



BSI Standards Publication

Explosive atmospheres

Part 29-4: Gas detectors —
Performance requirements of open
path detectors for flammable gases

bsi.

...making excellence a habit.™

This is a preview. [Click here to purchase the full publication.](#)

National foreword

This British Standard is the UK implementation of EN 60079-29-4:2010. It is identical to IEC 60079-29-4:2009, incorporating corrigendum August 2010. It supersedes BS EN 50241-1:1999 and BS EN 50241-2:1999, which are withdrawn.

The CENELEC common modifications have been implemented at the appropriate places in the text. The start and finish of each common modification is indicated in the text by tags **[C]** **[C]**.

The UK participation in its preparation was entrusted by Technical Committee GEL/31, Equipment for explosive atmospheres, to Subcommittee GEL/31/19, 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.

© BSI 2011

ISBN 978 0 580 72991 1

ICS 13.320; 29.260.20

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 July 2010.

Amendments/corrigenda issued since publication

| Date | Text affected |
|--------------|--|
| 31 July 2011 | Implementation of IEC corrigendum August 2010: modification to clause 5.2.4.3. |

English version

**Explosive atmospheres -
Part 29-4: Gas detectors -
Performance requirements of open path detectors for flammable gases
(IEC 60079-29-4:2009)**

Atmosphères explosives -
Partie 29-4: Détecteurs de gaz -
Exigences d'aptitude à la fonction
des détecteurs de gaz inflammables
à chemin ouvert
(CEI 60079-29-4:2009)

Explosionsfähige Atmosphäre -
Teil 29-4: Gasmessgeräte -
Anforderungen an das Betriebsverhalten
von Geräten mit offener Messstrecke
für die Messung brennbarer Gase
(IEC 60079-29-4:2009)

This European Standard was approved by CENELEC on 2010-04-01. 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, Bulgaria, Croatia, 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: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 31/819/FDIS, future edition 1 of IEC 60079-29-4, prepared by IEC Technical Committee 31, Equipment for explosive atmospheres, was submitted to the IEC-CENELEC parallel vote.

A draft amendment, prepared by the CENELEC SC 31-9, Electrical apparatus for the detection and measurement of combustible gases to be used in industrial and commercial potentially explosive atmospheres, of Technical Committee CENELEC TC 31, Electrical apparatus for potentially explosive atmospheres, was submitted to the formal vote.

The combined texts were approved by CENELEC as EN 60079-29-4 on 2010-04-01.

EN 60079-29-4:2010 supplements and modifies the general requirements of EN 60079-0. Where a requirement of this standard conflicts with a requirement of EN 60079-0, the requirement of this standard shall take precedence.

This European Standard supersedes EN 50241-1:1999 + A1:2004 and EN 50241-2:1999.

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:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2011-01-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2013-04-01

Annexes ZA, ZZ and ZY have been added by CENELEC.