

AS/NZS 60079.29.4:2011  
IEC 60079-29-4 Ed.1.0 (2009)  
Reconfirmed 2022

AS/NZS 60079.29.4:2011

Australian/New Zealand Standard™

**Explosive atmospheres**

**Part 29.4: Gas detectors—Performance  
requirements of open path detectors for  
flammable gases**



#### **AS/NZS 60079.29.4:2011**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-014, Explosive Atmospheres. It was approved on behalf of the Council of Standards Australia on 1 June 2011 and on behalf of the Council of Standards New Zealand on 13 May 2011.  
This Standard was published on 20 June 2011.

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*This Standard was issued in draft form for comment as DR AS/NZS 60079.29.4.*

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Technical Committee EL-014 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

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Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 14 February 2022.

Approved for reconfirmation in New Zealand on behalf of the New Zealand Standards Approval Board on 20 May 2022.

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# Australian/New Zealand Standard™

## Explosive atmospheres

### **Part 29.4: Gas detectors—Performance requirements of open path detectors for flammable gases**

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-014, Explosive Atmospheres.

The objective of this Standard is to establish the specific requirements for design, construction and performance testing of electrical equipment for open path detection of flammable gases and vapours. It is complementary to AS/NZS 60079.29.1, which applies to the other detection techniques available for this purpose. It is intended to be read in conjunction with AS/NZS 60079.0 for its electrical protection.

This Standard is identical with, and has been reproduced from, IEC 60079-29-4 Ed.1.0 (2009), *Explosive atmospheres, Part 29-4: Gas detectors—Performance requirements of open path detectors for flammable gases*.

As this Standard is reproduced from an international standard, the following applies:

- (a) Its number appears on the cover and title page while the international standard number appears only on the cover.
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References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian/New Zealand Standard</i>	
IEC		AS/NZS	
60079	Explosive atmospheres	60079	Explosive atmospheres
60079-0	Part 0: Equipment—General requirements	60079.0	Part 0: Equipment—General requirements
60079-29-1	Part 29-1: Gas detectors—Performance requirements of detectors for flammable gases	60079.29.1	Part 29.1: Gas detectors—Performance requirements of detectors for flammable gases

Only normative references that have been adopted as Australian or Australian/New Zealand Standards have been listed.

It should be noted that many other parts of IEC 60079 are now published as identically-numbered parts of AS/NZS 60079. The latter should be referenced when necessary.

The term ‘informative’ has been used in this Standard to define the application of the annex to which it applies. An ‘informative’ annex is only for information and guidance.

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