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NSAI Standards

Irish Standard
I.S. EN 50194-1:2009

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

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EUROPEAN STANDARD

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EUROPÄISCHE NORM

EN 50194-1

January 2009

ICS 13.320

Supersedes EN 50194:2000

English version

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

Matériels électriques pour la détection des gaz combustibles dans les locaux à usage domestique - Partie 1: Méthodes d'essai et exigences d'aptitude à la fonction

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

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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 was prepared by the Technical Committee CENELEC TC 216, Gas detectors.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 50194-1 on 2008-09-01.

This European Standard supersedes EN 50194:2000.

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)	2009-09-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2011-09-01

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1 Scope

This European Standard specifies general requirements for the construction, testing and performance of electrically operated apparatus for the detection of combustible gases, designed for continuous operation in a fixed installation in domestic premises. The apparatus may be mains or battery powered.

Additional requirements for apparatus to be used in recreational vehicles and similar premises are specified in EN 50194-2.

NOTE 1 For caravan holiday homes EN 50194-1 applies.

This European Standard specifies two types of apparatus to operate in the event of an escape of town gas, natural gas or liquefied petroleum gas (LPG):

- Type A apparatus - to provide a visual and audible alarm and an executive action in the form of an output signal that may actuate directly or indirectly a shut-off device and/or other ancillary device;
- Type B apparatus - to provide a visual and audible alarm only.

This European Standard excludes apparatus for the detection of toxic hazards of gases such as carbon monoxide (see EN 50291-1 and EN 50291-2).

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

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

EN 437	1993	Appliances using combustible gases - Test gases, test pressure and categories of appliances
EN 1775	2007	Gas supply - Gas pipework for buildings - Maximum operating pressure less than or equal to 5 bar - Functional recommendations
EN 50244	2000	Electrical apparatus for the detection of combustible gases in domestic premises - Guide on the selection, installation, use and maintenance
EN 50270	2006	Electromagnetic compatibility - Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen
EN 50291	2001	Electrical apparatus for the detection of carbon monoxide in domestic premises - Test methods and performance requirements
EN 60079-29-1	2007	Explosive atmospheres - Part 29-1: Gas detectors - Performance requirements of detectors for flammable gases (IEC 60079-29-1:2007, modified)
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 60704-1:1997)

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