SLOVENSKI STANDARD
kSIST-TP FprCEN/TR 17911:2022

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Emisije nepremičnih virov - Smernica za pripravo standardiziranih merilnih metod - Priporočila za strukturo in vsebino

Stationary source emissions - Guideline for the elaboration of standardized measurement methods - Recommendations for the structure and content

Emissionen aus stationären Quellen - Leitfaden zur Erarbeitung von standardisierten Messverfahren - Empfehlungen für die Struktur und den Inhalt

Émissions de sources fixes - Cadre directeur pour l'élaboration de méthodes de mesurage normalisées - Recommandations pour la structure et le contenu

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ICS:

13.040.40	Emisije nepremičnih virov	Stationary source emissions

kSIST-TP FprCEN/TR 17911:2022 **en,fr,de**

TECHNICAL REPORT

RAPPORT TECHNIQUE

TECHNISCHER REPORT

FINAL DRAFT
FprCEN/TR 17911

October 2022

ICS 13.040.40

English Version

Stationary source emissions - Guideline for the elaboration of standardized measurement methods - Recommendations for the structure and content

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This draft Technical Report is submitted to CEN members for Vote. It has been drawn up by the Technical Committee CEN/TC 264.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (FprCEN/TR 17911:2022) has been prepared by Technical Committee CEN/TC 264 “Air Quality”, the secretariat of which is held by DIN.

This document is currently submitted to the Vote on TR.

Introduction

This document has been prepared by WG 46 “Task Force Emissions” of the Technical Committee CEN/TC 264 “Air quality”, the secretariat of which is held by DIN.

This document is intended to assist working groups of CEN/TC 264 when drafting new or revising existing documents on measurement methods for the determination of stationary source emissions. A document describing a standardized measurement method can be a

— European standard (EN);

— European Technical Specification (CEN/TS);

— European Technical Report (CEN/TR).

This document is designed to ensure that these documents are

— consistent regarding structure, definitions and general aspects;

— in accordance and properly linked with other relevant documents such as EN 15259;

— appropriate technical references giving no rise to significant misunderstandings and/or significant differences of interpretation by testing laboratories and/or technical auditors.

It is considered that such significant differences, misunderstandings and/or inconsistencies would, on the one hand, impair the quality and comparability of data produced according to European emission measurement methods and, on the other hand, result in unfair competition among European laboratories in the field of emission measurements.

This document is applicable to manual and automated measurement methods.

This document is supplemented by an electronic template providing a uniform structure and common elements and texts. The uniform structure is based on the requirements and recommendations specified in the CEN-CENELEC Internal Regulations Part 3.

This document can be applicable to other air quality fields.

1 Scope

This document supports the elaboration of standardized measurement methods for the determination of stationary source emissions by manual or automated measurement methods.

This document describes the basic elements of standardized measurement methods for the determination of stationary source emissions.

This document is supplemented by an electronic template providing a uniform structure and common elements and texts.

NOTE Detailed information on the electronic template is given in Annex A.

This document is addressed to working groups of CEN/TC 264 dealing with stationary source emissions. It aims at facilitating in the working groups the elaboration and the harmonization of documents produced by CEN/TC 264. Such documents can be European standards (EN), European Technical Specifications (CEN/TS) or European Technical Reports (CEN/TR).

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at https://www.electropedia.org/

3.1
standard reference method
SRM
reference method prescribed by European or national legislation

[SOURCE: EN 15259:2007, 3.9, modified – Note 1 to entry removed]

3.2
reference method
RM
measurement method taken as a reference by convention, which gives the accepted reference value of the measurand

Note 1 to entry: A reference method is fully described.

Note 2 to entry: A reference method can be a manual or an automated method.

Note 3 to entry: Alternative methods can be used if equivalence to the reference method has been demonstrated.

[SOURCE: EN 15259:2007, 3.8]

3.3
measurement method
method described in a written procedure containing all the means and procedures required to sample and analyse, namely field of application, principle and/or reactions, definitions, equipment, procedures, presentation of results, other requirements and measurement report

[SOURCE: EN 14793:2017, 3.4]

3.4
alternative method
AM
measurement method which complies with the criteria given by EN 14793:2017 with respect to the reference method

Note 1 to entry: An alternative method can consist of a simplification of the reference method.

[SOURCE: EN 14793:2017, 3.3]

3.5
demonstration of equivalence
act of subjecting a measurement method to a study, which is based on a standardised and/or recognised protocol and which provides proof that, for its field of application, the measurement method satisfies pre-established performance criteria

Note 1 to entry: In the framework of EN 14793:2017, the demonstration of equivalence of a measurement method is mainly based on an "in field" study that includes comparison to a reference method.

[SOURCE: EN 14793:2017, 3.7]

4 Symbols and abbreviations

4.1 Symbols

This document does not include symbols.

4.2 Abbreviations

AM	alternative method
AMS	automated measuring system
P-AMS	portable automated measuring system
QA/QC	quality assurance and quality control
RM	reference method
SRM	*s*tandard reference method

5 Overview

This document applies to the elaboration of new or the revision of existing documents on emission measurement methods. It provides a uniform structure and common elements for such documents. The uniform structure is based on the requirements and recommendations specified in the CEN-CENELEC Internal Regulations Part 3. The use of a uniform structure and common elements is intended to ensure uniform application of emission measurement methods. Elements can be added, modified or removed as needed for the specific emission measurement method.

Table 1 shows the sequence of elements of standardized measurement methods for the determination of stationary source emissions and their respective content. It indicates the elements applicable to manual or automated measurement methods as well as the reference to the description in this document and the associated clause number in the electronic template.

Table 1 — Elements of standardized measurement methods for the determination of stationary source emissions and their respective content, relevance for manual (M) or automated (A) measurement methods, reference to the description in this document and associated clause number in the electronic template

Ref.	Clause number	Element	Content	M	A
6.2		Title	clear and concise description of the subject matter covered by the document	×	×
6.3		Foreword	revision statement including any amendments and technical corrigenda and a list of changes with respect to previous edition, in case of a revision of the document	×	×
6.4		Introduction	background information and general information on the type and content of the document	×	×
6.5	1	Scope	measured component	×	×
			measurand (measured quantity)	×	×
			principle of method	×	×
			type of method (manual or automated)	×	×
			field of application	×	×
			measurement range	×	×
			validation range	×	×
			exclusions	×	×
6.6	2	Normative references	list of all normatively referenced documents	×	×
6.7	3	Terms and definitions	list of all relevant terms used in the document	×	×
6.8	4	Symbols and abbreviations	list of all symbols and abbreviations used in the document	×	×
6.9	5	Principle	general information on the measurement method and the content of the document	×	×
			description of the measuring principle of the measurement method	×	×

Ref.	Clause number	Element	Content	M	A
6.10	6	Description of the measuring system	equipment	×	×
			materials	×	×
			reagents	×	×
6.11	7	Performance characteristics	performance characteristics and performance criteria	×	×
			performance test of the P-AMS for automated measurement methods according to EN 15267-4		×
			calculation of measurement uncertainty	×	×
6.12	8	Planning	measurement planning	×	×
			sampling strategy	×	×
			sampling and analysis	×	×
			choice of the measuring system	×	×
6.13	9	Field operation	preparations	×	×
			sampling	×	×
			continuous data recording		×
			QA/QC procedures	×	×
			handling, storage and transportation of samples for the analytical determination	×	
6.14	10	Analytical procedure	preparations	×	
			analysis	×	
			QA/QC procedures	×	
			presentation of the analytical result including uncertainty and level of confidence	×	
6.15	11	Ongoing quality control	QA/QC procedures	×	×
			frequency of checks	×	×
6.16	12	Calculations and expression of results	calculations and expression of the results of measurement including measurement uncertainty and level of confidence	×	×
			conversion to oxygen reference conditions	×	×
			assessment and reporting of results of measurement	×	×