The Appendix is an integral part of Certificate of Accreditation No. 556/2022 of 21/11/2022

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

Technické služby ochrany ovzduší Ostrava spol. s r.o.

Calibration Laboratory Janáčkova 1020/7, Moravská Ostrava, 702 00 Ostrava

CMC for the field of measured quantity: Flow

1

Ord. num ber ¹	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the mass	Lowest expanded		Calibration	Workpl
		min	unit	max	unit	quantity	uncertainty specified ²	Calibration principle	identification 3	ace
1*	Volumetric gas flow / automated measuring systems	600 r	n ³ h ⁻¹	to 300.000	m ³ h ⁻¹	Gas flow velocity: 5 m·s ⁻¹ to 50 m·s ⁻¹	3.0 %	Calculated from the gas flow velocity determined by direct measurement with a Prandtl tube	SOP_10	

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. The uncertainty value given here is based on the best laboratory conditions achievable; the uncertainty value of a particular calibration may be higher depending on the conditions of that calibration. For identical limit 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).

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CMC for the field of measured quantity: Amount of substance

Ord.	Calibrated quantity /	Nominal range					Parameter(s) of the	Lowest expanded	Calibration principle	Calibration procedure	Workpl
ber ¹	Subject of calibration	min unit			max unit		meas. quantity	specified ²		identification ³	ace
1*	Amount-of-substance								Comparison with	SOP_22	
	concentration /						Gas phase		reference gas	(CSN EN ISO 9169, ČSN ISO 11005)	
	SO ₂ analyzers	0 um	ol/mol	to	18	mol/mol	Gas phase	0.12 umol/mol		CSN 150 11095)	
	SO_2 analyzers	0 μπα 18 μma	ol/mol	to	5 000 μ	mol/mol		0.12 μποι/ποι 0.66 %			
	NO analyzers	10 μπα	ol/mol	to	24 μ	mol/mol		0.00 %			
	NO analyzers	24 μm	ol/mol	to	2 τ μ 3 000 μ	mol/mol		0.12 µmor/mor			
	CO analyzers	24 μm 0 μm	ol/mol	to	3,000 μ 17 μ	mol/mol		0.5 %			
	CO analyzers	17 μm	ol/mol	to	10 000 u	mol/mol		$0.66 \mu mol/mol$			
	C_2H_0 analyzers	0 μm	ol/mol	to	10,000 μ 36 μ	mol/mol		0.11 µmol/mol			
	$C_{2}H_{0}$ analyzers	36 µm	ol/mol	to	5 000 µ	mol/mol		0.3 %			
	CH ₄ analyzers	0 umo	ol/mol	to	с,000 д 36 ц	mol/mol		0.11 umol/mol			
	CH ₄ analyzers	36 µm	ol/mol	to	40.000 u	mol/mol		0.3 %			
	NH ₃ analyzers	0 umo	ol/mol	to	4 u	mol/mol		0.12 umol/mol			
	NH ₃ analyzers	4 umo	ol/mol	to	2.000 u	mol/mol		3.0 %			
	NO ₂ analyzers	0 umo	ol/mol	to	2 u	mol/mol		0.12 umol/mol			
	NO_2 analyzers	2 um	ol/mol	to	2.000 u	mol/mol		6.0 %			
	N ₂ O analyzers	0 umo	ol/mol	to	, би	mol/mol		0.12 umol/mol			
	N_2O analyzers	6 µmo	ol/mol	to	2,000 µ	mol/mol		2.0 %			
	CO_2 analyzers	•						0.00001			
		0 mol	/mol	to	0.004 n	nol/mol		mol/mol			
	CO ₂ analyzers	0.004 mol	/mol	to	0.5 n	nol/mol		0.3 %			
	O ₂ analyzers							0.00001			
		0 mol	/mol	to	0.003 n	nol/mol		mol/mol			
	O ₂ analyzers	0.004 mol	/mol	to	0.25 n	nol/mol		0.42 %			

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Ord. num ber ¹	Calibrated quantity /		No	minal r	ange		Parameter(s) of the meas. quantity	Lowest expanded	Calibration principle	Calibration procedure identification ³	e Workpl ace
	Subject of calibration	min	unit		max	unit		specified ²			
2*	Degree of conversion /								Direct measurement by	SOP_23	
	NO ₂ -NO converters (up to								standard reference	(ČSN EN 14792)	
	500 µmol/mol)	0 %		to	100 %		Gas phase	0.4 % abs.	method		
3*	Amount-of-substance								Direct measurement by	SOP_24	
	concentration of tracer gas								standard reference	(ČSN EN 13725,	
	C ₃ H ₈ / olfactometers	1 µm	ol/mol	to 1	00,000 µm	ol/mol	Gas phase	0.5 %	method	chap. 6, 7, Annex B)	

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. The uncertainty value given here is based on the best laboratory conditions achievable; the uncertainty value of a particular calibration may be higher depending on the conditions of that calibration. For identical limit 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).