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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. 36/2026

VOP CZ, s.p.
with registered office Dukelská 102, 742 42 Šenov u Nového Jičína
Company Registration No. 00000493

for the Calibration Laboratory No. 2399
Calibration Laboratory

Scope of accreditation:

Calibration of measuring instruments in the fields of length, roughness, plane angle, torque, hardness, pressure and electrical quantities 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.: 691/2024 of 18/12/2024, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **22/01/2031**

Prague: 22/01/2026



Signed in the Czech original:
Jan Velíšek on 22/01/2026

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. 36/2026 of 22/01/2026**

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

VOP CZ, s.p.

CAB number 2399, Calibration Laboratory
Dukelská 102, 742 42 Šenov u Nového Jičína

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	Slide gauges	0 mm 250 mm	to to	250 mm 1,000 mm	(11·L + 12) μm (14·L + 19) μm	Measurement using parallel gauge blocks	KP-GL-2.1	
2	Slide depth gauges	0 mm	to	250 mm	(11·L + 12) μm	Measurement using parallel gauge blocks	KP-GL-2.8	
3	Slide height gauges	0 mm	to	1,000 mm	(14·L + 19) μm	Measurement using parallel gauge blocks	KP-GL-2.9	
4	Weld gauges	0 mm	to	100 mm	(14·L + 120) μm	Measurement using parallel gauge blocks	KP-GL-2.7	
5	Micrometer calliper gauges	0 mm 200 mm	to to	200 mm 500 mm	(11·L + 1.5) μm (14·L + 16) μm	Measurement using parallel gauge blocks	KP-GL-2.2	
6	Pasameters	0 mm	to	200 mm	(11·L + 1.5) μm	Measurement using parallel gauge blocks	KP-GL-2.3	
7	Dial indicators	0 mm	to	25 mm	(14·L + 1.5) μm	Measurement on a dial indicator calibration instrument	KP-GL-2.4	
8	Two-contact internal gauges	0 mm	to	200 mm	(14·L + 1.3) μm	Measurement on a dial indicator calibration instrument	KP-GL-2.4	
9	Thickness gauges	0 mm	to	1 mm	1.2 μm	Measurement with calibration sheets	KP-GL-2.6	
10	Plain cylindrical gauges	0 mm	to	200 mm	(14·L + 2.4) μm	Measurement on a universal length gauge	KP-GL-1.2	
11	Male thread gauges for threads	3 mm	to	100 mm	(14·L + 2.8) μm	Measurement on a universal length gauge	KP-GL-4.1	
12	Tape measures	0 mm	to	10,000 mm	(0.042·L + 0.13) mm	Comparison with a reference steel gauge	KP-GL-1.7	

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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					
13	Steel rules	0 mm	to 2,000 mm		$(0.042 \cdot L + 0.13) \text{ mm}$	Comparison with a reference steel gauge	KP-GL-1.6	
14	Feeler gauges	0 mm	to 10 mm		$(14 \cdot L + 1.9) \mu\text{m}$	Measurement on a universal length gauge	KP-GL-1.4	
15	Calibration foils	0 mm	to 10 mm		1.9 μm	Measurement on a universal length gauge	KP-GL-1.9	
16	Inside micrometer gauges	0 mm	to 250 mm		$(14 \cdot L + 2.4) \mu\text{m}$	Measurement on a universal length gauge	KP-GL-2.10	
17	Surface rules	0 mm	to 1,100 mm		$(1.4 \cdot L + 7) \mu\text{m}$	Measurement using parallel gauge blocks on a flat plate	KP-GL-3.1	
18	Two-contact and three-contact inside micrometers	0 mm	to 200 mm		$(14 \cdot L + 1.5) \mu\text{m}$	Measurement by setting rings	KP-GL-2.11	
19	Setting and limit rings	22 mm	to 200 mm		$(14 \cdot L + 2.2) \mu\text{m}$	Comparison with a setting ring on a length gauge	KP-GL-1.5	
20	Straightness / 90° Angles	0 mm	to 4 mm	Arm length up to 630 mm Arm length from 630 mm to 1,000 mm	$(1.4 \cdot L + 9.2) \mu\text{m}$ $(2 \cdot L + 22) \mu\text{m}$	Measurement on a flat plate using a height gauge with a length sensor	KP-GU-1.1	
21	Roughness meters	0.01 μm	to 350 μm		3.6 %	Measurement using reference roughness plates	KP-GL-5.2	
22	Roughness standards and samples	0.01 μm	to 350 μm		Q[30; 50R _x]	Contact measurement by a roughness meter	KP-GL-5.1	

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.

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Explanatory notes:

L - nominal 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	Location
		min. unit	max. unit					
1	Angle gauges	0 °	to 360 °		4.8 ′	Measurement using angle gauges	KP-GU-2.1	
2	Clinometers	0 °	to 360 °		0.12 °	Measurement using a sine bar with parallel gauge blocks and a measuring cylinder	KP-GU-2.2	
3	Machinery and builder's levels (up to 2,000mm)	0 mm/m	to 87 mm/m		0.02 mm/m	Measurement using a sine bar with parallel gauge blocks and a measuring cylinder	KP-GU-2.3	

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CAB number 2399, Calibration Laboratory
Dukelská 102, 742 42 Šenov u Nového Jičína

CMC for the field of measured quantity: Force, mechanical tests

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 / Torque wrenches and screwdrivers	1 N·m		to	1,000 N·m		0.6 %	Comparison with a torque sensor	KP-MS-3.1	
2	Hardness / Hardness test plates and samples - Rockwell	10 HRBW		to	100 HRBW	HRBW	1.3 %	ČSN EN ISO 6508-3	KP-MS-2.3	
		20 HRC		to	70 HRC	HRC	1.2 %			
3	Hardness / Hardness test plates and samples - Brinell	10 HBW		to	650 HBW	HBW 2.5	1.4 %	ČSN EN ISO 6506-3	KP-MS-2.4	
4	Hardness / Hardness test plates and samples - Vickers	10 HV		to	3,000 HV	HV 10	1.6 %	ČSN EN ISO 6507-3	KP-MS-2.2	
						HV 30	1.2 %			

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CMC for the field of measured quantity: Pressure

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	Deformation pressure gauges	0 MPa	to	3 MPa		relative pressure	Liquid and air	4.8 kPa 32 kPa 65 kPa 190 kPa	Comparison with a standard digital pressure gauge (EURAMET c.g. 17)	KP-MT-1.1	
		3 MPa	to	20 MPa							
		20 MPa	to	50 MPa							
		50 MPa	to	140 MPa							
2	Digital pressure gauges	0 MPa	to	3 MPa		relative pressure	Liquid and air	3.8 kPa 25 kPa 37 kPa 104 kPa	Comparison with a standard digital pressure gauge (EURAMET c.g. 17)	KP-MT-1.2	
		3 MPa	to	20 MPa							
		20 MPa	to	50 MPa							
		50 MPa	to	140 MPa							

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CMC for the field of measured quantity: Electrical quantities

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-current voltage/ voltmeters, multimeters, analogue and digital	0 mV	to	20 mV		0.035 % + 10 µV	Measurement by a reference calibrator	KP-EM-2.1, KP-EM-2.2		
		20 mV	to	100 mV		0.095 %				
		100 mV	to	200 mV		0.029 %				
		0.2 V	to	1 V		0.012 %				
		1 V	to	2 V		0.0054 %				
		2 V	to	10 V		0.0090 %				
		10 V	to	20 V		0.0047 %				
		20 V	to	100 V		0.0090 %				
		100 V	to	240 V		0.0047 %				
2	Alternating-current voltage/ voltmeters, multimeters, analogue and digital	240 V	to	1,000 V		0.029 %	Measurement by a reference calibrator	KP-EM-2.1, KP-EM-2.2		
		10 mV	to	20 mV		20 Hz to 10 kHz				0.58 %
		20 mV	to	100 mV		20 Hz to 10 kHz				0.56 %
		100 mV	to	200 mV		20 Hz to 10 kHz				0.21 %
		0.2 V	to	1 V		20 Hz to 10 kHz				0.066 %
		1 V	to	2 V		20 Hz to 10 kHz				0.038 %
		2 V	to	10 V		20 Hz to 10 kHz				0.066 %
		10 V	to	20 V		20 Hz to 10 kHz				0.038 %
		20 V	to	100 V		20 Hz to 10 kHz				0.58 %
		100 V	to	240 V	20 Hz to 1 kHz	0.15 %				

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		min.	unit	max.	unit					
		240 V	to	1,000 V		20 Hz to 1 kHz	0.13 %			
3	Direct current/ ammeters, multimeters, analogue and digital	1 µA	to	200 µA			0.058 % + 20 nA	Measurement by a reference calibrator	KP-EM-2.1, KP-EM-2.2	
		0.2 mA	to	1 mA			0.078 %			
		1 mA	to	2 mA			0.035 %			
		2 mA	to	10 mA			0.045 %			
		10 mA	to	20 mA			0.019 %			
		20 mA	to	100 mA			0.046 %			
		100 mA	to	200 mA			0.019 %			
		0.2 A	to	1 A			0.072 %			
		1 A	to	2 A			0.029 %			
		2 A	to	10 A			0.13 %			
		10 A	to	20 A			0.047 %			
4	Alternating current/ ammeters, multimeters, analogue and digital	10 µA	to	100 µA		20 Hz to 1 kHz	0.52 %	Measurement by a reference calibrator	KP-EM-2.1, KP-EM-2.2	
		100 µA	to	200 µA		20 Hz to 1 kHz	0.21 %			
		0.2 mA	to	1 mA		20 Hz to 1 kHz	0.24 %			
		1 mA	to	2 mA		20 Hz to 1 kHz	0.12 %			
		2 mA	to	10 mA		20 Hz to 1 kHz	0.18 %			
		10 mA	to	20 mA		20 Hz to 1 kHz	0.092 %			
		20 mA	to	100 mA		20 Hz to 1 kHz	0.17 %			
		100 mA	to	200 mA		20 Hz to 1 kHz	0.090 %			
		0.2 A	to	1 A		20 Hz to 1 kHz	0.21 %			
		1 A	to	2 A		20 Hz to 1 kHz	0.12 %			
		2 A	to	10 A		20 Hz to 1 kHz	0.49 %			

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		min.	unit	max.	unit					
		10 A		to	20 A	20 Hz to 1 kHz	0.23 %			
5	DC resistance/ ohmmeters, multimeters, analogue and digital	0 Ω		to	100 Ω		0.036 % + 30 mΩ	Measurement by a reference calibrator or reference resistance	KP-EM-2.1, KP-EM-2.2	
		100 Ω		to	400 Ω		0.038 %			
		0.4 kΩ		to	2 kΩ		0.023 %			
		2 kΩ		to	10 kΩ		0.019 %			
		10 kΩ		to	200 kΩ		0.018 %			
		0.2 MΩ		to	1 MΩ		0.059 %			
		1 MΩ		to	4 MΩ		0.12 %			
		4 MΩ		to	20 MΩ		0.23 %			
		20 MΩ		to	50 MΩ		0.59 %			

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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."