Australian Standard®

Automatic fire detection and alarm systems

Part 13: Duct sampling units

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee FP/2, Fire Detection, Warning, Control and Intercom Systems, to provide performance requirements for duct sampling units for use in fire detection systems complying with the requirements of AS 1670.1, *Automatic fire detection and alarm systems—System design, installation and Commissioning*, Part 1: *Fire*, or in smoke management systems as required by AS 1668.1, *The use of mechanical ventilation and air-conditioning in buildings*, Part 1: *Fire and smoke control* and is the result of a consensus among representatives on the Joint Committee to produce it as an Australian Standard.

The term 'normative' has been used in this Standard to define the application of the appendix to which it applies. A 'normative' appendix is an integral part of a Standard.

The objective of this Standard is to provide designers and the manufacturers of duct sampling units with requirements for the design, construction and performance of duct probe assemblies and their associated, or integral smoke detectors.

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1.1 SCOPE This Standard specifies requirements for the design, construction and performance of duct sampling units (DSU), as used in automatic fire detection and alarm systems.

1.2 APPLICATION This Standard applies to DSUs intended for installation in accordance with AS 1670.1 and AS 1668.1, connected to control and indicating equipment (CIE) complying with AS 4428.1.

1.3 CLASSIFICATION Duct sampling units shall be classified in accordance with their nominal sensitivity and minimum duct air velocity.

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

AS

1668 The use of mechanical ventilation and air-conditioning in buildings
1668.1 Part 1: Fire and smoke control

1670 Fire detection, warning, control and intercom systems—System design, installation and commissioning
1670.1 Part 1: Fire

1939 Degrees of protection provided by enclosures for electrical equipment (IP Code)

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