

Australian Standard™

**Fire detection, warning, control and
intercom systems—Control and
indicating equipment**

**Part 4: Intercommunication systems for
emergency purposes**

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 18 February 2004 and published on 22 April 2004.

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 Manufacturers Association
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Australian Institute of Building Surveyors
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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 2220.1—1989, *Emergency warning and intercommunication systems in buildings, Part 1: Equipment design and manufacturer*.

This Standard will be referenced in the Building Code of Australia 2004.

The objective of this Standard is to specify the equipment requirements for an intercommunications system used to assist in the safe evacuation of building occupants in the event of a fire alarm or other emergency.

Changes to this edition include the following:

- (a) Addition of the EMC test for telephone handset.
- (b) Stipulation of a maximum earpiece sound pressure level of 95dB(A).
- (c) Disallowance of direct calling between WIP phones, to enable the Chief Warden to stay in control during an incident.

Maintenance requirements for control and indicating equipment are given in AS 1851, *Maintenance of fire protection equipment*.

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An 'informative' appendix is only for information and guidance.

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STANDARDS AUSTRALIA

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for control and indicating equipment (CIE) used in intercommunication systems.

1.2 APPLICATION

The requirements of this Standard apply to the CIE in an intercommunication system installed in accordance with AS 1670.4.

The Standard is also applicable where the CIE is interfaced with a building management and control system or is linked to ancillary equipment.

1.3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1670	Fire detection, warning, control and intercom systems—System design, installation, and commissioning
1670.4	Part 4: Sound systems and intercom systems for emergency purposes
2484	Fire—Glossary of terms
2484.2	Part 2: Fire detection and firefighting equipment
2706	Numeric values—Rounding and interpretation of limiting values
4428	Fire detection, warning, control and intercom systems—Control and indicating equipment
4428.0	Part 0: General requirements and methods of test
4428.5	Part 5: Power supply units
60319	Sound system for emergency purposes
AS/NZS	
1591	Acoustics—Instrumentation for audiometry
1591.5	Wide band artificial ear
3100	Approval and test specification—General requirements for electrical equipment
AS/ACIF	
S004	Voice frequency performance requirements for Customer Equipment