



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. 332/2025

TÜV SÜD Czech s.r.o.
with registered office Novodvorská 994, 142 21 Praha 4
Company Registration No. 63987121

for the Calibration Laboratory No. 2405
Calibration Laboratory

Scope of accreditation:

Calibrations in the field of length, plane angle, mechanical motion, pressure, frequency and time 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.: 47/2024 of 05/02/2024, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: 05/02/2029

Prague: 02/07/2025



Signed in the Czech original:
Jan Velíšek on 02/07/2025

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. 332/2025 of 02/07/2025**

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

TÜV SÜD Czech s.r.o.
CAB number 2405, Calibration Laboratory
UNO TECHNOLOGY PARK Bezděčín, Hala H1a, č.p. 108, 293 01 Mladá Boleslav

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*	Sensors of displacement, distance and position	0 mm		300 mm			0.04 mm	comparison with a height gauge	I540 – 068 – 10	
		300 mm		1,500 mm			0.30 mm			
2	Belt motion sensors	-400 mm		400 mm			(0.2·L + 0.40) mm	comparison with a calibration jig	I540 – 068 – 10	

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:

L – measured length in metres

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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	Location
		min.	unit	max.	unit					
1*	Sensors of position and inclinometers	0 °		to	360 °		0.02°	comparison with a digital inclinometer or rotary index table	I540 – 068 – 10	

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CMC for the field of measured quantity: Mechanical motion

Ord. num-ber 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	Loca-tion
		min.	unit	max.	unit					
1*	Meters and sensors of half-sine wave mechanical shock acceleration	100 m·s ⁻²	to	1,471 m·s ⁻²		1.0 %	comparison with a standard acceleration sensor	I 540 – 068 – 43		
		1,471 m·s ⁻²	to	2,000 m·s ⁻²		1.5 %				
		2,000 m·s ⁻²	to	40,000 m·s ⁻²		1.8 %				
2	Acceleration of linear mechanical vibrations of harmonic wave form ^{4 5} / Vibration sensors, vibrometers, vibration calibrators, vibration generators ^{4 5}	0.1 m·s ⁻²	to	295 m·s ⁻²	5 Hz up to 10 Hz 10 Hz up to 20 Hz 20 Hz up to 80 Hz 80 Hz 80 Hz up to 1,000 Hz 1,000 Hz up to 5,000 Hz 5,000 Hz up to 10,000 Hz	2.0 % 1.0 % 0.75 % 0.5 % 0.75 % 1.0 % 2.0 %	comparison with a standard acceleration sensor	I 540 – 068 – 45		
3	Sensitivity of vibration sensors and vibrometers ^{4 5}	0.01 mV/(m·s ⁻²)	to	10,000 mV/(m·s ⁻²)	5 Hz up to 10 Hz 10 Hz up to 20 Hz 20 Hz up to 80 Hz 80 Hz 80 Hz up to 1,000 Hz 1,000 Hz up to 5,000 Hz 5,000 Hz up to 10,000 Hz	2.0 % 1.0 % 0.75 % 0.5 % 0.75 % 1.0 % 2.0 %	comparison with a vibration standard	I 540 – 068 – 45		
		0.01 pC/(m·s ⁻²)	to	1,000 pC/(m·s ⁻²)						
		0.01 mV/(m·s ⁻¹)	to	10,000 mV/(m·s ⁻¹)						
		0.01 mV/m	to	10,000 mV/m						

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Ord. num-ber 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	Loca-tion
		min.	unit	max.	unit					
4	Transmission of amplifiers, filters and vibrometers	0.001 mV/pC to 10,000 mV/pC				0.2 Hz up to 1 Hz	0.5 %	direct measurement	I 540 – 068 – 45	
						1 Hz up to 5,000 Hz	0.4 %			
						5,000 Hz up to 10,000 Hz	0.4 %			
						10,000 Hz up to 20,000 Hz	0.6 %			
						20,000 Hz up to 50,000 Hz	1.0 %			
		0.001 V/V to 1,000 V/V				0.2 Hz up to 1 Hz	0.4 %			
						1 Hz up to 20,000 Hz	0.3 %			
						20,000 Hz up to 50,000 Hz	1.0 %			
5	Vibration measurement ^{4 5/} Vibration generators	0.1 m·s ⁻² to 295 m·s ⁻²				5 Hz up to 10 Hz	2.0 %	direct measurement	I 540 – 068 – 45	
						10 Hz up to 20 Hz	1.0 %			
						20 Hz up to 80 Hz	0.75 %			
						80 Hz	0.5 %			
						80 Hz up to 1,000 Hz	0.75 %			
						1,000 Hz up to 5,000 Hz	1.0 %			
						5,000 Hz up to 10,000 Hz	2.0 %			
6*	Speedometers, GPS and radar speedometers, speed sensors	5 km·h ⁻¹ to 180 km·h ⁻¹				distance standard	0.02 %	comparison with distance and time standard	I 540 – 068 – 29	
		20 km·h ⁻¹ to 130 km·h ⁻¹				measured distance	0.04 %			
7*	Speedometers with a rolling wheel	2 m·min ⁻¹ to 100 m·min ⁻¹					0.1 % + 0.01 m·min ⁻¹	direct generation of circumferential velocity	I 540 – 068 – 05	

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Ord. num- ber 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	Loca- tion
		min.	unit	max.	unit					
8*	Revolution counters, rpm sensors, stroboscopes	500 min ⁻¹ 10,000 min ⁻¹		to	10,000 min ⁻¹ 100,000 min ⁻¹		0.006 min ⁻¹ 0.06 min ⁻¹	direct measurement of an optical or electrical signal	I 540 – 068 – 05	
9	Angular velocity of the vibration-rotation harmonic waveform ^{6 7} / Angular velocity sensors ^{6 7}	0.01 rad·s ⁻¹		to	87.3 rad·s ⁻¹	1 Hz to 200 Hz	1.5 %	comparison with a standard angular velocity sensor	I 540 – 068 – 45	
10	Sensitivity of angular velocity sensors ^{6 7}	0.001 mV/(rad·s ⁻¹)		to	10,000 mV/(rad·s ⁻¹)	1 Hz to 200 Hz	1.5 %	comparison with a standard angular velocity sensor	I 540 – 068 – 45	

- 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).
- ⁴ The measured quantity can also be velocity and displacement, assuming that a vibrational signal of the harmonic waveform is generated at a known frequency.
- ⁵ It can also be given in the units g, pC/g or mV/g, where 1 g = 9.807 m·s⁻²
- ⁶ The measured quantity can also be angular acceleration, angular displacement assuming that a vibration-rotation signal of the harmonic waveform is generated at a known frequency.
- ⁷ Can also be given in units of °·s⁻¹, mV/(°·s⁻¹), where 1 °·s⁻¹ = $\pi/180$ rad·s⁻¹

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CMC for the field of measured quantity: Pressure, mechanical stress

Ord. num-ber 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	Mechanical and electromechanical manometers					gas		comparison with a digital pressure gauge	I540 – 068 – 3	
		-95	kPa	to	0	kPa	0.1 kPa			
		0	MPa	to	0.7	MPa	0.03 % + 0.08 kPa			
		0.7	MPa	to	3.5	MPa	0.03 % + 0.4 kPa			
		3.5	MPa	to	7	MPa	0.03 % + 0.8 kPa			
		7	MPa	to	20	MPa	0.03 % + 2.3 kPa			
						oil	3.5 kPa	comparison with a piston pressure gauge		
0	MPa	to	6	MPa						
6	MPa	to	60	MPa		0.06 %				

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CMC for the field of measured quantity: Time, frequency

Ord. num- ber 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 measurement, frequency generators, digital speed cameras, synchronization boxes, time bases for measuring instruments and systems, counters and frequency meters	1 Hz		to	1 MHz		$2.3 \cdot 10^{-7}$ Hz	direct measurement with a standard counter	I 540 – 068 – 44	
2*	Time interval / stopwatches, timers and other chronometers	1 ms		to	1,000 ms		$1.0 \cdot 10^{-5}$ s	comparison with a standard counter	I 540 – 068 – 02	
		1 s		to	10,800 s		$6.0 \cdot 10^{-4}$ s			

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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. "