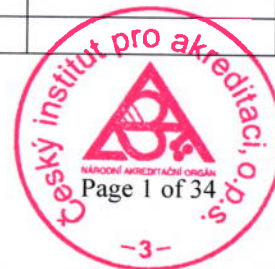


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MEROS Calibration Laboratory
Starozuberská 1453, 756 54 Zubří

CMC for the field of measured quantity: Length

Ord. number ¹	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified ²	Calibration principle	Calibration procedure identification ³	Workplace
		min	unit	max	unit					
1	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. number ¹	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified ²	Calibration principle	Calibration procedure identification ³	Workplace
		min	unit	max	unit					
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, part of CMC, and it is the lowest value of the respective uncertainty. If not stated otherwise, its coverage probability is approx. 95 %. If not stated otherwise, the uncertainty values stated without a unit are relative to the value measured. If the calibration is carried out outside the laboratory premises, the measurement uncertainty may be affected.

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

L = length in metres



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CMC for the field of measured quantity: Rotational speed

Ord. number ¹	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified ²	Calibration principle	Calibration procedure identification ³	Work-place
		min	unit	max	unit					
1*	Analogue, digital and proximity revolution counters, induction revolution counters, rpm sensors, stroboscopes	1 min ⁻¹ to 100,000 min ⁻¹					1.0·10 ⁻⁶	Comparison with a reference electronic speed simulator	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	Comparison with a reference standard – non-contact method	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 %	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				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	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			



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

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CMC for the field of measured quantity: Temperature

Ord. number ¹	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified ²	Calibration principle	Calibration procedure identification ³	Work-place
		min	unit	max	unit					
1	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				
		0.01 °C	to	150 °C		0.05 °C				
		150 °C	to	230 °C		0.07 °C				
		230 °C	to	420 °C		0.08 °C				
		420 °C	to	660 °C		0.15 °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				



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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					
		230 °C	to	420 °C		0.15 °C				
		420 °C	to	650 °C		0.3 °C				
		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						Comparison with a resistance temperature sensor in liquid bath.	MKTT ST.2		
		-40 °C	to	-20 °C		0.12 °C				
		-20 °C	to	200 °C		0.07 °C				
		200 °C	to	300 °C		0.15 °C				
	Non-contact thermometers						Comparison with a reference standard	MKTT PR.1		
		-20 °C	to	300 °C		1.2 °C				
		300 °C	to	1,100 °C		0.6 %				
2*	Electronic thermometers, resistance temperature sensors, thermoelectric temperature sensors, glass thermometers						Comparison with a resistance temperature sensor	MKTT ET, MKTT OT.0, MKTT TE.2, MKTT ST.2		
		-80 °C	to	420 °C		0.2 °C				
		420 °C	to	1,100 °C		2.0 °C	Comparison with a thermoelectric temperature sensor			

