

**The Appendix is an integral part of
Certificate of Accreditation No. 417/2016 of 14/07/2016**

Accredited entity according to ČSN EN ISO/IEC 17025:2005:

ENVILA s.r.o.
Calibration Laboratory
U Rybníčku 256, 533 52 Srch

The Laboratory is qualified to update standards identifying the calibration procedures.

Field of measured quantity: gas concentration

Calibration: Nominal calibration temperature: (+5 to +40) °C

Ordinal number ¹⁾	Measured quantity	Measured quantity range	Calibration and Measurement Capability [±] ²⁾	Method identification
1*	Concentration of gaseous components			SOP K01 (ČSN EN 12619, App. A)
1.1*	CO	0 ÷ 5000 µmol/mol	0.028 % span	
1.2*	NO	0 ÷ 5000 µmol/mol	0.50 % span	
1.3*	SO ₂	0 ÷ 3000 µmol/mol	0.32 % span	
1.4*	C ₃ H ₈	0 ÷ 3000 µmol/mol	0.42 % span	
1.5*	O ₂	0 ÷ 0.24 mol/mol	0.30 % span	
1.6*	CO ₂	0 ÷ 0.26 mol/mol	0.58 % span	
1.7*	CH ₄	0 ÷ 0.50 mol/mol	0.42 % span	
1.8*	NO ₂	0 ÷ 1000 µmol/mol	1.00 % span	
2*	Convertor efficiency NO ₂ → NO	0 ÷ 1000 µmol/mol 1 ÷ 100 %	2.80 % span	SOP K01 (ČSN EN 12619, App. A), SOP K03 (ČSN EN 14792, App. B)

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

²⁾ Expressed like uncertainty in accordance with the requirements of the document EA 4/02 at k = 2.

Measured instruments or devices:

(In accordance with the above list of measured quantities and the ranges of measurement the following types of instruments or devices can be measured.)

Ordinal number	Measured instrument/device type
1.	Analyzers of CO, CO ₂ , NO, NO _x , SO ₂ , TOC (expressed as C ₃ H ₈ a CH ₄) a O ₂ are based on a principle of gas chromatography, FID detection, PID detection, IR and UV spectrometry, chemiluminescence, magnetic susceptibility and various chemical and electrochemical methods.
2.	NO ₂ – NO Convertors

Explanations:

MV – Measured Value

- SOP - Standard Operating Procedure (Internal Calibration Procedure)
- TOC - Total Organic Carbon
- FID - Flame Ionization Detection
- PID - Photoionization Detection
- IR - Infra-red

