

AS 2380.4—1994

Australian Standard[®]

Electrical equipment for explosive atmospheres—Explosion-protection techniques

Part 4: Pressurized rooms or pressurized enclosures

This Australian Standard was prepared by Committee EL/14, Electrical Equipment in Hazardous Areas. It was approved on behalf of the Council of Standards Australia on 29 June 1994 and published on 19 September 1994.

The following interests are represented on Committee EL/14:

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Australian Chamber of Commerce and Industry
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Australian Electrical and Electronics Manufacturers Association
Australian Gas Association
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee on Electrical Equipment in Hazardous Areas, to supersede AS 1021—1980, *Protection by purging of electrical equipment for explosive atmospheres* and AS 1825—1982, *Electrical equipment for explosive atmospheres—Pressurized enclosures—Type of protection p*. Under the terms of the Active Cooperation Agreement, this Standard is the result of a consensus among Australian and New Zealand representatives on the Joint Committee to produce this document as an Australian Standard.

The scope of the Standard has also been expanded to include pressurized rooms, and pressurized rooms and enclosures for use in Class II (dust) areas.

This Standard is intended for the guidance of manufacturers, designers, installers, users, statutory authorities and associated interests. It is part of a series of Standards dealing with the explosion-protection of electrical equipment intended for use in potentially explosive atmospheres.

In its terminology, definitions and general treatment of the subject, this Standard is similar to IEC 79, *Electrical apparatus for explosive gas atmospheres*, Part 2: *Electrical apparatus—Type of protection ‘p’* and Part 13: *Construction and use of rooms or buildings protected by pressurization*.

Acknowledgment is made of the assistance received from these sources.

Some of the more significant changes to AS 1021 and AS 1825 included in this Standard are:

- (a) The inclusion of requirements for pressurized rooms and enclosures suitable for use in Class II combustible dust areas.
- (b) Definitions and terminology have been revised to align with other Australian and IEC Standards.
- (c) Reference to IEC 79-16 for analyser houses has been included.
- (d) Requirements for shutdown of electrical supply have been clarified.
- (e) The inclusion of a clause detailing the pressurization principle.

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