



BSI Standards Publication

Electrical apparatus for the detection of carbon monoxide in domestic premises

Part 2: Electrical apparatus for continuous operation in a fixed installation in recreational vehicles and similar premises including recreational craft — Additional test methods and performance requirements

National foreword

This British Standard is the UK implementation of EN 50291-2:2019. It supersedes BS EN 50291-2:2010, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee EXL/31/1, Gas detectors.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Supersedes EN 50291-2:2010 and all of its amendments
and corrigenda (if any)

English Version

**Electrical apparatus for the detection of carbon monoxide in
domestic premises - Part 2: Electrical apparatus for continuous
operation in a fixed installation in recreational vehicles and
similar premises including recreational craft - Additional test
methods and performance requirements**

Appareils électriques pour la détection de monoxyde de carbone dans les locaux à usage domestique - Partie 2: Appareils électriques en fonctionnement continu et en installation fixe dans les véhicules de loisir et locaux similaires incluant les embarcations de loisir - Méthodes d'essai supplémentaires et exigences d'aptitude à la fonction

Elektrische Geräte für die Detektion von Kohlenmonoxid in Wohnhäusern - Teil 2: Ortsfeste elektrische Geräte zum kontinuierlichen Betrieb in Freizeitfahrzeugen und ähnlichen Umgebungen einschließlich Sportbooten - Ergänzende Prüfverfahren und Anforderungen an das Betriebsverhalten

This European Standard was approved by CENELEC on 2019-04-26. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

This document (EN 50291-2:2019) has been prepared by 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) 2020-04-26
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2022-04-26

This document supersedes EN 50291-2:2010 and all of its amendments and corrigenda (if any).

This Part 2 is to be used in conjunction with EN 50291-1:2018.

This Part 2 supplements or modifies the corresponding clauses of EN 50291-1:2018. Where this Part 2 states "addition", "modification" or "replacement", the relevant text of Part 1 is to be adapted accordingly.

1 Scope

This document specifies general requirements for the construction, testing and performance of electrically operated carbon monoxide gas detection apparatus, designed for continuous operation in a fixed installation in recreational vehicles and similar premises including recreational craft.

NOTE For caravan holiday homes EN 50291-1 applies.

This document specifies apparatus designed to operate in the event of an escape of carbon monoxide and to provide a visual and audible alarms only (Type B of EN 50291-1), or to provide visual and audible alarms and an executive action in the form of an output signal that can actuate directly or indirectly a shut-off device and/or other ancillary device (Type A of EN 50291-1).

This document 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 documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 50270:2015, *Electromagnetic compatibility — Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen*

EN 50291-1:2018, *Gas detectors — Electrical apparatus for the detection of carbon monoxide in domestic premises — Part 1: Test methods and performance requirements*

EN 60068-2-6, *Environmental testing — Part 2-6: Tests — Test Fc: Vibration (sinusoidal) (IEC 60068-2-6)*

EN 60068-2-7, *Environmental testing — Part 2: Tests — Test Ga: Acceleration, steady state (IEC 60068-2-7)*

EN 60068-2-27, *Environmental testing — Part 2-27: Tests — Test Ea and guidance: Shock (IEC 60068-2-27)*

EN 60529:1991, *Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989)*

EN 60721-3-6:1993, *Classification of environmental conditions — Part 3: Classification of groups of environmental parameters and their severities — Section 6: Ship environment (IEC 60721-3-6:1987)*

EN 60945:2002, *Maritime navigation and radiocommunication equipment and systems — General requirements — Methods of testing and required test results (IEC 60945:2002)*

ISO 7637-2:2011, *Road vehicles — Electrical disturbances from conduction and coupling — Part 2: Electrical transient conduction along supply lines only*