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Český institut pro akreditaci, o.p.s.
Olšanská 54/3, 130 00 Praha 3

issues

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

CERTIFICATE OF ACCREDITATION

No. 325/2024

MEROS, spol. s r.o.
with registered office Starozuberská 1453, 756 54 Zubří,
Company Registration No. 42866014

for the Calibration Laboratory No. 2249
MEROS Calibration Laboratory

Scope of accreditation:

Calibration in the fields of length, speed, pressure, temperature, air humidity, electrical quantities, optical 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 Conformity Assessment 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.: 236/2023 of 11. 5. 2023, or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **8. 7. 2029**

Prague: 8. 7. 2024



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



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 measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
		min	unit	max					
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			
		0 mm	to	1,000 mm		(20 L + 100) μm			
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			

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

² The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02 M a part of CMC and it is the lowest value of the respective uncertainty. If not stated otherwise, its coverage probability is approx. 95 %. If not stated otherwise, the uncertainty values stated without a unit are relative to the measured value. The uncertainty value stated herein is based on the best conditions achievable by the laboratory; the uncertainty value of a specific calibration may be higher depending on the conditions of such a calibration. For identical extreme values of adjacent ranges, the lower uncertainty value always applies.

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

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 measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
		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		1.0·10 ⁻⁶	Simulation by AC voltage	MKF-OI	
		1 min ⁻¹	to 60 min ⁻¹		0.00020 min ⁻¹	Simulation by an optical transducer	MKF-OI	
		60 min ⁻¹	to 100,000 min ⁻¹		1.5·10 ⁻⁶			
		1 min ⁻¹	to 5 min ⁻¹		0.25 %	Direct generation by a speed standard – contact and non-contact method	MKF-OI	
		5 min ⁻¹	to 20 min ⁻¹		0.070 %			
		20 min ⁻¹	to 10,000 min ⁻¹		0.0060 %			
		1 min ⁻¹	to 60 min ⁻¹	measurement time at least 4 min	0.11 %	Comparison with a reference stopwatch	MKF-OI	

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

Ord. number ¹	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location	
		min	max						unit
1*	Deformation and digital manometers, pressure transducers, differential pressure measuring chains	0 kPa	to	1 kPa	Gauge pressure	gas	MKMP TL.2		
		1 kPa	to	10 kPa					0.1 % + 0.0015 kPa
		10 kPa	to	200 kPa					0.04 % + 0.004 kPa
		200 kPa	to	600 kPa					0.05 % + 0.03 kPa
		600 kPa	to	2,000 kPa					0.06 % + 0.05 kPa
		0 kPa	to	1 kPa	Vacuum	gas			0.07 % + 0.11 kPa
		1 kPa	to	90 kPa					0.1 % + 1.5 Pa
		0 MPa	to	2 MPa	Gauge pressure	liquid			0.05 % + 13 Pa
		2 MPa	to	10 MPa					0.05 % + 0.3 kPa
		10 MPa	to	25 MPa					0.06 % + 1 kPa
		25 MPa	to	60 MPa					0.05 % + 5 kPa
		5 kPa	to	2,000 kPa	Absolute pressure	gas			0.06 % + 9 kPa
		2,000 kPa	to	10,000 kPa					0.05 % + 0.3 kPa
10,000 kPa	to	25,000 kPa	Absolute pressure	liquid	0.07 % + 1.2 kPa				
500 hPa	to	1,100 hPa			0.06 % + 4 kPa				
			Barometric pressure		0.4 hPa				

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CMC for the field of measured quantity: Temperature

Ord. nr.¹	Calibrated quantity / Subject of calibration	Nominal range			Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty²	Calibration principle	Calibration procedure identification³	Location
		min	unit	max					
1*	Resistance thermometers	-80 °C	to	-30 °C		0.12 °C 0.08 °C 0.05 °C 0.07 °C 0.08 °C	Comparison with a resistance temperature sensor in a liquid bath	MKTT OT.2	
		-30 °C	to	0 °C					
		0 °C	to	150 °C					
		150 °C	to	260 °C					
2	Thermocouple temperature sensors	260 °C	to	420 °C		0.4 °C 0.65 °C	Comparison with a resistance temperature sensor in a calibrating oven	MKTT TE.2	
		420 °C	to	660 °C					
		-80 °C	to	420 °C					
		420 °C	to	660 °C					
3	Electronic thermometers	660 °C	to	1,100 °C		1.5 °C 2.0 °C	Comparison with thermoelectric temperature sensor in a horizontal furnace	MKTT ET.2	
		1,100 °C	to	1,300 °C					
		-80 °C	to	-20 °C					
		-20 °C	to	0 °C					
						0.05 °C			



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Ord. nr.1	Calibrated quantity / Subject of calibration	Nominal range			Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
		min	unit	max					
		0 °C	to	150 °C		0.07 °C	Comparison with a resistance temperature sensor in a calibrating oven		
		150 °C	to	260 °C		0.08 °C			
		260 °C	to	420 °C	0.4 °C				
		420 °C	to	660 °C	0.65 °C				
4	Glass thermometers	660 °C	to	1,000 °C		1.4 °C 1.5 °C 2.0 °C	Comparison with thermoelectric temperature sensor in a horizontal furnace	MKTT ET.2	
		1,000 °C	to	1,100 °C					
		1,100 °C	to	1,300 °C					
5	Non-contact thermometers	-40 °C	to	-20 °C		0.12 °C 0.07 °C 0.15 °C	Comparison with a resistance temperature sensor in a liquid bath	MKTT ST.2	
		-20 °C	to	200 °C					
		200 °C	to	300 °C					
		-20 °C	to	300 °C		1.2 °C	Comparison with a standard black body	MKTT PR.1	
		300 °C	to	1,100 °C		0.6 %			



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Ord. nr. ¹	Calibrated quantity / Subject of calibration	Nominal range			Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
		min	unit	max					
6	Temperature measuring chains with thermocouple type B, C, D, E, J, K, N, R, T, S, resistance thermometers, voltage and current output of transducers	-200 °C		to	-100 °C	0.1 %	Comparison with a calibrator or electrical measurement with a multimeter	MKTT TX.1	
		-100 °C		to	100 °C	0.1 %			
		100 °C		to	1,800 °C	0.1 %			

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CMC for the field of measured quantity: Air humidity

Ord. nr. 1	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
		min	max					
1*	Relative humidity / Humidity meters	5 % RH	to 10 % RH	(18 to 28) °C	2.4 % RH	Comparison with a humidity meter in a climatic chamber	MKRV.1	
		10 % RH	to 30 % RH		1.2 % RH			
		30 % RH	to 70 % RH		1.3 % RH			
		70 % RH	to 95 % RH		1.4 % RH			
		5 % RH	to 50 % RH	(10 to 18) and (28 to 40) °C	1.8 % RH			
		50 % RH	to 95 % RH	(40 to 70) °C	2.4 % RH			
					2.8 % RH			
					3.6 % RH			

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CMC for the field of measured quantity: Electrical quantities

Ord. nr.!	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location	
		min	max						unit
1*	DC Voltage / Power supplies, calibrators, inspection instruments	0 mV	to	1 mV	0.50 μ V	Direct measurement using a multimeter	MKE-USSI, 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 %				
2*	Direct-current voltage/ voltmeters, multimeters and inspection equipment	1 mV	to	10 mV		Direct generation with a calibrator	MKE-USSI, MKE-SRP.1		
		10 mV	to	100 mV					0.060 %
		100 mV	to	220 mV					0.0065 %
		220 mV	to	2.2 V					0.0015 %
		2.2 V	to	22 V					0.0012 %
22 V	to	1,000 V	0.0007 %						
				1,000 V	0.0010 %				
3*	AC Voltage / Power supplies, calibrators, inspection instruments	2 mV	to	10 mV		Direct measurement using a multimeter	MKE-UST.1, MKE-SRP.1		
									0.40 %
									0.80 %
					1.7 %				



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Ord. nr. ¹	Calibrated quantity / Subject of calibration		Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
	min	unit	max	unit					
	10 mV		to	20 mV	10 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz	0.080 % 0.065 % 0.080 % 0.14 % 0.32 %			
	20 mV		to	50 mV	10 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz	0.050 % 0.045 % 0.050 % 0.090 % 0.20 %			
	50 mV		to	100 mV	10 Hz to 100 Hz 100 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz	0.035 % 0.030 % 0.060 % 0.13 %			
	100 mV		to	190 mV	10 Hz to 100 Hz 100 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz	0.030 % 0.025 % 0.050 % 0.11 %			
	190 mV		to	500 mV	10 Hz to 40 Hz 40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 100 kHz to 300 kHz	0.026 % 0.023 % 0.020 % 0.022 % 0.047 % 0.17 % 1.4 %			



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		min unit	max unit					
		500 mV	to 1 V	10 Hz to 40 Hz 40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 100 kHz to 300 kHz	0.019 % 0.015 % 0.013 % 0.014 % 0.030 % 0.10 % 0.75 %			
		1 V	to 1.9 V	10 Hz to 40 Hz 40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 100 kHz to 300 kHz	0.016 % 0.013 % 0.010 % 0.012 % 0.026 % 0.082 % 0.55 %			
		1.9 V	to 5 V	10 Hz to 40 Hz 40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 100 kHz to 300 kHz	0.026 % 0.022 % 0.019 % 0.022 % 0.045 % 0.17 % 1.4 %			
		5 V	to 10 V	10 Hz to 40 Hz 40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 100 kHz to 300 kHz	0.018 % 0.015 % 0.013 % 0.017 % 0.032 %			



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		min	unit	max					
		10 V		to	19 V	30 kHz to 100 kHz 100 kHz to 300 kHz	0.11 % 0.80 %		
						10 Hz to 40 Hz 40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 100 kHz to 300 kHz	0.016 % 0.013 % 0.010 % 0.013 % 0.027 % 0.080 % 0.55 %		
		19 V		to	50 V	10 Hz to 40 Hz 40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz	0.026 % 0.022 % 0.020 % 0.021 % 0.045 % 0.16 %		
		50 V		to	100 V	10 Hz to 40 Hz 40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz	0.019 % 0.015 % 0.013 % 0.015 % 0.031 % 0.11 %		
		100 V		to	190 V	10 Hz to 40 Hz 40 Hz to 100 Hz 100 Hz to 2 kHz 2 kHz to 10 kHz 10 kHz to 30 kHz	0.017 % 0.013 % 0.011 % 0.012 % 0.026 %		



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Ord. nr.1	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
		min unit	max unit					
4*	Alternating-current voltage / Voltmeters, multimeters, inspection equipment	190 V	to 500 V	30 kHz to 100 kHz	0.078 %	Direct generation with a calibrator	MKE-UST1, MKE-SRP.1	
				40 Hz to 10 kHz	0.032 %			
				10 kHz to 30 kHz	0.070 %			
		500 V	to 1,000 V	40 Hz to 10 kHz	0.023 %			
				10 kHz to 30 kHz	0.055 %			
				40 Hz to 10 kHz	0.040 %			
		1 mV	to 2.2 mV	10 Hz to 50 kHz	0.60 %			
				50 kHz to 100 kHz	0.80 %			
				10 Hz to 100 kHz	0.32 %			
		2.2 mV	to 10 mV	10 Hz to 40 Hz	0.090 %			
				40 Hz to 20 kHz	0.067 %			
				20 kHz to 50 kHz	0.082 %			
10 mV	to 22 mV	50 kHz to 100 kHz	0.13 %					
		10 Hz to 40 Hz	0.095 %					
		40 Hz to 20 kHz	0.050 %					
22 mV	to 100 mV	20 kHz to 50 kHz	0.066 %					
		50 kHz to 100 kHz	0.15 %					
		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 %					



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		min unit	max unit	unit					
		220 mV	to	1 V	10 Hz to 40 Hz 40 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 300 kHz	0.053 % 0.011 % 0.016 % 0.033 % 0.093 %			
		1 V	to	2.2 V	10 Hz to 40 Hz 40 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 300 kHz	0.039 % 0.008 % 0.012 % 0.019 % 0.070 %			
		2.2 V	to	22 V	10 Hz to 40 Hz 40 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 300 kHz	0.060 % 0.008 % 0.015 % 0.023 % 0.065 %			
		22 V	to	220 V	10 Hz to 40 Hz 40 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz	0.055 % 0.010 % 0.015 % 0.031 %			
		220 V	to	1,000 V	50 Hz to 1 kHz	0.011 %			
5*	Peak-to-peak value of square wave AC voltage / Oscilloscopes	1 mV 2 mV 100 mV	to to to	2 mV 100 mV 220 V	10 Hz to 100 kHz	0.30 % + 10 μV 0.20 % + 10 μV 0.15 %	Direct generation with a calibrator	MKE-UST1	



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Ord. nr.¹	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty²	Calibration principle	Calibration procedure identification³	Location
		min	max					
6*	AC current / Power supplies, calibrators, inspection instruments	1 nA	to 2 nA		0.40 % 0.30 % 0.20 % 0.25 %	Direct measurement with a picoammeter	MKE-ISSI, MKE-SRP.1	
		2 nA	to 50 nA					
		50 nA	to 200 nA					
		200 nA	to 1 µA					
		1 µA	to 20 µA					
		20 µA	to 20 mA					
		20 mA	to 0.1 A					
		0.1 A	to 1 A					
		1 A	to 2 A					
		2 A	to 60 A					
7*	DC current / Ammeters, multimeters, clamp meters, inspection instruments	60 A	to 200 A		0.011 % 0.0040 % 0.011 % 0.0040 % 0.0060 % 0.011 % 0.015 % 0.040 % 0.10 %	Direct measurement with a multimeter or indirect measurement with a shunt multimeter	MKE-ISSI, MKE-SRP.1	
		200 A	to 600 A					
		600 A	to 2,000 A					
		1 nA	to 2 nA					
		2 nA	to 50 nA					
		50 nA	to 200 nA					
		200 nA	to 1 µA					
		1 µA	to 20 µA					



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		min unit	max unit					
		20 µA 20 mA 0.1 A 1 A 2 A 60 A 200 A 600 A	to to to to to to to to	20 mA 0.1 A 1 A 2 A 60 A 200 A 600 A	0.0040 % 0.011 % 0.0040 % 0.0060 % 0.011 % 0.015 % 0.040 % 0.10 %	using a shunt multimeter		
8*	DC current / Ammeters, multimeters, clamp meters, inspection instruments	22 µA 100 µA 2.2 mA 22 mA 220 mA	to to to to to	100 µA 2.2 mA 22 mA 220 mA	0.040 % 0.0090 % 0.0070 % 0.0090 % 0.016 %	Direct generation with a calibrator	MKE-ISSI, MKE-SRP.1	
9*	DC current / Clamp meters, inspection instruments	200 A	to	2,000 A	0.2 %	Indirect measurement with a current coil	MKE-ISSI, MKE-SRP.1	
10*	AC current / Power supplies, calibrators, inspection instruments	10 µA 200 µA 2 mA 20 mA	to to to to	200 µA 2 mA 20 mA 200 mA	0.050 % + 22 nA 0.035 % + 0.22 µA 0.038 % + 2.2 µA 0.037 % + 20 µA	Direct measurement using a multimeter	MKE-ISTI MKE-ISTI, MKE-SRP.1	



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Ord. nr.1	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location	
		min unit	max unit						
11*		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				
	AC current / Ammeters, multimeters, inspection instruments	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 %				
		100 µA	to 5 mA	40 Hz to 1 kHz	0.035 %				
	DC power / Wattmeters, network analyzers, inspection instruments (30 V to 500 V, 0.02 A to 200 A)	5 mA	to 22 mA	40 Hz to 1 kHz	0.025 %	Direct generation with a calibrator	MKE-IST1, MKE-SRP.1		
		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				
		1 W	to 105 kW		0.060 %				
AC power / Power supplies, calibrators (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 multimeters or indirect measurement with a shunt and multimeter	MKE-W1			
	1 W	to 105 kW		0.060 %					
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			
	1 W	to 105 kW		0.060 %					



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Ord. nr.¹	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty²	Calibration principle	Calibration procedure identification³	Location
		min	max					
12*	DC resistance / Multimeters, resistors, ohmmeters, resistance boxes, calibrators, inspection instruments			0.1 mΩ 1 mΩ 0.01 Ω 0.1 Ω 1 Ω 1.9 Ω 10 Ω 19 Ω 100 Ω 190 Ω 1 kΩ 1.9 kΩ 10 kΩ 19 kΩ 100 kΩ 190 kΩ 1 MΩ 1.9 MΩ 10 MΩ 19 MΩ 100 MΩ 1 GΩ	0.0080 % 0.0020 % 0.0025 % 0.0025 % 0.0020 % 0.010 % 0.0026 % 0.0026 % 0.0014 % 0.0014 % 0.0011 % 0.0011 % 0.0011 % 0.0011 % 0.0015 % 0.0015 % 0.0026 % 0.0026 % 0.0050 % 0.0050 % 0.0050 % 0.010 %	Direct generation by resistance standards	MKE-RSSI	



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Ord. nr.1	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
		min unit	max unit					
		0.1 mΩ	to 0.2 mΩ		0.040 %	Indirect measurement using a shunt and multimeter	MKE-RSSI MKE-SRP.1	
		0.2 mΩ	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-RSSI, MKE-SRP.1	
		200 kΩ	to 2 MΩ		0.0040 %			
		2 MΩ	to 20 MΩ		0.0060 %			
		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	do 10000 V	0.50 %	Indirect measurement using a picoammeter and HF voltmeter	MKE-RSS, MKE-SRP.1	
		250 GΩ	to 1 TΩ		0.70 %			
13*	Impedance module / Resistance standards, resistance boxes, resistance meters, clamp meters, inspection meters	0.1 mΩ	to 0.1 Ω	50 Hz to 60 Hz	0.2 %			
		0.1 Ω	to 10 Ω	50 Hz to 1 kHz	0.2 %			
						VA method	MKE-Z2, MKE-SRP.1	



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Ord. nr.¹	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty²	Calibration principle	Calibration procedure identification³	Location
		min	max					
14*	Impedance module, AC resistance / resistance standards, meters, RLC bridges	100 mΩ		20 Hz to 50 Hz	0.30 %	Comparison by substitution or direct measurement of impedance standard	MKE-Z2	
				50 Hz to 10 kHz	0.14 %			
		1 Ω		20 Hz to 100 Hz	0.035 %			
				100 Hz	0.015 %			
		10 Ω		100 Hz to 1 kHz	0.020 %			
				1 kHz	0.015 %			
		100 Ω		1 kHz to 10 kHz	0.025 %			
				10 kHz	0.020 %			
		100 Ω		10 kHz to 100 kHz	0.090 %			
				20 Hz to 100 Hz	0.016 %			
		100 Ω		100 Hz	0.011 %			
				100 Hz to 1 kHz	0.016 %			
		100 Ω		1 kHz	0.011 %			
				1 kHz to 10 kHz	0.016 %			
100 Ω		10 kHz	0.011 %					
		10 kHz to 100 kHz	0.045 %					
100 Ω		100 kHz	0.040 %					
		100 kHz to 1 MHz	0.15 %					
100 Ω		20 Hz to 100 Hz	0.016 %					
		100 Hz	0.011 %					
100 Ω		100 Hz to 1 kHz	0.016 %					
		1 kHz	0.011 %					
100 Ω		1 kHz to 10 kHz	0.016 %					
		10 kHz	0.011 %					



The Appendix is an integral part of
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Ord. nr.¹	Calibrated quantity / Subject of calibration		Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty²	Calibration principle	Calibration procedure identification³	Location	
	min	unit	max	unit						
					10 kHz to 100 kHz 100 kHz 100 kHz to 1 MHz	0.040 % 0.035 % 0.15 %				
			1	kΩ	20 Hz to 100 Hz 100 Hz 100 Hz to 1 kHz 1 kHz 1 kHz to 10 kHz 10 kHz 10 kHz to 100 kHz 100 kHz 100 kHz to 1 MHz	0.016 % 0.011 % 0.016 % 0.011 % 0.016 % 0.011 % 0.040 % 0.035 % 0.15 %				
					10 kΩ	0.016 % 0.011 % 0.016 % 0.011 % 0.016 % 0.011 % 0.040 % 0.035 % 0.15 %				
					100 kΩ	0.020 % 0.011 % 0.016 % 0.011 % 0.020 %				



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Ord. nr.1	Calibrated quantity / Subject of calibration		Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
	min	unit	max	unit					
15*		Impedance module, AC resistance / Resistance standards, boxes, meters, clamp meters, inspection meters, RLC bridges	10 mΩ	to	100 MΩ	10 kHz	0.015 %	Direct measurement or comparison by substitution with a reference RLC bridge	MKE-Z2
						10 kHz to 100 kHz	0.20 %		
						20 Hz to 100 Hz	0.035 %		
						100 Hz	0.018 %		
						100 Hz to 1 kHz	0.025 %		
						1 kHz	0.018 %		
						1 kHz to 10 kHz	0.060 %		
						10 kHz	0.050 %		
						10 kHz to 100 kHz	0.50 %		
						20 Hz to 100 Hz	0.10 %		
						100 Hz	0.050 %		
						100 Hz to 1 kHz	0.055 %		
						1 kHz	0.050 %		
						1 kHz to 10 kHz	0.18 %		
						20 Hz to 100 Hz	0.40 %		
100 Hz to 1 kHz	0.50 %								
20 Hz to 50 Hz		4 mΩ							
50 Hz to 100 Hz		3 mΩ							
100 Hz to 500 Hz		2.2 mΩ							
500 Hz to 5 kHz		1.5 mΩ							
5 kHz to 500 kHz		1 mΩ							
500 kHz to 1 MHz		2 mΩ							



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Ord. nr.1	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
		min unit	max unit					
		100 mΩ	to 1000 mΩ	20 Hz to 50 Hz 50 Hz to 100 Hz 100 Hz to 500 Hz 500 Hz to 5 kHz 5 kHz to 500 kHz 500 kHz to 1 MHz	7 mΩ 6 mΩ 4 mΩ 3.5 mΩ 3 mΩ 7 mΩ			
		1 Ω	to 10 Ω	20 Hz to 50 Hz 50 Hz to 100 Hz 100 Hz to 500 Hz 500 Hz to 5 kHz 5 kHz to 100 kHz 100 kHz to 500 kHz 500 kHz to 1 MHz	0.25 % + 0.007 Ω 0.20 % + 0.007 Ω 0.20 % + 0.003 Ω 0.17 % + 0.003 Ω 0.17 % + 0.002 Ω 0.20 % + 0.002 Ω 0.45 % + 0.002 Ω			
		10 Ω	to 100 Ω	20 Hz to 100 Hz 100 Hz to 500 Hz 500 Hz to 100 kHz 100 kHz to 500 kHz 500 kHz to 1 MHz	0.15 % + 0.02 Ω 0.08 % + 0.02 Ω 0.10 % + 0.02 Ω 0.13 % + 0.02 Ω 0.36 % + 0.02 Ω			
		100 Ω	to 1 kΩ	20 Hz to 100 Hz 100 Hz to 500 Hz 500 Hz to 5 kHz 5 kHz to 100 kHz 100 kHz to 1 MHz 1 MHz	0.16 % 0.10 % 0.11 % 0.12 % 0.17 % 0.35 %			
		1 kΩ	to 10 kΩ	20 Hz to 100 Hz 100 Hz to 5 kHz 5 kHz to 100 kHz 100 kHz to 5 kHz 1 MHz	0.16 % 0.10 %			



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Ord. nr. ¹	Calibrated quantity / Subject of calibration		Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
	min	unit	max	unit					
					5 kHz to 100 kHz 100 kHz to 1 MHz 1 MHz	0.12 % 0.27 % 0.55 %			
			10 kΩ		20 Hz to 100 Hz 100 Hz to 5 kHz 5 kHz to 10 kHz 10 kHz to 100 kHz 100 kHz to 1 MHz 1 MHz	0.17 % 0.10 % 0.18 % 0.22 % 0.33 % 0.65 %			
			0.1 MΩ		20 Hz to 50 Hz 50 Hz to 100 Hz 100 Hz to 500 Hz 500 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz 10 kHz to 100 kHz 100 kHz to 1 MHz 1 MHz	(R/5 + 0.20) % (R/6 + 0.15) % (R/8 + 0.10) % (R/10 + 0.10) % (R/12 + 0.10) % (R/12 + 0.16) % (R/15 + 0.26) % (R/1.6 + 0.30) % (R/0.8 + 0.60) %			
			1 MΩ		50 Hz to 100 Hz 100 Hz to 500 Hz 500 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz 10 kHz to 100 kHz 100 kHz to 1 MHz 1 MHz	(R/6 + 0.15) % (R/8 + 0.10) % (R/10 + 0.10) % (R/12 + 0.10) % (R/12 + 0.15) % (R/15 + 0.26) % (R/1.6 + 0.30) % (R/0.8 + 0.60) %			



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Ord. nr. ¹	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
		min unit	max unit					
16*	Capacity / Capacity standards, capacity meters, RLC bridges,	10 MΩ to	100 MΩ	100 Hz to 500 Hz	(R/8 + 0.10) %	Comparison by substitution or direct measurement of capacity standard	MKE-Z2	
				500 Hz to 1 kHz	(R/10 + 0.10) %			
				1 kHz to 100 kHz	(R/12 + 0.10) %			
			10 pF	50 Hz to 1 kHz	0.15 %			
				1 kHz	0.075 %			
				1 kHz to 10 kHz	0.080 %			
				10 kHz	0.040 %			
				10 kHz to 100 kHz	0.050 %			
				100 kHz to 1 MHz	0.15 %			
			100 pF	50 Hz to 100 Hz	0.080 %			
				100 Hz	0.050 %			
				100 Hz to 1 kHz	0.060 %			
				1 kHz	0.035 %			
				1 kHz to 10 kHz	0.040 %			
				10 kHz	0.035 %			
				10 kHz to 100 kHz	0.050 %			
		100 kHz	0.040 %					
		100 kHz to 1 MHz	0.15 %					
	1 nF	50 Hz to 100 Hz	0.040 %					
		100 Hz	0.035 %					
		100 Hz to 1 kHz	0.040 %					
		1 kHz	0.030 %					
		1 kHz to 10 kHz	0.040 %					
		10 kHz	0.030 %					



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Ord. nr.1	Calibrated quantity / Subject of calibration		Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
	min	unit	max	unit					
					10 kHz to 100 kHz 100 kHz 100 kHz to 1 MHz	0.050 % 0.040 % 0.15 %			
			10 nF		50 Hz to 100 Hz 100 Hz 100 Hz to 1 kHz 1 kHz 1 kHz to 10 kHz 10 kHz 10 kHz to 100 kHz 100 kHz to 1 MHz	0.050 % 0.035 % 0.040 % 0.035 % 0.040 % 0.035 % 0.060 % 0.15 %			
			100 nF		50 Hz to 100 Hz 100 Hz 100 Hz to 1 kHz 1 kHz 1 kHz to 10 kHz 10 kHz 10 kHz to 100 kHz 100 kHz to 1 MHz	0.040 % 0.035 % 0.040 % 0.035 % 0.040 % 0.035 % 0.060 % 0.85 %			
			1 µF		20 Hz to 100 Hz 100 Hz 100 Hz to 1 kHz 1 kHz 1 kHz to 10 kHz 10 kHz 10 kHz to 100 kHz 100 kHz to 1 MHz	0.050 % 0.035 % 0.040 % 0.035 % 0.040 % 0.035 % 0.090 %			



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Ord. nr.¹	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty²	Calibration principle	Calibration procedure identification³	Location
		min unit	max unit					
17*	Capacity / Capacity standards, boxes, meters, RLC bridges	1 pF to 10 pF	10 µF	20 Hz to 1 kHz	0.15 %	Direct measurement or comparison by substitution with a reference RLC bridge	MKE-Z2	
				1 kHz to 10 kHz	0.20 %			
			100 µF	20 Hz to 100 Hz	0.15 %			
				100 Hz to 1 kHz	0.20 %			
				1 kHz to 10 kHz	0.40 %			
			1 kHz to 2 kHz	0.10 % + 0.135 pF				
			2 kHz to 5 kHz	0.10 % + 0.062 pF				
			5 kHz to 10 kHz	0.10 % + 0.023 pF				
			10 kHz to 20 kHz	0.17 % + 0.011 pF				
			20 kHz to 50 kHz	0.22 % + 0.002 pF				
			50 kHz to 100 kHz	0.28 % + 0.010 pF				
			100 kHz to 500 kHz	0.40 % + 0.005 pF				
			500 kHz to 1 MHz	0.55 % + 0.002 pF				
			10 pF to 100 pF	500 Hz to 1 kHz	0.10 % + 0.30 pF			
				1 kHz to 2 kHz	0.10 % + 0.15 pF			
				2 kHz to 5 kHz	0.10 % + 0.07 pF			
				5 kHz to 10 kHz	0.10 % + 0.03 pF			
		10 kHz to 50 kHz	0.15 % + 0.015 pF					
		50 kHz to 500 kHz	0.15 % + 0.030 pF					
		500 kHz to 1 MHz	0.40 % + 0.020 pF					
		100 pF to 1,000 pF	100 Hz to 200 Hz	0.10 % + 2 pF				
			200 Hz to 500 Hz	0.10 % + 0.85 pF				
			500 Hz to 1 kHz	0.10 % + 0.30 pF				



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		min unit	max unit					
				1 kHz to 2 kHz 2 kHz to 500 kHz 500 kHz to 1 MHz	0.10 % + 0.15 pF 0.15 % 0.35 %			
		1 nF to	10 nF	50 Hz to 100 Hz 100 Hz to 500 Hz 500 Hz to 5 kHz 5 kHz to 100 kHz 100 kHz to 200 kHz 200 kHz to 500 kHz 500 kHz to 1 MHz	0.15 % + 0.005 nF 0.10 % + 0.002 pF 0.10 % 0.12 % 0.13 % 0.15 % 0.50 %			
		10 nF to	100 nF	50 Hz to 100 Hz 100 Hz to 5 kHz 5 kHz to 50 kHz 50 kHz to 200 kHz 200 kHz to 500 kHz 500 kHz to 1 MHz	0.20 % 0.10 % 0.12 % 0.20 % 0.25 % 0.55 %			
		100 nF to	1,000 nF	50 Hz to 100 Hz 100 Hz to 500 Hz 500 Hz to 5 kHz 5 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 200 kHz 200 kHz to 1 MHz	0.17 % 0.10 % 0.12 % 0.20 % 0.25 % 0.30 % 0.45 %			
		1 µF to	10 µF	20 Hz to 100 Hz 100 Hz to 500 Hz 500 Hz to 2 kHz	0.16 % 0.10 % 0.20 %			



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Ord. nr. ¹	Calibrated quantity / Subject of calibration		Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
	min	unit	max	unit					
			10 µF	to	100 µF	2 kHz to 5 kHz 5 kHz to 10 kHz 10 kHz to 20 kHz 20 kHz to 100 kHz	0.22 % 0.25 % 0.30 % (C/40 + 0.20) %		
					20 Hz to 50 Hz 50 Hz to 200 Hz 200 Hz to 500 Hz 500 Hz to 1 kHz 1 kHz to 2 kHz 2 kHz to 5 kHz 5 kHz to 10 kHz 10 kHz to 20 kHz	0.17 % 0.20 % 0.25 % 0.30 % 0.35 % (C/500 + 0.25) % (C/250 + 0.25) % (C/120 + 0.25) %			
			100 µF	to	1,000 µF	20 Hz to 200 Hz 200 Hz to 500 Hz 500 Hz to 1 kHz 1 kHz to 2 kHz 2 kHz to 5 kHz	(C/3500 + 0.15) % (C/2800 + 0.20) % (C/1900 + 0.30) % (C/1000 + 0.30) % (C/500 + 0.30) %		
			1,000 µF	to	10,000 µF	20 Hz to 50 Hz 50 Hz to 100 Hz 100 Hz to 200 Hz	(C/12000 + 0.30) % (C/9000 + 0.30) % (C/5000 + 0.20) %		
18*	Inductance / Inductance standards, meters, RLC bridges		10 µH		100 Hz 1 kHz 10 kHz	0.30 % 0.040 % 0.030 %	Comparison by substitution or direct measurement of inductance standard	MKE-Z2	



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Ord. nr.1	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
		min unit	max unit					
19*	Inductance / Inductance standards, meters, boxes, RLC bridges	1 μ H to 10 μ H	100 μ H	100 Hz	0.070 %	Direct measurement or comparison by substitution with a reference RLC bridge	MKE-Z2	
				1 kHz	0.020 %			
				10 kHz	0.020 %			
			1 mH	100 Hz	0.030 %			
			1 kHz	1 kHz	0.020 %			
			10 kHz	10 kHz	0.020 %			
			2 mH	1 kHz	0.020 %			
			10 mH	1 kHz	0.020 %			
			100 mH	1 kHz	0.020 %			
			1 H	1 kHz	0.020 %			
			10 H	1 kHz	0.030 %			
				1 kHz to 2 kHz	0.25 % + 0.147 μ H			
				2 kHz to 5 kHz	0.25 % + 0.063 μ H			
				5 kHz to 10 kHz	0.25 % + 0.022 μ H			
				10 kHz to 20 kHz	0.25 % + 0.010 μ H			
				20 kHz to 50 kHz	0.25 % + 0.005 μ H			
				50 kHz to 100 kHz	0.25 % + 0.002 μ H			
				100 kHz to 200 kHz	0.32 %			
				200 kHz to 500 kHz	0.28 %			
		500 Hz to 1 kHz	0.25 % + 0.35 μ H					
		1 kHz to 2 kHz	0.25 % + 0.15 μ H					
		2 kHz to 5 kHz	0.25 % + 0.06 μ H					
		5 kHz to 10 kHz	0.25 % + 0.02 μ H					



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Ord. nr. 1	Calibrated quantity / Subject of calibration		Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
	min	unit	max	unit					
			100 µH	to	1,000 µH	0.18 % + 0.02 µH 0.18 % + 0.01 µH 0.20 %			
					100 Hz to 200 Hz 200 Hz to 500 Hz 500 Hz to 1 kHz 1 kHz to 2 kHz 2 kHz to 5 kHz 5 kHz to 10 kHz 10 kHz to 50 kHz 50 kHz to 200 kHz 200 kHz to 500 kHz	0.30 % + 3.0 µH 0.30 % + 1.2 µH 0.30 % + 0.3 µH 0.20 % + 0.25 µH 0.17 % + 0.15 µH 0.22 % 0.20 % 0.13 % 0.15 %			
			1 mH	to	10 mH	0.45 % + 0.007 mH 0.30 % + 0.003 mH 0.15 % + 0.003 mH 0.23 % 0.20 % 0.15 % 0.12 % 0.20 % 0.25 %			
			10 mH	to	100 mH	0.20 % + 0.03 mH 0.22 % 0.18 % 0.10 % 0.12 %			



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	min	unit	max	unit					
					20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 500 kHz	0.15 % 0.30 % 0.50 %			
			0.1 H to	1 H	50 Hz to 100 Hz 100 Hz to 5 kHz 5 kHz to 10 kHz 10 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz	0.17 % 0.10 % 0.11 % 0.20 % 0.25 % (L/2 + 0.25) %			
			1 H to	10 H	50 Hz to 100 Hz 100 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz 10 kHz to 20 kHz 20 kHz to 50 kHz	0.16 % 0.10 % 0.12 % 0.22 % (L/200 + 0.20) % (L/40 + 0.20) %			
			10 H to	100 H	50 Hz to 100 Hz 100 Hz to 200 Hz 200 Hz to 1 kHz 1 kHz to 2 kHz 2 kHz to 5 kHz 5 kHz to 10 kHz 10 kHz to 20 kHz 20 kHz to 50 kHz	0.16 % 0.12 % 0.15 % 0.20 % (L/400 + 0.10) % (L/240 + 0.20) % (L/110 + 0.20) % (L/45 + 0.20) %			
20*	HF voltage peak-to-peak value / HF voltage meters, oscilloscopes, HF						Direct generation in the plane of the connecting BNC connector of 50 Ω	MKE-UVF1	



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Starozuberská 1453, 756 54 Zubří

Ord. nr.!	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
		min unit	max unit					
21*	millivoltmeters, frequency analyzers	5 mV	to 5 V	100 kHz to 300 MHz	3.7 %	Direct measurement, comparison with a HF millivoltmeter in the plane of N connector of 50 Ω	MKE-UVF1	
		5 mV	to 3 V	300 MHz to 550 MHz	4.2 %			
		5 mV	to 3 V	550 MHz to 1,1 GHz	5.2 %			
		5 mV	to 2 V	1,1 GHz to 2,5 GHz	5.9 %			
		5 mV	to 2 V	2,5 GHz to 3,2 GHz	5.9 %			
22*	HF voltage effective value / HF voltage meters, oscilloscopes, HF millivoltmeters, frequency analyzers, function generators, signal generators	1 mV	to 2 mV	100 kHz to 100 MHz	3.6 %	Direct measurement with a HF millivoltmeter in the plane of N connector of 50 Ω	MKE-UVF1	
		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	200 MHz to 500 MHz	4.2 %			
		1 mV	to 2 mV		4.5 %			
		2 mV	to 10 mV		3.7 %			
		10 mV	to 1 V	3.3 %				
1 V	to 10 V	4.9 %						
		1 kV	to 100 kV		0.20 %			



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Ord. nr. ¹	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
		min unit	max unit					
23*	High DC voltage / Meters, inspection instruments	1 kV	to 80 kV		0.20 %	Direct generation, comparison with a HV probe	MKE-UVNSSI, MKE-SRP.1	
	High AC voltage / Meters, inspection instruments	1 kV 30 kV	to 30 kV to 100 kV	50 Hz	0.16 % 1.3 %	Direct measurement with a HV probe	MKE-UVNST1, MKE-SRP.1	
	High AC voltage / Power supplies, inspection instruments	1 kV 30 kV	to 30 kV to 50 kV	50 Hz	0.16 % 1.3 %	Direct generation, comparison with a HV probe	MKE-UVNST1, 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 M a part of CMC and it is the lowest value of the respective uncertainty. If not stated otherwise, its coverage probability is approx. 95 %. If not stated otherwise, the uncertainty values stated without a unit are relative to the measured value. The uncertainty value stated herein is based on the best conditions achievable by the laboratory; the uncertainty value of a specific calibration may be higher depending on the conditions of such a calibration. For identical extreme values of adjacent ranges, the lower uncertainty value always applies.

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

Explanatory notes:

R Resistance in MΩ

C Capacity in μF

L Inductance in H



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CMC for the field of measured quantity: Optical quantities

Ord. nr. ¹	Calibrated quantity / Subject of calibration	Nominal range			Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
		min	unit	max					
1	Illumination / Luxmeters	1 LX		to	30,000 LX	2.5 %	Comparison with a luxmeter	MK-LUX I	

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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 measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location			
		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	$U \geq 2.2 \text{ V TTL} / 50 \Omega$ $U \geq 1 \text{ V sine} / 50 \Omega$ $U \geq 2 \text{ V}_{SS} / 50 \Omega$	$3.5 \cdot 10^{-11}$ $1.0 \cdot 10^{-10}$ $3.0 \cdot 10^{-10}$	Direct generation by a GPS receiver or generator	MKF-fl			
		50 MHz		to	1 GHz					τ from 100 s to 200 s τ from 200 s to 2,000 s	$4.0 \cdot 10^{-11}$ $6.0 \cdot 10^{-12}$	Indirect measurement with a GPS receiver and counter
		1 GHz		to	3.2 GHz					τ from 100 s to 200 s τ from 200 s to 2,000 s	$4.0 \cdot 10^{-11}$ $6.0 \cdot 10^{-12}$	



The Appendix is an integral part of
Certificate of Accreditation No. 325/2024 of 08/07/2024

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CAB number 2249, MEROS Calibration Laboratory
Starozuberská 1453, 756 54 Zubří

Ord. nr. ¹	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
		min	max					
2*	Time interval / Time interval meters, counters, oscilloscopes, function generators, pulse generators, digital and mechanical stopwatches, timers, inspection instruments	0.001 Hz	to 100 Hz	pulse signals	8.0·10 ⁻¹¹	Direct measurement by a counter	MKF-fl, MKE-SRP.1	
		100 Hz	to 350 MHz	$U_{\text{ref}} \geq 1 \text{ V}$, signal to noise ratio $\geq 60 \text{ dB}$	8.0·10 ⁻¹¹			
		1 Hz	to 30 Hz	τ over 10 s	5·10 ⁻⁵ Hz	Direct measurement by a counter	MKF-fl	
		30 Hz	to 300 Hz	τ over 1 s	3·10 ⁻⁴ Hz			
		300 Hz	to 100 kHz		5·10 ⁻⁵ Hz			
		100 kHz	to 300 kHz		4.0·10 ⁻¹⁰	Direct generation with a calibrator	MKF-tl	
		300 kHz	to 600 kHz		2.0·10 ⁻¹⁰			
		600 kHz	to 6 GHz		1.0·10 ⁻¹⁰			
		1 ns	to 4 ns	$U_{\text{ref}} \geq 1 \text{ V}$	0.70 ns	Direct generation by a GPS receiver		
		4 ns	to 10 ns	50 Ω	4.5% + 0.5 ns			
		10 ns	to 100 ns		5.5% + 0.5 ns			
		100 ns	to 1 μs	$U \geq 2.2 \text{ V TTL}$	2.0 ns	Direct generation by a GPS receiver		
		1 μs	to 100 s		4.0 ns			
		100 s	to 10 ⁵ s		3.5·10 ⁻¹¹			



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Ord. nr. 1	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
		min	unit					
3	Pulse signal period / Time interval meters, counters, oscilloscopes, function generators, pulse generators, digital and mechanical stopwatches, timers, inspection instruments	2.85 ns 10 ms	to to	10 ms 1,000 s	8.0·10 ⁻¹¹ 8.0·10 ⁻¹¹	Direct measurement by a counter	MKF-t1	
4	Pulse signal duration / Time interval 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	1.0 ns 8.0·10 ⁻¹¹	Direct measurement by a counter	MKF-t1, MKE-SRP.1	
		10 ⁵ s	to	4·10 ⁵ s	3.6·10 ⁻⁸			

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"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself."