

Irish Standard I.S. EN 50291-1:2010

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

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EUROPEAN STANDARD

EN 50291-1/A1

NORME EUROPÉENNE EUROPÄISCHE NORM

June 2012

ICS 13.320

English version

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 amendment A1 modifies the European Standard EN 50291-1:2010; it was approved by CENELEC on 2012-05-07. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

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EN 50291-1:2010/A1:2012

Foreword

This document (EN 50291-1:2010/A1:2012) has been prepared by Technical Committee CLC/TC 216 "Gas detectors".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement
- (dop) 2013-05-07

 latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2015-05-07

This amendment includes the following changes with respect to EN 50291-1:2010:

- detailed provisions for end-of-life indication;
- a change in the degree of protection for battery operated apparatus;
- additional provisions for battery capacity; and
- editorial changes.

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

EUROPEAN STANDARD

EN 50291-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2010

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Supersedes EN 50291:2001

English version

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

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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.

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CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

EN 50291-1:2010

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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 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)



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