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Stationary source emissions — Greenhouse gases —

Part 2: Ongoing quality control of automated measuring systems

Émissions de sources fixes — Gaz à effet de serre —

Partie 2: Contrôle qualité continu des systèmes de mesurage automatiques

Reference number
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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 146, *Air quality*, Subcommittee SC 1, *Stationary source emissions*.

ISO 14385 consists of the following parts, under the general title *Stationary source emissions — Greenhouse gases*:

— *Part 1: Calibration of automated measuring systems*

— *Part 2: Ongoing quality control of automated measuring systems*

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Introduction

The measurement of greenhouse gas emissions (carbon dioxide, nitrous oxide, methane) in a framework of emission trading requires an equal and known quality of data.

This part of ISO 14385 describes the quality assurance procedures for calibration and ongoing quality control needed to ensure that automated measuring systems (AMS) installed to measure emissions of greenhouse gases to air are capable of meeting the uncertainty requirements on measured values specified by legislation, competent authorities, or in an emission trade scheme.

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Stationary source emissions — Greenhouse gases —

Part 2:
Ongoing quality control of automated measuring systems

1 Scope

This part of ISO 14385 specifies procedures for establishing quality assurance for automated measuring systems (AMS) installed on industrial plants for the determination of the concentration of greenhouse gases in flue and waste gas and other flue gas parameters.

This part of ISO 14385 specifies the following:

— a procedure to maintain and demonstrate the required quality of the measurement results during the normal operation of an AMS, by checking that the zero and span characteristics are consistent with those determined using the relevant procedure in ISO 14956;

— a procedure for the annual surveillance tests (AST) of the AMS in order to evaluate a) that it functions correctly and its performance remains valid and b) that its calibration function and variability remain as previously determined.

This part of ISO 14385 is designed to be used after the AMS has been accepted according to the procedures specified in ISO 14956.

This part of ISO 14385 is restricted to quality assurance (QA) of the AMS and does not include QA of the data collection and recording system of the plant.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 14385-1, *Stationary source emissions — Greenhouse gases — Part 1: Calibration of automated measuring systems*

ISO 14956, *Air quality — Evaluation of the suitability of a measurement procedure by comparison with a required measurement uncertainty*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 14385-1 and the following apply.

3.1
control chart
graphical presentation of the regular recording of the difference of the reading of an instrument or measuring system, when measuring the pollutant concentration in a gas with known concentration, and the nominal value of the pollutant concentration in that gas

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