

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

KALIST AKL s.r.o.
CAB number 2394, KALIST AKL s.r.o., Calibration Laboratory
č.p. 8, 769 01 Třebětice

CMC for the field of measured quantity: Volume

Ord. number ¹	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ^{2,4}	Calibration principle	Calibration procedure identification ³	Work-place
		min. unit	max. unit					
1	Piston pipettes and other piston volume meters	0.5 µl 10,000 µl	to to	10,000 µl 100,000 µl	Distilled water 0.13 % + 0,01 µl 0.05 %	Gravimetric method (ČSN EN ISO 8655-6, EURAMET cg-19)	KP-05	

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 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 1	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the measurand	Lowest stated expanded measurement uncertainty ^{2,4}	Calibration principle	Calibration procedure identification 3	Work-place
		min.	unit	max.	unit					
1*	Balances with non-automatic function	1 mg	to	66 kg		By E2 weight	$9.3 \cdot 10^{-7}$	Loading using a reference weight	KP-01	
		66 kg	to	270 kg		By F2 weight	$9.3 \cdot 10^{-6}$			
		270 kg	to	11,000 kg		By M1 weight	$2.9 \cdot 10^{-5}$			
		1 t	to	5 t			1.4 kg	Loading using M1 reference weight and substitute load		
		5 t	to	10 t			2.9 kg			
		10 t	to	20 t			7.2 kg			
		20 t	to	30 t			17 kg			
2	Class F1, F2, M1, M2, M3 weights (according to OIML R111), reference weights, special weights and other bodies with constant mass	1 mg	to	50 mg			0.008 mg	Comparison with a reference weight	KP-06	
		50 mg	to	1 g			0.016 mg			
		1 g	to	5 g			0.025 mg			
		5 g	to	50 g			0.06 mg			
		50 g	to	200 g			0.2 mg			
		200 g	to	2 kg			2 mg			
		2 kg	to	10 kg			12 mg			
		10 kg	to	20 kg			25 mg			
		20 kg	to	50 kg			50 mg			
		50 kg	to	60 kg			100 mg			

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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).
- ⁴ 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: Mechanical motion

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	Work-place
		min.	unit	max.	unit					
1*	Speed / rpm gauges	10 min ⁻¹		to 10,000 min ⁻¹			2 min ⁻¹ 0.012 % + 1 min ⁻¹	Comparison of an rpm gauge in a calibrated device with a reference rpm gauge	KP-02	

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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	Work-place
		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, dataloggers	-196 °C			0.70 °C	Comparison with a reference thermometer in liquid nitrogen	KP-03 part A	
		-70 °C	to -40 °C		0.45 °C	Comparison with a reference thermometer in a climatic chamber		
		-40 °C	to 150 °C		0.40 °C			
		150 °C	to 180 °C		0.45 °C			
		-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			
		800 °C	to 1,100 °C		2.8 °C			

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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	Work-place
		min. unit	max. unit					
	Calibration of thermal equipment with temperature control	-196 °C	to -70 °C		0.90 °C	Comparison with a reference thermometer	KP-03 part B	
		-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			
		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			
	Temperature / Calibration of infrared non-contact thermometers	-30 °C	to 0 °C		2.2 °C	Comparison with a reference standard	KP-03-IR	
		0 °C	to 20 °C		1.5 °C			
		20 °C	to 80 °C		1.2 °C			
		80 °C	to 200 °C		1.6 °C			
		200 °C	to 350 °C		2.5 °C			
		350 °C	to 500 °C		3.0 °C			

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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 ²	Calibration principle	Calibration procedure identification ³	Work-place
		min. unit	max. unit	unit					
1*	Time interval / stopwatches, timers and chronometers	1 s	to 86,400 s		0.3 s	Comparison with reference stopwatches, manual activation	KP-07		

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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	Work-place
		min.	unit	max.	unit					
1*	Relative humidity / hygrometers and humidity measuring chains, humidity dataloggers	10 % RH	to	32.5 % RH	(10 to 90) °C	1.2 % RH	Comparison with a reference hygrometer	KP-04 part A		
		32.5 % RH	to	65 % RH	(10 to 90) °C	1.2 % RH				
		65 % RH	to	80 % RH	(10 to 90) °C	1.5 % RH				
		80 % RH	to	95 % RH	(10 to 90) °C	1.9 % RH				
2*	Relative humidity / measuring chains and characterisation of climatic chambers	10 % RH	to	65 % RH	(10 to 90) °C	1.5 % RH	Comparison with a reference hygrometer	KP-04 part B		
		65 % RH	to	80 % RH	(10 to 90) °C	1.7 % RH				
		80 % RH	to	95 % RH	(10 to 90) °C	1.9 % RH				

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