

Australian Standard™

**Leakage detection systems**



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This Australian Standard was prepared by Committee AG-011, Gas Components and Industrial Equipment. It was approved on behalf of the Council of Standards Australia on 14 April 2005. This Standard was published on 1 June 2005.

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Australian Standard™

## Leakage detection systems

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## PREFACE

This Standard was reviewed by the Standards Australia Committee, AG-011, Gas Components and Industrial Equipment, to supersede AG 215—1998, *Approval requirements for leakage detection systems*. The Standard is republished without technical alterations.

The objective of this Standard is to provide manufacturers, designers, regulatory authorities, testing laboratories and similar organizations with uniform minimum requirements for the safety, performance and use of leakage detection systems.

This Standard should not be regarded as a design specification or as an instruction manual.

In its preparation, consideration has been given to—

- (a) continuity of satisfactory operation;
- (b) the prevention of fire hazards, and explosions;
- (c) the prevention of injury to persons or property;
- (d) gas rules and regulations now in force; and
- (e) relevant International Standards.

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

Statements expressed in mandatory terms in notes to tables and figures are deemed to be requirements of this Standard.

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SECTION 1 SCOPE AND DEFINITIONS

**1.1 SCOPE**

These requirements apply to leakage detection systems intended to be used as part of a safety shut off system (see AS 3814).

Compliance with these requirements does not imply that it is acceptable for use without supplemental tests in its intended application.

Leakage detection systems shall comply with the requirements of the appropriate electrical authority.

These requirements apply to commercially available packaged leakage detection systems that include pressure switches, timers, pumps, etc., and those leakage detection systems that are built up from standard components intended for the same purpose.

These requirements do not apply to devices intended to detect external leakage from gas pipes.

**1.2 DEFINITIONS**

**1.2.1 Authority**

Means the authority having jurisdiction or such authority as delegated. (Technical Regulator).

**1.2.2 Certified**

Assessed by a Certifying Body and having a certificate number to demonstrate compliance with a Standard.

**1.2.3 Certifying body**

A body acceptable to the Technical Regulator that provides assurance of compliance of appliances and components with nominated standards or other accepted safety criteria.

**1.2.4 Combination gas control**

An assembly of two or more different control functions in a single body.

**1.2.5 Flame safeguard**

A safety device that automatically cuts off the gas supply if the actuating flame is extinguished.

**1.2.6 Gas**

A combustible fuel gas which may be one of the following:

**1.2.6.1 Natural gas (NG)**

A hydrocarbon gas, consisting mainly of methane.