

Australian Standard[®]

**Automatic fire detection and alarm
systems**

**Part 8: Multi-point aspirated smoke
detectors**

This Australian Standard was prepared by Committee FP/2, Automatic Fire Detection and Alarm Systems. It was approved on behalf of the Council of Standards Australia on 6 December 1995 and published on 5 February 1996.

The following interests are represented on Committee FP/2:

Audio Engineering Society
Australian Building Codes Board
Australian Chamber of Commerce and Industry
Australian Chamber of Manufactures
Australian Construction Services—Department of Administrative Services
Australian Electrical and Electronic Manufacturers Association
Australian Fire Authorities Council
Australian Fire Protection Association
Building Owners and Managers Association of Australia
Commonwealth Fire Board
CSIRO—Division of Building, Construction and Engineering
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee on Automatic Fire Detection and Alarm Systems and has been produced to augment the existing AS 1603 series of product standards which have not, until now, made an allowance for aspirated smoke detector systems.

This Standard is the result of a consensus among representatives on the joint committee to produce it as an Australian Standard.

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STANDARDS AUSTRALIA

Australian Standard

Automatic fire detection and alarm systems

Part 8: Multi-point aspirated smoke detectors

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard specifies requirements for the design, construction and performance of aspirated system type smoke detectors used in automatic fire detection and alarm systems. This Standard covers multi-point aspirated systems and their associated detector and control facilities. Single-point detectors installed with probes in air-handling ducts are not included.

NOTE: Some of the requirements of this Standard are more onerous than those nominated in AS 1603.2 point-type smoke detectors as one multi-point aspirated detector can be installed to cover the total area nominated for one AZF in AS 1670.

1.2 APPLICATION This Standard applies to smoke detectors intended for installation in accordance with AS 1670 and connected to control and indicating equipment in accordance with AS 1603.4.

1.3 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

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| 1159 | Polyethylene pipes for pressure applications |
| 1319 | Safety signs for the occupational environment |
| 1603 | Automatic fire detection and alarm systems |
| 1603.2 | Part 2: Point type smoke detectors |
| 1603.4 | Part 4: Control and indicating equipment |
| 1670 | Automatic fire detection and alarm systems—System design, installation and commissioning |
| 2053 | Non-metallic conduits and fittings |
| 2211 | Laser safety |
| 2362 | Automatic fire detection and alarm systems—Methods of test for actuating devices |
| 2362.4 | Method 4: Voltage stability test |
| 2362.5 | Method 5: Insulation resistance test |
| 2362.6 | Method 6: Static discharge test |
| 2362.7 | Method 7: Electromagnetic interference test |
| 2362.8 | Method 8: Impulse voltage withstand test |
| 2362.9 | Method 9: High frequency disturbance test |
| 2362.10 | Method 10: Low temperature test |
| 2362.11 | Method 11: Damp heat test |
| 2362.12 | Method 12: Dry heat test |
| 2362.13 | Method 13: Corrosion test |
| 2362.15 | Method 15: Vibration test |