Australian Standard®

Fire detection, warning, control and intercom systems—System design, installation and commissioning

Part 3: Monitoring network performance

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This Australian Standard was prepared by Committee FP/2, Fire Detection, Warning, Control and Intercom Systems. It was approved on behalf of the Council of Standards Australia on 6 December 1996 and published on 5 February 1997.

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Australian Building Codes Board

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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.

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

This Standard sets down minimum performance requirements for a network used to monitor automatic fire detection and alarm systems using the communications protocol defined in AS 4418.2, *Supervisory control and data acquisition (SCADA)—Generic telecommunications interface and protocol*, Part 2: *Fire alarm systems*. This Standard has been published for the use of equipment manufacturers and monitoring service providers in the fire industry; however, other industry groups may find the performance requirements applicable.

AS 4418.2 has been prepared to be consistent with requirements developed by IEC and published in the IEC 870 series of International Standards, *Telecontrol equipment and systems*.

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An 'informative' appendix is only for information and guidance.

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CONTENTS

Page

SECTION 1 SCOPE AND GENERAL
1.1 SCOPE 4
1.2 APPLICATION 4
1.3 REFERENCED AND RELATED DOCUMENTS 4
1.4 DEFINITIONS 5

SECTION 2 PERFORMANCE REQUIREMENTS
2.1 GENERAL 6
2.2 NON-PERMANENTLY CONNECTED CONTROLLED STATIONS 6
2.3 PERMANENTLY CONNECTED CONTROLLED STATIONS 6
2.4 MULTIPLE STATUS CHANGES 7

APPENDIX A SYSTEM OVERVIEW 8

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Australian Standard

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard sets out performance requirements for fire alarm monitoring networks using the telecommunications protocol defined in AS 4418.2.

1.2 APPLICATION The performance requirements of this Standard are applicable to supervisory control and data acquistion (SCADA) networks for fire alarm monitoring applications.

NOTE: See Appendix A for system overview.

The performance requirements for both permanently connected controlled stations and non-permanently connected controlled stations are specified.

NOTE: Non-permanently connected controlled stations are not considered adequate for installations required to be monitored under the Building Code of Australia.

1.3 REFERENCED AND RELATED DOCUMENTS

1.3.1 Referenced documents The following documents are referred to in this Standard:

AS
2484 Fire—Glossary of terms
2484.2 Part 2: Fire protection and firefighting equipment

AS/NZS
4418 Supervisory control and data acquisition—Generic telecommunications interface and protocol
4418.2 Part 2: Fire alarm systems

IEC
870 Telecontrol equipment and systems
870-4 Part 4: Performance requirements
870-5-5 Part 5: Transmission protocols—Section 5: Basic application functions

1.3.2 Related documents Attention is drawn to the following related documents:

IEC
870 Telecontrol equipment and systems
870-1-1 Part 1: General considerations—Section 1: General principles
870-1-2 Part 1: General considerations—Section 2: Guide for specifications
870-1-3 Part 1: General considerations—Section 3: Glossary
870-1-4 Part 1: General considerations— Section 4: Basic aspects of telecontrol data transmission and organization of standards IEC 870-5 and IEC 870-6

IEC
870-2-1 Part 2: Operating conditions—Section 1: Environmental conditions and power supplies
870-3 Part 3: Interfaces (electrical characteristics)

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