



**Fire detection, warning, control and  
intercom systems—System design,  
installation and commissioning**

**Part 1: Fire**



This Australian Standard® was prepared by Committee FP-002, Fire detection, Warning, Control and Intercom Systems. It was approved on behalf of the Council of Standards Australia on 12 October 2015.

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The following are represented on Committee FP-002:

- Association of Hydraulic Services Consultants Australia
  - Australasian Fire and Emergency Service Authorities Council
  - Australian Building Codes Board
  - Australian Chamber of Commerce and Industry
  - Australian Industry Group
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  - Department of Human Services, Vic.
  - Engineers Australia
  - Fire Protection Association Australia
  - National Electrical and Communications Association
  - National Fire Industry Association
  - Property Council of Australia
  - Society of Fire Safety
- 

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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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Australian Standard<sup>®</sup>

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## PREFACE

This Standard was prepared by the Standards Australia Committee FP-002, Fire Detection, Warning, Control and Intercom Systems, to supersede AS 1670.1—2004.

*This Standard incorporates Amendment No. 1 (November 2017). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.*

The objective of this revision is to adopt a number of AS 7240 Standards which have been published since 2004, to increase flexibility of design and installation and to simplify the design and installation requirements to meet the National Construction Code.

Many of the Australian equipment Standards referenced in this Standard are intended to be removed from a future revision of this standard. The Standards to be removed are detailed in Clause 1.3.

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

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

*This Standard incorporates commentary on some of the clauses. The commentary directly follows the relevant clause, is designated by ‘C’ preceding the clause number and is printed in italics in a box. The commentary is for information only and does not need to be followed for compliance with the Standard.*

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# STANDARDS AUSTRALIA

## Australian Standard

### Fire detection, warning, control and intercom systems—System design, installation and commissioning

#### Part 1: Fire

## SECTION 1 SCOPE AND GENERAL

### 1.1 SCOPE

This Standard sets out requirements for the design, installation and commissioning of fire detection and alarm systems comprising components complying with the requirements of the appropriate product Standards. Specific requirements suppression for special hazards systems are outside the scope of this standard.

#### NOTES:

- 1 Where detection and control and indicating equipment forms part of a smoke control system in accordance with AS/NZS 1668.1, specific requirements are specified in Section 7.
- 2 Where detection and control and indicating equipment forms part of a special hazard system in accordance with AS 4214 series, the additional requirements are covered in AS 1670.5 Fire—Special Hazards.
- 3 Commissioning requirements are set out in Appendix J.
- 4 Maintenance requirements for fire detection and alarm equipment are given in the relevant sections of AS 1851.

### 1.2 APPLICATION

All fire detection and alarm systems shall comply with the requirements of Section 2 and Section 3, Section 4, Section 5, Section 6 and Section 7.

This standard requires that detection be provided throughout all areas of the building; however where systems are installed to solely meet the requirements of the NCC refer to the NCC for areas to be protected.

### 1.3 NORMATIVE REFERENCES

The following are the normative reference documents in this Standard:

NOTE: Documents referenced for informative purposes are listed in the Bibliography.

#### AS

1603	Automatic fire detection and alarm systems
1603.1	Part 1: Heat detectors
1603.2	Part 2: Point type smoke detectors
1603.3	Part 3: Heat alarms
1603.5	Part 5: Manual call points
1603.7	Part 7: Optical beam smoke detectors
1603.8	Part 8: Multi-point aspirated smoke detectors
1603.11	Part 11: Visual warning devices
1603.13	Part 13: Duct sampling units
1603.14	Part 14: Point type carbon monoxide (CO) fire detectors
1603.17	Part 17: Warning equipment for people with hearing impairment