AS 7240.4—2004
(Incorporating Amendment No. 1)

AS 7240.4—2004

Australian STANDARD

Fire detection and alarm systems

Part 4: Power supply equipment (ISO 7240-4:2003, MOD)

STANDARDS Australia

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 1 December 2003.
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The following are represented on Committee FP-002:

- Audio Engineering Society
- Australasian Fire Authorities Council
- Australian Building Codes Board
- Australian Chamber of Commerce and Industry
- Australian Electrical and Electronic Manufacturers Association
- Australian Government Analytical Laboratories, Scientific Services Laboratory
- Australian Industry Group
- Australian Institute of Building Surveyors
- Deafness Forum of Australia
- Department of Defence (Australia)
- Fire Protection Association Australia
- Institute of Security Executives
- National Electrical and Communications Association
- Property Council of Australia

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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 4428.5—1998, *Fire detection, warning, control and intercom systems,* Part 5*: Power supply units*. The Committee intends to withdraw AS 4428.5—1998 five years after the publication of this Standard.

This Standard incorporates Amendment No. 1 (October 2016). 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.

This Standard has been adopted with national modifications and has been reproduced from ISO 7240-4:2003, *Fire detection and fire alarm systems,* Part 4*: Power supply equipment*. The
A1 national modifications are specified in Annex ZA. Annex ZB has been added to specify marking requirements that apply in addition to those in Clause 8 of the source text. Annex ZC provides an optional test for p.s.e. required to operate outside the range of 0°C to +40°C.

As this Standard is reproduced from an International Standard, the following applies:

(a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.

(b) In the source text ‘this International Standard’ should read ‘this Australian Standard’.

(c) A full point should be substituted for a comma when referring to a decimal marker.

A1 (d) p.s.e should be read as PSE and c.i.e should be read as CIE.

All optional functions specified in this Standard may be included in p.s.e. installed in Australia.

References to International standards should be replaced by references to Australian or Australian/New Zealand Standards as follows:

References to International Standard or other Publication			*Australian/New Zealand Standard*		
ISO			AS		
7240	Fire detection and alarm systems		7240	Fire detection and alarm systems	
7240-2	Part 2:	Control and indicating equipment	7240.2	Part 2:	Control and indicating equipment (ISO 7240-2:2003,MOD)
IEC			AS		
60068	Environmental testing		60068	Environmental testing	
60068-1	Part 1:	General and guidance	60068.1	General and guidance	
60068-2-1	Part 2:	Tests. Test A: Cold	60068.2.1	Tests — Test A: Cold	
60068-2-6	Part 2:	Tests. Test Fc: Vibration (sinusoidal)	60068.2.6	Tests — Test Fc: Vibration (sinusoidal)	
60068-2-47	Part 2:	Test methods—Mounting of components, equipment and other articles for vibration, impact and similar dynamic tests	60068.2.47	Test methods — Mounting of components, equipment and other articles for vibration, impact and similar dynamic tests	
60068-2-75	Part 2:	Tests. Test Eh: Hammer tests	60068.2.75	Tests — Test Eh: Hammer tests	
IEC			AS/NZS		
60950	Information technology equipment—Safety				
60950-1	Part 1:	General requirements	60950.1	Information technology equipment — Safety — General requirements	

The term ‘normative’ and ‘informative’ are used in this Standard to define the application of the annex to which they apply. A ‘normative’ annex is an integral part of a standard, whereas an ‘informative’ annex is only for information and guidance.

CONTENTS

INTRODUCTION

This part of ISO 7240 is drafted on the basis of mandatory functions, which are to be provided on all equipment, and optional (each with its own requirements). It is intended that the options be used for specific applications, as recommended in application guidelines.

Each optional function is included as a separate entity, with its own set of associated requirements, in order to permit equipment with many different combinations of functions to comply with this part of ISO 7240.

Other functions associated with fire detection and alarm can also be provided, even if not specified in this part of ISO 7240.

AUSTRALIAN STANDARD

Fire detection and alarm systems

Part 4: Power supply equipment (ISO 7240-4:2003, MOD)

1 Scope

This part of ISO 7240 specifies requirements, test methods and performance criteria for power supply equipment (p.s.e.) for use in fire detection and alarm systems installed in buildings.

It is not necessarily applicable to power supply equipment with special characteristics, developed for particular applications, which could require further tests.

2 Normative references

The following referenced documents are indispensable for the application 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 7240-1:1988, *Fire detection and alarm systems — Part 1: General and definitions*

ISO 7240-2:—[1)], *Fire detection and alarm systems — Part 2: Control and indicating equipment*

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

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

IEC 60068-2-3, *Environmental testing — Part 2: Tests. Test Ca: damp heat, steady state*

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 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 60950-1, *Information technology equipment — Safety — Part 1: General requirements*

EN 50130-4, *Alarm systems — Part 4: Electromagnetic compatibility — Product family standard: Immunity requirements for components of fire, intruder and social alarm systems*

1) To be published.

