

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	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				
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-O1	
		1 min ⁻¹ to 60 min ⁻¹ 60 min ⁻¹ to 100,000 min ⁻¹					0.00020 min ⁻¹ 1.5·10 ⁻⁶	Simulation by an optical transducer	MKF-O1	
		1 min ⁻¹ to 5 min ⁻¹ 5 min ⁻¹ to 20 min ⁻¹ 20 min ⁻¹ to 10,000 min ⁻¹					0.25 % 0.070 % 0.0060 %	Direct generation by a speed 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				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Location			
		min	unit	max	unit								
1*	Deformation and digital manometers, pressure transducers, differential pressure measuring chains	0 kPa	to	1 kPa	Gauge pressure	gas	0.1 % + 0.0015 kPa 0.04 % + 0.004 kPa 0.05 % + 0.03 kPa 0.06 % + 0.05 kPa 0.07 % + 0.11 kPa	Comparison with a digital manometer	MKMP TL.2				
		1 kPa	to	10 kPa									
		10 kPa	to	200 kPa									
		200 kPa	to	600 kPa									
		600 kPa	to	2,000 kPa									
		0 kPa	to	1 kPa							Vacuum	gas	0.1 % + 1.5 Pa 0.05 % + 13 Pa
		1 kPa	to	90 kPa									
0 MPa	to	2 MPa	Gauge pressure	liquid	0.05 % + 0.3 kPa 0.06 % + 1 kPa 0.05 % + 5 kPa 0.06 % + 9 kPa								
2 MPa	to	10 MPa											
10 MPa	to	25 MPa											
25 MPa	to	60 MPa											
5 kPa	to	2,000 kPa	Absolute pressure	gas	0.05 % + 0.3 kPa								
2,000 kPa	to	10,000 kPa											
10,000 kPa	to	25,000 kPa	Absolute pressure	liquid	0.07 % + 1.2 kPa 0.06 % + 4 kPa								
500 hPa	to	1,100 hPa				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 uncertainty ²	Calibration principle	Calibration procedure identification ³	Location
		min	unit	max	unit					
1*	Resistance thermometers	-80 °C	to	-30 °C			0.12 °C	Comparison with a resistance temperature sensor in a liquid bath	MKTT OT.2	
		-30 °C	to	0 °C			0.08 °C			
		0 °C	to	150 °C			0.05 °C			
		150 °C	to	260 °C			0.07 °C			
		260 °C	to	420 °C			0.4 °C	Comparison with a resistance temperature sensor in a calibrating oven		
		420 °C	to	660 °C			0.65 °C			
2	Thermocouple temperature sensors	-80 °C	to	420 °C			0.5 °C	Comparison with a resistance temperature sensor in a calibrating oven	MKTT TE.2	
		420 °C	to	660 °C			0.7 °C			
		660 °C	to	1,100 °C			1.5 °C	Comparison with thermoelectric temperature sensor in a horizontal furnace		
		1,100 °C	to	1,300 °C			2.0 °C			
3	Electronic thermometers	-80 °C	to	-20 °C			0.12 °C	Comparison with a resistance temperature sensor in a liquid bath	MKTT ET.2	
		-20 °C	to	0 °C			0.08 °C			
				0 °C			0.05 °C			

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		min	unit	max	unit					
		0 °C	to	150 °C		0.07 °C				
		150 °C	to	260 °C		0.08 °C				
		260 °C		420 °C		0.4 °C				
		420 °C	to	660 °C		0.65 °C	Comparison with a resistance temperature sensor in a calibrating oven			
		660 °C	to	1,000 °C		1.4 °C	Comparison with thermoelectric temperature sensor in a horizontal furnace	MKTT ET.2		
		1,000 °C	to	1,100 °C		1.5 °C				
		1,100 °C	to	1,300 °C		2.0 °C				
4	Glass thermometers	-40 °C	to	-20 °C		0.12 °C	Comparison with a resistance temperature sensor in a liquid bath	MKTT ST.2		
		-20 °C	to	200 °C		0.07 °C				
		200 °C	to	300 °C		0.15 °C				
5	Non-contact thermometers	-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 %				

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

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		min	unit	max	unit					
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 °C			
		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	unit	max	unit					
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	2.4 % RH					
		5 % RH	to	50 % RH	(40 to 70) °C	2.8 % RH				
		50 % RH	to	95 % RH		3.6 % RH				

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CMC for the field of measured quantity: Electrical 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*	DC Voltage / Power supplies, calibrators, 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 %				
2*	Direct-current voltage/ voltmeters, multimeters and inspection equipment	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 %				
3*	AC Voltage / Power supplies, calibrators, inspection instruments	2 mV	to	10 mV	10 Hz to 10 kHz	0.40 %	Direct measurement using a multimeter	MKE-UST.1, MKE-SRP.1		
					10 kHz to 30 kHz	0.80 %				
					30 kHz to 100 kHz	1.7 %				

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		min	unit	max	unit					
		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 %			
		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 %			

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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	0.018 % 0.015 % 0.013 % 0.017 % 0.032 %			

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		min	unit	max	unit					
						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 %			
						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 %			

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		min	unit	max	unit					
						30 kHz to 100 kHz	0.078 %			
		190 V	to	500 V		40 Hz to 10 kHz 10 kHz to 30 kHz	0.032 % 0.070 %			
				500 V		40 Hz to 10 kHz 10 kHz to 30 kHz	0.023 % 0.055 %			
		500 V	to	1,000 V		40 Hz to 10 kHz 10 kHz to 30 kHz	0.040 % 0.16 %			
4*	Alternating-current voltage / Voltmeters, multimeters, inspection equipment	1 mV	to	2.2 mV		10 Hz to 50 kHz 50 kHz to 100 kHz	0.60 % 0.80 %	Direct generation with a calibrator	MKE-UST1, MKE-SRP.1	
		2.2 mV	to	10 mV		10 Hz to 100 kHz	0.32 %			
		10 mV	to	22 mV		10 Hz to 40 Hz 40 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz	0.090 % 0.067 % 0.082 % 0.13 %			
		22 mV	to	100 mV		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	0.095 % 0.050 % 0.066 % 0.15 % 0.23 %			
		100 mV	to	220 mV		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	0.048 % 0.019 % 0.033 % 0.076 % 0.14 %			

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		min	unit	max	unit					
		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 %			
						50 Hz to 1 kHz	0.011 %			
5*	Peak-to-peak value of square wave AC voltage / Oscilloscopes	1 mV		to	2 mV	10 Hz to 100 kHz	0.30 % + 10 μV	Direct generation with a calibrator	MKE-UST1	
		2 mV		to	100 mV		0.20 % + 10 μV			
		100 mV		to	220 V		0.15 %			

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		min	unit	max	unit					
6*	AC current / Power supplies, calibrators, inspection instruments	1 nA	to	2 nA		0.40 %	Direct measurement with a picoammeter	MKE-ISS1, MKE-SRP.1		
		2 nA	to	50 nA		0.30 %				
		50 nA	to	200 nA		0.20 %				
		200 nA	to	1 µA		0.25 %				
		1 µA	to	20 µA		0.011 %	Direct measurement with a multimeter or indirect measurement with a shunt multimeter	MKE-ISS1, MKE-SRP.1		
		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 %				
		200 A	to	600 A		0.040 %				
		600 A	to	2,000 A		0.10 %				
7*	DC current / Ammeters, multimeters, clamp meters, inspection instruments	1 nA	to	2 nA		0.40 %	Direct comparison with a picoammeter	MKE-ISS1, MKE-SRP.1		
		2 nA	to	50 nA		0.30 %				
		50 nA	to	200 nA		0.20 %				
		200 nA	to	1 µA		0.25 %				
		1 µA	to	20 µA		0.011 %	Direct comparison using a multimeter or indirect comparison	MKE-ISS1, MKE-SRP.1		

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		min	unit	max	unit					
		20 μA	to	20 mA		0.0040 %	using a shunt multimeter			
		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 %				
		200 A	to	600 A		0.040 %				
		600 A	to	2,000 A		0.10 %				
8*	DC current / Ammeters, multimeters, clamp meters, inspection instruments	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 %				
9*	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		
10*	AC current / Power supplies, calibrators, 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-IST1, MKE-SRP.1		
		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				

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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	unit	max	unit					
		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 %				
11*	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		
		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 %				
11*	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 an energy meter	MKE-W1		
		2.2 A	to	20 A	40 Hz to 1 kHz	0.06 % + 1 mA				
		1 W	to	105 kW		0.060 %				
11*	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 comparison with an energy meter	MKE-W1		
		1 W	to	105 kW		0.060 %				

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MEROS, spol. s r.o.

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	unit	max	unit					
12*	DC resistance / Multimeters, resistors, ohmmeters, resistance boxes, calibrators, inspection instruments							Direct generation by resistance standards	MKE-RSS1	
				0.1 mΩ		0.0080 %				
				1 mΩ		0.0020 %				
				0.01 Ω		0.0025 %				
				0.1 Ω		0.0025 %				
				1 Ω		0.0020 %				
				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 %				
				10 MΩ		0.0050 %				
				19 MΩ		0.0050 %				
				100 MΩ		0.0050 %				
				1 GΩ		0.010 %				

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MEROS, spol. s r.o.

CAB number 2249, MEROS Calibration Laboratory

Starozuberská 1453, 756 54 Zubří

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		min	unit	max	unit					
		0.1 mΩ	to	0.2 mΩ		0.040 %	Indirect measurement using a shunt and multimeter	MKE-RSS1 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-RSS1, 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 %	VA method	MKE-Z2, MKE-SRP.1		
		0.1 Ω	to	10 Ω	50 Hz to 1 kHz	0.2 %				

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MEROS, spol. s r.o.

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	unit	max	unit					
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 %			
						100 Hz to 1 kHz	0.020 %			
						1 kHz	0.015 %			
						1 kHz to 10 kHz	0.025 %			
						10 kHz	0.020 %			
		10 Ω				10 kHz to 100 kHz	0.090 %			
						20 Hz to 100 Hz	0.016 %			
						100 Hz	0.011 %			
						100 Hz to 1 kHz	0.016 %			
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 kHz	0.040 %					
				100 kHz to 1 MHz	0.15 %					
				20 Hz to 100 Hz	0.016 %					
				100 Hz	0.011 %					
100 Hz to 1 kHz	0.016 %									
1 kHz	0.011 %									
1 kHz to 10 kHz	0.016 %									
10 kHz	0.011 %									

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MEROS, spol. s r.o.

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	unit	max	unit					
						10 kHz to 100 kHz	0.040 %			
						100 kHz	0.035 %			
						100 kHz to 1 MHz	0.15 %			
				1 kΩ		20 Hz to 100 Hz	0.016 %			
						100 Hz	0.011 %			
						100 Hz to 1 kHz	0.016 %			
						1 kHz	0.011 %			
						1 kHz to 10 kHz	0.016 %			
						10 kHz	0.011 %			
						10 kHz to 100 kHz	0.040 %			
						100 kHz	0.035 %			
						100 kHz to 1 MHz	0.15 %			
				10 kΩ		20 Hz to 100 Hz	0.016 %			
						100 Hz	0.011 %			
						100 Hz to 1 kHz	0.016 %			
						1 kHz	0.011 %			
						1 kHz to 10 kHz	0.016 %			
						10 kHz	0.011 %			
						10 kHz to 100 kHz	0.040 %			
						100 kHz	0.035 %			
						100 kHz to 1 MHz	0.15 %			
				100 kΩ		20 Hz to 100 Hz	0.020 %			
						100 Hz	0.011 %			
						100 Hz to 1 kHz	0.016 %			
						1 kHz	0.011 %			
						1 kHz to 10 kHz	0.020 %			

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MEROS, spol. s r.o.

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

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		min	unit	max	unit					
						10 kHz	0.015 %			
						10 kHz to 100 kHz	0.20 %			
				1 MΩ		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 %			
				10 MΩ		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 %			
				100 MΩ		20 Hz to 100 Hz	0,40 %			
						100 Hz to 1 kHz	0,50 %			
15*	Impedance module, AC resistance / Resistance standards, boxes, meters, clamp meters, inspection meters, RLC bridges		10 mΩ	to	100 mΩ	20 Hz to 50 Hz	4 mΩ	Direct measurement or comparison by substitution with a reference RLC bridge	MKE-Z2	
						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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MEROS, spol. s r.o.

CAB number 2249, MEROS Calibration Laboratory

Starozuberská 1453, 756 54 Zubří

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		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	0.16 % 0.10 %			

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MEROS, spol. s r.o.

CAB number 2249, MEROS Calibration Laboratory

Starozuberská 1453, 756 54 Zubří

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		min	unit	max	unit					
						5 kHz to 100 kHz 100 kHz to 1 MHz 1 MHz	0.12 % 0.27 % 0.55 %			
		10 kΩ	to	100 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	to	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	to	10 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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MEROS, spol. s r.o.

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

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		min	unit	max	unit					
		10 MΩ	to	100 MΩ		100 Hz to 500 Hz 500 Hz to 1 kHz 1 kHz to 100 kHz	(R/8 + 0.10) % (R/10 + 0.10) % (R/12 + 0.10) %			
16*	Capacity / Capacity standards, capacity meters, RLC bridges,	10 pF				50 Hz to 1 kHz	0.15 %	Comparison by substitution or direct measurement of capacity standard	MKE-Z2	
						1 kHz	0.075 %			
						1 kHz to 10 kHz	0.080 %			
						10 kHz	0.040 %			
						10 kHz to 100 kHz	0.050 %			
		100 pF				100kHz to 1 MHz	0.15 %			
						50 Hz to 100 Hz	0.080 %			
						100 Hz	0.050 %			
						100 Hz to 1 kHz	0.060 %			
						1 kHz	0.035 %			
1 nF				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 %					
				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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CAB number 2249, MEROS Calibration Laboratory

Starozuberská 1453, 756 54 Zubří

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		min	unit	max	unit					
						10 kHz to 100 kHz	0.050 %			
						100 kHz	0.040 %			
						100 kHz to 1 MHz	0.15 %			
			10 nF			50 Hz to 100 Hz	0.050 %			
						100 Hz	0.035 %			
						100 Hz to 1 kHz	0.040 %			
						1 kHz	0.035 %			
						1 kHz to 10 kHz	0.040 %			
						10 kHz	0.035 %			
						10 kHz to 100 kHz	0.060 %			
						100 kHz to 1 MHz	0.15 %			
			100 nF			50 Hz to 100 Hz	0.040 %			
						100 Hz	0.035 %			
						100 Hz to 1 kHz	0.040 %			
						1 kHz	0.035 %			
						1 kHz to 10 kHz	0.040 %			
						10 kHz	0.035 %			
						10 kHz to 100 kHz	0.060 %			
						100 kHz to 1 MHz	0.85 %			
			1 μF			20 Hz to 100 Hz	0.050 %			
						100 Hz	0.035 %			
						100 Hz to 1 kHz	0.040 %			
						1 kHz	0.035 %			
						1 kHz to 10 kHz	0.040 %			
						10 kHz	0.035 %			
						10 kHz to 100 kHz	0.090 %			

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MEROS, spol. s r.o.

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	unit	max	unit					
		10 µF				20 Hz to 1 kHz 1 kHz to 10 kHz	0.15 % 0.20 %			
		100 µF				20 Hz to 100 Hz 100 Hz to 1 kHz 1 kHz to 10 kHz	0.15 % 0.20 % 0.40 %			
17*	Capacity / Capacity standards, boxes, meters, RLC bridges	1 pF	to	10 pF		1 kHz to 2 kHz 2 kHz to 5 kHz 5 kHz to 10 kHz 10 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 500 kHz 500 kHz to 1 MHz	0.10 % + 0.135 pF 0.10 % + 0.062 pF 0.10 % + 0.023 pF 0.17 % + 0.011 pF 0.22 % + 0.002 pF 0.28 % + 0.010 pF 0.40 % + 0.005 pF 0.55 % + 0.002 pF	Direct measurement or comparison by substitution with a reference RLC bridge	MKE-Z2	
		10 pF	to	100 pF		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 500 kHz 500 kHz to 1 MHz	0.10 % + 0.30 pF 0.10 % + 0.15 pF 0.10 % + 0.07 pF 0.10 % + 0.03 pF 0.15 % + 0.015 pF 0.15 % + 0.030 pF 0.40 % + 0.020 pF			
		100 pF	to	1,000 pF		100 Hz to 200 Hz 200 Hz to 500 Hz 500 Hz to 1 kHz	0.10 % + 2 pF 0.10 % + 0.85 pF 0.10 % + 0.30 pF			

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

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 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 %			

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

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					
						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) %			
		10 μF	to	100 μF		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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MEROS, spol. s r.o.

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	unit	max	unit					
		100 µH				100 Hz 1 kHz 10 kHz	0.070 % 0.020 % 0.020 %			
		1 mH				100 Hz 1 kHz 10 kHz	0.030 % 0.020 % 0.020 %			
		2 mH 10 mH 100 mH 1 H 10 H				1 kHz 1 kHz 1 kHz 1 kHz 1 kHz	0.020 % 0.020 % 0.020 % 0.020 % 0,030 %			
19*	Inductance / Inductance standards, meters, boxes, RLC bridges	1 µH to 10 µH				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 50 kHz to 100 kHz 100 kHz to 200 kHz 200 kHz to 500 kHz	0.25 % + 0.147 µH 0.25 % + 0.063 µH 0.25 % + 0.022 µH 0,25 % + 0.010 µH 0.25 % + 0.005 µH 0.25 % + 0.002 µH 0.32 % 0.28 %	Direct measurement or comparison by substitution with a reference RLC bridge	MKE-Z2	
		10 µH to 100 µH				500 Hz to 1 kHz 1 kHz to 2 kHz 2 kHz to 5 kHz 5 kHz to 10 kHz	0.25 % + 0.35 µH 0.25 % + 0.15 µH 0.25 % + 0.06 µH 0.25 % + 0.02 µH			

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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	unit	max	unit					
						10 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 500 kHz	0.18 % + 0.02 μH 0.18 % + 0.01 μH 0.20 %			
		100 μH	to	1,000 μH		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		50 Hz to 100 Hz 100 Hz to 200 Hz 200 Hz to 500 Hz 500 Hz to 2 kHz 2 kHz to 5 kHz 5 kHz to 10 kHz 10 kHz to 100 kHz 100 kHz to 200 kHz 200 kHz to 500 kHz	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		50 Hz to 100 Hz 100 Hz to 200 Hz 200 Hz to 500 Hz 500 Hz to 1 kHz 1 kHz to 20 kHz	0.20 % + 0.03 mH 0.22 % 0.18 % 0.10 % 0.12 %			

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MEROS, spol. s r.o.

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	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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		min	unit	max	unit					
	millivoltmeters, frequency analyzers	5 mV	to	5 V		100 kHz to 300 MHz 300 MHz to 550 MHz	3.7 % 4.2 %			
		5 mV	to	3 V		550 MHz to 1,1 GHz 1,1 GHz to 2,5 GHz	5.2 % 5.9 %			
		5 mV	to	2 V		2,5 GHz to 3,2 GHz	5.9 %			
21*	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, comparison 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			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 %			
22*	High DC voltage / Power supplies, inspection instruments	1 kV	to	100 kV			0.20 %			

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		min	unit	max	unit					
	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		
23*	High AC voltage / Meters, inspection instruments	1 kV	to	30 kV	50 Hz	0.16 %	Direct measurement with a HV probe	MKE-UVNST1, MKE-SRP.1		
		30 kV	to	100 kV		1.3 %				
	High AC voltage / Power supplies, inspection instruments	1 kV	to	30 kV	50 Hz	0.16 %	Direct generation, comparison with a HV probe	MKE-UVNST1, MKE-SRP.1		
		30 kV	to	50 kV		1.3 %				

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	unit					
1	Illumination / Luxmeters	1 Lx		to	30,000 Lx		2.5 %	Comparison with a luxmeter	MK-LUX1	

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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		$U \geq 2.2 \text{ V TTL}/50 \Omega$	$3.5 \cdot 10^{-11}$	Direct generation by a GPS receiver or generator	MKF-f1		
		50 MHz	to	1 GHz		$U \geq 1 \text{ V sine} / 50 \Omega$	$1.0 \cdot 10^{-10}$				
		1 GHz	to	3.2 GHz		$U \geq 2 \text{ V}_{\text{ss}} / 50 \Omega$	$3.0 \cdot 10^{-10}$				
				1 MHz		$U_{\text{vst}} \geq 1 \text{ V}_{\text{ef}}$, signal to noise ratio $\geq 60 \text{ dB}$	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		MKF-f1
				5 MHz		$U_{\text{vst}} \geq 1 \text{ V}_{\text{ef}}$, signal to noise ratio $\geq 60 \text{ dB}$	τ from 100 s to 200 s τ from 200 s to 2,000 s	$4.0 \cdot 10^{-11}$ $6.0 \cdot 10^{-12}$			
				10 MHz		$U_{\text{vst}} \geq 1 \text{ V}_{\text{ef}}$, signal to noise ratio $\geq 60 \text{ dB}$	τ from 100 s to 200 s τ from 200 s to 2,000 s	$4.0 \cdot 10^{-11}$ $6.0 \cdot 10^{-12}$			

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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	unit	max	unit					
		0.001 Hz	to	100 Hz	pulse signals	τ over 10 s	$8.0 \cdot 10^{-11}$	Direct measurement by a counter	MKF-f1, MKE-SRP.1	
		100 Hz	to	350 MHz		τ over 1 s	$8.0 \cdot 10^{-11}$			
		1 Hz	to	30 Hz	$U_{vst} \geq 1 V_{ef}$, signal to noise ratio ≥ 60 dB	τ over 10 s	$5 \cdot 10^{-5}$ Hz	Direct measurement by a counter	MKF-f1	
30 Hz	to	300 Hz	τ over 1 s	$3 \cdot 10^{-4}$ Hz						
300 Hz	to	100 kHz			$5 \cdot 10^{-5}$ Hz					
		100 kHz	to	300 kHz			$4.0 \cdot 10^{-10}$	Direct measurement by a counter		
		300 kHz	to	600 kHz		$2.0 \cdot 10^{-10}$				
		600 kHz	to	6 GHz		$1.0 \cdot 10^{-10}$				
2*	Time interval / Time interval meters, counters, oscilloscopes, function generators, pulse generators, digital and mechanical stopwatches, timers, inspection instruments	1 ns	to	4 ns	$U_{ss} \geq 1 V$	50 Ω	0.70 ns	Direct generation with a calibrator	MKF-t1	
		4 ns	to	10 ns			4.5% + 0.5 ns			
		10 ns	to	100 ns			5.5% + 0.5 ns			
		100 ns	to	1 μ s	$U \geq 2.2 V$ TTL	50 Ω	2.0 ns	Direct generation by a GPS receiver		
		1 μ s	to	100 s			4.0 ns			
		100 s	to	10^5 s			$3.5 \cdot 10^{-11}$			

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		min	unit	max	unit					
3	Pulse signal period / Time interval meters, counters, oscilloscopes, function generators, pulse generators, digital and mechanical stopwatches, timers, inspection instruments	2.85 ns	to	10 ms		$U_{inp} \geq 1 V$	$8.0 \cdot 10^{-11}$ $8.0 \cdot 10^{-11}$	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	10 ms	to	1,000 s		$U_{inp} \geq 1 V$	$8.0 \cdot 10^{-11}$	Direct measurement by a counter	MKF-t1, MKE-SRP.1	
		5 ns	to	10 s		$U_{inp} \geq 1 V$	1.0 ns $8.0 \cdot 10^{-11}$	Direct measurement by a counter	MKF-t1, MKE-SRP.1	
		10 s	to	$10^5 s$			$3.6 \cdot 10^{-8}$	Direct comparison with a calibrator	MKF-t1	
		$10^5 s$	to	$4 \cdot 10^5 s$				Direct comparison with a calibrator	MKF-t1	

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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."