



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 14884:2006

ICS 13.040.40

**AIR QUALITY - STATIONARY SOURCE
EMISSIONS - DETERMINATION OF TOTAL
MERCURY: AUTOMATED MEASURING
SYSTEMS**

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English Version

Air quality - Stationary source emissions - Determination of total mercury: automated measuring systems

Qualité de l'air - Emissions de sources fixes -
Détermination de la concentration en mercure totale:
systèmes automatiques de mesure

Luftbeschaffenheit - Emissionen aus stationären Quellen -
Bestimmung der Gesamtquecksilber-Konzentration:
Automatische Messeinrichtungen

This European Standard was approved by CEN on 28 November 2005.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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 Central Secretariat has the same status as the official versions.

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Foreword

This European Standard (EN 14884:2005) 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of an identical text or by endorsement, at the latest by June 2006, and conflicting national standards shall be withdrawn at the latest by June 2006.

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

EN 14884:2005 (E)

Introduction

This European Standard describes the quality assurance procedures related to Automated Measuring Systems (AMS) for the determination of total mercury in flue gas, in order to meet the uncertainty requirements on measured values given by regulations, national or other legislation.

This European Standard is only applicable in conjunction with the general document on quality assurance of AMS described in EN 14181, and provides indications, which are specific to measurements of total mercury.

The calibration and validation of mercury AMS are performed by parallel measurements with the reference manual method described in EN 13211.

The calibration and validation of mercury AMS are performed by parallel measurements with the reference manual method described in EN 13211. The species of mercury (Hg^0 and Hg^{2+}) and the physical occurrence (gaseous, in dust or in droplets) can vary significantly depending on the type of process to be monitored.

A total mercury AMS or a gaseous mercury AMS can be chosen. Whether or not a gaseous mercury AMS can fulfil the requirements for total mercury depends on the process and sampling location.

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