AS/NZS 60079.25:2011 IEC 60079-25 Ed.2.0 (2010)

# Australian/New Zealand Standard<sup>™</sup>

## **Explosive atmospheres**

Part 25: Intrinsically safe electrical systems





#### AS/NZS 60079.25:2011

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-014, Equipment for 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 16 May 2011. This Standard was published on 20 June 2011.

The following are represented on Committee EL-014:

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This Standard was issued in draft form for comment as DR AS/NZS 60079.25.

# Australian/New Zealand Standard<sup>™</sup>

## **Explosive atmospheres**

# Part 25: Intrinsically safe electrical systems

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#### PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-014, Equipment for Explosive Atmospheres, to supersede AS/NZS 60079.25:2004.

The objective of this Standard is to establish the specific requirements for construction and assessment of intrinsically safe systems, type of protection 'i', for use where Group I, II and III apparatus is required. It modifies but should be read in conjunction with, AS/NZS 60079.0 and AS/NZS 60079.11, in particular.

The objective of the revision is to adopt the current edition of IEC 60079-25. A list of 'significant changes' in this revision is given in the Foreword.

This Standard is identical with, and has been reproduced from IEC 60079-25 Ed.2.0 (2010), *Explosive atmospheres—Part 25: Intrinsically safe electrical systems* 

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

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Reference to International Standard		Australian or Australian/New Zealand Standard	
IEC	<b>**</b>	AS	
60060	High-voltage test techniques	1931	High-voltage test techniques
60060-1	Part 1: General definitions and test requirements	1931.1	Part 1: General definitions and test requirements
		AS/NZS	
60079	Explosive atmospheres	60079	Explosive atmospheres
60079-0	Part 0: General requirements	60079.0	Part 0: General requirements
60079-11	Part 11: Equipment protection by	60079.11	Part11: Equipment protection by
	intrinsic safety 'i'		intrinsic safety 'i'
60079-14	Part 14: Electrical installations	60079.14	Part 14: Electrical installations design,
	design, selection and erection		selection and erection
60079-15	Part 15: Equipment protection by type of protection 'n'	60079.15	Part 15: Equipment protection by type of protection 'n'
60079-26	Part 27: Fieldbus intrinsically safe concept (FISCO)	60079.26	Part 27: Fieldbus intrinsically safe concept (FISCO)
61241	Electrical apparatus for use in presence of combustible dust	61241	Electrical apparatus for use in presence of combustible dust
61241-11	Protection by intrinsic safety 'iD'	61241.11	Protection by intrinsic safety 'iD'

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

The terms 'normative' and 'informative' have been used in this Standard to define the application of the annex to which they apply. A 'normative' annex is an integral part of a Standard, whereas an 'informative' annex is only for information and guidance.

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