

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

UNIMETRA, spol. s r.o.

CAB number 2310, Calibration Laboratory Department

Rohova 1506/6, 716 00 Ostrava-Radvanice

CMC for the field of measured quantity: Length

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	Work-place
		min. unit	max. unit					
1	Micrometer calliper gauges	0 mm	to 1,000 mm		(9 · L + 1.5) µm	Comparison with standard parallel gauge blocks	PP-11.01	
2	Parallel gauge blocks	0.5 mm 100 mm	to 100 mm to 500 mm		(1.5 · L + 0.15) µm (2 · L + 0.16) µm	Comparison with standard parallel gauge blocks	PP-11.02	
3	Slide gauges	0 mm	to 1,000 mm		(5 · L + 12) µm	Comparison with standard parallel gauge blocks	PP-11.05	
4	Height gauges	0 mm	to 1,000 mm		(8 · L + 0.7) µm	Comparison with a standard scale	PP-11.06	
	Length gauges	0 mm	to 1,000 mm		(15 · L + 22) µm			
	Tapes for the measurement of circumference	0 mm	to 2,200 mm		(32 · L + 22) µm			
	Tapes for the measurement of diameter	0 mm	to 700 mm		(55 · L + 145) µm			
	Measuring tapes	0 m	to 10 m		(60 · L + 145) µm			
	Tape measures	0 m	to 5 m		(50 · L + 150) µm			
5	Tape measures - digital	5 m	to 10 m		(25 · L + 200) µm	Measurement on a 3D microscope	PP-11.08	
	Folding rules	0 m	to 5 m		(2 · L + 120) µm			
	Telescopic tubes	0 m	to 5 m		(50 · L + 170) µm			
	Rules of portable microscopes	0 m	to 20 mm		(40 · L + 270) µm			
	Tape measures	0 m	to 50 m		4 µm			
6	Inside micrometer gauges, extension rods	0 mm 1,000 mm	to 1,000 mm to 3,000 mm		(9 · L + 1.5) µm (9.5 · L + 2) µm	Comparison with a standard scale Measurement on a length gauge	PP-11.09	



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7	Micrometric heads	0 mm	to 50 mm		(3·L + 1.2) µm			
	Inside micrometers	0 mm	to 300 mm		(6·L + 1.5) µm	Comparison with measuring rings		
	Micrometer depth gauges	0 mm	to 300 mm		(8·L + 2) µm	Comparison with standard parallel gauge blocks		
8	Weld gauges	0 mm	to 100 mm		20 µm	Comparison with standard parallel gauge blocks	PP-11.12	
	Feeler gauges	0 mm	to 10 mm		(20·L + 0.6) µm	Measurement on a length gauge	PP-11.13	
9	Adjustable gauges for ultrasonic equipment	0 mm	to 250 mm		(8·L + 1) µm			
	Wedges for joints	0 mm	to 30 mm		15 µm	Measurement by a length sensor		
10	Dial indicators	0 mm	to 100 mm		(4·L + 0.5) µm	Measurement by a special measuring device	PP-11.14	
	Calibration foils	0 mm	to 20 mm		(70·L + 0.5) µm	Measurement on a length gauge	PP-11.15	
11	Layer thickness measuring devices	0 mm	to 1.5 mm		1.3 µm	Comparison with layer thickness standards	PP-11.16	
	Cylindrical, flat and slot gauges	0 mm	to 300 mm		(5·L + 0.7) µm	Measurement on a length gauge	PP-11.17	
12	Sphere	0 mm	to 50 mm		(5·L + 0.7) µm			
	Rigid inside micrometers, check tubes	0 mm	to 1,000 mm		(9·L + 1) µm			
	Measuring wires	1,000 mm	to 3,000 mm		(10·L + 1.5) µm			
13	Cylindrical gauges	0.17 mm	to 6.35 mm		0.5 µm			
	Film thickness standards	0 mm	to 0.5 mm		(0.01·L + 2.3) µm	Measurement by a layer thickness measuring instrument	PP-11.18	



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		min. unit	max. unit						
14	Parameters Microparameters	0 mm	to 200 mm		(3.5·L + 0.7) μm (6·L + 1) μm	Comparison with standard parallel gauge blocks	PP-11.19		
		0 mm	to 200 mm						
15	Thickness gauges with dial indicator	0 mm	to 100 mm		1.5 μm	Comparison with standard parallel gauge blocks	PP-11.22		
		Dial indicators with measuring arms for external measurement	0 mm						to 300 mm
		Dial indicators with measuring arms for internal measurement	0 mm						to 300 mm
		Internal gauge with dial indicator	0 mm						to 300 mm
16	Depth gauges with dial indicator	0 mm	to 150 mm		(8·L + 2) μm	Comparison with standard parallel gauge blocks	PP-11.23		
		Length sensors	0 mm						to 100 mm
17	Roller length gauges	0 m	to 250 m		(0.003·L + 0.13) m	Comparison with a standard scale	PP-11.29		
		Limit and end measuring rings	1 mm						to 300 mm
18	Snap gauges	1 mm	to 300 mm		(4·L + 0.7) μm	Measurement on a length gauge	PP-11.31		
		Measurement on a length gauge and comparison with standard parallel gauge blocks	(3·L + 0.6) μm						
19	Ultrasonic thickness gauges	0 mm	to 200 mm		10 μm	Comparison with standard ultrasonic gauges	PP-11.32		
20	Thread gauges – male gauges, cylindrical and conical	0 mm	to 300 mm		(5.5·L + 3) μm	Measurement on a length gauge, microscope and height gauge	PP-11.33		
21	Thread gauges – rings, cylindrical and conical	2 mm	to 16 mm		(5.5·L + 3) μm (2·L + 3.3) μm	Comparison with a threaded wear gauge	PP-11.34		
		3.5 mm	to 300 mm						



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22	Rules	0 mm	to 1,000 mm		(3·L + 3.5) μm (6·L + 5) μm	Comparison with standard parallel gauge blocks from the standard plane	PP-11.45	
		1,000 mm	to 2,000 mm					
23*	Check bars	0 mm	to 4,000 mm		40 μm	Comparison with a standard scale	PP-11.48	
24	Measuring microscopes, profile projectors	0 mm	to 250 mm		2 μm	Comparison with a standard scale	PP-11.48	
25	Length measuring instruments	0 mm	to 500 mm		(3·L + 0.15) μm	Comparison with standard parallel gauge blocks	PP-11.58	
26*	Templated, measuring wedges, scales, special gauges, special measuring instruments and fixtures	0 mm	to 160 mm		(5·L + 4.5) μm	Measurement on a 3D microscope	PP-11.59	
26*	Length gauges, measuring microscopes and profile projectors, measuring systems, coordinate measuring machines, surface rules and blocks, surface plates	0 mm	to 40 m		(1·L + 0.1) μm	Measurement by a laser interferometer	PP-11.50	
		0 mm	to 15 m					
		0 mm	to 100 mm					
27*	Instruments for the calibration of parallel gauge blocks (comparators)	0 mm	to 100 mm		0.04 μm	Comparison with standard parallel gauge blocks	PP-11.57	
28	Knife, flat and trying angles	0 mm	to 630 mm		(10·H + 5)/H μm/H 35 μm/H 75 μm/H	Comparison with standard parallel gauge blocks and perpendicularity standard	PP-11.04	
		630 mm	to 1,000 mm					
		1,000 mm	to 2,000 mm					



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		min. unit	max. unit					
29	Angle standards, perpendicularity cylinders, sine rulers, prismatic blocks, templates, special gauges, special meters and fixtures, male gauges, rings, calipers, surface plates, rulers	0 mm	to 1500 mm		(4.3·L + 1) µm	Measurement on a 3D coordinate measuring machine	PP-11.52	
30*	Contact roughness measuring instruments – roughness gauges	0.1 µm	to 800 µm		3,6 %	Measurement using roughness reference plates	PP-11.49	
	Roughness standards and templates	0.1 µm	to 800 µm		0.07 µm	Contact measurement with roughness gauge		

- 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 – measured length [m], l – measured thickness [m], M – largest length dimension [m], H – arm length [m]



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CMC for the field of measured quantity: Plane angle

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	Work-place
		min. unit	max. unit					
1	Universal angle gauges Locksmith's angle gauges and protractors	0°	to 360°		2'	Comparison with standard angle gauges	PP-11.07	
		0°	to 180°		0,17°			
2	Liquid and electronic levels	-2 mm/m	to 2 mm/m		4 μm/m	Measurement on a level gauge or comparison with standard parallel gauge blocks and sine bar	PP-11.37	
		-20 mm/m	to 20 mm/m		8 μm/m			
		Clinometers	to 90°		9''			
		Builder's level up to 2m	to 2 mm/m		0,18 mm/m			
	Builder's level with angle gauge or clinometer	-180°	to 180°		0,2°	Microscope measurements in relation to the horizontal plane Comparison with angle gauges		

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CMC for the field of measured quantity: Mass

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	Work-place
		min. unit	max. unit					
1*	Electronic and mechanical scales with non-automatic operation	1 mg 20 kg	to to	20 kg 100 kg	5·10 ⁻⁶ 5·10 ⁻⁵	Comparative measurement with standard weights	PP-11.75	

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 - 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).
- The lowest expanded measurement uncertainty is stated without accounting for the effect of the calibrated meter.



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CMC for the field of measured quantity: Torque

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	Work-place
		min. unit	max. unit	unit					
1	Torque wrenches and screwdrivers	0.1 Nm 0.5 Nm	to to	0.5 Nm 1,500 Nm		1 % 0.5 %	Comparison with a standard torque sensor	PP-11.70	

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CMC for the field of measured quantity: Temperature

Ord. number	Calibrated quantity / Subject of calibration	Nominal range			Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Work-place
		min.	unit	max.					
1	Direct indication electronic thermometers	-30 °C	to	100 °C		0.10 °C	Comparison with a standard thermometer in a dry block	PP-11.90	
		100 °C	to	300 °C		0.20 °C			
		300 °C	to	500 °C		0.40 °C			
2	Direct indication electronic non-contact thermometers	500 °C	to	650 °C		0.60 °C			
		-30 °C	to	100 °C		2 °C			
		100 °C	to	200 °C		3 °C			
3	Thermometers for air temperature measurement, data loggers, outdoor thermometers	200 °C	to	300 °C		5 °C	Comparison with a standard thermometer in a climatic chamber	PP-11.91	
		300 °C	to	500 °C		6 °C			
		-10 °C	to	100 °C		0.3 °C			
4	Non-contact thermometers	35 °C	to	100 °C		1.3 °C	Comparison with black body	PP-11.92	
		100 °C	to	300 °C		2.2 °C			
		300 °C	to	500 °C		3.3 °C			

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CMC for the field of measured quantity: Humidity

Ord. number	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ²	Calibration principle	Calibration procedure identification ³	Work-place
		min. unit	max. unit					
1	Hygrometers, measuring chains for measuring relative humidity, data loggers for measuring relative humidity	10 % RH 50 % RH 70 % RH	to to to	50 % RH 70 % RH 90 % RH	1.5 % 2.0 % 2.5 %	Comparison with a standard hygrometer in a climatic chamber	PP-11.95	

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RH—Relative Humidity

