



**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. 451/2025

**KALIST AKL s.r.o.**  
**with registered office č.p. 8, 769 01 Třebětice**  
**Company Registration No. 04432436**

for the Calibration Laboratory No. 2394  
Calibration Laboratory

Scope of accreditation:

Calibration in the fields of volume, mass, rotational speed, temperature, air humidity, time, and frequency 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.: 310/2023 of 15/06/2023, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **04/09/2030**

Prague: 04/09/2025



Signed in the Czech original:  
Jan Velíšek on 04/09/2025

**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



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

**KALIST AKL s.r.o.**  
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č.p. 8, 769 01 Třebětice

**CMC for the field of measured quantity: Volume**

Ord. number <sup>1</sup>	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Loca- tion
		min.	unit	max.	unit			
1	Piston pipettes	0.5 µl		to	10,000 µl	Gravimetric method (ČSN EN ISO 8655-6, EURAMET cg-19)	KP-05	
	Other piston gauges – burettes, dispensers, dilution devices	0.1 ml		to	100 ml			

<sup>1</sup> Asterisk at the ordinal number identifies the calibrations, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

<sup>2</sup> 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.

<sup>3</sup> 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).

<sup>4</sup> The lowest uncertainty includes the effect of the operator and does not include the statistical components of uncertainty.

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CMC for the field of measured quantity: Mass

Ord. number <sup>1</sup>	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded mesurement uncertainty <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Loca- tion
		min.	unit	max.	unit					
1*	Balances with non-automatic function	0 g					0.0006 mg		KP-01	
		1 mg	to	50 mg		0.005 mg	Loading using a class E2 reference weight (according to OIML R111- 1:2004)			
		50 mg	to	500 mg		0.009 mg				
		500 mg	to	1 g		0.011 mg				
		1 g	to	2 g		0.014 mg				
		2 g	to	5 g		0.017 mg				
		5 g	to	10 g		0.021 mg				
		10 g	to	20 g		0.027 mg				
		20 g	to	50 g		0.034 mg				
		50 g	to	66 kg		5·10 <sup>-7</sup>				
1 mg	to	5 g		0.1 mg	Loading using a class F1 reference weight (according to OIML R111- 1:2004)					
5 g	to	50 g		0.2 mg						
50 g	to	16 kg		4·10 <sup>-6</sup>						
1 g	to	50 g		1 mg	Loading using a class F2 reference weight (according to OIML R111- 1:2004)					
50 g	to	370 kg		1·10 <sup>-5</sup>						
200 kg	to	1500 kg		1.2·10 <sup>-5</sup>	Loading using a class F2 reference weight (according to OIML R111- 1:2004) with the use of substitute load					

**The Appendix is an integral part of  
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Ord. number <sup>1</sup>	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Loca- tion
		min.	unit	max.	unit					
		10 kg	to	11 t			$3.2 \cdot 10^{-5}$	Loading using a class M1 reference weight (according to OIML R111-1:2004)		
		200 kg	to	3 t			$6 \cdot 10^{-4}$	Loading using a class M1 reference weight (according to OIML R111-1:2004) with the use of substitute load		
		3 t	to	15 t			$9 \cdot 10^{-4}$			
		15 t	to	30 t			$8 \cdot 10^{-4}$			
2	Conventional mass of weights and bodies							Comparison with a reference weight (according to OIML R111-1:2004) using reference scales and comparators	KP-06	
		1 mg	to	20 mg			0.007 mg			
		20 mg	to	500 mg			0.016 mg			
				1 g			0.020 mg			
				2 g			0.021 mg			
				5 g			0.025 mg			
				10 g			0.05 mg			
				20 g			0.05 mg			
				50 g			0.06 mg			
				100 g			0.2 mg			
				200 g			0.2 mg			
				500 g			0.4 mg			
				1 kg			2 mg			
				2 kg			2 mg			
				5 kg			15 mg			
				10 kg			20 mg			

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Ord. number <sup>1</sup>	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Loca- tion
		min.	unit	max.	unit					
				20 kg			30 mg			
				50 kg			50 mg			
				60 kg			80 mg			

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<sup>2</sup> 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.

<sup>3</sup> 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).

<sup>4</sup> 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: Rotational speed**

Ord. number 1	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Loca- tion
		min.	unit	max.	unit					
1 *	Speed / rpm gauges	10 min <sup>-1</sup>		to	1,000 min <sup>-1</sup>		2 min <sup>-1</sup>	Comparison with a reference rpm gauge	KP-02	
		1,000 min <sup>-1</sup>		to	10,000 min <sup>-1</sup>		3 min <sup>-1</sup>			
		10,000 min <sup>-1</sup>		to	50,000 min <sup>-1</sup>		0.012 % + 2 min <sup>-1</sup>			

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**CMC for the field of measured quantity: Temperature**

Ord. num-ber <sup>1</sup>	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded mesurement uncertainty <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Location
		min. unit	max. unit					
1*	Glass thermometers	-40 °C	to 20 °C		0.15 °C	Comparison with a reference thermometer in a liquid bath	KP-03 part C	
		20 °C	to 150 °C		0.10 °C			
		150 °C	to 180 °C		0.12 °C			
	Indicating thermometers, temperature measuring chains	-196 °C			0.70 °C	Comparison with a reference thermometer in liquid nitrogen	KP-03 part A	
		-95 °C	to -40 °C		0.20 °C	Comparison with a reference thermometer in a dry block		
		-40 °C	to 20 °C		0.15 °C	Comparison with a reference thermometer in a liquid bath		
		20 °C	to 150 °C		0.10 °C			
		150 °C	to 180 °C		0.12 °C			
		180 °C	to 230 °C		0.25 °C	Comparison with a reference thermometer in a dry block		
		230 °C	to 415 °C		0.45 °C			
		415 °C	to 600 °C		1.5 °C			
	600 °C	to 800 °C		2.6 °C				
	Calibration of thermal equipment with temperature control	800 °C	to 1,100 °C		2.8 °C		KP-03 part B	
		-196 °C	to -70 °C		0.90 °C			
		-70 °C	to -40 °C		0.60 °C			
		-40 °C	to 150 °C		0.30 °C			
		150 °C	to 230 °C		0.45 °C			
		230 °C	to 415 °C		0.50 °C			

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Ord. num- ber <sup>1</sup>	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Location
		min. unit	max. unit					
		415 °C	to 600 °C		1.6 °C			
		600 °C	to 800 °C		2.6 °C			
		800 °C	to 1,100 °C		2.8 °C			
	Calibration of infrared non- contact thermometers	-30 °C	to 0 °C		2.8 °C	Comparison with a reference thermometer (black body)	KP-03-IR	
		0 °C	to 20 °C		1.6 °C			
		20 °C	to 80 °C		1.1 °C			
		80 °C	to 200 °C		1.5 °C			
		200 °C	to 350 °C		2.5 °C			
		350 °C	to 500 °C		3.7 °C			

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<sup>3</sup> 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).



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**CMC for the field of measured quantity: Air humidity**

Ord. number 1	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded mesurement uncertainty <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Loca- tion
		min.	unit	max.	unit					
1*	Relative humidity / hygrometers and humidity measuring chains	10 % RH	to	30 % RH	(13 to 33) °C	1.2 % RH	Comparison with a reference hygrometer	KP-04 part A		
		30 % RH	to	60 % RH	(13 to 33) °C	1.5 % RH				
		60 % RH	to	80 % RH	(13 to 33) °C	1.7 % RH				
		80 % RH	to	95 % RH	(13 to 33) °C	2.1 % RH				
	Relative humidity / measuring chains and characterisation of climatic chambers	10 % RH	to	30 % RH	(13 to 33) °C	1.5% RH	Comparison with a reference hygrometer	KP-04 part B		
		30 % RH	to	60 % RH	(13 to 33) °C	1.7% RH				
		60 % RH	to	80 % RH	(13 to 33) °C	1.8% RH				
		80 % RH	to	95 % RH	(13 to 33) °C	2.1% RH				

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**CMC for the field of measured quantity: Time and frequency quantities**

Ord. number 1	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty <sup>2</sup>	Calibration principle	Calibration procedure identification <sup>3</sup>	Loca- tion
		min.	unit	max.	unit					
1*	Time interval / stopwatches, timers and chronometers	1 s		to	86,400 s		0.15 s	Comparison with reference stopwatches, manual activation	KP-07	

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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."*