



Automatic fire detection and alarm systems

Part 3: Heat alarms



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 22 December 2017.

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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 Chamber of Commerce and Industry
 - Australian Industry Group
 - Australian Institute of Building Surveyors
 - CSIRO
 - Deafness Forum of Australia
 - Department of Health and 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®

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Part 3: Heat alarms

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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 1603.3—1996, *Automatic fire detection and alarm systems, Part 3: Heat alarms*.

The objective of this Standard is to prescribe requirements for heat alarms intended for use as a supplementary part of an automatic smoke alarm system in domestic dwellings or residential accommodation buildings as required by the *National Construction Code* or state and territory regulations. For this reason interconnectability is mandated for heat alarms.

The objective of this edition is to define the requirements for heat alarms and harmonize these with the requirements for smoke alarms, having given due consideration to requirements within International Standards, as set out by ISO, and those specific to the Australian environmental and regulatory framework.

Notes used in this Standard are of an advisory nature only and are used to give explanation or guidance to the user on recommended considerations or technical procedures, or to provide an informative cross-reference to other documents or publications. Notes to clauses in this Standard do not form a mandatory part for conforming to this Standard.

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

This Standard incorporates a Commentary on some Clauses. The Commentary directly follows the relevant clause, is designated by 'C' preceding the clause number and is printed in italics in a panel. The Commentary is intended to help readers understand the background to the clause but does not form part of the clause.

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FOREWORD

This Standard contains requirements for optional functions. These functions do not have to be provided on the heat alarm; however, where these functions are provided, they have to comply with the requirements specified for them.

Each optional function is set out in a separate clause, with its own set of associated requirements, in order to permit heat alarms covered by this Standard to have different combinations of functions and still conform to this Standard.

Two optional sound output patterns are specified in this Standard. The option allows national regulators to choose a sound pattern complying with ISO 8201 or ISO 7731, depending on the desired response of the building's occupant to an alarm condition.

A higher temperature, Class C heat alarm is included for heat alarms installed in areas subject to a greater temperature range, such as leisure accommodation vehicles.

Additional functions not specified in this Standard are permitted, provided they do not jeopardize any mandatory function required by this Standard.

STANDARDS AUSTRALIA

Australian Standard
Automatic fire detection and alarm systems

Part 3: Heat alarms

1 SCOPE

This Standard specifies requirements, test methods and functional criteria for heat alarms intended for household or similar residential applications.

This Standard also covers (but does not require) the inclusion within the heat alarm of facilities for—

- (a) visual fault condition indication; and
- (b) alarm-silence facility.

Where such facilities are included, this Standard specifies applicable requirements.

2 NORMATIVE REFERENCES

The following are the normative documents referenced in this Standard.

AS

60068	Environmental testing—Tests
60068.1	Part 1: General and guidance
60068.2.1	Part 2.1: Test A: Cold
60068.2.6	Part 2.6: Test Fc: Vibration (sinusoidal)
60068.2.42	Part 2.42: Test Kc: Sulphur dioxide test for contacts and connections
60068.2.78	Part 2.78: Test Cab: Damp heat, steady state

7240

Fire detection and alarm systems

7240.5

Part 5: Point type heat detectors (ISO 7240-5:2003, MOD)

AS IEC

61672	Electroacoustics—Sound level meters
61672.1	Part 1: Specifications

AS ISO

7240	Fire detection and alarm systems
7240.3	Part 3: Audible alarm devices

AS/NZS

60065	Audio, video and similar electronic apparatus—Safety requirements (IEC 60065, Ed.7.2 (2011) MOD)
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60950

Information technology equipment—Safety

60950.1

Part 1: General requirements (IEC 60950-1, Ed. 2.2 (2013), MOD)

ISO

209	Aluminium and aluminium alloys—Chemical composition
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7731

Ergonomics—Danger signals for public and work areas—Auditory danger signals

8201

Acoustics—Audible emergency evacuation signal