035 (abs.)			
		0.3	up to	0.65				0.0030 (abs.)			
		0.65	up to	0.8				0.0040 (abs.)			
		0.8	up to	1.0				0.0040 (abs.)			
		1.0	up to	1.4				0.0050 (abs.)			

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Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the meas. quantity		Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Workplace
		0		up to	0.3		950 nm	to 1,000 nm	0.0035 (abs.)			
		0.3		up to	0.8				0.0055 (abs.)			
		0.8		up to	1.0				0.0040 (abs.)			
		1.0		up to	14				0.0050 (abs.)			
		0		up to	0.35		900 nm	to 1,200 nm	0.0030 (abs.)			
		0.35		up to	0.8				0.0060 (abs.)			
		0.8		up to	1.2				0.0070 (abs.)			
2*	Absorbance ratio / UV spectrometers	1.0		up 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 / Spectrometers and photometers, filters for controlling wavelengths and spectral resolution	200 nm		up to	650 nm				0.035 nm	Direct measurement of standard filters and CRM	KP 1/S	1
		650 nm		up to	900 nm				0.060 nm			
		900 nm		up to	2,600 nm				0.5 nm			
4*	Wave number in the IR spectrum / IR and FTIR spectrometers	10,000 cm^{-1}		up to	4,000 cm^{-1}				0.60 cm^{-1}	Direct measurement of standard filters	KP 3/S	1, 3
		4,000 cm^{-1}		up to	400 cm^{-1}				0.30 cm^{-1}			
5*	Integral transmittance / Fade meters	18 %		up to	97 %				0.7 %	Direct measurement of standard filters	KP 1/S	1
6*	Colorimetric coordinates / Spectrophotometers for colour measurement						Lighting type D65, C	Viewing angle 2 °, 10 °		Direct measurement of colorimetric standards	KP 5/S	1
	L* =	5		up to	99				0.6 (abs.)			
	a* =	-20		up to	85				0.4 (abs.)			
	b* =	-20		up to	85				0.4 (abs.)			

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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 min.	unit		max.	unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification [3]	Work place
1	Frequency / Counter, frequency meter, measuring receiver, oscilloscope, polyscope, spectral, circuit modulation and frequency analyzer, radiocommunication tester (COM, CMS, CTS, …) and radio navigation, simulator, imitator (ATC, DME, TACAN, TCAS VOR-ILS), testing and inspection instruments and their parts	0.01 Hz	up to	0.1 Hz				$3.2 \cdot 10^{-9}$	Direct measurement on a standard generator	KP 1/F, KP 2/F, KP 18/E	1
		0.1 Hz	up to	1 Hz				$4.9 \cdot 10^{-10}$			
		1 Hz	up to	100 Hz				$2.2 \cdot 10^{-10}$			
		100 Hz	up 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 / Counter, frequency meter, measuring receiver, oscilloscope, polyscope, spectral, circuit modulation and frequency analyzer, radiocommunication tester (COM, CMS, CTS,…) and radio navigation, simulator, imitator (ATC, DME, TACAN, TCAS VOR-ILS), testing and inspection instruments and their parts	0.1 Hz	up to	30 MHz				$1.2 \cdot 10^{-7}$	Direct measurement on a standard generator	KP 1/F, KP 2/F, KP 18/E	1
		30 MHz	up to	2.08 GHz				$6.0 \cdot 10^{-8}$			

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Calibration Laboratory
Sokolovská 573, 686 01 Uherské Hradiště

Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification [3]	Work place
3*	Frequency / Reference oscillator, frequency standard, hf and lf generator and synthesizer, function and pulse generator, frequency converter and transducer, wobbling and measurement oscillator, spectral, circuit, modulation and frequency analyzer, radiocommunication tester (COM, CMS, CTS,…) and radionavigation tester, simulator, imitator (ATC, DME TACAN, TCAS, VOR-ILS), testing and inspection instruments and their parts						Sine signal U = 3.57 V		Direct frequency measurement using a standard oscilloscope. Direct frequency measurement with a standard counter	KP 2/F, KP 3/F, KP 4/F	
		0.1 Hz	up to		1 Hz			$6.5 \cdot 10^{-6}$			
		1 Hz	up to		10 Hz			$2.1 \cdot 10^{-7}$			
		10 Hz	up to		100 Hz			$1.4 \cdot 10^{-8}$			
		100 Hz	up to		1 kHz			$3.1 \cdot 10^{-9}$			
		1 kHz	up to		10 kHz			$4.1 \cdot 10^{-10}$			
		10 kHz	up to		500 MHz			$1.4 \cdot 10^{-10}$			
		500 MHz	up to		6 GHz			$1.2 \cdot 10^{-10}$			
		6 GHz	up to		15 GHz		Sine signal U = 1.0 V	$(1.0 \cdot 10^{-10} + 2.8)$Hz			
		15 GHz	up to		46 GHz			$(1.0 \cdot 10^{-10} + 3.7)$Hz			
		0.01 Hz	up to		0.1 Hz		Rectangle signal U = 5.0 V	$1.3 \cdot 10^{-10}$			
		0.1 Hz	up to		10 Hz			$1.2 \cdot 10^{-10}$			
		10 Hz	up to		350 MHz			$1.1 \cdot 10^{-10}$			
		0.1 Hz	up to		10 Hz			$1.2 \cdot 10^{-10}$			
		10 Hz	up to		350 MHz			$1.1 \cdot 10^{-10}$			

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Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification [3]	Work place
		0.1 Hz		up to	10 Hz			$1.2 \cdot 10^{-10}$			
		10 Hz		up to	350 MHz			$1.1 \cdot 10^{-10}$			
		0.1 Hz		up to	10 Hz			$1.2 \cdot 10^{-10}$			
		10 Hz		up to	350 MHz			$1.1 \cdot 10^{-10}$			
		0.1 Hz		up to	10 Hz			$1.2 \cdot 10^{-10}$			
		10 Hz		up to	350 MHz			$1.1 \cdot 10^{-10}$			
		0.1 Hz		up to	10 Hz			$1.2 \cdot 10^{-10}$			
		10 Hz		up to	350 MHz			$1.1 \cdot 10^{-10}$			
4*	Oscilloscope bandwidth								Indirect measurement using a standard generator and hf voltmeter	KP 18/E	1
		100 kHz		up to	1 GHz		(for drop -3 dB)	13 %			
		1 GHz		up to	3 GHz			17 %			
		3 GHz		up to	6 GHz			20 %			
5*	Time, time interval / Counter, stopwatch, generator, timer, synthesizer, converter	1 ns		up to	10 ns			0.75ns	Direct measurement using a standard oscilloscope	KP 2/F.	1
		10 ns		up to	10 ms			0.40ns			
		10 ms		up to	1 s			0.51ns			
		1 s		up to	10 s			1.5ns	Direct comparison, electronic start	KP 18/E	1
		10 s		up to	100 s			$1.5 \cdot 10^{-10}$s			
		100 s		up to	100,000 s			$1.1 \cdot 10^{-10}$s			
		10 s		up to	12 h.			0.06s	Comparison with a standard, manual start	KP 5/F	1

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Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification [3]	Work place
		min.	unit	max.	unit					
6*	Speed / Analogue and digital contact and contactless, revolution counters, rpm sensors, stroboscopes	1	min^{-1}	up 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}	up to 999,999	min^{-1}		0.03	min^{-1}			
		2	min^{-1}	up to 999.99	min^{-1}		0.1	min^{-1}	Measurement by a standard revolution counter		
		1,000	min^{-1}	up to 9,999	min^{-1}		0.9	min^{-1}			
		10,000	min^{-1}	up to 999,999	min^{-1}		7.0	min^{-1}			

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CMC for the field of measured quantity: Humidity

Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification [3]	Work place
		min.	unit	max.	unit					
1*	Relative humidity / Humidity meters	5 % RH	up to	70 % RH			2.2 % RH	Direct comparison with a standard hygrometer in a climatic chamber	KP 1/V	1
		70 % RH	up to	95 % RH			3.2 % RH			

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[3] If the document identifying the calibration procedure is dated, only these specific procedures are used. If the document identifying the calibration procedure is not dated, the latest edition of the specified procedure is used (including any changes).

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CMC for the field of measured quantity: Physicochemical quantities

Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the meas. quantity		Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification [3]	Work place
1*	Volume concentration of ozone / ozone generators.	0 nmol/mol 100 nmol/mol		up to up to	100 nmol/mol 5,000 nmol/mol				2.4 nmol/mol 17 nmol/mol	Spectrophotometric measurement of ozone concentration.	KP 1/O	2

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