



NSAI
Standards

Irish Standard
I.S. EN 50194-2:2006&A1:2016

Electrical apparatus for the detection of combustible gases in domestic premises -
Part 2: Electrical apparatus for continuous operation in a fixed installation in recreational vehicles and similar premises -
Additional test methods and performance requirements

I.S. EN 50194-2:2006&A1:2016

Incorporating amendments/corrigenda/National Annexes issued since publication:

EN 50194-2:2006/A1:2016

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

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National Foreword

I.S. EN 50194-2:2006&A1:2016 is the adopted Irish version of the European Document EN 50194-2:2006, Electrical apparatus for the detection of combustible gases in domestic premises - Part 2: Electrical apparatus for continuous operation in a fixed installation in recreational vehicles and similar premises - Additional test methods and performance requirements

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

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In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

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EUROPEAN STANDARD

EN 50194-2:2006/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2016

ICS 13.320

English Version

Electrical apparatus for the detection of combustible gases in domestic premises - Part 2: Electrical apparatus for continuous operation in a fixed installation in recreational vehicles and similar premises - Additional test methods and performance requirements

Matériels électriques pour la détection des gaz combustibles dans les locaux à usage domestique - Partie 2: Matériels électriques en fonctionnement continu et en installation fixe dans les véhicules de loisir et locaux similaires - Méthodes d'essai supplémentaires et exigences de qualité de fonctionnement

Elektrische Geräte für die Detektion von brennbaren Gasen in Wohnhäusern - Teil 2: Ortsfeste elektrische Geräte zum kontinuierlichen Betrieb in Freizeifahrzeugen oder ähnlichen Umgebungen - Ergänzende Prüfverfahren und Anforderungen an das Betriebsverhalten

This amendment A1 modifies the European Standard EN 50194-2:2006; it was approved by CENELEC on 2016-03-14. 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.

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 amendment 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN 50194-2:2006/A1:2016) 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) 2017-03-14
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2019-03-14

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.

EN 50194-2:2006/A1:2016 (E)

1 Scope

In the entire clause replace EN 50194 by EN 50194-1.

In the following sentence replace EN 61779-1 and EN 61779-4 by EN 60079-29-1:

Apparatus complying with this standard is not considered suitable for industrial or commercial installations for which EN 60079-29-1 apply.

In the following note replace EN 61779 series by EN 60079-29-1:

NOTE 2 Apparatus tested in accordance with EN 60079-29-1 will not necessarily comply with this standard.

2 Normative references

Replace the entire Clause 2 by:

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.

EN 437:2003, *Test gases – Test pressures – Appliance categories*

EN 13878:2003, *Leisure accommodation vehicles – Terms and definitions*

EN 50194-1:2009, *Electrical apparatus for the detection of combustible gases in domestic premises – Test methods and performance requirements*

EN 60079-1:2008, *Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures “d”*

EN 50270:2015, *Electromagnetic compatibility – Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen*

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 2-7: 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 60068-2-52, *Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution) (IEC 60068-2-52)*

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

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 + A1:1991)*

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*

EUROPEAN STANDARD

EN 50194-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2006

ICS 13.320

English version

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

Matériels électriques pour la détection
des gaz combustibles dans les locaux
à usage domestique
Partie 2: Matériels électriques en
fonctionnement continu et en installation
fixe dans les véhicules de loisir
et locaux similaires -
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exigences de qualité de fonctionnement

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

This European Standard was approved by CENELEC on 2006-03-01. 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

This European Standard was prepared by WG 4 of the Technical Committee CENELEC TC 216, Gas detectors. The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50194-2 on 2006-03-01.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2007-03-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2009-03-01

This Part 2 is intended to be used in conjunction with EN 50194:2000. This European Standard supplements or modifies the corresponding clauses of EN 50194; where it states “addition”, “modification” or “replacement” the relevant text of EN 50194 is to be adapted accordingly.

Subclauses, tables and notes that are numbered starting from 101 are additional to those in Part 1.

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1 Scope

This Clause of EN 50194 is replaced by:

This European Standard specifies test methods and performance requirements for electrical apparatus for the detection of combustible gases designed for continuous operation in a fixed installation in recreational vehicles and similar premises.

NOTE 1 For caravan holiday homes EN 50194 applies.

This standard specifies apparatus designed to operate in the event of an escape of liquefied petroleum gas (LPG) and/or petrol (gasoline) vapour and to provide a visual and audible alarm 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 50194).

The standard excludes apparatus for the detection of toxic gases such as carbon monoxide (see EN 50291).

Apparatus complying with this standard is not considered suitable for industrial or commercial installations for which EN 61779-1 and EN 61779-4 apply.

NOTE 2 Apparatus tested in accordance with the EN 61779 series of standards will not necessarily comply with this standard.

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.

DIN 51361	Mineral spirits – Special boiling point spirits – Requirements
EN 437:2003	Test gases – Test pressures – Appliance categories
EN 13878:2003	Leisure accommodation vehicles – Terms and definitions
EN 50194:2000 ¹⁾	Electrical apparatus for the detection of combustible gases in domestic premises – Test methods and performance requirements
EN 50018:2000	Electrical apparatus for potentially explosive atmospheres - Flameproof enclosure 'd'
EN 50270:2006	Electromagnetic compatibility – Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen
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 2-7: 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)

¹⁾ Will be replaced by EN 50194-1, presently under consideration.

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