



## **Fire detection and alarm systems**

### **Part 16: Emergency warning control and indicating equipment**



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 13 July 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
  - Australian Institute of Building Surveyors
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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 Standards Australia Committee FP-002, Fire Detection, Warning, Control and Intercom Systems.

This Standard is based on ISO 7240-16:2007, *Fire detection and alarm systems, Part 16: Sound system control and indicating equipment*.

It is intended that this Standard be referenced in AS 1670.4, *Fire detection, warning, control and intercom systems—System design, installation and commissioning, Part 4: Sound systems and intercom systems for emergency purposes* and AS 1670.1, *Fire detection, warning, control and intercom systems—System design, installation and commissioning, Part 1: Fire*.

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

Notes used in this Standard, not associated with figures or tables, 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.

The term 'normative' and 'informative' are 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' annex is only for information and guidance.

## FOREWORD

Emergency warning control and indicating equipment (EWCIE) forms part of an emergency warning system (EWS). An EWS operates automatically or manually in a building or structure to alert occupants to a hazard, which may require their evacuation in a safe and orderly manner. Therefore, equipment to warn occupants is required to function after the hazard has been detected. Fire in a building is a common hazard, which is often detected by an automatic fire detection and alarm system. An EWS may operate as part of a fire detection and alarm system or may function in conjunction with other emergency detection systems, such as those for storms, earthquakes and bomb threats. The EWCIE may be a separate unit or may be physically combined with the fire detection control and indicating equipment (see AS 1670.1), or may also be combined with emergency intercom control and indicating equipment (EICIE) complying with AS 4428.4.

This Standard (AS 4428.16) is based on, ISO 7240-16, *Fire detection and alarm systems, Part 16: Sound system control and indicating equipment*, and is drafted on the basis of mandatory functions that are to be provided on all EWCIE, and optional functions (with requirements) which may be provided. Each optional function is included as a separate entity, with its own set of associated requirements, for each Grade of EWCIE specified in Appendix A to comply with this Standard. Other functions associated with an EWS may also be provided, even if they are not specified in this Standard.

The tests specified in this Standard subject the equipment to conditions likely to be met in practice, such as corrosion, vibration, direct impact, indirect shock and electromagnetic interference. Some tests are intended to assess the performance of the EWCIE under such conditions. The performance of the EWCIE is assessed from the results obtained in specific tests. This Standard is not intended to place any other restrictions on the design and construction of such equipment.

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