



EA MLA Signatory
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. 8/2021

Daniel Zindler
with registered office K Dálnici 593, 760 01 Zlín - Kudlov, Company Registration No. 70271372

to the Calibration Laboratory No. 2401
Zindler Calibration Laboratory

Scope of accreditation:

Calibration of length and temperature gauges 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 Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the 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.: 98/2018 of 27. 2. 2018, or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **4. 1. 2026**

Prague: 4. 1. 2021



Pavel Nosek
Director of the Department
of Testing and Calibration Laboratories
Czech Accreditation Institute
Public Service Company



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

Daniel Zindler
Zindler Calibration Laboratory
Voženílkova 5561, 760 05 Zlín

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	Slide gauges, slide depth gauges, slide height gauges, sliding gear tooth calipers, gauges for checking welds	0 mm	to 2,000 mm		(10·L + 10) μm	Comparison with parallel gauge blocks, gauges and rings	KP 10	
	Linear height gauges	0 mm	to 1,000 mm		(2·L + 0.5) μm			
2	Micrometer calliper gauges	0 mm	to 1,000 mm		(7·L + 1.3) μm	Comparison with parallel gauge blocks, gauges and rings	KP 11	
	Micrometer depth gauges	0 mm	to 300 mm		(15·L + 1.5) μm			
	Micrometers with prismatic anvils	1 mm	to 150 mm		(10·L + 1.5) μm			
	Pasameters	0 mm	to 200 mm		(4·L + 0.5) μm			
	Micropasameters	0 mm	to 200 mm		(7·L + 1.3) μm			
	Two-contact and three-contact inside micrometers	2 mm	to 250 mm		(5·L + 1.6) μm			
3	Inside micrometer gauges, extension rods	0 mm	to 1,000 mm		(5·L + 1.5) μm	Direct measurement on a length gauge	KP 12	
	Micrometric heads	0 mm	to 50 mm		(5·L + 1.2) μm			
	Thread gauges	1 mm	to 300 mm		(5·L + 2.5) μm			
4	Threaded rings	3.5 mm	to 200 mm		(3·L + 2.5) μm	Comparison with a threaded wear gauge	KP 12	
	Threaded rings	1 mm	to 16 mm		(6·L + 3.0) μm			
	Conical thread gauges and rings	1 mm	to 50 mm		(6·L + 10) μm			
	Cylindrical, flat, slot, square and hexagonal gauges	0 mm	to 300 mm		(5·L + 0.4) μm			
Setting gauges for micrometers	0 mm	to 1,000 mm		(5·L + 0.4) μm	Direct measurement on a length gauge	KP 12		



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		min. unit	max. unit					
5	Measuring wires and cylindrical gauges	0 mm	to 100 mm		(5·L + 0.4) μm	Direct measurement by a special measuring device or a length gauge	KP 12	
	Snap gauges	2 mm	to 250 mm		(5·L + 0.7) μm			
	Setting and limit rings	2 mm	to 250 mm		(5·L + 0.7) μm			
	Feeler gauges	0 mm	to 10 mm		(20·L + 0.6) μm			
	Calibration foils	0 mm	to 20 mm		0.4 μm			
	Wedges for joints	0 mm	to 30 mm		15 μm			
	Dial and digital indicators	0 mm	to 100 mm		(5·L + 0.4) μm			
	Lever indicators	0 mm	to 10 mm		(5·L + 0.4) μm			
	Length sensors	0 mm	to 100 mm		(5·L + 0.4) μm			
	Internal gauges with indicator	0 mm	to 300 mm		(5·L + 0.4) μm			
6	Tape measures	0 mm	to 15 m		(50·L + 150) μm	Comparison with a standard scale	KP 13	
	Folding rules	0 mm	to 5 m		(50·L + 180) μm			
	Tape measures	0 mm	to 100 m		(70·L + 40) μm			
	Length gauges	0 mm	to 5 m		(50·L + 50) μm			
	Measuring tapes	0 mm	to 10 m		(70·L + 50) μm			
	Telescopic tubes	0 mm	to 5 m		(50·L + 270) μm			
	Laser distance meters	0 mm	to 5 m		0.2 mm			
	Gauges	0 mm	to 200 mm		(5·L + 2.0) μm			
	Measuring tapes for circumference and diameter measurement	0 mm	to 300 mm		(100·L + 30) μm			
	Thickness gauges with dial indicator	0 mm	to 100 mm		(10·L + 1.0) μm			
7	Ultrasonic thickness gauges	0 mm	to 200 mm		(10·L + 3.0) μm	Comparison with parallel gauge blocks Comparison with ultrasonic gauges Comparison with layer thickness standards	KP 14	
	Layer thickness measuring devices	0 mm	to 1.5 mm		2.0 μm			



The Appendix is an integral part of
Certificate of Accreditation No. 8/2021 of 04/01/2021

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

Daniel Zindler
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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	Dial indicators with measuring arms for external measurement	0 mm	to 300 mm		(10·L + 1.0) µm	Comparison with parallel gauge blocks		
	Dial indicators with measuring arms for internal measurement	2 mm	to 200 mm		(10·L + 2.0) µm	Comparison with rings		
	Parallel gauge blocks	0.5 mm	to 100 mm		(2·L + 0.2) µm	Comparison with parallel gauge blocks using a comparator or a length gauge	KP 15	
9	4th order	0.5 mm	to 500 mm		(5·L + 0.5) µm			
	5th order	0.01 µm	to 6,000 µm		5 %	Comparative measurement by roughness standards	KP 04	
10	Roughness meters	0.01 µm	to 6,000 µm		5 %	Comparative measurement on a roughness meter		
	Roughness standards					Direct measurement with a linear height gauge with a length sensor for the measurement of perpendicularity and straightness	KP 29	
	Rules	0 mm	to 1,000 mm		(2·L + 1.5) µm	Comparison with parallel gauge blocks from the standard plane		
11	Check bars	1,000 mm	to 2,000 mm		(4·L + 4.0) µm			
	Angles	0 mm	to 2,000 mm		30 µm			
11		0 mm	to 400 mm		(4·L + 2.0) µm	Comparison with a perpendicularity standard and parallel gauge blocks	KP 18	
		0 mm	to 1,000 mm		(4·L + 2.0) µm	Direct measurement with a linear height gauge with a length sensor for the measurement of perpendicularity and straightness		

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



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

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Zindler Calibration Laboratory
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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	Workplace
		min. unit	max. unit					
1	Direct indicating thermometers		0 °C		0.05 °C	Comparative measurement with a standard thermometer in a mixture of ice and water	KP 31	
		20 °C	to 150 °C		0.1 °C	Comparative measurement with a standard thermometer in a liquid bath		
		-18 °C	to 25 °C		0.2 °C	Comparative measurement with a standard thermometer in a climatic chamber		
		25 °C	to 50 °C		0.2 °C	Comparative measurement with a standard thermometer in a dry block		
		50 °C	to 150 °C		0.3 °C			
		150 °C	to 300 °C		0.4 °C			
2	Non-contact thermometers		100 °C		1.3 °C	Comparative measurement with a standard thermometer in a horizontal furnace	KP 34	
		35 °C	to 100 °C		1.5 °C			
		100 °C	to 200 °C		2.0 °C			
		200 °C	to 350 °C		2.5 °C			
		350 °C	to 500 °C					

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