

Australian Standard™

**Smoke alarms**

This Australian Standard was prepared by Committee FP-002, Automatic Fire Detection and Alarm Systems. It was approved on behalf of the Council of Standards Australia on 1 March 1993 and published on 13 April 1993.

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The following are represented on Committee FP-002:

Australian Assembly of Fire Authorities  
Australian Association of Rural Fire Authorities  
Australian Chamber of Commerce and Industry  
Australian Chamber of Manufactures  
Australian Electrical and Electronic Manufacturers Association  
Australian Fire Protection Association  
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AS 3786—1993  
(Incorporating Amendment Nos 1, 2, 3 and 4)

# Australian Standard™

## Smoke alarms

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## PREFACE

This Standard was prepared by the Standards Australia Committee FP-002, Automatic Fire Detection and Alarm Systems to supersede AS 3786—1990, *Self-contained smoke alarms*.

*This Standard incorporates Amendment No. 1 (April 1995), Amendment No. 2 (December 1995), Amendment No 3 (November 2001) and Amendment No. 4 (April 2004). The changes required by the Amendments are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.*

Alterations to the previous edition are as follows:

- (a) The term 'self-contained' has been deleted from the title and in the body of this Standard in recognition that the scope of this Standard includes externally energized smoke alarms.
- (b) Clauses for new designs and innovations, and interpretations have been added.

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## STANDARDS AUSTRALIA

**Australian Standard**  
**Smoke alarms**

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard specifies requirements for the design and performance of electrically operated smoke alarms containing both detection and alarm facilities.

This Standard allows, although it does not require, the inclusion within the smoke alarm of facilities for interconnection with other similar units, or accessories. Where such facilities are included, this Standard specifies requirements for the connection interface. However, such an interface is not intended for connection to fire control stations.

This Standard applies to smoke alarms intended for installation within residential accommodation where connection to fire control stations is not required.

**1.2 APPLICATION**

A3 | A network of interconnected smoke alarms shall not be substituted for installations which require compliance with AS 1670.1.

The test methods included in this Standard are intended to assess the suitability of smoke alarms solely for residential applications.

A4 | **1.3 'Not applicable'**

**1.4 INTERPRETATIONS**

Questions concerning the meaning, the application, or effect on any part of this Standard may be referred to the SA Committee on Automatic Fire Detection and Alarm Systems. The authority of the committee is limited to matters of interpretations and it will not adjudicate in disputes.

**1.5 REFERENCED DOCUMENTS**

The following documents are referred to in this Standard:

## STANDARDS

## AS

A3	1319	Safety signs for the occupational environment
	1670	Fire detection, warning, control and intercom systems—System design, installation and commissioning
	1670.1	Part 1: Fire
	1670.2	Part 2: Local fire
	1670.6	Part 6: Smoke alarms
	2362	Automatic fire detection and alarm systems—Methods of test for actuating devices
	2362.4	Method 4: Voltage stability test
	2362.5	Method 5: Insulation resistance test