

**The Appendix is an integral part of
Certificate of Accreditation No: 34/2025 of 27/01/2025**

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

ekoDEM Pardubice s.r.o.
CAB number 1794, Air Protection Measurement Laboratory
K Třešňovce 247, 533 75 Dolní Ředice

Detailed information on activities within the scope of accreditation (determined analytes) is given in the section „Specification of the scope of accreditation“

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1	Emission			
1.1*	Determination of velocity and volume flow rate	SOP-E-101 (ČSN ISO 10780; ČSN EN 15259; ČSN EN ISO 16911-1)	Emissions	-
1.2*	Determination of gas water content (condensation, adsorption method, capacitance detector)	SOP-E-102 (ČSN EN 14790)	Emissions	-
1.3*	Determination of volume concentration of oxygen (O ₂) by automatic analyzers (paramagnetic method)	SOP-E-103, part A (ČSN EN 14789)	Emissions	-
1.4*	Determination of volume concentration of oxygen (O ₂) by automatic analyzers (electrochemical cell method)	SOP-E-103, part B (ISO 12039:2019)	Emissions	-
1.5*	Determination of mass concentration of gaseous pollutants (CO, NO, NO ₂ , N ₂ O, NO _x , SO ₂ , CH ₄) and determination of volume concentration of CO ₂ by automatic analyzers (NDIR)	SOP-E-104, part A (ČSN EN 15058; ČSN ISO 7935; ČSN ISO 10849; ČSN P CEN/TS 17405; ČSN EN ISO 21258; MRU MGAPrime manual)	Emissions	-
1.6*	Determination of mass concentration of gaseous pollutants (NO _x) by automatic analyzers (chemiluminescence)	SOP-E-104, part B (ČSN EN 14792)	Emissions	-
1.7*	Determination of total mass concentration of organic compounds expressed as total organic carbon (TOC) and mass concentration of methane (CH ₄) by automatic analyzers (FID)	SOP-E-105 (ČSN EN 12619; ČSN EN ISO 25140)	Emissions	-
1.8	Determination of mass concentration of volatile organic compounds (VOC), carbonyl compounds and amines by calculation from measured values ⁴	SOP-E-106 (ČSN P CEN/TS 13649; ČSN EN ISO 16017-1; EPA Method TO-11A)	Emissions	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1.9	Determination of mass concentration of solid pollutants (by gravimetry)	SOP-E-107 (ČSN EN 13284-1; ČSN EN 15259)	Emission	-
1.10	Determination of mass concentration of metals by calculation from measured values ⁴	SOP-E-108 (ČSN EN 14385; ČSN EN 13211; EPA Method 29; ČSN EN 13284-1; ČSN EN 15259)	Emissions	-
1.11	Determination of mass concentration of gases and vapours by calculation from measured values ⁴	SOP-E-109 (ČSN EN 1911; ČSN P CEN/TS 17340; ČSN 83 4712-1; ČSN EN ISO 21877; ČSN EN 14791)	Emissions	-
1.12	Determination of mass concentration of persistent organic pollutants POPs (PCDD, PCDF, PCB, PAH) by calculation from measured values ⁴	SOP-E-111 (ČSN EN 1948-3; ČSN EN 1948-4+A1; ISO 11338-1:2003; ČSN ISO 13284-1; ČSN EN 15259)	Emissions	-
1.13	Determination of mass concentration of gaseous pollutants (CO, NO, NO ₂ , N ₂ O, NO _x , SO ₂ , CH ₄) and determination of volume concentration of CO ₂ by automatic analyzers (FTIR)	SOP-E-112 (CEN/TS 17337; ČSN P CEN/TS 17337; GASMET DX4000 FTIR manual)	Emissions	-
1.14*	Quality assessment of automated measuring systems	SOP-E-113 (ČSN EN 14181, cl. 6.3 – 6.8 QAL2, cl. 8 AST)	Automated emission measuring systems	-
2	Workplace air			
2.1	Determination of mass concentration of dust and aerosol (by gravimetry)	SOP-P-201 (Gov. Reg. No. 361/2007 Coll.)	Workplace air	-
2.2	Determination of the mass concentration of gases and vapours by calculation from measured values ⁴	SOP-P-202 (Gov. Reg. No. 361/2007 Coll.; ČSN EN ISO 16017-1; ČSN EN 689+AC)	Workplace air	-
2.3	Determination of numerical concentration of mineral and asbestos fibres by calculation from measured values ⁴	SOP-P-202 (Gov. Reg. No. 361/2007 Coll.; ČSN EN 689+AC)	Workplace air	-

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- ¹ asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises
- ² if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)
- ³ the laboratory does not apply a flexible approach to the scope of accreditation
- ⁴ laboratory determination of the analytes in the sample is carried out by an external test provider within the scope of its accreditation

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
1.10	Sb, As, Sn, Cr, Co, Cd, Cu, Mn, Ni, Pb, Tl, V, Zn, Al, Ag, Fe, Ba, Hg, Be, Te, Se
1.11	HCl, HF, NH ₃ , H ₂ S, SO ₂ , inorganic acids

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification ¹	Subject of sampling
1	Sampling of solid pollutants (isokinetic sampling with manual and automatic control)	SOP-EVZ-01 (ČSN EN 13284-1; ČSN EN 15259)	Emissions
2	Sampling for the determination of metals (Sb, As, Sn, Cr, Co, Cd, Cu, Mn, Ni, Pb, Tl, V, Zn, Al, Ag, Fe, Ba, Hg, Be, Te, Se) (isokinetic sampling with manual and automatic control)	SOP-EVZ-02 (ČSN EN 14385; ČSN EN 13211; EPA Method 29; ČSN EN 13284-1; ČSN EN 15259)	Emissions
3	Sampling for determination of volatile organic compounds (VOC), carbonyl compounds and amines by capture on a solid sorbent	SOP-EVZ-03 (ČSN P CEN/TS 13649; ČSN EN ISO 16017-1; EPA Method TO-11A)	Emissions
4	Sampling of gases and vapours for determination of HCl, HF, NH ₃ , H ₂ S, SO ₂ , inorganic acids by absorption into a liquid	SOP-EVZ-04 (ČSN EN 1911; ČSN P CEN/TS 17340; ČSN 83 4712-2; ČSN EN ISO 21877; ČSN EN 14791)	Emissions
5	Sampling for determination of volatile organic compounds (VOC), carbonyl compounds and amines on a solid sorbent (filter, PUF, sorption tube)	SOP-PVZ-05 (Gov. Reg. No. 361/2007 Coll.; ČSN EN ISO 16017-1; ČSN EN 689+AC)	Workplace air

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Ordinal number	Sampling procedure name	Sampling procedure identification ¹	Subject of sampling
6	Sampling for determination HCl, HF, NH ₃ , H ₂ S, inorganic acids into a liquid (sorption solution)	SOP-PVZ-06 (Gov. Reg. No. 361/2007 Coll.)	Workplace air
7	Sampling for determination of persistent organic pollutants POPs (PCDD, PCDF, PCB and PAH) by the filter-condensation method (isokinetic sampling with manual and automatic control)	SOP-EVZ-07 (ČSN EN 1948-1; ČSN EN 1948-4+A1; ISO 11338-1:2003; ČSN ISO 13284-1; ČSN EN 15259)	Emissions

¹ if the document identifying the sampling procedure is dated, only these specific procedures are used. If the document identifying the sampling procedure is not dated, the latest edition of the specified procedure is used (including any changes)

Explanatory notes:

Emission	waste gas containing pollutants released in a controlled manner or leaking into atmosphere from air pollution sources
FTIR	Fourier-transform infrared spectroscopy
FID	flame-ionization detector
NDIR	nondispersive infrared sensor
PCB	polychlorinated biphenyls
PAH	polycyclic aromatic hydrocarbons
PCDF	polychlorinated dibenzofurans
PCDD	polychlorinated dibenzodioxins

"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."