

**Electrical apparatus for the detection of carbon
monoxide in domestic premises - Part 1: Test methods
and performance requirements**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 50291-1:2010 sisaldab Euroopa standardi EN 50291-1:2010 ingliskeelset teksti.

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**Electrical apparatus for the detection of carbon monoxide
in domestic premises -
Part 1: Test methods and performance requirements**

Appareils électriques pour la détection
de monoxyde de carbone dans les locaux
à usage domestique -
Partie 1: Méthodes d'essais
et prescriptions de performances

Elektrische Geräte für die Detektion
von Kohlenmonoxid in Wohnhäusern -
Teil 1: Prüfverfahren und Anforderungen
an das Betriebsverhalten

This European Standard was approved by CENELEC on 2010-04-15. CENELEC 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 CENELEC 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 CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

This European Standard, prepared by the Technical Committee CENELEC TC 216, Gas detectors, was submitted to the formal vote and was approved by CENELEC as EN 50291-1 on 2010-04-15.

This European Standard supersedes EN 50291:2001.

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

The following dates were fixed:

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| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2011-04-15 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2013-04-15 |

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1 Scope

This European Standard specifies general requirements for the construction, testing and performance of electrically operated carbon monoxide gas detection apparatus, designed for continuous operation in domestic premises. The apparatus may be mains or battery powered. Such apparatus is intended to warn of an accumulation of CO, enabling the occupant to react before being exposed to significant risk.

Additional requirements for apparatus to be used in recreational vehicles and similar premises are specified in EN 50291-2.

NOTE For caravan holiday homes EN 50291-1 applies.

This European Standard specifies two types of apparatus, these are

- type A – to provide a visual and audible alarm and an executive action in the form of an output signal that can be used to actuate directly or indirectly a ventilation or other ancillary device, and
- type B – to provide a visual and audible alarm only.

This European Standard excludes apparatus

- for the detection of combustible gases, other than carbon monoxide itself (see EN 50194-1),
- for the detection of CO in industrial installations (see EN 45544-1, EN 45544-2 and EN 45544-3) or commercial premises,
- for CO measurement for smoke and fire detection.

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 50270	2006	Electromagnetic compatibility – Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen
EN 50271	2001	Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen – Requirements and tests for apparatus using software and/or digital technologies
EN 50292	2001	Electrical apparatus for the detection of carbon monoxide in domestic premises – Guide on the selection, installation, use and maintenance
EN 60335-1	2002	Household and similar electrical appliances – Safety – Part 1: General requirements (IEC 60335-1:2001, modified)
EN 60529	1991	Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989)
EN 60704-1	1997	Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 1: General requirements (IEC 60407-1:1997)