EA MLA Signatory
Český institut pro akreditaci, o.p.s.
(Czech Accreditation Institute)
Hájkova 2747/22, Žižkov, 130 00 Praha 3

issues

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

CERTIFICATE OF ACCREDITATION

No. **11/2026**

UNIMETRA, spol. s r.o.
with registered office Těšínská 773/396, Radvanice, 716 00 Ostrava
Company Registration No. 47669098

for the Calibration Laboratory No. **2310**
Calibration Laboratory Department

Scope of accreditation:

Calibration of meters of length, plane angle, mass, torque, temperature and humidity 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 abovementioned Accredited 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.: 425/2023 of 10/08/2023, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **07/01/2031**

Prague: 07/01/2026

Signed in the Czech original:
Zdeňka Drdová on 07/01/2026

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

This translation of the Czech original has been issued by: Eliška Frycová

The Appendix is an integral part of
Certificate of Accreditation No.11/2026 of 07/01/2026

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]	Location
		min. unit		max. unit					
1	Micrometer calliper gauges Pasameters	0 mm -5 mm	to to	1,000 mm 5 mm	 up to 200 mm	(9·L + 1.5) µm (3.5·L + 0.7) µm	Measurement using parallel gauge blocks	PP-11.01	
2	Parallel gauge blocks	0.5 mm 125 mm	to to	100 mm 500 mm		(1.5·L + 0.15) µm (2·L + 0.16) µm	Comparison with parallel gauge blocks on a comparator Comparison with parallel gauge blocks on a length gauge	PP-11.02	
3	Slide gauges	0 mm	to	1,000 mm		(5·L + 15) µm	Measurement using parallel gauge blocks	PP-11.05	
	Height gauges	0 mm	to	1,000 mm		(8·L + 0.7) µm			
4	Line gauges	0 mm 1,000 mm	to to	1,000 mm 10,000 mm		(15·L + 20) µm (16·L + 28) µm	Comparison with a standard scale	PP-11.06	
		0 mm	to	10,000 mm		(10·L + 20) µm	Measurement by a laser interferometer		
	Rules of portable microscopes	0 mm	to	20 mm		4.5 µm	Measurement on a 3D microscope		
	Tape measures	0 m	to	20 m		(20·L + 20) µm	Measurement by a laser interferometer		
	Tape measures - digital	20 m 0 m	to to	100 m 5 m		(21·L + 30) µm (2·L + 120) µm	Comparison with a reference scale Measurement using parallel gauge blocks		
	Laser distance meters	0 m	to	20 m		0.4 mm	Comparison with a reference scale		
5	Inside micrometer gauges, extension rods	0 mm 1,000 mm	to to	1,000 mm 3,000 mm		(9·L + 1.5) µm (9.5·L + 2) µm	Measurement on a length gauge	PP-11.09	
	Micrometric heads	0 mm	to	50 mm		(3·L + 1.2) µm			
	Inside micrometers	0 mm	to	300 mm		(6·L + 1.5) µm	Measurement by setting rings		

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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					
	Micrometer depth gauges	0 mm	to	300 mm			(8·L + 2) µm	Measurement using parallel gauge blocks		
6	Weld gauges	0 mm	to	100 mm			20 µm	Measurement using parallel gauge blocks	PP-11.12	
7	Feeler gauges	0 mm	to	10 mm			(20·L + 0.6) µm	Measurement on a length gauge	PP-11.13	
	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		
8	Dial indicators	0 mm	to	100 mm			(4·L + 0.5) µm	Measurement on a dial indicator instrument	PP-11.14	
9	Calibration foils	0 mm	to	20 mm			(70·L + 0.5) µm	Measurement on a length gauge	PP-11.15	
10	Layer thickness measuring devices	0 mm	to	1.5 mm			1.3 µm	Measurement with calibration sheets and layer thickness reference standards	PP-11.16	
11	Cylindrical, flat and slot gauges	0 mm	to	300 mm			(5·L + 0.7) µm	Measurement on a length gauge	PP-11.17	
	Sphere	0 mm	to	50 mm			(5·L + 0.7) µm			
	Rigid inside micrometers, check tubes	0 mm 1,000 mm	to to	1,000 mm 3,000 mm			(9·L + 1) µm (10·L + 1.5) µm			
	Measuring wires	0.17 mm	to	6.35 mm			0.5 µm			
	Cylindrical gauges	0 mm	to	20 mm			0.5 µm			
12	Film thickness standards	0 mm 0.5 mm	to to	0.5 mm 1.5 mm			(0.01·l + 2.3) µm 8.5 µm	Measurement by a layer thickness measuring instrument	PP-11.18	
13	Thickness gauges with dial indicator	0 mm	to	100 mm			1.5 µm	Measurement using parallel gauge blocks	PP-11.22	

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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					
	Dial indicators with measuring arms for external measurement	0 mm	to	300 mm			(10·L + 1.5) µm			
	Dial indicators with measuring arms for internal measurement	0 mm	to	300 mm			(7·L + 1) µm	Measurement using setting rings and parallel gauge blocks		
	Internal gauge with dial indicator	0 mm	to	300 mm			2 µm	Measurement on a dial indicator instrument		
	Depth gauges with dial indicator	0 mm	to	150 mm			(8·L + 2) µm	Measurement using parallel gauge blocks		
14	Length sensors	0 mm	to	100 mm			(4·L + 0.45) µm	Measurement on a length gauge	PP-11.23	
15	Roller length gauges	0 m	to	250 m			(0.003·L + 0.13) m	Measurement using tape measures	PP-11.29	
16	Limit and end measuring rings	1 mm	to	300 mm			(4·L + 0.7) µm	Comparison on a length gauge with a setting ring	PP-11.31	
	Snap gauges	1 mm	to	300 mm			(4·L + 0.7) µm			
17	Ultrasonic thickness gauges	0 mm	to	200 mm			10 µm	Measurement using ultrasonic gauges	PP-11.32	
18	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	
19	Thread gauges – rings, cylindrical and conical	2 mm	to	16 mm			(5.5·L + 3) µm	Comparison with a threaded wear gauge	PP-11.34	
		3.5 mm	to	300 mm			(2·L + 3.3) µm	Comparison on a length gauge with a setting ring		
20	Straightness / Rules	-1 mm	to	1 mm		length up to 1,000 mm 1,000 mm to 2,000 mm	(3·L + 3.5) µm (6·L + 5) µm	Measurement using parallel gauge blocks from a reference plane	PP-11.45	
	Straightness / Check bars	-5 mm	to	5 mm		length up to 4,000 mm	40 µm			
21*	Measuring microscopes, profile projectors	0 mm	to	300 mm			2 µm	Measurement using a glass gauge	PP-11.48	

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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					
22	Length measuring instruments	0	mm	to 500	mm		(3·L + 0.15) µm	Measurement using parallel gauge blocks	PP-11.58	
23	Templates, 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	
24*	Length gauges, measuring microscopes and profile projectors, measuring systems, coordinate measuring machines, line scales	0	mm	to 40	m		(1·L + 0.1) µm	Measurement by a laser interferometer	PP-11.50	
	Straightness / Surface rules and blocks, surface plates	0	mm	to 15	m		(1.6·M + 0.1) µm			
	Flatness / Surface plates	0	mm	to 15	m		(1.6·M + 0.1) µm			
25*	Instruments for the calibration of parallel gauge blocks (comparators)	-10	µm	to 10	µm	length up to 100 mm	0.04 µm	Measurement using parallel gauge blocks	PP-11.57	
26	Perpendicularity deviation / Angles	-10	mm	to 10	mm	length up to 630	(10·H + 5) µm	Measurement using parallel gauge blocks and perpendicularity standard	PP-11.04	
						630 mm to 1,000 mm	35 µm			
						1,000 mm to 2,000 mm	75 µm			
27	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	

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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					
28*	Contact roughness measuring instruments – roughness gauges	0.1	µm	800	µm		3,6 %	Measurement using roughness reference plates	PP-11.49	
	Roughness standards and templates	0.1	µm	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 min. unit		Nominal range max. unit	Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Location
1	Angle gauges	0°	to	360°		2′	Measurement using angle gauges	PP-11.07	
2	Engineering and electronic levels	-2 mm/m	to	2 mm/m		4 µm/m	Measurement on a small angle generator	PP-11.37	
		-20 mm/m	to	20 mm/m		8 µm/m	Measurement using sine bars and parallel gauge blocks		
	Builder's levels	-2 mm/m	to	2 mm/m	length up to 2 m	0.18 mm/m	Microscope measurements in relation to the horizontal plane		
	Clinometers	-90 °	to	90 °		9′′			

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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]	Location
		min.	unit	max.	unit						
1*	Electronic and mechanical scales with non-automatic operation	1 mg	to	20 kg		Weight	E2, F1	$5 \cdot 10^{-6} + 5$ µg	Comparative measurement with standard weights	PP-11.75	
		20 kg	to	100 kg			F1, M1	$5 \cdot 10^{-5}$			

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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]	Location
		min.	unit	max.	unit					
1	Torque wrenches and screwdrivers	0.1 Nm	to	0.5 Nm			1 %	Measurement by a torque sensor	PP-11.70	
		0.5 Nm	to	1,500 Nm			0.5 %			

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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 measurand	Lowest stated expanded measurement uncertainty[2]	Calibration principle	Calibration procedure identification[3]	Location
		min.	unit	max.	unit					
1	Direct indication electronic thermometers	-30	°C	100	°C		0.10 °C	Comparison with a standard thermometer in a dry block	PP-11.90	
		100	°C	300	°C		0.20 °C			
		300	°C	500	°C		0.40 °C			
		500	°C	650	°C		0.60 °C			
2	Direct indication electronic non-contact thermometers	-30	°C	100	°C		2 °C			
		100	°C	200	°C		3 °C			
		200	°C	300	°C		5 °C			
		300	°C	500	°C		6 °C			
3	Thermometers for air temperature measurement, data loggers, outdoor thermometers	-10	°C	100	°C		0.3 °C	Comparison with a standard thermometer in a climatic chamber	PP-11.91	
4	Non-contact thermometers	35	°C	100	°C		1.3 °C	Comparison with black body	PP-11.92	
		100	°C	300	°C		2.2 °C			
		300	°C	500	°C		3.3 °C			

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CMC for the field of measured quantity: Humidity

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	Hygrometers, measuring chains for measuring relative humidity, data loggers for measuring relative humidity	10 % RH	to	30 % RH		30 °C to 50 °C	1,5 %RH	Comparison with a standard hygrometer in a climatic chamber	PP-11.95	
		30 % RH	to	50 % RH		13 °C to 33 °C	1,5 %RH			
		50 % RH	to	70 % RH		13 °C to 33 °C	2,0 %RH			
		70 % RH	to	90 % RH		13 °C to 33 °C	2,5 %RH			

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[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).

RH –Relative Humidity