AS/NZS 60079.30.2:2007

Australian/New Zealand Standard™

Explosive atmospheres

Part 30.2: Electrical resistance trace heating—Application guide for design, installation and maintenance (IEC 60079-30-2, Ed. 1.0 (2007) MOD)

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 19 February 2006 and on behalf of the Council of Standards New Zealand on 6 April 2007.
This Standard was published on 26 April 2007.

The following are represented on Committee EL-014:

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We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR 07069.

Australian/New Zealand Standard™

Explosive atmospheres

Part 30.2: Electrical resistance trace heating—Application guide for design, installation and maintenance (IEC 60079-30-2, Ed. 1.0 (2007) MOD)

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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 62086.2:2002.

The objective of this Standard is to provide guidance for the application of electrical resistance heating systems in areas where explosive gas atmospheres may be present; it also provides guidance for the design, installation and maintenance of trace heating equipment and associated control and monitoring equipment.

This Standard is a modified version of IEC 60079-30-2, Ed.1.0 (2007), *Explosive atmospheres – Part 30-2: Electrical resistance trace heating – Application guide for design, installation and maintenance.* It has been varied, as indicated, for protection of human health and safety, a certificate reason under the WTO Agreement on Technical Barriers to Trade (TBT).

Variations to IEC 60079-30-2 are indicated at the appropriate places throughout this Standard.

Variations to IEC 60079-30-2, Ed.1.0 (2007) are indicated at the appropriate places throughout this standard. Strikethrough (~~example~~) identifies IEC text, tables and figures which, for the purposes of this Australian/New Zealand Standard, are deleted. Where text, tables or figures are added, each is set in its proper place and identified by shading (example). Added figures are not themselves shaded, but are identified by a shaded border.

Annex ZZ contains a summary of all variations and their respective explanations.

This Standard is part of a series covering electrical resistance trace heating for use in explosive gas atmospheres which comprises the following:

AS/NZS	
60079	Explosive atmospheres
60079.30.1	Part 30.1: Electrical resistance trace heating—General and testing requirements
60079.30.2	Part 30.2: Electrical resistance trace heating—Application guide for design, installation and maintenance (this Standard)

As this Standard is reproduced from an International Standard a full point should be substituted for a comma when referring to a decimal marker.

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Any table, figure or text of the international standard that is struck through is not part of this standard. Any Australian/New Zealand table, figure or text that is added is part of this standard and is identified by shading.

1 Scope

This part of IEC 60079 provides guidance for the application of electrical resistance trace heating systems in areas where explosive gas atmospheres may be present, with the exception of those classified in zone 0.

This Standard shall be read in conjunction with AS/NZS 2381.1, which describes the fundamental considerations which affect the selection, installation and maintenance requirements of all electrical equipment used in explosive atmospheres.

It provides recommendations for the design, installation, maintenance and repair of trace heating equipment and associated control and monitoring equipment. It does not cover devices that operate by induction heating, skin effect heating or direct pipeline heating, not those intended for stress relieving.

This part supplements the requirements specified in IEC 60079-30-1.

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.

References to international standards that are struck through in this clause are replaced by references to Australian or Australian/New Zealand Standards that are listed immediately thereafter and identified by shading. Any Australian or Australian/New Zealand Standard that is identical to the International Standard it replaces is identified as such.

~~IEC 60079-0:2004, *Electrical apparatus for explosive gas atmospheres – Part 0: General requirements*~~

AS/NZS 60079.0:2005, *Electrical apparatus for explosive gas atmospheres*, Part 0: *General requirements* (identical to IEC 60079-0:2004)

~~IEC 60079-1:2003, *Electrical apparatus for explosive gas atmospheres, Part 1: Flameproof enclosures "d"*~~

AS/NZS 60079.1:2005, *Electrical apparatus for explosive gas atmospheres*, Part 1: *Flameproof enclosures 'd'* (identical to IEC 60079-1:2003)