

AS 4428.6:2024



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

Part 6: Alarm signalling equipment



AS 4428.6:2024

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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 4428.6:2018.

The objective of this document is to specify the minimum equipment requirements for alarm signalling equipment (ASE) for use in monitoring automatic fire detection and alarm system.

This edition includes the following changes:

- (a) Minimum performance requirements for ASE with the SDI requirements of the AS 7240 series.
- (b) Allows new telecommunications technologies to be utilized.
- (c) The test condition has been modified so that only one connection can be placed in test mode.

The terms “normative” and “informative” are used in Standards (and related publications) to define the application of the appendices to which they apply. A normative appendix is an integral part of a Standard, whereas an informative appendix is only for information and guidance.

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Australian Standard®

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

Part 6: Alarm signalling equipment

1 Scope and general

1.1 Scope

This document specifies requirements, methods of test, and performance criteria for alarm signalling equipment (ASE) for use in fire detection and alarm systems (FDAS) installed in buildings. This document applies to all ASE that receives signals from FDAS and transmits the information to a monitoring centre, as defined by AS 1670.3.

[Figure 1](#) illustrates the location of an ASE in a fire alarm monitoring system and displays the transmission path that connects the FDAS to the ASE and the telecommunications path that connects the ASE to the monitoring centre. These are the terms used when assessing for conformity to this Standard.

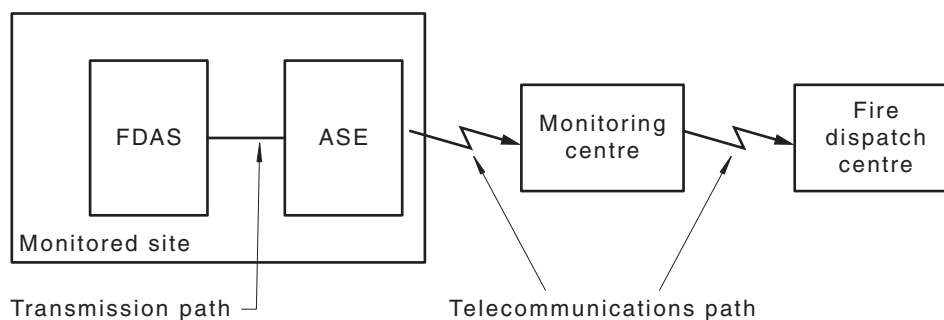


Figure 1 — Block diagram of fire alarm monitoring system

1.2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document:

NOTE Documents for informative purposes are listed in the Bibliography.

AS 4428, *Fire detection, warning, control and intercom systems — Control and indicating equipment (series)*

AS 60068.1, *Environmental testing, Part 1: General and guidance (IEC 60068-1:2013 (ED. 7.0) MOD)*

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

AS 60068.2.2, *Environmental testing, Part 2.2: Tests — Test B: Dry heat (IEC 60068-2-2:2007 (ED. 5.0) MOD)*

AS 60068.2.6, *Environmental testing, Part 2.6: Tests — Test Fc: Vibration (sinusoidal) (IEC 60068-2-6:2007 (ED. 7.0) MOD)*

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

AS 60068.2.75, *Environmental testing, Part 2.75: Tests — Test Eh: Hammer tests (IEC 60068-2-75:2014 (ED. 2.0) MOD)*

AS 60068.2.78, *Environmental testing, Part 2.78: Tests — Test Cab: Damp heat, steady state (IEC 60068-2-78:2012 (ED. 2.0) MOD)*