The Appendix is an integral part of
Certificate of Accreditation No. 236/2023 of 11/05/2023

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

MEROS, spol. s r.o.
CAB number 2249, MEROS Calibration Laboratory
Starozuberská 1453, 756 54 Zubří

CMC for the field of measured quantity: Length

Ord. nr.[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	Parallel gauge blocks	0.5	mm	to 100	mm		(1 L + 0.1) µm	Mechanical comparison with a standard using a comparator	MKGD KM.2	
2	Slide gauges	0	mm	to 500	mm		(8 L + 10) µm	Comparison with parallel gauge blocks and rings	MKGD PM.2	
3	Micrometers	0	mm	to 100	mm		(1 L + 2.5) µm	Comparison with parallel gauge blocks	MKGD MM.2	
4	Deviation meters	0	mm	to 30	mm	division 0.01 mm	(1 L + 2.5) µm	Direct measurement on a calibration instrument for indicators	MKGD UM.2	
		0	mm	to 30	mm	division 0.001 mm	(1 L + 1) µm			
5	Cylindrical gauges	0.5	mm	to 50	mm		(1 L + 2.5) µm	Direct measurement by a passameter	MKGD VK.1	
6	Feeler gauges	0.02	mm	to 2	mm		(1 L + 2.5) µm	Direct measurement by a micrometer	MKGD LS.1	
7	Steel tape measures	0	mm	to 3,000	mm		(20 L + 100) µm	Comparison with a steel rule	MKGD SM.1	
		3,000	mm	to 5,000	mm		(50 L + 200) µm			
	Steel rules	0	mm	to 1,000	mm		(20 L + 100) µm			

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Ord. nr.[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					
8	Tape measures	0 mm	to	5,000 mm			0.4 mm	Comparison with a tape measure	MKGD SM.1	
		5,000 mm	to	20,000 mm			0.6 mm			
		20,000 mm	to	30,000 mm			0.8 mm			

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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. The uncertainty value stated herein is based on the best conditions achievable by the laboratory; the uncertainty value of a specific calibration may be higher depending on the conditions of such a calibration. For identical extreme values of adjacent ranges, the lower uncertainty value always applies.

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

L = length in metres

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CMC for the field of measured quantity: Rotational speed

Ord. nr.[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*	Analogue, digital and proximity revolution counters, induction revolution counters, rpm sensors, stroboscopes	1	min^{-1}	to 100,000	min^{-1}		$1.0 \cdot 10^{-6}$	Comparison with a reference electronic speed simulator	MKF-O1	
		1 60	min^{-1} min^{-1}	to 60 to 100,000	min^{-1} min^{-1}		0.00020 min^{-1} $1.5 \cdot 10^{-6}$	Comparison with a reference standard – non-contact method	MKF-O1	
		1 5 20	min^{-1} min^{-1} min^{-1}	to 5 to 20 to 10,000	min^{-1} min^{-1} min^{-1}		0.25 % 0.070 % 0.0060 %	Comparison with a reference standard – contact and non-contact method	MKF-O1	
		1	min^{-1}	to 60	min^{-1}	measurement time at least 4 min	0.11 %	Comparison with a reference stopwatch	MKF-O1	

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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 and digital manometers, pressure transducers, differential pressure measuring chains	0.1	MPa	to	0.35	MPa	Gauge pressure - liquid	0.00007 MPa	Comparison with a piston manometer	MKMP TL.2	
		0.35	MPa	to	3.5	MPa		0.02 %			
		3.5	MPa	to	7	MPa		0.0028 MPa			
		7	MPa	to	60	MPa		0.04 %			
2*	Deformation and digital manometers, pressure transducers, differential pressure measuring chains	0	kPa	to	1	kPa	Gauge pressure - gas	0.1 % + 0.0015 kPa	Comparison with a digital manometer	MKMP TL.2	
		1	kPa	to	10	kPa		0.04 % + 0.004 kPa			
		10	kPa	to	200	kPa		0.05 % + 0.03 kPa			
		200	kPa	to	600	kPa		0.06 % + 0.05 kPa			
		600	kPa	to	2,000	kPa		0.07 % + 0.11 kPa			
		0	kPa	to	1	kPa	Vacuum - gas	0.1 % + 1.5 Pa			
		1	kPa	to	90	kPa		0.05 % + 13 Pa			
		0	MPa	to	2	MPa	Gauge pressure - liquid	0.05 % + 0.3 kPa			
		2	MPa	to	10	MPa		0.06 % + 1 kPa			
		10	MPa	to	25	MPa		0.05 % + 5 kPa			
		25	MPa	to	60	MPa		0.06 % + 9 kPa			
		500	hPa	to	1,100	hPa	Barometric pressure	0.4 hPa			
		5	kPa	to	2,000	kPa	Absolute pressure - gas	0.05 % + 0.3 kPa			
		2,000	kPa	to	10,000	kPa	Absolute pressure - liquid	0.07 % + 1.2 kPa			

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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					
		10,000	kPa	to 25,000	kPa		0.06 % + 4 kPa			

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CMC for the field of measured quantity: Temperature

Ord. nr.[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	Resistance thermometers	-80 °C		to	-30 °C			0.12 °C	Comparison with a resistance temperature sensor	MKTT OT.2	
		-30 °C		to	0.01 °C			0.08 °C			
					0 °C			0.05 °C			
		0.01 °C		to	150 °C			0.07 °C			
		150 °C		to	230 °C			0.08 °C			
		230 °C		to	420 °C			0.15 °C			
		420 °C		to	660 °C			0.30 °C			
	Thermocouple temperature sensors	-80 °C		to	420 °C			0.5 °C	Comparison with a resistance temperature sensor	MKTT TE.2	
		420 °C		to	650 °C			0.7 °C			
		650 °C		to	1,100 °C			1.5 °C	Comparison with a thermoelectric temperature sensor		
		1,100 °C		to	1,300 °C			2.0 °C			
	Electronic thermometers	-80 °C		to	-20 °C			0.12 °C	Comparison with a resistance temperature sensor	MKTT ET.2	
		-20 °C		to	0.01 °C			0.08 °C			
					0 °C			0.05 °C			
		0.01 °C		to	150 °C			0.07 °C			
		150 °C		to	230 °C			0.08 °C			
		230 °C		to	420 °C			0.15 °C			
		420 °C		to	650 °C			0.3 °C			

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Ord. nr.[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					
		650 °C	to	1,000 °C			1.4 °C	Comparison with a thermoelectric temperature sensor	MKTT ET.2	
		1,000 °C	to	1,100 °C			1.5 °C			
		1,100 °C	to	1,300 °C			2.0 °C			
	Glass thermometers	-40 °C	to	-20 °C			0.12 °C	Comparison with a resistance temperature sensor in liquid bath.	MKTT ST.2	
		-20 °C	to	200 °C			0.07 °C			
		200 °C	to	300 °C			0.15 °C			
	Non-contact thermometers	-20 °C	to	300 °C			1.2 °C	Comparison with a reference standard	MKTT PR.1	
		300 °C	to	1,100 °C			0.6 %			
2*	Electronic thermometers, resistance temperature sensors, thermoelectric temperature sensors, glass thermometers	-80 °C	to	420 °C			0.2 °C	Comparison with a resistance temperature sensor	MKTT ET, MKTT OT.0, MKTT TE.2, MKTT ST.2	
		420 °C	to	1,100 °C			2.0 °C	Comparison with a thermoelectric temperature sensor		

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Ord. nr.[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					
	Temperature measuring chains	-200	°C	-100	°C		0.1 %	Simulation of sensor electrical input signal	MKTT TX.1	
		-100	°C	100	°C		0.1 °C			
		100	°C	1,800	°C		0.1 %			
	Non-contact thermometers	-20	°C	0	°C		2.2 °C	Comparison with a reference standard	MKTT PR.1	
		0	°C	300	°C		1.6 °C			
		300	°C	550	°C		0.5 % + 0.6 °C			
		550	°C	1,100	°C		0.6 % + 0.5 °C			

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CMC for the field of measured quantity: Electrical quantities

Ord. nr.[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*	DC Voltage / Power supplies, calibrators, voltmeters, multimeters, inspection instruments	0 mV		to	1 mV			0.50 µV	Direct measurement using a multimeter	MKE-USS1, MKE-SRP.1	
		1 mV		to	10 mV			0.032 %			
		10 mV		to	100 mV			0.0040 %			
		100 mV		to	1 V			0.0008 %			
		1 V		to	1.9 V			0.0005 %			
		1.9 V		to	7 V			0.0007 %			
		7 V		to	19 V			0.0005 %			
		19 V		to	50 V			0.0008 %			
		50 V		to	190 V			0.0007 %			
		190 V		to	1,000 V			0.0009 %			
					1,000 V			0.0007 %			
		1 mV		to	10 mV			0.060 %	Direct generation with a calibrator	MKE-USS1, MKE-SRP.1	
		10 mV		to	100 mV			0.0065 %			
		100 mV		to	220 mV			0.0015 %			
		220 mV		to	2.2 V			0.0012 %			
		2.2 V		to	22 V			0.0007 %			
		22 V		to	1,000 V			0.0010 %			

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Ord. nr.[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
2*	AC Voltage / Power supplies, calibrators, voltmeters, multimeters, inspection instruments	2 mV		to	10 mV			0.40 %	Direct measurement using a multimeter	MKE-UST.1, MKE-SRP.1	
							10 Hz to 10 kHz				
							10 kHz to 30 kHz	0.80 %			
							30 kHz to 100 kHz	1.7 %			
		10 mV		to	20 mV		10 Hz to 100 Hz	0.080 %			
							100 Hz to 2 kHz	0.065 %			
							2 kHz to 10 kHz	0.080 %			
							10 kHz to 30 kHz	0.14 %			
							30 kHz to 100 kHz	0.32 %			
		20 mV		to	50 mV		10 Hz to 100 Hz	0.050 %			
							100 Hz to 2 kHz	0.045 %			
							2 kHz to 10 kHz	0.050 %			
							10 kHz to 30 kHz	0.090 %			
							30 kHz to 100 kHz	0.20 %			
		50 mV		to	100 mV		10 Hz to 100 Hz	0.035 %			
							100 Hz to 10 kHz	0.030 %			
							10k Hz to 30 kHz	0.060 %			
							30 kHz to 100 kHz	0.13 %			
		100 mV		to	190 mV		10 Hz to 100 Hz	0.030 %			
							100 Hz to 10 kHz	0.025 %			
							10 kHz to 30 kHz	0.050 %			
							30 kHz to 100 kHz	0.11 %			

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Ord. nr.[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
		190 mV		to	500 mV		10 Hz to 40 Hz	0.026 %			
							40 Hz to 100 Hz	0.023 %			
							100 Hz to 2 kHz	0.020 %			
							2 kHz to 10 kHz	0.022 %			
							10 kHz to 30 kHz	0.047 %			
							30 kHz to 100 kHz	0.17 %			
							100 kHz to 300 kHz	1.4 %			
		500 mV		to	1 V		10 Hz to 40 Hz	0.019 %			
							40 Hz to 100 Hz	0.015 %			
							100 Hz to 2 kHz	0.013 %			
							2 kHz to 10 kHz	0.014 %			
							10 kHz to 30 kHz	0.030 %			
							30 kHz to 100 kHz	0.10 %			
							100 kHz to 300 kHz	0.75 %			
		1 V		to	1.9 V		10 Hz to 40 Hz	0.016 %			
							40 Hz to 100 Hz	0.013 %			
							100 Hz to 2 kHz	0.010 %			
							2 kHz to 10 kHz	0.012 %			
							10 kHz to 30 kHz	0.026 %			
							30 kHz to 100 kHz	0.082 %			
							100 kHz to 300 kHz	0.55 %			
		1.9 V		to	5 V		10 Hz to 40 Hz	0.026 %			
							40 Hz to 100 Hz	0.022 %			
							100 Hz to 2 kHz	0.019 %			
							2 kHz to 10 kHz	0.022 %			
							10 kHz to 30 kHz	0.045 %			

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							30 kHz to 100 kHz	0.17 %			
							100 kHz to 300 kHz	1.4 %			
		5 V		to	10 V		10 Hz to 40 Hz	0.018 %			
							40 Hz to 100 Hz	0.015 %			
							100 Hz to 2 kHz	0.013 %			
							2 kHz to 10 kHz	0.017 %			
							10 kHz to 30 kHz	0.032 %			
							30 kHz to 100 kHz	0.11 %			
							100 kHz to 300 kHz	0.80 %			
		10 V		to	19 V		10 Hz to 40 Hz	0.016 %			
							40 Hz to 100 Hz	0.013 %			
							100 Hz to 2 kHz	0.010 %			
							2 kHz to 10 kHz	0.013 %			
							10 kHz to 30 kHz	0.027 %			
							30 kHz to 100 kHz	0.080 %			
							100 kHz to 300 kHz	0.55 %			
		19 V		to	50 V		10 Hz to 40 Hz	0.026 %			
							40 Hz to 100 Hz	0.022 %			
							100 Hz to 2 kHz	0.020 %			
							2 kHz to 10 kHz	0.021 %			
							10 kHz to 30 kHz	0.045 %			
							30 kHz to 100 kHz	0.16 %			
		50 V		to	100 V		10 Hz to 40 Hz	0.019 %			
							40 Hz to 100 Hz	0.015 %			
							100 Hz to 2 kHz	0.013 %			
							2 kHz to 10 kHz	0.015 %			

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Ord. nr.[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
							10 kHz to 30 kHz	0.031 %			
							30 kHz to 100 kHz	0.11 %			
		100 V		to	190 V		10 Hz to 40 Hz	0.017 %			
							40 Hz to 100 Hz	0.013 %			
							100 Hz to 2 kHz	0.011 %			
							2 kHz to 10 kHz	0.012 %			
							10 kHz to 30 kHz	0.026 %			
							30 kHz to 100 kHz	0.078 %			
		190 V		to	500 V		40 Hz to 10 kHz	0.032 %			
							10 kHz to 30 kHz	0.070 %			
					500 V		40 Hz to 10 kHz	0.023 %			
							10 kHz to 30 kHz	0.055 %			
		500 V		to	1,000 V		40 Hz to 10 kHz	0.040 %			
							10 kHz to 30 kHz	0.16 %			
		1 mV		to	2.2 mV		10 Hz to 50 kHz	0.60 %	Direct generation with a calibrator	MKE-UST1, MKE-SRP.1	
							50 kHz to 100 kHz	0.80 %			
		2.2 mV		to	10 mV		10 Hz to 100 kHz	0.32 %			
		10 mV		to	22 mV		10 Hz to 40 Hz	0.090 %			
							40 Hz to 20 kHz	0.067 %			
							20 kHz to 50 kHz	0.082 %			
							50 kHz to 100 kHz	0.13 %			
		22 mV		to	100 mV		10 Hz to 40 Hz	0.095 %			
							40 Hz to 20 kHz	0.050 %			
							20 kHz to 50 kHz	0.066 %			
							50 kHz to 100 kHz	0.15 %			

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							100 kHz to 300 kHz	0.23 %			
		100 mV		to	220 mV		10 Hz to 40 Hz	0.048 %			
							40 Hz to 20 kHz	0.019 %			
							20 kHz to 50 kHz	0.033 %			
							50 kHz to 100 kHz	0.076 %			
							100 kHz to 300 kHz	0.14 %			
		220 mV		to	1 V		10 Hz to 40 Hz	0.053 %			
							40 Hz to 20 kHz	0.011 %			
							20 kHz to 50 kHz	0.016 %			
							50 kHz to 100 kHz	0.033 %			
							100 kHz to 300 kHz	0.093 %			
		1 V		to	2.2 V		10 Hz to 40 Hz	0.039 %			
							40 Hz to 20 kHz	0.008 %			
							20 kHz to 50 kHz	0.012 %			
							50 kHz to 100 kHz	0.019 %			
							100 kHz to 300 kHz	0.070 %			
		2.2 V		to	22 V		10 Hz to 40 Hz	0.060 %			
							40 Hz to 20 kHz	0.008 %			
							20 kHz to 50 kHz	0.015 %			
							50 kHz to 100 kHz	0.023 %			
							100 kHz to 300 kHz	0.065 %			
		22 V		to	220 V		10 Hz to 40 Hz	0.055 %			
							40 Hz to 20 kHz	0.010 %			
							20 kHz to 50 kHz	0.015 %			
							50 kHz to 100 kHz	0.031 %			
		220 V		to	1,000 V		50 Hz to 1 kHz	0.011 %			

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Ord. nr.[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
	Peak-to-peak value of square wave AC voltage / Oscilloscopes						10 Hz to 100 kHz		Direct generation with a calibrator	MKE-UST1	
		1 mV		to	2 mV			0.30 % + 10 µV			
		2 mV		to	100 mV			0.20 % + 10 µV			
		100 mV		to	220 V			0.15 %			
3*	AC current / Power supplies, calibrators, ammeters, multimeters, clamp meters, inspection instruments								Direct measurement with a picoammeter	MKE-ISS1, MKE-SRP.1	
		1 nA		to	2 nA			0.40 %			
		2 nA		to	50 nA			0.30 %			
		50 nA		to	200 nA			0.20 %			
		200 nA		to	1 µA			0.25 %			
									Direct measurement with a multimeter or indirect measurement with a shunt	MKE-ISS1, MKE-SRP.1	
		1 µA		to	20 µA			0.011 %			
		20 µA		to	20 mA			0.0040 %			
		20 mA		to	0.1 A			0.011 %			
		0.1 A		to	1 A			0.0040 %			
		1 A		to	2 A			0.0060 %			
		2 A		to	60 A			0.011 %			
		60 A		to	200 A			0.015 %			

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Ord. nr.[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 A		to	600 A			0.040 %	Indirect measurement using a shunt and multimeter	MKE-ISS1, MKE-SRP.1	
		600 A		to	2,000 A			0.10 %			
		22 µA		to	100 µA			0.040 %	Direct generation with a calibrator	MKE-ISS1, MKE-SRP.1	
		100 µA		to	2.2 mA			0.0090 %			
		2.2 mA		to	22 mA			0.0070 %			
		22 mA		to	220 mA			0.0090 %			
		220 mA		to	2.2 A			0.016 %			
	DC current / Clamp meters, inspection instruments	200 A		to	2,000 A			0.2 %	Indirect measurement with a current coil	MKE-ISS1, MKE-SRP.1	
4*	AC current / Power supplies, calibrators, ammeters, multimeters, inspection instruments	10 µA		to	200 µA		40 Hz to 1 kHz	0.050 % + 22 nA	Direct measurement using a multimeter	MKE-IST1	
		200 µA		to	2 mA		40 Hz to 1 kHz	0.035 % + 0.22 µA	Direct measurement using a multimeter	MKE-SRP.1, MKE-IST1	
		2 mA		to	20 mA		40 Hz to 1 kHz	0.038 % + 2.2 µA			
		20 mA		to	200 mA		40 Hz to 1 kHz	0.037 % + 20 µA			
		200 mA		to	2 A		40 Hz to 1 kHz	0.082 % + 0.2 mA			
		2 A		to	20 A		40 Hz to 1 kHz	0.12 % + 2 mA			

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Ord. nr.[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		to	200 A		50 to 60 Hz	0.10 %	Indirect measurement using a current transformer and multimeter	MKE-IST1, MKE-SRP.1	
		200 A		to	2,500 A		50 Hz	0.20 %			
		22 µA		to	100 µA		40 Hz to 1 kHz	0.060 %	Direct generation with a calibrator	MKE-IST1, MKE-SRP.1	
		100 µA		to	5 mA		40 Hz to 1 kHz	0.035 %			
		5 mA		to	22 mA		40 Hz to 1 kHz	0.025 %			
		22 mA		to	220 mA		40 Hz to 1 kHz	0.028 %			
		220 mA		to	2.2 A		40 Hz to 1 kHz	0.050 %			
		2.2 A		to	20 A		40 Hz to 1 kHz	0.06 % + 1 mA			
5*	DC power / Wattmeters, network analyzers, inspection instruments (30 V to 500 V, 0.02 A to 200 A)	1 W		to	105 kW			0.060 %	Direct measurement with multimeters or indirect measurement with a shunt and multimeter	MKE-W1	
	AC power / Wattmeters, network analyzers, inspection instruments (30 V to 500 V, 0.02 A to 200 A, 50 Hz to 60 Hz, cosφ 0.5 to 1)	1 W		to	105 kW			0.060 %	Direct measurement with an energy meter	MKE-W1	
6*	Electrical resistance / Multimeters, resistors, ohmeters, resistance boxes, calibrators, inspection instruments				0.1 mΩ			0.0080 %	Direct generation by resistance standards	MKE-RSS1	

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Ord. nr.[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	mΩ		0.0020 %			
					0.01	Ω		0.0025 %			
					0.1	Ω		0.0025 %			
					1	Ω		0.0020 %	Direct generation by resistance standards	MKE-RSS1, MKE-SRP.1	
					10	Ω		0.0025 %			
					100	Ω		0.0020 %			
					1	kΩ		0.0015 %			
					10	kΩ		0.0015 %			
					100	kΩ		0.0020 %			
					1	MΩ		0.0035 %			
					10	MΩ		0.0050 %	Direct generation by resistance standards	MKE-RSS1, MKE-SRP.1	
					100	MΩ		0.0050 %			
					1	GΩ		0.010 %			
		0.1	mΩ	to	0.2	mΩ		0.040 %	Indirect measurement using a shunt and multimeter	MKE-RSS1, MKE-SRP.1	
		0.2	Ω	to	0.5	mΩ		0.0080 %			
		0.5	mΩ	to	0.9	mΩ		0.0060 %			
		0.9	mΩ	to	5	Ω		0.0040 %			
		5	Ω	to	200	kΩ		0.0030 %	Direct measurement using a multimeter	MKE-RSS1, MKE-SRP.1	
		200	kΩ	to	2	MΩ		0.0040 %			
		2	MΩ	to	20	MΩ		0.0060 %	Direct measurement using a multimeter	MKE-RSS1, MKE-SRP.1	

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Ord. nr.[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
		20 MΩ		to	200 MΩ			0.040 %			
		200 MΩ		to	300 MΩ			0.070 %			
		300 MΩ		to	500 MΩ			0.050 %			
		500 MΩ		to	1 GΩ			0.035 %			
		1 GΩ		to	2 GΩ			0.020 %			
		2 GΩ		to	10 GΩ			0.65 %			
		10 GΩ		to	20 GΩ			0.20 %			
		20 GΩ		to	250 GΩ		up to 10,000 V	0.50 %	Indirect measurement using a picoammeter and HF voltmeter	MKE-RSS, MKE-SRP.1	
		250 GΩ		to	1 TΩ			0.70 %			
					1 Ω			0.010 %	Direct generation with a calibrator	MKE-RSS1, MKE-SRP.1	
					1.9 Ω			0.010 %			
					10 Ω			0.0026 %			
					19 Ω			0.0026 %			
					100 Ω			0.0014 %			
					190 Ω			0.0014 %			
					1 kΩ			0.0011 %			
					1.9 kΩ			0.0011 %			
					10 kΩ			0.0011 %			
					19 kΩ			0.0011 %			
					100 kΩ			0.0015 %			
					190 kΩ			0.0015 %			
					1 MΩ			0.0026 %			
					1.9 MΩ			0.0026 %			

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Ord. nr.[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
					10 MΩ			0.0050 %			
					19 MΩ			0.0050 %			
					100 MΩ			0.015 %			
7*	Impedance module / Clamp meters, inspection instruments								Indirect measurement using a shunt and multimeter	MKE-Z1, MKE-SRP.1	
		0.1 mΩ		to	1 mΩ		50 Hz to 60 Hz	0.20 %			
		1 mΩ		to	0.1 Ω		50 Hz to 400 Hz	0.20 %			
		0.1 Ω		to	10 kΩ		50 Hz to 1 kHz	0.15 %			
		10 kΩ		to	10 MΩ		50 Hz to 60 Hz	0.30 %			
8*	Impedance / RLC bridges, resistance standards								Direct measurement on impedance standards	MKE-Z2	
					10 mΩ		100 Hz to 1 kHz	1.6 %			
							1 kHz to 100 kHz	5.0 %			
							100 kHz to 500 kHz	7.0 %			
							500 kHz to 1 MHz	9.0 %			
					100 mΩ		100 Hz to 1 kHz	0.16 %			
							1 kHz to 10 kHz	0.60 %			
							10 kHz to 300 kHz	0.80 %			
							300 kHz to 500 kHz	1.2 %			
							500 kHz to 1 MHz	2.3 %			
					1 Ω		100 Hz	0.030 %			
							100 Hz to 1 kHz	0.070 %			
							1 kHz to 10 kHz	0.12 %			
							10 kHz to 1 MHz	0.25 %			
					10 Ω		100 Hz	0.015 %			
							100 Hz to 1 kHz	0.060 %			

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Ord. nr.[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 kHz to 10 kHz	0.12 %			
						10 kHz to 1 MHz	0.25 %			
				100 Ω		100 Hz	0.015 %			
						100 Hz to 1 kHz	0.025 %			
						1 kHz to 10 kHz	0.060 %			
						10 kHz to 300 kHz	0.15 %			
						300 kHz to 1 MHz	0.60 %			
				1 kΩ		100 Hz	0.015 %			
						100 Hz to 1 kHz	0.025 %			
						1 kHz to 10 kHz	0.060 %			
						10 kHz to 300 kHz	0.15 %			
						300 kHz to 1 MHz	0.60 %			
				10 kΩ		100 Hz	0.015 %			
						100 Hz to 1 kHz	0.025 %			
						1 kHz to 10 kHz	0.060 %			
						10 kHz to 300 kHz	0.15 %			
						300 kHz to 1 MHz	0.60 %			
				100 kΩ		100 Hz to 1 kHz	0.025 %			
						1 kHz to 100 kHz	0.12 %			
						100 kHz to 300 kHz	0.40 %			
						300 kHz to 1 MHz	0.60 %			
				1 MΩ		100 Hz	0.060 %			
						100 Hz to 10 kHz	0.15 %			
						10 kHz to 100 kHz	0.60 %			
				10 MΩ		100 Hz	0.060 %			
						100 Hz to 10 kHz	0.15 %			

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				10 kHz to 100 kHz	0.60 %			
			100 MΩ	1 kHz	0.50 %			
	Capacity / RLC bridges, capacity standards		10 pF	1 kHz	0.015 %			
				1 kHz to 10 kHz	0.12 %			
				10 kHz to 100 kHz	0.25 %			
				100 kHz to 1 MHz	0.60 %			
			100 pF	100 Hz to 1 kHz	0.30 %			
				1 kHz	0.015 %			
				1 kHz to 10 kHz	0.060 %			
				10 kHz to 100 kHz	0.15 %			
				100 kHz to 1 MHz	0.25 %			
			1 nF	100 Hz to 1 kHz	0.12 %			
				1 kHz	0.015 %			
				1 kHz to 100 kHz	0.060 %			
				100 kHz to 1 MHz	0.15 %			
			10 nF	100 Hz to 1 kHz	0.060 %			
				1 kHz	0.015 %			
				1 kHz to 100 kHz	0.060 %			
				100 kHz to 1 MHz	0.15 %			
			100 nF	100 Hz to 1 kHz	0.060 %			
				1 kHz	0.015 %			
				1 kHz to 10 kHz	0.060 %			
				10 kHz to 1 MHz	0.15 %			
			1 µF	100 Hz to 1 kHz	0.070 %			
				1 kHz	0.030 %			

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Ord. nr.[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 kHz to 10 kHz	0.070 %			
						10 kHz to 100 kHz	0.15 %			
				10	µF	100 Hz to 1 kHz	0.15 %			
						1 kHz to 10 kHz	0.25 %			
				100	µF	100 Hz	0.15 %			
						100 Hz to 1 kHz	0.25 %			
						1 kHz to 10 kHz	0.70 %			
				1,000	µF	100 Hz	0.70 %			
						100 Hz to 1 kHz	1.2 %			
	Inductance / RLC bridges, inductance standards			10	µH	100 Hz	1.2 %			
						1 kHz	0.40 %			
						10 kHz	0.15 %			
				100	µH	100 Hz	0.60 %			
						1 kHz	0.15 %			
						10 kHz	0.15 %			
				1	mH	100 Hz	0.25 %			
						1 kHz	0.12 %			
						10 kHz	0.10 %			
				2	mH	1 kHz	0.070 %			
				10	mH	1 kHz	0.050 %			
				100	mH	1 kHz	0.050 %			
				1	H	1 kHz	0.050 %			
				10	H	1 kHz	0.050 %			
	Impedance / Resistance	0.02 Ω	to	0.2	Ω	100 Hz to 10 kHz	0.50 %	Direct measurement	MKE-Z2	

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	standards, resistance boxes, resistance meters						20 kHz	1.0 %	using a RLC bridge		
		0.2 Ω		to	2 Ω		100 Hz to 10 kHz	0.30 %			
							20 kHz	0.50 %			
		2 Ω		to	20 kΩ		100 Hz to 10 kHz	0.10 %			
							20 kHz	0.20 %			
		20 kΩ		to	200 kΩ		100 Hz to 10 kHz	0.20 %			
							20 kHz	0.50 %			
		0.2 MΩ		to	2 MΩ		100 Hz to 20 kHz	1.0 %			
		2 MΩ		to	20 MΩ		100 Hz to 4 kHz	2.0 %			
							10 kHz	3.0 %			
							20 kHz	5.0 %			
	Capacity / Capacity standards, capacity decades, capacity meters	2 pF		to	20 pF		10 kHz	0.30 %			
							20 kHz	1.5 %			
		20 pF		to	200 pF		1 kHz to 4 kHz	0.30 %			
							10 kHz	0.20 %			
							20 kHz	1.0 %			
		0.2 nF		to	2 nF		100 Hz to 400 Hz	0.30 %			
							1 kHz to 4 kHz	0.20 %			
							10 kHz	0.10 %			
							20 kHz	0.50 %			
		2 nF		to	20 nF		100 Hz to 400 Hz	0.20 %			
							1 kHz to 10 kHz	0.10 %			

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Ord. nr.[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
							20 kHz	0.50 %			
		20 nF		to	200 nF		100 Hz to 10 kHz	0.10 %			
							20 kHz	0.50 %			
		0.2 µF		to	2 µF		100 Hz to 4 kHz	0.10 %			
							10 kHz	0.50 %			
							20 kHz	1.0 %			
		2 µF		to	20 µF		100 Hz to 400 Hz	0.10 %			
							1 kHz to 4 kHz	0.50 %			
							10 kHz	1.0 %			
							20 kHz	2.0 %			
		20 µF		to	200 µF		100 Hz to 400 Hz	0.50 %			
							1 kHz to 4 kHz	1.0 %			
							10 kHz	2.0 %			
							20 kHz	5.0 %			
		0.2 mF		to	2 mF		100 Hz to 400 Hz	1.0 %			
							1 kHz to 4 kHz	2.0 %			
							10 kHz	5.0 %			
							20 kHz	10 %			
	Inductance / Inductance standards, inductance decades, inductance meters	0.2 µH		to	2 µH		10 kHz	1.0 %			
							20 kHz	2.0 %			
		2 µH		to	20 µH		1 kHz to 4 kHz	1.0 %			
							10 kHz	0.50 %			
							20 kHz	1.0 %			

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		20 µH		to	200 µH		100 Hz to 400 Hz	1.0 %			
							1 kHz to 20 kHz	0.50 %			
		0.2 mH		to	2 mH		100 Hz to 400 Hz	0.50 %			
							1 kHz to 10 kHz	0.10 %			
							20 kHz	0.50 %			
		2 mH		to	20 mH		100 Hz to 10 kHz	0.10 %			
							20 kHz	0.50 %			
		20 mH		to	200 mH		100 Hz to 4 kHz	0.10 %			
							10 kHz	0.50 %			
							20 kHz	1.0 %			
		0.2 H		to	2 H		100 Hz to 400 Hz	0.10 %			
							1 kHz to 4 kHz	0.50 %			
							10 kHz	2.0 %			
							20 kHz	5.0 %			
		2 H		to	20 H		100 Hz to 400 Hz	0.50 %			
							1 kHz to 4 kHz	2.0 %			
							10 kHz	5.0 %			
							20 kHz	10 %			
9*	HF voltage peak-to-peak value / HF voltage meters, oscilloscopes, HF millivoltmeters, frequency analyzers, function generators, signal generators								Direct generation in the plane of the connecting BNC connector of 50 Ω	MKE-UVF1	
		5 mV		to	5 V		100 kHz to 300 MHz	3.7 %			
							300 MHz to 550 MHz	4.2 %			

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		5 mV		to	3 V		550 MHz to 1.1 GHz	5.2 %			
							1.1 GHz to 2.5 GHz	5.9 %			
		5 mV		to	2 V		2.5 GHz to 3.2 GHz	5.9 %			
	HF voltage effective value / HF voltage meters, oscilloscopes, HF millivoltmeters, frequency analyzers, function generators, signal generators								Direct measurement by a HF millivoltmeter in the plane of N connector of 50 Ω	MKE-UVF1	
		1 mV		to	2 mV		100 kHz to 100 MHz	3.6 %			
		2 mV		to	10 mV			2.8 %			
		10 mV		to	10 V			2.5 %			
		1 mV		to	2 mV		100 MHz to 200 MHz	4.2 %			
		2 mV		to	10 mV			3.4 %			
		10 mV		to	1 V			3.0 %			
		1 V		to	10 V			4.2 %			
		1 mV		to	2 mV		200 MHz to 500 MHz	4.5 %			
		2 mV		to	10 mV			3.7 %			
		10 mV		to	1 V			3.3 %			
		1 V		to	10 V			4.9 %			
10*	High AC voltage / Meters, inspection instruments	1 kV		to	48 kV		50 Hz	0.060 %	Direct generation, comparison with a HV transformer	MKE-UVNST1, MKE-SRP.1	
	High AC voltage / Power supplies, inspection instruments								Direct measurement with a HV probe	MKE-UVNST1, MKE-SRP.1	
		1 kV		to	48 kV		50 Hz	0.060 %			
		48 kV		to	50 kV			1.2 %			

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Ord. nr.[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					
		50 kV	to	70 kV			1.3 %			
		70 kV	to	100 kV			1.2 %			
11*	High DC voltage / Power supplies, inspection instruments	1 kV	to	100 kV			0.20 %	Direct measurement with a HV probe	MKE-UVNSS1, MKE-SRP.1	
	High DC voltage / Meters, inspection instruments	1 kV	to	80 kV			0.20 %	Direct generation, comparison with a HV probe	MKE-UVNSS1, MKE-SRP.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).

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CMC for the field of measured quantity: Light quantities

Ord. nr.[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	Illumination / Luxmeters	1	Lx	to 30,000	Lx		2.5 %	Comparison with a luxmeter	MK-LUX1	

[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. 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. nr.[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*	Frequency / Frequency meters, counters, frequency analyzers, function generators, signal generators, frequency references, reference oscillators, multimeters, calibrators	0.001 Hz	to	50 MHz			U ≥ 2.2 V TTL/50 Ω	$3.5 \cdot 10^{-11}$	Direct generation by a GPS receiver or generator	MKF-f1	
		50 MHz	to	1 GHz			U ≥ 1 V sine / 50 Ω	$1.0 \cdot 10^{-9}$			
		1 GHz	to	3.2 GHz			U ≥ 2 $V_{šš}$ / 50 Ω	$3.0 \cdot 10^{-10}$			
				1 MHz		U_{vst} ≥ 1 V_{ef}, signal to noise ratio ≥ 60 dB	τ from 100 s to 200 s	$4.0 \cdot 10^{-11}$	Indirect measurement with a GPS receiver and counter	MKF-f1	
							τ from 200 s to 2,000 s	$6.0 \cdot 10^{-12}$			
				5 MHz		U_{vst} ≥ 1 V_{ef}, signal to noise ratio ≥ 60 dB	τ from 100 s to 200 s	$4.0 \cdot 10^{-11}$			
							τ from 200 s to 2,000 s	$6.0 \cdot 10^{-12}$			
				10 MHz		U_{vst} ≥ 1 V_{ef}, signal to noise ratio ≥ 60 dB	τ from 100 s to 200 s	$4.0 \cdot 10^{-11}$			
							τ from 200 s to 2,000 s	$6.0 \cdot 10^{-12}$			

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Ord. nr.[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
		0.001 Hz 100 Hz		to	100 Hz 350 MHz		pulse signals	τ over 10 s τ over 1 s	$5.0 \cdot 10^{-10}$ $5.0 \cdot 10^{-10}$	Direct measurement by a counter	MKF-f1, MKE-SRP.1	
		1 Hz 30 Hz 300 Hz		to	30 Hz 300 Hz 100 kHz		$U_{vst} \geq 1\ V_{ef}$, signal to noise ratio ≥ 60 dB	τ over 10 s τ over 1 s	$5 \cdot 10^{-5}$ Hz $3 \cdot 10^{-4}$ Hz $5 \cdot 10^{-5}$ Hz			
		100 kHz 300 kHz 350 MHz		to	300 kHz 350 MHz 6 GHz				$6.0 \cdot 10^{-10}$ $5.0 \cdot 10^{-10}$ $3.0 \cdot 10^{-10}$	Direct measurement by a counter	MKF-f1	
2*	Time interval / Time meters, counters, oscilloscopes, function generators, pulse generators, digital and mechanical stopwatches, timers, inspection instruments	1 ns 4 ns 10 ns		to	4 ns 10 ns 100 ns		$U_{šš} \geq 1$ V	50 Ω	0.70 ns 4.5% +0.5 ns 5.5% +0.5 ns	Direct generation with a calibrator	MKF-t1	
		100 ns 1 µs 100 s		to	1 µs 100 s 10^5 s		U ≥ 2.2 V TTL	50 Ω	2.0 ns 4.0 ns $3.5 \cdot 10^{-11}$	Direct generation by a GPS receiver		
	Pulse signal period / Time meters, counters, oscilloscopes, function generators, pulse	2.85 ns		to	10 ms		$U_{inp} \geq 1$ V	τ over 10 s	$5.0 \cdot 10^{-10}$	Direct measurement by a counter	MKF-t1	

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Ord. nr.[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					
	generators, digital and mechanical stopwatches, timers, inspection instruments	10 ms	to	1,000	s	τ over 1 s	$5.0 \cdot 10^{-10}$			
	Pulse signal duration / Time meters, counters, oscilloscopes, function generators, pulse generators, digital and mechanical stopwatches, timers, inspection instruments	5 ns 10 s	to to	10 s 10^5 s		$U_{inp} \geq 1$ V	1.0 ns $5.0 \cdot 10^{-10}$	Direct measurement by a counter	MKF-t1, MKE-SRP.1	
		10^5 s	to	$4 \cdot 10^5$ s			$3.6 \cdot 10^{-8}$	Direct comparison with a calibrator	MKF-t1	

[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. 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: Humidity

Ord. nr.[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								Comparison with a humidity meter in a climatic chamber	MKRV.1	
		5	% RH	to	10 % RH	Temperature	(15 to 70) °C	2.4 % RH			
		10	% RH	to	30 % RH	Temperature	(15 to 70) °C	1.2 % RH			
		30	% RH	to	70 % RH	Temperature	(15 to 70) °C	1.3 % RH			
		70	% RH	to	90 % RH	Temperature	(15 to 70) °C	1.4 % RH			

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

[2] The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02, 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).