

Australian/New Zealand Standard™

**Electrical apparatus for explosive gas
atmospheres—
Electrical resistance trace heating—**

**Part 2: Application guide for design,
installation and maintenance
(IEC 62086-2:2001, MOD)**



Standards Australia



AS/NZS 62086.2:2002

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The following interests are represented on Committee EL-014:

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee, EL-014, Electrical Equipment in Hazardous Areas.

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 62086-2:2001, *Electrical apparatus for explosive gas atmospheres—Electrical resistance trace heating Part 2: 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 62086-2:2001 are indicated at the appropriate places throughout this Standard.

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

A reference to an International Standard identified in the Normative References Clause by strikethrough (~~example~~) is replaced by a reference to the Australian or Australian/New Zealand Standard(s) listed immediately thereafter and identified by shading (**example**).

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

AS/NZS

- 62086 Electrical apparatus for explosive atmospheres—Electrical resistance trace heating
- 62086.1 Part 1: General and testing requirements
- 62086.2 Part 2: 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 IEC table, figure or passage of text that is struckthrough is not part of this Standard. Any Australian/New Zealand table, figure or passage of text that is added (and identified by shading) is part of this Standard.

1 Scope

This part of IEC 62086 provides guidance for the application of electrical resistance trace-heating systems in areas where explosive gas atmospheres may be present.

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 and maintenance of trace-heating equipment and associated control and monitoring equipment.

This part supplements the requirements specified in IEC 62086-1.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 62086. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of IEC 62086 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of IEC and ISO maintain registers of currently valid International Standards.

References to International Standards that are struck through in this Clause are replaced by references to equivalent Australian or Australian/New Zealand Standards that are listed immediately thereafter and identified by shading.

~~IEC 60079-0:1998, *Electrical apparatus for explosive gas atmospheres — Part 0: General requirements*~~

AS/NZS 60079.0:2000, *Electrical apparatus for explosive atmospheres, Part 0: General requirements* (identical to IEC 60079-0:1998)