

Australian Standard<sup>®</sup>

---

**Automatic fire detection and alarm  
systems**

**Part 5: Manual call points**

---

This Australian Standard was prepared by Committee FP/2, Automatic Fire Detection and Alarm Systems. It was approved on behalf of the Council of Standards Australia on 1 December 1995 and published on 5 February 1996.

---

The following interests are represented on Committee FP/2:

Audio Engineering Society  
Australian Building Codes Board  
Australian Chamber of Commerce and Industry  
Australian Chamber of Manufactures  
Asset Construction Services—Department of Administrative Services  
Australian Electrical and Electronic Manufacturers Association  
Australian Fire Authorities Council  
Australian Fire Protection Association  
Building Owners and Managers Association of Australia  
Commonwealth Fire Board  
CSIRO—Division of Building, Construction and Engineering  
Deafness Forum of Australia  
Department of Defence  
Fire Protection Industry Association of Australia  
Insurance Council of Australia  
National Electrical Contractors Association of Australia  
New Zealand Fire Equipment Association  
New Zealand Fire Protection Association  
New Zealand Fire Protection Industry Contractors Association  
Telstra

---

**Review of Australian Standards.** *To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.*

*Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.*

*Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.*

---

*This Standard was issued in draft form for comment as DR 95093.*

Australian Standard<sup>®</sup>

---

**Automatic fire detection and alarm  
systems**

**Part 5: Manual call points**

---

PUBLISHED BY STANDARDS AUSTRALIA  
(STANDARDS ASSOCIATION OF AUSTRALIA)  
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7337 0261 9

## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee on Automatic Fire Detection and Alarm Systems.

This Standard is the result of a consensus among representatives on the joint committee to produce it as an Australian Standard.

Alterations to the previous AS 1603.5 are as follows:

- (a) The application clause has been deleted and the reference to related Standards is given in this Preface.
- (b) Reference to AS 2484.1 has been added to the Definitions Clause.
- (c) Installation requirements are specified in AS 1670.
- (d) Control and indicating equipment requirements are specified in AS 1603.4.
- (e) Frangibility tests have been revised to meet the requirements specified in AS 2362.24.

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

### © Copyright — STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

## CONTENTS

|  | <i>Page</i> |
|--|-------------|
| SECTION 1 SCOPE AND GENERAL                        |             |
| 1.1 SCOPE .....                                    | 4           |
| 1.2 REFERENCED DOCUMENTS .....                     | 4           |
| 1.3 DEFINITIONS .....                              | 4           |
| SECTION 2 CONSTRUCTION AND MARKING                 |             |
| 2.1 GENERAL .....                                  | 5           |
| 2.2 CONSTRUCTION .....                             | 5           |
| 2.3 ENCLOSURES .....                               | 6           |
| 2.4 MARKING .....                                  | 6           |
| SECTION 3 PERFORMANCE REQUIREMENTS                 |             |
| 3.1 GENERAL .....                                  | 7           |
| 3.2 INSULATION RESISTANCE .....                    | 7           |
| 3.3 VOLTAGE STABILITY .....                        | 7           |
| 3.4 STATIC DISCHARGE .....                         | 7           |
| 3.5 ELECTROMAGNETIC INTERFERENCE .....             | 7           |
| 3.6 IMPULSE VOLTAGE WITHSTAND .....                | 7           |
| 3.7 HIGH-FREQUENCY DISTURBANCE .....               | 7           |
| 3.8 LOW-TEMPERATURE AND HEAT .....                 | 7           |
| 3.9 CORROSION .....                                | 8           |
| 3.10 VIBRATION .....                               | 8           |
| 3.11 IMPACT .....                                  | 8           |
| 3.12 WEATHERING .....                              | 8           |
| 3.13 OPERATION .....                               | 8           |
| 3.14 STRENGTH OF SCREW THREADS AND FIXINGS .....   | 9           |
| 3.15 FUNCTION INITIATION .....                     | 9           |
| 3.16 INDICATOR VISIBILITY .....                    | 9           |
| SECTION 4 ASSESSMENT OF COMPLIANCE                 |             |
| 4.1 GENERAL .....                                  | 10          |
| 4.2 INFORMATION FOR THE TESTING ORGANIZATION ..... | 10          |
| 4.3 POINT OF SALE INFORMATION .....                | 10          |
| 4.4 TEST SCHEDULE AND CRITERIA OF ACCEPTANCE ..... | 10          |
| 4.5 REPORTING .....                                | 10          |

Originated as part of AS 2036—1977.  
 Previous edition AS 1603.5—1991.  
 Second edition 1996.

Incorporating:  
 Amdt 1—1998

## STANDARDS AUSTRALIA

## Australian Standard

## Automatic fire detection and alarm systems

## Part 5: Manual call points

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE** This Standard specifies requirements for the design and performance of manually operated call points for use in fire detection and alarm systems.

**1.2 REFERENCED DOCUMENTS** The following documents are referred to in this Standard:

## AS

- |         |  |
|---------|--|
| 1939    | Degrees of protection provided by enclosures for electrical equipment (IP Code)  |
| 2362    | Automatic fire detection and alarm systems—Methods of test for actuating devices |
| 2362.4  | Method 4: Voltage stability test   |
| 2362.6  | Method 6: Static discharge test  |
| 2362.7  | Method 7: Electromagnetic interference test                                      |
| 2362.8  | Method 8: Impulse voltage withstand test   |
| 2362.9  | Method 9: High-frequency disturbance test  |
| 2362.10 | Method 10: Low temperature test  |
| 2362.11 | Method 11: Damp heat test  |
| 2362.12 | Method 12: Dry heat test   |
| 2362.13 | Method 13: Corrosion test  |
| 2362.15 | Method 15: Vibration test  |
| 2362.16 | Method 16: Impact test   |
| 2362.23 | Method 23: Weathering test   |
| 2362.24 | Method 24: Frangibility test   |
| 2362.25 | Method 25: Indicator visibility test   |
| 2484    | Fire—Glossary of terms   |
| 2484.1  | Part 1: Fire tests   |
| 2484.2  | Part 2: Fire protection and firefighting equipment                               |
| 2700    | Colour standards for general purposes  |
| 3000    | Electrical installations—Buildings, structures and premises                      |
| 3100    | Approval and test specification—General requirements for electrical equipment    |

**1.3 DEFINITIONS** For the purpose of this Standard, the definitions given in AS 2484.1, AS 2484.2, and the one below, apply.

**1.3.1 Frangible element**—an element, which is capable of being broken or appearing to be broken, forming part of the front cover of a manual call point.



SAI GLOBAL

This is a free 6 page sample. Access the full version online.

The remainder of this document  
is available for purchase online at

**[www.saiglobal.com/shop](http://www.saiglobal.com/shop)**

SAI Global also carries a wide range of publications from a wide variety of Standards Publishers:



Click on the logos to search the database online.