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

issues

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

CERTIFICATE OF ACCREDITATION

No. **445/2025**

SEC electronic s.r.o.
with registered office Dražkovice 155, 533 33 Pardubice
Company Registration No. 28774213

for the Calibration Laboratory No. **2356**
Calibration Laboratory

Scope of accreditation:

Calibration in the fields of temperature, electrical quantities, time and frequency to the extent as specified in the appendix to this Certificate.

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

ČSN EN ISO/IEC 17025:2018

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

This Certificate of Accreditation replaces, to the full extent, Certificate No.: 598/2022 of 07/12/2022, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **07/12/2027**

Prague: 03/09/2025

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

Signed in the Czech original:
Jan Velíšek on 03/09/2025

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

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

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

SEC electronic s.r.o.
CAB number 2356, Calibration Laboratory
Arnošta z Pardubic 2762, 530 02 Pardubice

CMC for the field of measured quantity: Temperature

Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		Nominal range max.	unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Location
1	Resistance thermometers without RTD								Direct generation with a standard resistor	SEC-KM-°C	
	Pt 100-385	-200 °C	to		-130 °C			0.050 °C			
		-130 °C	to		-100 °C			0.065 °C			
		-100 °C	to		0 °C			0.075 °C			
		0 °C	to		100 °C			0.090 °C			
		100 °C	to		300 °C			0.13 °C			
		300 °C	to		400 °C			0.14 °C			
		400 °C	to		500 °C			0.17 °C			
		500 °C	to		700 °C			0.21 °C			
		700 °C	to		850 °C			0.24 °C			
	Pt 100-3916	-100 °C	to		0 °C			0.070 °C			
		0 °C	to		100 °C			0.090 °C			
		100 °C	to		200 °C			0.11 °C			
		200 °C	to		450 °C			0.16 °C			
	Pt 100-3920	-200 °C	to		-80 °C			0.050 °C			
		-80 °C	to		0 °C			0.070 °C			
		0 °C	to		100 °C			0.085 °C			
		100 °C	to		200 °C			0.11 °C			
		200 °C	to		400 °C			0.14 °C			
		400 °C	to		600 °C			0.19 °C			
	Pt 500	-200 °C	to		-130 °C			0.040 °C			
		-130 °C	to		-100 °C			0.045 °C			
		-100 °C	to		0 °C			0.060 °C			
		0 °C	to		100 °C			0.080 °C			
		100 °C	to		300 °C			0.10 °C			

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Arnošta z Pardubic 2762, 530 02 Pardubice

Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		Nominal range max.	unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
		300 °C	to		400 °C			0.12 °C			
		400 °C	to		500 °C			0.14 °C			
		500 °C	to		700 °C			0.18 °C			
		700 °C	to		850 °C			0.22 °C			
	Pt 1000	-200 °C	to		-150 °C			0.040 °C			
		-150 °C	to		-100 °C			0.050 °C			
		-100 °C	to		0 °C			0.055 °C			
		0 °C	to		100 °C			0.070 °C			
		100 °C	to		300 °C			0.10 °C			
		300 °C	to		400 °C			0.12 °C			
		400 °C	to		500 °C			0.14 °C			
		500 °C	to		700 °C			0.18 °C			
		700 °C	to		850 °C			0.21 °C			
	Cu 10	-200 °C	to		-30 °C			0.40 °C			
		-30 °C	to		100 °C			0.45 °C			
		100 °C	to		260 °C			0.47 °C			
	Ni 120	-80 °C	to		10 °C			0.055 °C			
		10 °C	to		260 °C			0.060 °C			
	Ni 1000	-50 °C	to		70 °C			0.050 °C			
		70 °C	to		200 °C			0.055 °C			
2	Sensing part of resistance thermometers								Direct measurement by a standard multimeter	SEC-KM-°C	
	Pt 100-385	-200 °C	to		-80 °C			0.032 °C			
		-80 °C	to		100 °C			0.075 °C			
		100 °C	to		400 °C			0.080 °C			
		400 °C	to		700 °C			0.090 °C			
		700 °C	to		850 °C			0.10 °C			

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Arnošta z Pardubic 2762, 530 02 Pardubice

Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		Nominal range max.	unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
	Pt 100-3916	-100 °C	to		-70 °C			0.032 °C			
		-70 °C	to		10 °C			0.070 °C			
		10 °C	to		200 °C			0.075 °C			
		200 °C	to		450 °C			0.082 °C			
	Pt 100-3920	-200 °C	to		-70 °C			0.030 °C			
		-70 °C	to		100 °C			0.072 °C			
		100 °C	to		400 °C			0.080 °C			
		400 °C	to		600 °C			0.090 °C			
	Pt 500	-200 °C	to		100 °C			0.038 °C			
		100 °C	to		400 °C			0.12 °C			
		400 °C	to		850 °C			0.15 °C			
	Pt 1000	-200 °C	to		-50 °C			0.035 °C			
		-50 °C	to		500 °C			0.070 °C			
		500 °C	to		850 °C			0.080 °C			
	Cu 10, Ni 120	-200 °C	to		260 °C			0.32 °C			
		-80 °C	to		-30 °C			0.040 °C			
		-30 °C	to		10 °C			0.055 °C			
		10 °C	to		260 °C			0.050 °C			
	Ni 1000	-50 °C	to		-20 °C			0.035 °C			
		-20 °C	to		70 °C			0.050 °C			
		70 °C	to		200 °C			0.045 °C			
3	Thermocouple temperature sensors								Direct generation and measurement with a standard calibrator and multimeter – without cold junction[4] compensation	SEC-KM-°C	
	type “R”	-40 °C	to		-30 °C			1.8 °C			
		-30 °C	to		20 °C			1.5 °C			
		20 °C	to		90 °C			1.1 °C			
		90 °C	to		300 °C			0.90 °C			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		Nominal range max.	unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
		300 °C		to	500 °C			0.72 °C			
		500 °C		to	600 °C			0.65 °C			
		600 °C		to	1,700 °C			0.60 °C			
	type “S”	-40 °C		to	0 °C			1.5 °C			
		0 °C		to	100 °C			1.1 °C			
		100 °C		to	500 °C			0.80 °C			
		500 °C		to	1,700 °C			0.65 °C			
	type “D”	0 °C		to	50 °C			0.72 °C			
		50 °C		to	100 °C			0.56 °C			
		100 °C		to	1,000 °C			0.40 °C			
		1,000 °C		to	2,400 °C			0.90 °C			
	type “U”	-190 °C		to	-90 °C			0.37 °C			
		-90 °C		to	-20 °C			0.26 °C			
		-20 °C		to	0 °C			0.21 °C			
		0 °C		to	600 °C			0.17 °C			
	type “L”	-190 °C		to	-110 °C			0.26 °C			
		-100 °C		to	-20 °C			0.21 °C			
		-20 °C		to	600 °C			0.17 °C			
		600 °C		to	900 °C			0.14 °C			
	type “N”	-250 °C		to	-200 °C			2.4 °C			
		-200 °C		to	-130 °C			0.72 °C			
		-130 °C		to	-100 °C			0.35 °C			
		-100 °C		to	50 °C			0.30 °C			
		50 °C		to	200 °C			0.26 °C			
		200 °C		to	1,300 °C			0.22 °C			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		Nominal range max.	unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
	type “C”	0	°C	to	50	°C		0.56 °C			
		50	°C	to	100	°C		0.49 °C			
		100	°C	to	200	°C		0.43 °C			
		200	°C	to	1,200	°C		0.41 °C			
		1,200	°C	to	1,400	°C		0.46 °C			
		1,400	°C	to	1,600	°C		0.52 °C			
		1,600	°C	to	1,800	°C		0.56 °C			
		1,800	°C	to	2,000	°C		0.60 °C			
		2,000	°C	to	2,300	°C		0.80 °C			
	type “B”	100	°C	to	150	°C		7.1 °C			
		150	°C	to	200	°C		3.6 °C			
		200	°C	to	300	°C		2.4 °C			
		300	°C	to	500	°C		1.5 °C			
		500	°C	to	800	°C		0.90 °C			
		800	°C	to	1,000	°C		0.80 °C			
		1,000	°C	to	1,400	°C		0.65 °C			
		1,400	°C	to	1,800	°C		0.60 °C			
	type “E”	-250	°C	to	-220	°C		0.72 °C			
		-220	°C	to	-205	°C		0.39 °C			
		-205	°C	to	-200	°C		0.29 °C			
		-200	°C	to	-100	°C		0.19 °C			
		-100	°C	to	50	°C		0.17 °C			
		50	°C	to	1,000	°C		0.14 °C			
	type “T”	-250	°C	to	-220	°C		1.1 °C			
		-220	°C	to	-205	°C		0.56 °C			
		-205	°C	to	-200	°C		0.46 °C			
		-200	°C	to	-100	°C		0.27 °C			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
		min.	unit	max.	unit					
		-100 °C	to	0 °C			0.23 °C			
		0 °C	to	200 °C			0.19 °C			
		200 °C	to	400 °C			0.16 °C			
	type “K”	-260 °C	to	-245 °C			2.4 °C			
		-245 °C	to	-205 °C			1.1 °C			
		-205 °C	to	-150 °C			0.46 °C			
		-150 °C	to	-10 °C			0.26 °C			
		-10 °C	to	1,350 °C			0.23 °C			
	type “J”	-200 °C	to	-155 °C			0.34 °C			
		-155 °C	to	-110 °C			0.24 °C			
		-110 °C	to	-5 °C			0.20 °C			
		-5 °C	to	1,150 °C			0.17 °C			

[1] Asterisk at the ordinal number identifies the calibrations, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

[2] The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02 M 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. 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] When calibrating cold-point compensated thermocouples, the effect of the compensation line and the cold-point uncertainty must be taken into account.

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CAB number 2356, Calibration Laboratory
Arnošta z Pardubic 2762, 530 02 Pardubice

CMC for the field of measured quantity: Electrical quantities

Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
		min.	unit	max.	unit					
1*	DC voltage / Power supplies, high voltage test sources (up to 50 kV), calibrators, instruments for certified electricians			1	mV		0.2 µV	Direct measurement by a standard multimeter	SEC-KM-UDC	
				10	mV		0.4 µV			
				100	mV		1.5 µV			
				1	V		0.0012 %			
				10	V		0.0010 %			
				100	V		0.0015 %			
				1,000	V		0.0017 %			
		0	mV to	200	mV		2.5 µV			
		200	mV to	2	V		0.0015 %			
		2	V to	20	V		0.0015 %			
		20	V to	200	V		0.0015 %			
		200	V to	1,100	V		0.0020 %			
		1.1	kV to	5	kV		1,0 %	Direct measurement by a standard voltmeter with a HV divider		
		5	kV to	10	kV		0,9 %			
		10	kV to	50	kV		1,5 %			
	DC voltage / Analogue and digital voltmeters, multimeters, tong-test meters, oscilloscopes			100	µV		2.7 µV	Comparison with a standard calibrator		
				1	mV		2.7 µV			
				10	mV		3 µV			
				100	mV		0.0030 %			
				1	V		0.0020 %			

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

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
					10	V		0.0020 %			
					100	V		0.0020 %			
					1,000	V		0.0025 %			
		0	mV	to	200	mV		6 µV			
		200	mV	to	2	V		0.0040 %			
		2	V	to	20	V		0.0040 %			
		20	V	to	200	V		0.0040 %			
		200	V	to	1,100	V		0.0050 %			
		1100	V	to	6000	V		1.5 %	Comparison with a standard multimeter with a resistance divider		
2*	Direct-current / Power-supplies, calibrators, instruments for certified electricians				10	µA		0.007 µA	Direct measurement by a standard multimeter	SEC-KM-IDC	
					100	µA		0.007 µA			
					1	mA		0.07 µA			
					10	mA		0.7 µA			
					100	mA		14 µA			
					1	A		210 µA			
					1.9	A		0.4 mA			
					10	A		0.010 %			
					20	A		0.030 %			
					100	A		0.050 %			
		0	µA	to	20	µA		0.050 % + 3.4 nA			
		20	µA	to	200	µA		0.010 %			
		200	µA	to	2	mA		0.010 %			
		2	mA	to	20	mA		0.010 %			
		20	mA	to	200	mA		0.015 %			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		Nominal range max.	unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
		200 mA		to	2 A			0.025 %			
		2 A		to	10 A			0.020 %	Direct measurement by a standard multimeter with a shunt		
		10 A		to	20 A			0.040 %			
		20 A		to	100 A			0.10 %			
	Direct-current / Analogue and digital ammeters, multimeters, tong-test meters				10 µA			0.014 µA	Direct generation by a standard calibrator		
					100 µA			0.014 µA			
					1 mA			0.015 µA			
					10 mA			1.4 µA			
					100 mA			14 µA			
					1 A			0.28 mA			
					10 A			0.042 %			
					20 A			0.042 %			
					30 A			0.10 %			
					90 A			0.20 %			
		0 µA		to	10 µA			0.050 % + 3.4 nA			
		10 µA		to	200 µA			0.015 %			
		200 µA		to	2 mA			0.015 %			
		2 mA		to	20 mA			0,025 %			
		20 mA		to	200 mA			0.015 %			
		200 mA		to	2 A			0.030 %			
		2 A		to	20 A			0.080 %	Comparison with a standard multimeter with a shunt		
		20 A		to	90 A			0.20 %			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
		90 A		to	200 A			0.30 %	Comparison with a clamp probe with a multimeter		
		200 A		to	1.9 kA			0.40 %			
3*	AC voltage / Power supplies, high voltage test sources (up to 50 kV), calibrators, instruments for certified electricians				1 mV		10 Hz to 40 Hz	10 µV	Direct measurement by a standard multimeter	SEC-KM-UAC	
							40 Hz to 10 kHz	6 µV			
							10 kHz to 30 kHz	15 µV			
							30 kHz to 100 kHz	30 µV			
					10 mV		10 Hz to 40 Hz	10 µV			
							40 Hz to 10 kHz	8 µV			
							10 kHz to 30 kHz	15 µV			
							30 kHz to 100 kHz	20 µV			
					100 mV		10 Hz to 40 Hz	0.025 %			
							40 Hz to 10 kHz	0.020 %			
							10 kHz to 30 kHz	0.050 %			
							30 kHz to 100 kHz	0.14 %			
					1 V		10 Hz to 40 Hz	0.018 %			
							40 Hz to 10 kHz	0.015 %			
							10 kHz to 30 kHz	0.030 %			
							30 kHz to 100 kHz	0.085 %			
							100 kHz to 300 kHz	0.58 %			
							300 kHz to 1 MHz	3.5 %			
					10 V		10 Hz to 40 Hz	0.018 %			
							40 Hz to 10 kHz	0.015 %			
							10 kHz to 30 kHz	0.030 %			
							30 kHz to 100 kHz	0.085 %			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
							100 kHz to 300 kHz	0.58 %			
							300 kHz to 1 MHz	3.5 %			
					100	V	10 Hz to 40 Hz	0.018 %			
							40 Hz to 10 kHz	0.015 %			
							10 kHz to 30 kHz	0.030 %			
							30 kHz to 100 kHz	0.085 %			
							100 kHz to 300 kHz	0.60 %			
					1,000	V	10 Hz to 40 Hz	0.034 %			
							40 Hz to 10 kHz	0.020 %			
							10 kHz to 30 kHz	0.030 %			
							30 kHz to 100 kHz	0.080 %			
		1	mV	to	10	mV	10 Hz to 40 Hz	10 µV			
							40 Hz to 10 kHz	10 µV			
							10 kHz to 30 kHz	15 µV			
							30 kHz to 100 kHz	30 µV			
		10	mV	to	100	mV	10 Hz to 40 Hz	0.062 %			
							40 Hz to 10 kHz	0.040 %			
							10 kHz to 30 kHz	0.11 %			
							30 kHz to 100 kHz	0.28 %			
		100	mV	to	200	mV	10 Hz to 40 Hz	0.025 %			
							40 Hz to 10 kHz	0.020 %			
							10 kHz to 30 kHz	0.05 %			
							30 kHz to 100 kHz	0.25 %			
							100 kHz to 300 kHz	0.6 %			
							300 kHz to 1 MHz	3.5 %			
		200	mV	to	20	V	10 Hz to 40 Hz	0.025 %			
							40 Hz to 10 kHz	0.020 %			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
							10 kHz to 30 kHz	0.050 %			
							30 kHz to 100 kHz	0.17 %			
							100 kHz to 300 kHz	0.6 %			
							300 kHz to 1 MHz	3.5 %			
		20 V		to	200 V		10 Hz to 40 Hz	0.025 %			
							40 Hz to 10 kHz	0.020 %			
							10 kHz to 30 kHz	0.050 %			
							30 kHz to 100 kHz	0.10 %			
							100 kHz to 300 kHz	0.60 %			
		200 V		to	1,100 V		10 Hz to 40 Hz	0.068 %			
							40 Hz to 10 kHz	0.060 %			
							10 kHz to 30 kHz	0.090 %			
							30 kHz to 100 kHz	0.19 %			
		1.1 kV		to	50 kV		50 Hz	1.5 %	Direct measurement with a standard multimeter with a HV divider		
	AC voltage / Analogue and digital voltmeters, multimeters, tong-test meters, oscilloscopes				1 mV		10 Hz to 30 Hz	13 µV	Direct generation by a standard calibrator		
							30 Hz to 30 kHz	13 µV			
							30 kHz to 100 kHz	13 µV			
							100 kHz to 300 kHz	2.7 %			
							300 kHz to 1 MHz	4.7 %			
					10 mV		10 Hz to 30 Hz	18 µV			
							30 Hz to 30 kHz	17 µV			
							30 kHz to 100 kHz	22 µV			
							100 kHz to 300 kHz	0.53 %			
							300 kHz to 1 MHz	1.6 %			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min. unit	Nominal range max. unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
			100 mV	10 Hz to 30 Hz	0.070 %			
				30 Hz to 30 kHz	0.060 %			
				30 kHz to 100 kHz	0.12 %			
				100 kHz to 300 kHz	0.32 %			
				300 kHz to 1 MHz	1.2 %			
			1 V	10 Hz to 30 Hz	0.047 %			
				30 Hz to 30 kHz	0.030 %			
				30 kHz to 100 kHz	0.045 %			
				100 kHz to 300 kHz	0.17 %			
				300 kHz to 1 MHz	0.93 %			
			10 V	10 Hz to 30 Hz	0.047 %			
				30 Hz to 30 kHz	0.030 %			
				30 kHz to 100 kHz	0.045 %			
				100 kHz to 300 kHz	0.17 %			
				300 kHz to 1 MHz	0.93 %			
			100 V	10 Hz to 30 Hz	0.047 %			
				30 Hz to 30 kHz	0.030 %			
				30 kHz to 100 kHz	0.047 %			
			1,000 V	45 Hz to 33 Hz	0.059 %			
		1 mV to	10 mV	10 Hz to 30 Hz	36 µV			
				30 Hz to 30 kHz	34 µV			
				30 kHz to 100 kHz	44 µV			
				100 kHz to 300 kHz	5.0 %			
				300 kHz to 1 MHz	8.0 %			
		10 mV to	200 mV	10 Hz to 30 Hz	0.14 %			
				30 Hz to 30 kHz	0.12 %			
				30 kHz to 100 kHz	0.24 %			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit	to	max.	unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
							100 kHz to 300 kHz	1.0 %			
							300 kHz to 1 MHz	3.2 %			
		200 mV		to	20 V		10 Hz to 30 Hz	0.090 %			
							30 Hz to 30 kHz	0.060 %			
							30 kHz to 100 kHz	0.090 %			
							100 kHz to 300 kHz	0.70 %			
							300 kHz to 1 MHz	2.0 %			
		20 V		to	200 V		10 Hz to 30 Hz	0.090 %			
							30 Hz to 30 kHz	0.060 %			
							30 kHz to 100 kHz	0.090 %			
		200 V		to	1,000 V		45 Hz to 30 kHz	0.11 %			
		1,000 V		to	5,000 V		50 Hz to 60 Hz	1.5 %			
4*	Alternating-current / Power-supplies, calibrators, instruments for certified electricians				10 µA		10 Hz to 5 kHz	0.26 %	Direct measurement by a standard multimeter	SEC-KM-IAC	
					100 µA			0.050 %			
					1 mA			0.050 %			
					10 mA			0.050 %			
					100 mA			0.050 %			
					1 A			0.10 %			
					10 A		10 Hz to 1 kHz	0.070 %	Direct measurement with a standard multimeter with a shunt		
					20 A			0.070 %			
					50 A			0.075 %			
		10 µA		to	200 µA		10 Hz to 1 kHz	0.26 %	Direct measurement by a standard multimeter		
		200 µA		to	200 mA			0.05 %			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		Nominal range max.	unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
		200 mA		to	2 A			0.10 %			
		200 mA		to	2 A		1 kHz to 5 kHz	0.20 %			
		2 A		to	50 A		10 Hz to 1 kHz	0.20 %	Direct measurement with a standard multimeter with a shunt		
		50 A		to	150 A		50 Hz	0.30 %	Direct measurement with a current probe with a multimeter		
		150 A		to	1.4 kA		50 Hz	0.40 %			
	Alternating-current / Analogue and digital ammeters, multimeters, tong-test meters, instruments for certified electricians				10 µA		10 Hz to 1 kHz	0.35 %	Direct generation by a standard calibrator	SEC-KM-IAC	
					100 µA			0.083 %			
					1 mA			0.066 %			
					10 mA			0.065 %			
					100 mA			0.065 %			
					1 A			0.085 %			
					10 A		10 Hz to 1 kHz	0.20 %	Comparison with a standard multimeter with a shunt		
					20 A			0.20 %			
					30 A		15 Hz to 1 kHz	0.20 %			
		10 µA		to	200 µA		10 Hz to 1 kHz	0.10 %	Direct generation by a standard calibrator		
		200 µA		to	200 mA			0.10 %			
		200 mA		to	2 A			0.12 %			
		2 A		to	20 A		15 Hz to 1 kHz	0.40 %	Comparison with a standard multimeter with a shunt		
		20 A		to	30 A			0.40 %			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
		30	A	to	90	A		0.50 %			
		90	A	to	1.0	kA	50 Hz to 100 Hz	0.70 %	Comparison with a standard clamp multimeter		
5*	DC resistance / Resistance boxes, DC resistance dividers, reference DC resistors, instruments for certified electricians				100	µΩ		0.058 %	Comparison with a resistance standard	SEC-KM-R	
					1	mΩ		0.0060 %			
					10	mΩ		0.0060 %			
					100	mΩ		0.0060 %			
					1	Ω		0.0025 %			
					10	Ω		0.0025 %			
					100	Ω		0.0025 %			
					1	kΩ		0.0025 %			
					10	kΩ		0.0025 %			
					100	kΩ		0.0025 %			
					1	MΩ		0.0030 %			
					10	MΩ		0.0080 %			
					100	MΩ		0.012 %			
					1	GΩ		0.040 %			
		0	mΩ	to	1	mΩ		2.0 % +2 µΩ	Direct measurement with a microohmmeter		
		1	mΩ	to	100	mΩ		0.50 %			
		100	mΩ	to	1	Ω		0.10 %			
		1	Ω	to	10	Ω		0.010 %	Direct measurement with a standard multimeter		
		10	Ω	to	100	Ω		0.0070 %			
		100	Ω	to	1	kΩ		0.0050 %			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		Nominal range max.	unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
		1	kΩ	to	10	kΩ		0.0040 %			
		10	kΩ	to	100	kΩ		0.0050 %			
		100	kΩ	to	1	MΩ		0.0090 %			
		1	MΩ	to	10	MΩ		0.018 %			
		10	MΩ	to	100	MΩ		0.090 %			
		100	MΩ	to	1	GΩ		0.50 %			
	DC resistance / Ohmmeters, resistance bridges				100	μΩ		0.0040 %	Direct measurement of reference resistors	SEC-KM-R	
					1	mΩ		0.0020 %			
					10	mΩ		0.0010 %			
					100	mΩ		0.0010 %			
					1	Ω		0.0010 %			
					10	Ω		0.0010 %			
					100	Ω		0.0020 %			
					1	kΩ		0.0020 %			
					10	kΩ		0.0015 %			
					100	kΩ		0.0020 %			
					1	MΩ		0.0020 %			
					10	MΩ		0.0080 %			
					100	MΩ		0.011 %			
					1	GΩ		0.040 %			
		0	mΩ	to	1	Ω		0.2 % + 0.4 mΩ			
		1	Ω	to	10	Ω		0.020 %			
		10	Ω	to	100	Ω		0.020 %			
		100	Ω	to	1	kΩ		0.015 %			
		1	kΩ	to	10	kΩ		0.015 %			
		10	kΩ	to	100	kΩ		0.015 %			
		100	kΩ	to	1	MΩ		0.020 %			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
		1	MΩ	to	10	MΩ		0.040 %			
		10	MΩ	to	100	MΩ		0.10 %			
		100	MΩ	to	1	GΩ		0.50 %			
		1	GΩ	to	10	GΩ		1.0 %			
		10	GΩ	to	50	GΩ		2.5 %			
6	AC resistance / RLC bridges, multimeters				0.1	Ω	100 Hz	0.20 %	Direct generation using a standard RLC calibrator	SEC-KM-RLC	
							1 kHz	0.20 %			
							10 kHz	1.0 %			
					1	Ω	100 Hz	0.14 %			
							1 kHz	0.10 %			
							10 Hz	0.10 %			
					10	Ω	100 Hz	0.050 %			
							1 kHz	0.050 %			
							10 kHz	0.050 %			
					100	Ω	100 Hz	0.020 %			
							1 kHz	0.020 %			
							10 kHz	0.020 %			
					1	kΩ	100 Hz	0.020 %			
							1 kHz	0.020 %			
							10 kHz	0.020 %			
					10	kΩ	100 Hz	0.020 %			
							1 kHz	0.020 %			
							10 kHz	0.020 %			
					100	kΩ	100 Hz	0.020 %			
							1 kHz	0.020 %			
							10 kHz	0.020 %			

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				1 MΩ		100 Hz	0.030 %			
						1 kHz	0.030 %			
						10 kHz	0.060 %			
				10 MΩ		100 Hz	0.050 %			
						1 kHz	0.050 %			
						10 kHz	0.47 %			
7	Capacity / RLC bridges, multimeters							Direct generation using a standard RLC calibrator	SEC-KM-RLC	
				10 pF		100 Hz	0.86 %			
						1 kHz	0.50 %			
						10 kHz	0.50 %			
				100 pF		100 Hz	0.30 %			
						1 kHz	0.10 %			
						10 kHz	0.050 %			
				1 nF		100 Hz	0.050 %			
						1 kHz	0.050 %			
						10 kHz	0.050 %			
				10 nF		100 Hz	0.050 %			
						1 kHz	0.050 %			
						10 kHz	0.050 %			
				100 nF		100 Hz	0.10 %			
						1 kHz	0.050 %			
						10 kHz	0.050 %			
				1 µF		100 Hz	0.050 %			
						1 kHz	0.050 %			
						10 kHz	0.050 %			
				10 µF		100 Hz	0.050 %			
						1 kHz	0.050 %			
						10 kHz	0.20 %			

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			100 µF	100 Hz	0.10 %			
				1 kHz	0.13 %			
				10 kHz	0.51 %			
8	Inductance / RLC bridges, multimeters		10 µH	1 kHz	0.58 %	Direct generation using a standard RLC calibrator	SEC-KM-RLC	
				10 kHz	0.32 %			
			100 µH	100 Hz	0.53 %			
				1 kHz	0.22 %			
				10 kHz	0.21 %			
			1 mH	100 Hz	0.22 %			
				1 kHz	0.11 %			
				10 kHz	0.11 %			
			10 mH	100 Hz	0.11 %			
				1 kHz	0.10 %			
				10 kHz	0.10 %			
			100 mH	100 Hz	0.10 %			
				1 kHz	0.10 %			
				10 kHz	0.10 %			
			1 H	100 Hz	0.10 %			
				1 kHz	0.10 %			
			10 H	100 Hz	0.10 %			
				1 kHz	0.10 %			
			10 µH	100 kHz	0.30 %	Direct measurement of an inductance standard		
			100 µH	100 kHz	0.30 %			
			1,000 µH	100 kHz	0.30 %			

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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]	Loca-tion
		min.	unit	max.	unit						
9	DC power / Analogue and digital wattmeters, tong-test meters, instruments for certified electricians (1 V to 1,000 V; 1 mA to 20 A)	1 mVA	to	20 kVA				0.050 %	Direct generation with a standard power calibrator	SEC-KM-P	
	DC power / Calibrators	1 mVA	to	20 kVA				0.10 %	Comparison with a standard power calibrator		
10*	AC power / Analogue and digital wattmeters, varmeters, tong-test meters (40 Hz to 70 Hz, 1 V to 600 V)	0.01 W	to	54 kW		cos φ	current		Direct generation with a standard power calibrator	SEC-KM-P	
						1	10 mA to 10 A	0.070 %			
							10 A to 90 A	0.10 %			
						0.9 to 1	10 mA to 10 A	0.081 %			
							10 A to 90 A	0.1 %			
						0.8 to 0.9	10 mA to 10 A	0.075 %			
							10 A to 90 A	0.13 %			
						0.7 to 0.8	10 mA to 10 A	0.070 %			
							10 A to 90 A	0.15 %			
						0.6 to 0.7	10 mA to 10 A	0.090 %			
							10 A to 90 A	0.17 %			
						0.5 to 0.6	10 mA to 10 A	0.090 %			
							10 A to 90 A	0.19 %			
						0.4 to 0.5	10 mA to 10 A	0.10 %			
							10 A to 90 A	0.22 %			
						0.3 to 0.4	10 mA to 10 A	0.15 %			
							10 A to 90 A	0.35 %			
						0.2 to 0.3	10 mA to 10 A	0.19 %			
							10 A to 90 A	0.39 %			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit	max.	unit	Parameter(s) of the measurand		Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
						0.1 to 0.2	10 mA to 10 A	0.45 %			
							10 A to 90 A	1.1 %			
						0.05 to 0.1	10 mA to 10 A	0.90 %			
							10 A to 90 A	2.1 %			
	AC power / Calibrators, transducers, 45 Hz to 65 Hz, 6 V to 720 V, 0.15 A to 21 A	0.9 W	to	15 kW		cos φ 1 0.9 to 1 0.8 to 0.9 0.7 to 0.8 0.6 to 0.7 0.5 to 0.6 0.4 to 0.5 0.3 to 0.4 0.2 to 0.3 0.1 to 0.2 0.05 to 0.1		 0.046 % 0.060 % 0.065 % 0.070 % 0.080 % 0.090 % 0.11 % 0.14 % 0.20 % 0.39 % 0.80 %	Direct measurement with a standard wattmeter	SEC-KM-P	
11	Power level / HF voltage meters, oscilloscopes and instruments for the measurement of frequency	-90 dBm	to	-80 dBm		10 kHz to 1 GHz 1 GHz to 2.5 GHz 5 GHz 10 GHz		0.35 dB 0.60 dB 1.2 dB 1.2 dB	Direct generation with a standard generator – 50 Ω load	SEC-KM-Uvf	
		-80 dBm	to	-60 dBm		10 kHz to 1 GHz 1 GHz to 2.5 GHz 5 GHz 10 GHz		0.35 dB 0.51 dB 1.2 dB 1.2 dB			

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				15 GHz	1.3 dB			
				20 GHz	1.3 dB			
		-60 dBm	0 dBm	10 kHz to 1 GHz	0.35 dB			
				1 GHz to 2.5 GHz	0.51 dB			
				5 GHz	1.2 dB			
				10 GHz	1.2 dB			
				15 GHz	1.3 dB			
				20 GHz	1.3 dB			
		0 dBm	10 dBm	10 kHz to 1 GHz	0.33 dB			
				1 GHz to 2.5 GHz	0.47 dB			
				5 GHz	1.2 dB			
				10 GHz	1.2 dB			
				15 GHz	1.3 dB			
				20 GHz	1.3 dB			
	Power level / Generators and instruments for the generation of frequency	-90 dBm	-80 dBm	100 kHz to 2.5 GHz	0.35 dB	Direct measurement with a standard analyzer – 50 Ω load	SEC-KM-Uvf	
				5 GHz	0.51 dB			
				10 GHz	0.71 dB			
				15 GHz	1.7 dB			
				20 GHz	1.7 dB			
				25 GHz	1.7 dB			
		-80 dBm	-60 dBm	100 kHz to 2.5 GHz	0.30 dB			
				5 GHz	0.51 dB			
				10 GHz	0.71 dB			
				15 GHz	1.7 dB			
				20 GHz	1.7 dB			
				25 GHz	1.7 dB			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min. unit	Nominal range max. unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Location
		-60 dBm	0 dBm	100 kHz to 2.5 GHz 2.5 GHz to 5 GHz 5 GHz to 10 GHz 10 GHz to 15 GHz 15 GHz to 18 GHz	0.30 dB 0.35 dB 0.68 dB 0.86 dB 0.92 dB	Direct measurement with a standard power sensor - 50 Ω load		
				20 GHz 25 GHz	1.7 dB 1.7 dB	Direct measurement with a standard analyzer - 50 Ω load		
		0 dBm	13 dBm	100 kHz to 2.5 GHz 2.5 GHz to 5 GHz 5 GHz to 10 GHz 15 GHz to 18 GHz	0.30 dB 0.35 dB 0.68 dB 0.92 dB	Direct measurement with a standard power sensor - 50 Ω load		
		13 dBm	20 dBm	100 kHz to 200 MHz 200 MHz to 1 GHz 1 GHz to 2.5 GHz	0.75 dB 0.55 dB 0.63 dB	Direct measurement with a standard analyzer - 50 Ω load		

[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 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. 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 min.	unit		max.	unit	Parameter(s) of the measurand		Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
1	Frequency / Oscilloscopes and instruments for the measurement of frequency						Uinp			Direct measurement of a signal synchronized by a GPS standard	SEC-KM-f	
		0.01	Hz	to	0.1	Hz	100 mV to 10 V	rectangle	$1.2 \cdot 10^{-7}$ Hz			
		0.1	Hz	to	1	Hz			$1.2 \cdot 10^{-7}$ Hz			
		1	Hz	to	10	Hz			$1.2 \cdot 10^{-7}$ Hz			
		10	Hz	to	100	Hz			$1.2 \cdot 10^{-6}$ Hz			
		10	Hz	to	100	Hz	30 mV to 5 V	sine	$1.0 \cdot 10^{-3}$ Hz			
		100	Hz	to	1	kHz			$1.0 \cdot 10^{-4}$ Hz			
		1	kHz	to	10	kHz			$1.5 \cdot 10^{-5}$ Hz			
		10	kHz	to	100	kHz			$1.2 \cdot 10^{-4}$ Hz			
		100	kHz	to	1	MHz			$1.2 \cdot 10^{-3}$ Hz			
		1	MHz	to	10	MHz			$1.2 \cdot 10^{-2}$ Hz			
		10	MHz	to	100	MHz			$1.2 \cdot 10^{-1}$ Hz			
		100	MHz	to	1	GHz			$1.2 \cdot 10^{0}$ Hz			
		1	GHz	to	2	GHz			$3.2 \cdot 10^{0}$ Hz			
		2	GHz	to	2.5	GHz			$4.0 \cdot 10^{0}$ Hz			
		2.5	GHz	to	5	GHz			$8.0 \cdot 10^{0}$ Hz			
		5	GHz	to	10	GHz			$1.6 \cdot 10^{1}$ Hz			
		10	GHz	to	15	GHz			$2.4 \cdot 10^{1}$ Hz			
		15	GHz	to	20	GHz			$3.2 \cdot 10^{1}$ Hz			
		20	GHz	to	25	GHz			$4.2 \cdot 10^{1}$ Hz			
	Frequency / Instruments for the generation of frequency						U_{out}			Direct measurement by a counter synchronized by a GPS standard		
		10	kHz	to	100	kHz	30 mV to 1 V	sine	$1.2 \cdot 10^{-4}$ Hz			
		100	kHz	to	1	MHz			$1.2 \cdot 10^{-3}$ Hz			
		1	MHz	to	10	MHz			$1.2 \cdot 10^{-2}$ Hz			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	unit		max.	unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
		10	MHz	to	100	MHz		$1.2 \cdot 10^{-1}$ Hz			
		100	MHz	to	1	GHz		$1.2 \cdot 10^{0}$ Hz			
		1	GHz	to	2	GHz		$3.2 \cdot 10^{0}$ Hz			
		2	GHz	to	2.5	GHz		$4.0 \cdot 10^{0}$ Hz			
		2.5	GHz	to	5	GHz		$8.0 \cdot 10^{0}$ Hz			
		5	GHz	to	10	GHz		$1.6 \cdot 10^{1}$ Hz			
		10	GHz	to	15	GHz		$2.4 \cdot 10^{1}$ Hz			
		15	GHz	to	20	GHz		$3.2 \cdot 10^{1}$ Hz			
					0.1	Hz	1 V rectangle (pp)	$2.2 \cdot 10^{-4}$ Hz			
					1	Hz		$2.2 \cdot 10^{-4}$ Hz			
					10	Hz		$2.2 \cdot 10^{-4}$ Hz			
					100	Hz		$2.2 \cdot 10^{-4}$ Hz			
					1	kHz		$2.2 \cdot 10^{-4}$ Hz			
					10	kHz		$2.2 \cdot 10^{-4}$ Hz			
					100	kHz		$2.2 \cdot 10^{-4}$ Hz			
2	Bandwidth / Oscilloscopes and instruments for the measurement of frequency								Direct generation with a standard generator	SEC-KM-OSC	
		0	MHz	to	250	MHz		12 %			
		250	MHz	to	500	MHz		13 %			
3	Time stamps / Oscilloscopes and inspection instruments								Direct generation with a standard generator	SEC-KM-OSC KP 4.1.3/02/16 I-010	
					5	s		$5.0 \cdot 10^{-3}$ s			
					2	s		$1.0 \cdot 10^{-3}$ s			
					1	s		$0.1 \cdot 10^{-3}$ s			
					0.5	s		$0.5 \cdot 10^{-4}$ s			
					0.2	s		$0.2 \cdot 10^{-4}$ s			
					0.1	s		$0.1 \cdot 10^{-4}$ s			
					50	ms		$0.5 \cdot 10^{-5}$ s			

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min.	Nominal range unit	Nominal range max.	Nominal range unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Loca-tion
				20 ms			$0.8 \cdot 10^{-6}$ s			
				10 ms			$0.2 \cdot 10^{-6}$ s			
				5 ms			$0.3 \cdot 10^{-7}$ s		SEC-KM-OSC	
				2 ms			$0.3 \cdot 10^{-7}$ s			
				1 ms			$0.3 \cdot 10^{-7}$ s			
				500 µs			$0.1 \cdot 10^{-8}$ s			
				200 µs			$0.1 \cdot 10^{-8}$ s			
				100 µs			$0.1 \cdot 10^{-8}$ s			
				50 µs			$0.1 \cdot 10^{-9}$ s			
				20 µs			$0.1 \cdot 10^{-9}$ s			
				10 µs			$0.1 \cdot 10^{-9}$ s			
				5 µs			$0.1 \cdot 10^{-10}$ s			
				2 µs			$0.1 \cdot 10^{-10}$ s			
				1 µs			$0.1 \cdot 10^{-10}$ s			
				500 ns			$0.1 \cdot 10^{-11}$ s			
				200 ns			$0.1 \cdot 10^{-11}$ s			
				100 ns			$0.1 \cdot 10^{-11}$ s			
				50 ns			$0.1 \cdot 10^{-12}$ s			
				20 ns			$0.1 \cdot 10^{-12}$ s			
				10 ns			$0.1 \cdot 10^{-12}$ s			
				5 ns			$0.1 \cdot 10^{-13}$ s			
				2 ns			$0.1 \cdot 10^{-13}$ s			
				1 ns			$0.1 \cdot 10^{-13}$ s			

[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 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. 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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