

Australian Standard™

Fire detection and alarm systems

Part 21: Routing equipment

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 8 November 2005.
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Part 21: Routing equipment

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PREFACE

This Standard was prepared by the Standards Australia Committee FP-002, Fire Detection, Warning, Control and Intercom Systems.

This Standard is identical with and has been reproduced from ISO 7240-21:2005, *Fire detection and alarm systems—Part 21: Routing equipment*.

Variations to ISO 7240-21:2005 are indicated at the appropriate places throughout this Standard. Strikethrough (~~example~~) identifies ISO text, tables and figures, which, for the purposes of this Australian Standard, are deleted. Where text, tables or figures are added, each is set in its proper place and identified by shading (example). Added figures are not themselves shaded, but are identified by a shaded border.

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- (b) In the source text, 'this part of ISO 7240' should read 'this part of AS 7240'.
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The terms 'normative' and 'informative' are used 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.

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INTRODUCTION

This part of ISO 7240 combines the requirements for both fire-alarm routing (transmitting) equipment (ISO 7240-1:—, Figure 1, item E) and fault (trouble) warning routing equipment (ISO 7240-1:—, Figure 1, item J) into a single equipment Standard.

Routing equipment receives signals from control and indicating equipment (ISO 7240-1:—, Figure 1, item B) and sends fire alarm signals to a fire-alarm receiving station (ISO 7240-1, Figure 1, item F) and fault signals to a fault warning (trouble signal) receiving station (ISO 7240-1, Figure 1, item K). The receiving stations may be in the same or different locations.

This part of ISO 7240 describes the mandatory functions which are required to be provided on all routing equipment covered by this part of ISO 7240, and optional functions with their associated requirements. It is intended that the options will 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 routing equipment covered by this document with different combinations of functions to conform to this part of ISO 7240. Routing equipment complying with this part of ISO 7240 will need to fulfil requirements of all of the mandatory functions, together with the requirements of those optional functions which are provided.

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Any table, figure or text of the international standard that is struck through is not part of this standard. Any Australian/New Zealand table, figure or text that is added is part of this standard and is identified by shading.

1 Scope

This part of ISO 7240 specifies requirements, methods of test, and performance criteria for fire alarm routing (transmitting) equipment (ISO 7240-1:—, Figure 1, item E) and for fault (trouble) warning routing equipment (ISO 7240-1:—, Figure 1, item J) for use in fire detection and fire alarm systems installed in buildings.

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.

References to international standards that are struck through in this clause are replaced by references to Australian or Australian/New Zealand Standards that are included immediately thereafter and identified by shading. Any Australian or Australian/New Zealand Standard that is identical to the International Standard it replaces is identified as such.

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

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

AS 7240.4, Fire detection and alarm systems — Part 4: Power supply equipment (ISO 7240-15, 2004, MOD)

~~IEC 60068-1:1990-05, Environmental testing — Part 1: General and guidance~~

AS 60068.1, Environmental testing — Part 1: General and guidance

~~IEC 60068-2-1, Environmental testing — Part 2: Tests. Tests A: Cold~~

AS 60068.2.1, Environmental testing — Part 2.1: Tests—Test A: Cold

~~IEC 60068-2-3, Environmental testing — Part 2: Tests. Test Fc: vibration (sinusoidal)~~

AS 60068.2.6, Environmental testing — Part 2.6: Tests—Test Fc: Vibration (sinusoidal)

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

AS 60068.2.47, Environmental testing — Part 2.47: Tests—Mounting of components, equipment and other articles for vibration, impact and similar dynamic tests

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

AS 60068.2.75, Environmental testing — Part 2.75: Tests—Test Eh: Hammer tests

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