



NSAI
Standards

Irish Standard
I.S. EN 15267-1:2009

Air quality - Certification of automated measuring systems - Part 1: General principles

I.S. EN 15267-1:2009

Incorporating amendments/corrigenda issued since publication:

<i>This document replaces:</i>	<i>This document is based on:</i> EN 15267-1:2009	<i>Published:</i> 18 March, 2009	
This document was published under the authority of the NSAI and comes into effect on: 15 May, 2009		ICS number: 13.040.99	
NSAI 1 Swift Square, Northwood, Santry Dublin 9	T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W NSAI.ie	Sales: T +353 1 857 6730 F +353 1 857 6729 W standards.ie	Price Code: G
Údarás um Chaighdeáin Náisiúnta na hÉireann			

ICS 13.040.99

English Version

Air quality - Certification of automated measuring systems - Part 1: General principles

Qualité de l'air - Certification des systèmes de mesurage
automatisés - Partie 1 : Principes généraux

Luftbeschaffenheit - Zertifizierung von automatischen
Messeinrichtungen - Teil 1: Grundlagen

This European Standard was approved by CEN on 14 February 2009.

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Foreword

This document (EN 15267-1:2009) 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of an identical text or by endorsement, at the latest by September 2009, and conflicting national standards shall be withdrawn at the latest by September 2009.

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

This document is Part 1 of a series of European Standards:

EN 15267-1, *Air quality — Certification of automated measuring systems — Part 1: General principles*

EN 15267-2, *Air quality — Certification of automated measuring systems — Part 2: Initial assessment of the AMS manufacturer's quality management system and post certification surveillance for the manufacturing process*

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*

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

The certification of automated measuring systems (AMS) supports the requirements of certain Directives of the European Union (EU), which require, either directly or indirectly, that AMS comply with performance criteria, maximum permissible measurement uncertainties and testing requirements. These Directives include the Directive on the limitation of emissions of certain pollutants into the air from large combustion plants [1], the Directive on the incineration of waste [2] and the Framework Directive on ambient air quality assessment and management [3] and the associated daughter directives [4], [5], [6] and [7].

The responsibility for approving AMS for monitoring ambient air quality under Directive 96/62/EC lies with the national competent authority or a body designated by the EU member state. No explicit requirement for approving AMS for monitoring emissions from stationary sources is defined in the relevant EU Directives, although the competent authorities in some EU member states have such arrangements in place.

In some EU member states the competent authority delegates the responsibility for approval of AMS to a certification body accredited to EN 45011 by national accreditation bodies. In some EU member states the competent authority cannot be accredited by external bodies, in others they may be. These approaches have built up over many years and reflect the different administrative and legal arrangements that exist in the EU member states. In order to recognize these different approaches, this European Standard uses the collective term “relevant body” when referring to competent authority or certification body. The terms “competent authority” and “certification body” are only used where it is necessary to be specific for the purpose of clarity in the way in which a requirement applies under the different approaches.

The European Standard EN 45011 specifies general criteria that a certification body operating product certification shall follow if it is to be recognized at a national or European level as competent and reliable in the operation of a product certification system, irrespective of the sector involved. It is intended for the use of accreditation bodies concerned with recognizing the competence of certification bodies. EN 45011 is identical to ISO/IEC Guide 65. The document EA-6/01 [8] published by the International Accreditation Forum (IAF) provides guidelines on the application of EN 45011. The purpose of EA-6/01 is to harmonise the worldwide application of EN 45011 by accreditation bodies as an important step towards mutual recognition between certification bodies under the IAF Multilateral Agreement (MLA).

EN 45011 recognizes that these general criteria may have to be supplemented when applied to a particular sector. This European Standard provides guidance on the application of EN 45011 to the certification of AMS for monitoring ambient air quality and emissions from stationary sources. It is Part 1 of a three part series of European Standards, which specify common requirements for the certification of AMS in EU member states.

This European Standard defines common procedures and requirements for the certification of AMS to facilitate mutual recognition by the relevant bodies and thereby minimise administrative and cost burdens on AMS manufacturers seeking certification in multiple member states. It also describes the roles and responsibilities of manufacturers, test laboratories, certification bodies (for quality management systems) and relevant bodies under these procedures.

1 Scope

This European Standard specifies the general principles, including common procedures and requirements, for the product certification of automated measuring systems (AMS) for monitoring ambient air quality and emissions from stationary sources. This product certification consists of the following sequential stages:

- a) performance testing of an automated measuring system;
- b) initial assessment of the AMS manufacturer's quality management system;
- c) certification;
- d) surveillance.

This European Standard applies to the certification of all AMS for monitoring ambient air quality and emissions from stationary sources for which performance criteria and test procedures are available in European Standards.

2 Normative references

The following referenced documents are indispensable for the application 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 14211, *Ambient air quality — Standard method for the measurement of the concentration of nitrogen dioxide and nitrogen monoxide by chemiluminescence*

EN 14212, *Ambient air quality — Standard method for the measurement of the concentration of sulphur dioxide by ultraviolet fluorescence*

EN 14625, *Ambient air quality — Standard method for the measurement of the concentration of ozone by ultraviolet photometry*

EN 14626, *Ambient air quality — Standard method for the measurement of the concentration of carbon monoxide by nondispersive infrared spectroscopy*

EN 14662-3, *Ambient air quality — Standard method for measurement of benzene concentrations — Part 3: Automated pumped sampling with in situ gas chromatography*

EN 15267-2, *Air quality — Certification of automated measuring systems — Part 2: Initial assessment of the AMS manufacturer's quality management system and post certification surveillance for the manufacturing process*

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 45011, *General requirements for bodies operating product certification systems (ISO/IEC Guide 65:1996)*

EN ISO 9001, *Quality management systems — Requirements (ISO 9001:2000)*

EN ISO/IEC 17021, *Conformity assessment — Requirements for bodies providing audit and certification of management systems (ISO/IEC 17021:2006)*

EN ISO/IEC 17025, *General requirements for the competence of testing and calibration laboratories (ISO/IEC 17025:2005)*

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