

Stationary source emissions - Data acquisition and handling systems - Part 4: Specification of requirements for the installation and on-going quality assurance and quality control of data acquisition and handling systems

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 17255-4:2023 sisaldab Euroopa standardi EN 17255-4:2023 ingliskeelset teksti.	This Estonian standard EVS-EN 17255-4:2023 consists of the English text of the European standard EN 17255-4:2023.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
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English Version

Stationary source emissions - Data acquisition and handling systems - Part 4: Specification of requirements for the installation and on-going quality assurance and quality control of data acquisition and handling systems

Émissions de sources fixes - Systèmes d'acquisition et de traitement de données - Partie 4: Spécification des exigences relatives à l'installation ainsi qu'à l'assurance qualité et au contrôle qualité en continu

Emissionen aus stationären Quellen - Datenerfassungs- und Auswerteeinrichtungen - Teil 4: Festlegung von Anforderungen an den Einbau sowie die laufende Qualitätssicherung und Qualitätslenkung von Datenerfassungs- und Auswerteeinrichtungen

This European Standard was approved by CEN on 10 March 2023.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (EN 17255-4:2023) has been prepared by Technical Committee CEN/TC 264 “Air Quality”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2023 and conflicting national standards shall be withdrawn at the latest by October 2023.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document is Part 4 of the EN 17255 series.

The EN 17255 series, published under the general title “Stationary source emissions — Data acquisition and handling systems”, specifies:

- requirements for the handling and reporting of data;
- requirements on data acquisition and handling systems;
- requirements for the performance test of data acquisition and handling systems;
- requirements for the installation and on-going quality assurance and quality control of data acquisition and handling systems.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Introduction

This document forms part of a series of standards which, between them, govern the process for the quality assurance of data received by a data acquisition and handling system (DAHS) from automated measuring systems (AMS), being used for monitoring emissions from stationary sources and quality assured to EN 14181 [4].

The input data can be either in analogue representation or in digital form directly from an AMS or via a digital bus system. Inputs can include the data from the AMS, peripheral data needed for calculation of reportable data and information on plant conditions needed to apply data selection criteria.

The data acquisition and handling system (DAHS) receives the raw data, as they are measured, averaged and presented by the AMS, and converts, averages, stores and reports data as required by legislation.

This series of standards suggests that the process of data handling is best performed in a dedicated DAHS. It does not preclude the use of other options for all or part of the process provided that it can be shown that they meet all of the requirements of the standard, particularly in relation to speed, accuracy, access, security and validation.

This series of standards applies to DAHS installed after the date of implementation.

This document specifies the requirements for the installation and on-going QA/QC of DAHS and applies to plant operators and testing laboratories as described in Table 1.

Table 1 — Overview of responsibilities

Clause	Title	Responsibility
5.1	Installation requirements	Plant operator
5.2	Checking the correct installation	Testing laboratory
6	Quality assurance and quality control during QAL2 of the AMS	Testing laboratory
7	Quality assurance and quality control during on-going operation	Plant operator
8	Annual functional test	Testing laboratory
9	Documentation	Plant operator

1 Scope

This document specifies the requirements for the installation and on-going quality assurance and quality control of data acquisition and handling systems (DAHS). This includes requirements on:

- installation (Clause 5);
- quality assurance and quality control during QAL2 (Clause 6);
- quality assurance and quality control during on-going operation (Clause 7);
- annual functional test (Clause 8);
- documentation (Clause 9).

This document supports the requirements of EN 14181 and legislation such as the IED [1], MCPD [2] and E-PRTR [3]. It does not preclude the use of additional features and functions provided the minimum requirements of this document are met and that these features do not adversely affect data quality, clarity or access.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 15267-3, *Air quality - Certification of automated measuring systems - Part 3: Performance criteria and test procedures for automated measuring systems for monitoring emissions from stationary sources*

EN 17255-1, *Stationary source emissions - Data acquisition and handling systems - Part 1: Specification of requirements for the handling and reporting of data*

EN 17255-2, *Stationary source emissions - Data acquisition and handling systems - Part 2: Specification of requirements on data acquisition and handling systems*

EN 17255-3, *Stationary source emissions - Data acquisition and handling systems - Part 3: Specification of requirements for the performance test of data acquisition and handling systems*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 17255-1, EN 17255-2, and EN 17255-3, and the following apply.

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

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

3.1 testing laboratory

laboratory performing the check of the correct installation or the annual functional test of the DAHS