



## **Fire Detection and Alarm Systems**

### **Part 2: Fire detection control and indicating equipment (ISO 7240-2:2017, MOD)**

**STANDARDS**  
Australia



AS 7240.2:2018

This Australian Standard® was prepared by FP-002, Fire Detection, Warning, Control and Intercom Systems. It was approved on behalf of the Council of Standards Australia on 30 November 2018.

This Standard was published on 20 December 2018.

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  
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This Standard was issued in draft form for comment as DR AS 7240.2:2018.

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ISBN 978 1 76072 300 2



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### **Part 2: Fire detection control and indicating equipment (ISO 7240- 2:2017, MOD)**

First published as AS 7240.2—2004.  
This edition AS 7240.2:2018.

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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 7240.2—2004, *Fire detection and alarm systems, Part 2: Control and indicating equipment (ISO 7240-2:2003, MOD)*.

The objective of this Standard is to specify requirements, test methods and performance criteria for fire detection control and indicating equipment (FDCIE) for use in fire detection and fire alarm systems installed in buildings.

For the testing of other types of FDCIE, this Standard is intended to be used only for guidance. FDCIE with special characteristics, developed for specific risks, are not covered in this document.

This Standard is an adoption with national modifications, and has been reproduced from, ISO 7240-2:2017, *Fire detection and alarm systems — Part 2: Fire detection control and indicating equipment*. The modifications are additional requirements and are set out in Appendix Z, which has been added at the end of the source text.

Appendix ZZ lists the variations to ISO 7240-2:2017 for the application of this Standard in Australia.

Users should note that references to AS 7240.2—2004 contained in Table 2.1 of AS 4428.3—2010, *Fire detection, warning, control and intercom systems — Control and indicating equipment, Part 3: Fire Brigade Panel* can be used interchangeably with the renumbered but technically equivalent clauses in this Standard.

As this document has been reproduced from an International Standard, the following applies:

- (a) In the source text “this part of ISO 7240” should read “this Australian Standard”.
- (b) A full point substitutes for a comma when referring to a decimal marker.

Australian Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

# Contents

Preface .....	ii
Foreword .....	vi
Introduction .....	vii
<b>1 Scope .....</b>	<b>1</b>
<b>2 Normative references .....</b>	<b>1</b>
<b>3 Terms, definitions and abbreviated terms .....</b>	<b>1</b>
<b>4 Requirements .....</b>	<b>2</b>
4.1 General .....	2
4.2 Compliance .....	3
4.3 Quiescent condition .....	3
4.4 Fire alarm condition .....	3
4.4.1 Reception and processing of fire signals .....	3
4.4.2 Indication of fire alarm condition .....	4
4.4.3 Indication of fire detection zones in alarm .....	4
4.4.4 Audible indication .....	4
4.4.5 Other indications during the fire alarm condition .....	5
4.4.6 Reset from fire alarm condition .....	5
4.4.7 Output of fire alarm condition .....	5
4.4.8 Output to fire alarm signalling function — Optional function .....	5
4.4.9 Control of fire alarm routing function — Optional function .....	6
4.4.10 Output to fire protection control function — Optional function .....	6
4.4.11 Delays to outputs — Optional function .....	7
4.4.12 Dependency on more than one alarm signal — Optional function .....	8
4.4.13 Alarm counter — Optional function .....	9
4.4.14 Output of standard emergency evacuation signal — Optional function .....	9
4.5 Fault warning condition .....	9
4.5.1 Reception and processing of fault signals .....	9
4.5.2 Indication of faults .....	9
4.5.3 Fault monitoring of fire protection control function — Optional function .....	11
4.5.4 Fault signal from points — Optional function .....	11
4.5.5 Total loss of the power supply — Optional function .....	11
4.5.6 System fault .....	11
4.5.7 Audible indication .....	11
4.5.8 Reset of fault indications .....	12
4.5.9 Fault output .....	12
4.5.10 Output to fault warning routing function — Optional function .....	12
4.6 Disabled condition — Optional function .....	12
4.6.1 General .....	12
4.6.2 Disablements .....	13
4.6.3 Disablement and enablement of addressable points — Optional function .....	13
4.6.4 Indication of the disabled condition .....	13
4.7 Test condition — Optional function .....	14
4.7.1 General requirements .....	14
4.7.2 Indication of test condition .....	14
4.7.3 Indication of fire detection zones in test state .....	14
4.8 Supervisory signal condition — Optional function .....	14
4.8.1 Reception and processing of supervisory signals .....	14
4.8.2 Indication of the supervisory signal condition .....	15
4.8.3 Indication of the supervisory signals from fire detection zones .....	15
4.8.4 Audible indication .....	15
4.8.5 Reset of supervisory signal .....	16
4.8.6 Supervisory signal condition output .....	16

4.9	Standardized input/output interface — Optional function	16
4.10	Accessibility of indications and controls	17
4.11	Visual indications	17
4.11.1	General	17
4.11.2	Indications by means of light-emitting indicators	17
4.11.3	Indications on alphanumeric displays	18
4.12	Audible indications	19
4.13	Additional indications	19
4.14	Testing of indicators	19
4.15	Power supply	19
4.16	Mechanical	19
4.17	Integrity of transmission paths	20
4.18	Software	20
4.18.1	General	20
4.18.2	Program monitoring	20
4.18.3	Storage of programs and data	21
4.18.4	Monitoring of memory contents	21
<b>5</b>	<b>Tests</b>	<b>21</b>
5.1	General	21
5.1.1	Standard atmospheric conditions for testing	21
5.1.2	Specimen configuration	22
5.1.3	Mounting and orientation	22
5.1.4	Electrical connection	22
5.1.5	Provision for tests	22
5.2	Functional test	22
5.2.1	Object of test	22
5.2.2	Test schedule	22
5.2.3	Fire alarm condition	23
5.2.4	Fault warning condition	23
5.2.5	Disabled condition	23
5.2.6	Requirements	23
5.3	Environmental tests	23
5.3.1	General	23
5.3.2	Tests for one specimen	24
5.3.3	Tests for two specimens	24
5.3.4	Tests for three specimens	24
5.3.5	Requirements	24
5.4	Cold (operational)	24
5.4.1	Object of test	24
5.4.2	Test procedure	25
5.4.3	Requirements	25
5.5	Damp heat, steady state (operational)	25
5.5.1	Object of test	25
5.5.2	Test procedure	26
5.5.3	Requirements	26
5.6	Impact (operational) — Optional test	26
5.6.1	Object of test	26
5.6.2	Test procedure	27
5.6.3	Requirements	27
5.7	Vibration, sinusoidal (operational) — Optional test	28
5.7.1	Object of test	28
5.7.2	Test procedure	28
5.7.3	Requirements	29
5.8	Electromagnetic compatibility (EMC) — Immunity tests (operational)	29
5.8.1	Test procedure	29
5.8.2	Requirements	30
5.9	Supply voltage variation (operational)	30
5.9.1	Object of test	30

5.9.2	Test procedure	30
5.9.3	Requirements	30
5.10	Damp heat, steady-state (endurance)	31
5.10.1	Object of test	31
5.10.2	Test procedure	31
5.10.3	Requirements	31
5.11	Vibration, sinusoidal (endurance)	32
5.11.1	Object of test	32
5.11.2	Test procedure	32
5.11.3	Requirements	32
5.12	Dry heat (operational) — Optional	33
5.12.1	Object of test	33
5.12.2	Test procedure	33
5.12.3	Requirements	33
<b>6</b>	<b>Test report</b>	<b>33</b>
<b>7</b>	<b>Marking</b>	<b>34</b>
<b>8</b>	<b>Data</b>	<b>34</b>
8.1	General	34
8.2	Software documentation	34
8.3	Hardware documentation	35
8.4	Installation and user documentation	35
<b>Annex A</b>	(informative) <b>Optional functions with requirements and alternatives</b>	<b>37</b>
<b>Annex B</b>	(informative) <b>Processing of signals from fire detectors</b>	<b>38</b>
<b>Annex C</b>	(informative) <b>Explanation of fire detection zones and zonal indication of fire alarms</b>	<b>39</b>
<b>Annex D</b>	(informative) <b>Delays to outputs</b>	<b>40</b>
<b>Annex E</b>	(informative) <b>Fault recognition and indication</b>	<b>42</b>
<b>Annex F</b>	(informative) <b>Systems related to the supervisory signal condition</b>	<b>43</b>
<b>Annex G</b>	(informative) <b>Standardized input/output interface for the connection of ancillary equipment (e.g. fire brigade panel)</b>	<b>44</b>
<b>Annex H</b>	(informative) <b>Explanation of access levels</b>	<b>45</b>
<b>Annex I</b>	(informative) <b>Integrity of transmission paths</b>	<b>47</b>
<b>Annex J</b>	(informative) <b>Design requirements for software-controlled fire detection control and indicating equipment</b>	<b>48</b>
<b>Bibliography</b>		<b>49</b>
<b>Appendix ZZ</b>	(informative) <b>Variations to ISO 7240-2:2017 for Australia</b>	<b>50</b>

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 21, *Equipment for fire protection and fire fighting*, Subcommittee SC 3, *Fire detection and alarm systems*.

This second edition cancels and replaces the first edition (ISO 7240-2:2003), which has been technically revised.

A list of all the parts in the ISO 7240 series can be found on the ISO website.

## Introduction

The fire detection control and indication function (ISO 7240-1:2014, Figure 1, item B), within a fire detection and alarm system (FDAS) installed in and around buildings, is provided by the fire detection control and indicating equipment (FDCIE).

FDCIE receives signals from the fire detection function (ISO 7240-1:2014, Figure 1, item A) and the manual initiating function (ISO 7240-1:2014, Figure 1, item D). FDCIE processes received signals and may indicate information at the FDCIE and/or send signals to other functions within the fire detection and alarm system. The signals are used to provide notification to building occupants and other parties responsible for building safety in accordance with the design objectives for the fire detection and alarm system (see also ISO 7240-14 or equivalent national design standard).

This document is drafted on the basis of mandatory functions, which are provided on all fire detection control and indicating equipment, and optional functions (with requirements) which may be provided. It is intended that the options be used for specific applications, and to meet the fire detection and alarm system design objectives. Each optional function is included as a separate entity, with its own set of associated requirements, in order to permit fire detection control and indicating equipment with many different combinations of functions to comply with this document.

Other functions associated with fire detection and fire alarm may also be provided, even if not specified in this document.

# Australian Standard®

## Fire Detection and Alarm Systems

### Part 2: Fire detection control and indicating equipment (ISO 7240-2:2017, MOD)

#### 1 Scope

This document specifies requirements, test methods and performance criteria for fire detection control and indicating equipment (FDCIE) for use in fire detection and fire alarm systems installed in buildings.

For the testing of other types of FDCIE, this document is intended to be used only for guidance. FDCIE with special characteristics, developed for specific risks, are not covered in this document.

#### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 7240-1:2014, *Fire detection and alarm systems — Part 1: General and definitions*

ISO 7240-4, *Fire detection and alarm systems — Part 4: Power supply equipment*

ISO 7240-14, *Fire detection and alarm systems — Part 14: Design, installation, commissioning and service of fire detection and fire alarm systems in and around buildings*

ISO 8201, *Acoustics — Audible emergency evacuation signal*

IEC 60068-1, *Environmental testing — Part 1: General and guidance*

IEC 60068-2-1, *Environmental testing — Part 2: Tests. Tests A: cold*

IEC 60068-2-6, *Environmental testing — Part 2: Tests. Test Fc: vibration (sinusoidal)*

IEC 60068-2-47, *Environmental testing — Part 2: Test methods — Mounting of components, equipment and other articles for vibration, impact and similar dynamic tests*

IEC 60068-2-75, *Environmental testing — Part 2: Tests — Test Eh: Hammer tests*

IEC 60068-2-78, *Environmental testing — Part 2-78: Tests — Test Cab: Damp heat, steady state*

IEC 60529, *Degrees of protection provided by enclosures (IP Code)*

IEC 60721-3-3, *Classification of environmental conditions — Part 3: Classification of groups of environmental parameters and their severities — Section 3: Stationary use and weather protected locations*

IEC 62591-2, *Alarm systems — Part 2: Electromagnetic compatibility — Immunity requirements for components of fire and security alarm systems*

#### 3 Terms, definitions and abbreviated terms

For the purposes of this document, the terms and definitions given in ISO 7240-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>