



Automatic fire detection and alarm systems

Part 11: Visual warning devices



AS 1603.11:2018

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- Australian Chamber of Commerce and Industry
- Australian Industry Group
- Australian Institute of Building Surveyors
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- Department of Health and Human Services (VIC)
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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 1603.11—2010.

The objective of this Standard is to provide manufacturers and designers of fire detection and alarm systems with requirements for the design and performance of visual warning devices intended to provide supplementary information in fire detection, warning, control and intercom systems.

This Standard differs from the last edition in the following ways:

- (a) The section on strobes has been removed. Strobe lights for fire alarm applications have been replaced by visual alarm devices in AS ISO 7240.23.
- (b) This Standard covers text displays only.
- (c) Environmental tests have been aligned with AS/AS ISO 7240 series Standards.

Each optional function is included as a separate entity, with its own set of associated requirements, in order to permit visual warning devices with many different combinations of functions to conform to this Standard.

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Australian Standard®

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Section 1 Scope and general

1.1 Scope

This Standard specifies requirements, test methods and performance criteria for Visual Warning Devices (VWD) connected to a transmission path of a fire detection and alarm system.

1.2 Application

Visual warning devices (VWD) may be used to provide supplementary information to Visual Alarm Devices (VAD) or Audible Alarm Devices (AAD). This may include signals to hearing impaired persons, persons occupying high ambient noise environments, and persons in environments where audible alarms may have an adverse effect (e.g. hospital wards, broadcast studios). VWD are also required to be used in special hazards applications installed to AS 1670.5 specifications.

1.3 Normative references

The following are the normative reference documents in this Standard.

AS 4428.16, *Fire detection and alarm systems, Part 16: Emergency warning control and indicating equipment*

AS 60068.2.5, *Environmental testing, Part 2.5: Tests — Test Sa: Simulated solar radiation at ground level*

AS ISO 7240.1, *Fire detection and alarm systems, Part 1: General and definitions*

AS 7240.2, *Fire detection and alarm systems, Part 2: Fire detection control and indicating equipment (ISO 7240 2:2017, MOD)*

AS ISO 7240.18, *Fire detection and alarm systems, Part 18: Input/output devices*

AS ISO 7240.23, *Fire detection and alarm systems, Part 23: Visual alarm devices*

IEC 60529, *Degrees of protection provided by enclosures (IP Code)*

IEC 60695-11-10, *Fire hazard testing — Part 11-10: Test flames — 50 W horizontal and vertical flame test methods*

IEC 60695-11-20, *Fire hazard testing — Part 11-20: Test flames — 500 W flame test method*

IEC 62599-2, *Alarm systems — Part 2: Electromagnetic compatibility — Immunity requirements for components of fire and security alarm systems*

1.4 Terms and definitions

The terms and definitions given in AS ISO 7240.1 and the following apply.

1.4.1

internally illuminated, fixed message type visual warning device

device illuminated by an internal light source in the alarm mode, to reveal an instructional message

1.4.2

programmable message type visual warning device

programmable device that displays a visual warning in a format that carries a message recognizable by the target occupants, using language characters or Australian or International Standard symbols