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ACTIVFIRE®
ACTIVE FIRE PROTECTION – PRODUCT CERTIFICATION

Certificate of Conformity

Certificate num.	Registration date	Version		Valid until	
		Number	Issue date		
afp - 1446	18-Jul-2001	25	3-Apr-2024	30-Apr-2025	Page **1** of **18**

Product designation

Tyco, Model MX4428, collective/addressable control and indicating equipment

(Refer to the Schedule/enclosures for further specified details)

Agent/distributor

Johnson Controls Fire Detection Products
Level 3, 37 Dalmore Drive, Carribbean Park, SCORESBY, VIC, AUSTRALIA, 3179

Registrant

Johnson Controls Fire Detection
17 Mary Muller Drive, Hillsborough, Christchurch, NEW ZEALAND, 8022

Producer

Johnson Controls Fire Detection
17 Mary Muller Drive, Hillsborough, Christchurch, NEW ZEALAND, 8022

Conformance criteria and evaluation

The Tyco, Model MX4428, collective/addressable control and indicating equipment has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 4428.1-1998, 'Fire detection, warning, control and intercom systems - Control and indicating equipment - Fire' incl. Amdt 1 (30 April 2004).
2. Australian Standard AS 4428.5-1998, 'Fire detection, warning, control and intercom systems - Control and indicating equipment - Power supply units' incl. Amdt 1 (4 October 2002).

Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are derived from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Specified limitations/conditions, determined from the evaluation for conformity, include the following.
Specified limitations/conditions, determined from the evaluation for conformity, include the following.

i. The maximum number of AARs/MPRs that can be wired on a responder loop is 32. The maximum number of MXPs that can be wired on a responder loop is 16. The maximum number of ADU004As on each analogue loop is 40.

ii. Compatibility of this equipment with new or existing actuating devices should be verified prior to installation.

iii. The maximum number of MX4428 panels that can be networked together is 50.

Issued by

Kai Loh
Executive Officer – ActivFire Scheme

This certification is issued within the scope of CSIRO Verification Services – Rules governing ActivFire Scheme and is valid only for the product(s) as submitted for evaluation and verification of conformity, subject to the following conditions.

- Reference to details, limitations and requirements, where documented as a schedule/enclosure with this certificate.
- The Registrant is responsible for their attestation of conformity and ensuring that on-going production complies with the conformance criteria defined in this certificate.
- This certificate will not be valid if any changes or modifications are made to the product which have not been notified and validated by CSIRO Verification Services.
- This certificate is subject to periodical re-validation upon verification that all requirements, as determined by the conformity assessment body, continue to be satisfactorily met by the Registrant.
- This certificate may only be reproduced in its published form, without modification and inclusive of all schedules/enclosures.
- Any changes, errors or omissions, must be submitted in writing and if necessary or requested, substantiated with relevant evidence.
- Any representations, such as advertising or other marketing related activities or articles shall reflect the correct contents of this certificate and conform with all relevant trade practices .and consumer protection legislation and regulations.
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The validity and authenticity of this certificate can be verified by the certification register located at https://activfire.csiro.au

Producer's description

The Tyco, MX4428 is an enhanced version of the previously listed Tyco F4000 Series control and indicating equipment. It incorporates a membrane keyboard and LCD display arranged as an AS 4428.1-1998 Firefighting Facility (FF), and it supports the MXP responder and MX range of analogue addressable detectors and devices.

The Tyco, Model MX4428, collective/addressable control and indicating equipment communicates via a 4 Wire bi directional loop with a maximum of 127 Responders that may include Advanced Detector Responders (ADRs), Input/Output Responders (IORs), Analogue Addressable Responders (AARs), MX Protocol Responders (MXPs), and/or Multi Protocol Responders (MPR). It monitors up to 4 input and 4 output circuits per ADR, up to 32 per IOR.

Each MXP/MPR/AAR Responder also communicates bi directionally over an “Analogue Loop” which supports up to 200 Addressable, Analogue points (detectors/devices).

The MX4428 indicates up to 528 alarm zones, in modules of 16, with individual alarm, fault and isolate indications per zone. The number of zones supported by one panel is limited by the rating of the power supply fitted. Limitations on the number and types of compatible detectors are detailed in the References.

The RZDU Bus allows connection of up to 8 Remote Zone Display Units (RZDUs) to be used for repeater indicators. RZDUs include the Slimline RDU and two versions of Alarm Display Unit (ADU) i.e. NSA (Nurse Station Annunciator), and Compact FF (Firefighter Facility). There is also provision for a VDU/Printer Port for data access.

Network kits are available that allow interconnection of up to 50 MX4428 or F4000 panels, F3200 series panels, Protocol Translation Modules (PTMs), Network Display Units (NDUs), ADUs, and other Tyco Panel-link compatible products. The PTM consists of a PTM controller and network communications device and is used for interfacing to external equipment such as a printer or colour graphics display system. One network kit includes a Vigilant RS485 Comms Board, and allows a network of duplicated RS485 links that is limited to a maximum size of 32 panels. Another includes a Vigilant I-Hub communications module and allows the formation of a ring of RS485 links over copper wire pairs, or over fibre optic cables with OEM fibre optic modems.

IP Networking in a ring is available using the Vigilant PIB (Panel-Link IP Bridge) and Moxa brand Ethernet switches, over fibre-optic cables. A fibre link can be replaced by a copper wire pair and a pair of Ethernet Extenders.

The Alarm Acknowledgment Module (AAM), Models AAM2 and AAM4, may be optionally fitted to the MX4428. They are designed to allow the resident of a Sole Occupancy Unit to acknowledge a false alarm and clear the cause of the alarm before the Fire Brigade is called. The AAM2 is designed for use where a detector is fitted to a sounder base.

Technical specification

The following details are a representative extract of the technical specification for the Tyco, Model MX4428, collective/addressable control and indicating equipment and may be subject to change. Complete and current details should be determined from the designated producer’s technical manual/data sheets.

Schedule of components and/or assemblies

The following are schedules of validated components and/or assemblies of the certified/listed equipment.

Power supplies:

Model:	**FP0474/FP0825**
1901-2/C Power Supply (2.5 A)	
Battery Charger (2.86 A):	Constant potential 27.3 Vdc
Model:	**PSU2406F**
Power Supply (6A)	
Battery Charger (6-I_QA)	Constant potential 27.1 Vdc
Model:	**PSU2412F**
Power Supply (12A)	
Battery Charger (12-I_QA)	Constant potential 27.1 Vdc
Model:	**ME076**
Power Supply (6A)	
Battery Charger (12-I_QA)	Constant potential 27.3 Vdc

Modules - current consumption:

Standard Modules	Quiescent	Alarm
IOR	8.5 mA - Add 0.3 mA for each output turned on plus relay coil and external loading. Operating voltage 17 V to 28 V.	n/a
AAR	100mA max, Operating Voltage = 17-30 Vdc	n/a
MPR	100mA max, Operating Voltage = 17-30 Vdc	
ADR	8.5 - 35 mA, Operating Voltage = 17 - 30 Vdc	88 mA
MXP	230 mA Max, Operating Voltage = 17 - 30 Vdc	n/a

Alarm Acknowledgment Modules (Evaluated for conformity with Test Specification FTS-136)

Specification	AAM4	AAM2
Operating voltage	18 to 28 Vdc	2 to 28 Vdc
Quiescent current	0 µA	0 µA
Alarm current	23 mA maximum	2-20 mA (may require external resistor)
Remote indicator	Tyco E500 Mk2	
Operating temperature	-5°C to +45°C	-5°C to +45°C
Operating humidity	95% R.H. (non-condensing)	95% R.H. (non-condensing)
Weight	200 g	100 g

Schedule of components and/or assemblies

The following is a schedule of validated components and/or assemblies of the certified/listed equipment.

Module	Assembly number	Rev.	PCB number	Iss.	Technical drawing	Iss.
F4000 RZDU PA0458	1901-28	B/5	1901-28	B	1901/28	5
Main Board PA0451	1901-12	C/8	1901-12	C	1901-12	8
Main Board PA1051	1901-12	E/17	1901-12	E	1901-12	17
Keyboard PA0450	1901-3	A/1/4	1901-3	A	1901-3	A
Display Board PA0454	1901-25-1	E/4	1901-25	E	1901-25-1	4
MX1 Display Board PA1020	1982-3	C/3	1982-3	C	1982-3	3
ADR FP 2.5mA PA0452	1901-14	D/4	1901-14	D	1901-14	4
ADR 4mA PA0497	1901-116	G/4	1901-116	G	1901-116	4
ADR 4mA 15V MCP PA0815	1901-198	G/6	1901-198	G	1901-198	6
RRM ADR Relay Board PA0453	1901-15	F/5	1901-15	F	1901-15	5
F4000 LCD Keyboard PA0485	1901-108	A/2	1901-108	A	1901-108	2
F4000 Memory LCD PA0482	1901-102	E/6	1901-102	E	1901-102	6
16 Relay Board PA0470	1901-64-1	B/1	1901-64-1	B	1901-64-1	1
Loop Booster PA0463	1901-35	P2/8	1901-35	P2	1901-35	8
Input/Output Responder IOR PA0473	1901-72	C/10	1901-274	C	1901-274	10
32 Way Input Termination Bd PA0474	1901-73-1	E/4	1901-73-1	E	1901-73	4
32 Way Output Term Bd PA0475	1901-73-2	E/4	1901-73-2	E	1901-73	4
16-Way Input Termination Bd PA0479	1901-73-1	E/4	1901-73-1	E	1901-73	4
16-Way Output Term Board PA0480	1901-73-2	E/4	1901-73-2	E	1901-73	4
Power Supply PA0449	1901-2	E/5	1901-2	E	1901-2	5
AAR PA0462	1901-53	2	1901-53	P1	1901-53	2
MPR PA0713	1901-141	E/17	1901-141	E	1901-141	17
MXP PA0893	1901-213	D/6	1901-213	D	1901-213	6
F4000 Display Keyboard PA0890	1901-211	D/3	1901-211	D	1901-211	3
Microprocessor Module PA0906	1901-210	B/1	1901-210	B	1901-210	1
RS485 Board PA0773	1901-139	D/6	1901-139	D	1901-139	6
F4000 Current Detector Adaptor			DCA-001	1	DCA-001	1
Alarm Acknowledgment Module (AAM4)	1901-238	A/1	1901-238	3	1901-238	1
Alarm Acknowledgment Module (AAM2)	ME0420 FA2318				1974-18	B
I-Hub Network Interface Module PA0839	ECM9603	B/3	ECM9603	B	ECM9603	3
PIB Board PA1091	1963-214	G/1	1963-114	G	1963-214	1
Fibre Optic Modem	OSD139					

Schedule to
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Module	**Assembly number**	Rev.	**PCB number**	Iss.	**Technical drawing**	Iss.
Ethernet Switch MM fibre Moxa EDS-405A-MM-SC						
Ethernet Switch SM fibre Moxa EDS-405A-SM-SC						
Ethernet SHDSL Extender Westermo DDW-120						
PSU2406F 'brick' (ME0334) Monitor/Mains Termination Board	PA0811		1966-1-1	B	1966-1-1 Sht 1	3
PSU2406F 'rack mounting' (ME0340) Monitor/Mains Termination Board	PA0811		1966-1-1	B	1966-1-1 Sht 1	3
PSU2412F 'rack' mounting' (ME0343) Monitor /Mains Termination Board	PA0813		1966-1-2	B	1966-1-2 Sht 1	3
PSU2406 ME0476	PA1073	D/4	1966-87	D	1966-1-3	4
Powerbox Switching PSU	ME0332					

EPROMS			
IOR (SF0123)	V2.01	**ADR Board (SF0192)** IC7 705C8 p	V2.22 C$0898
F4000 Master (non LCD) SF0076 U1 U7	 V1.37 C$C8FD C$5F64	**MX4428 Master** SF0349 U1 U7	 V3.23N C$8573 C$BCE4
RZDU	V1.13 KD$96E6	**MPR**	V2.11 A$0F84
MXP SF0250	V1.20 K$DE61	**F4000 LCD SF0161** U1 U7	 V2.39N V2.39N

Power supply software:	
SF0189 U1	Ver. 1.6
SF0445 U1	Ver. 1.2

Actuating devices

Device	Max. number of devices allowed per ADR 1901-14-B AZF 2.5 mA and 39 kΩ EOLR	Reference
Hochiki, DCA-B-60R Mk V, Heat Type A	40*	F316, April 1990, AS 1603.4-1987 inc. amdt 1 & 2
Hochiki, DCA-B-90R Mk I, Heat Type C	40*	
Hochiki, DFE-60B, Heat Type B	40*	
Hochiki, DFE-90D, Heat Type D	40*	
The above detectors with Hochiki YBC-RL/4AH4 base		
Hochiki, HF-24A Mk I, Ultra-violet Flame	3	
Hochiki, SIF-A Mk I, Smoke Ionisation	40*	
Hochiki, SIH-A, Smoke Ionisation	40*	
Hochiki, SLG-A Mk I, Smoke Photoelectric	40*	
Hochiki, SLK-A, Smoke Photoelectric	40*	
The above detectors with Hochiki YBC-RL/4AH4 base		
Olsen, B111B, Beam Smoke	40*	
Olsen, C23B, Smoke Ionisation	40*	XB1045, March 1993, Compatibility Assessment
Olsen, C24B, Smoke Ionisation	40*	
The above detectors with Olsen Z54B or Z54B Mk2 base		
Olsen, C24B, Smoke Ionisation	40*	XF1457/R3, October 2000, Compatibility Assessment
Olsen, C29B, Smoke Ionisation	40*	
The above detectors with Olsen Z500 base & Tyco/Olsen E500 Mk 2 remote indicator		
Olsen, C29B, Smoke Ionisation	40*	F316, April 1990, AS 1603.4-1987 inc. amdt 1 & 2
Olsen, C29BEx, Smoke Ionisation	40*	
The above detectors with Olsen Z54B or Z54B Mk2 base		
Olsen, C75B, Smoke Ionisation	40*	F316, April 1990, AS 1603.4-1987 inc. amdt 1 & 2
Olsen, Fire Wire (BICC) FW81B, Heat Type E	1000m	
Olsen, P136, Duct Sampling Unit	5	XF1930, September 2002, AS 4428.1 - 1998
Olsen, P24B Smoke Photoelectric *with Olsen Z54B or Z54B Mk2 base*	25	F316, April 1990, AS 1603.4-1987 inc. amdt 1 & 2
Olsen, P24B, Smoke Photoelectric *with Olsen Z500 base*	25	XF1457/R2, November 1998 Compatibility Assessment
Olsen, P24B, Smoke Photoelectric *with Olsen Z500 base & Tyco/Olsen E500 Mk 2 remote indicator*	21	
Olsen, P29B, Smoke Photoelectric *with Olsen Z54B or Z54B Mk2 base*	20	F316, April 1990, AS 1603.4-1987 inc. amdt 1 & 2
Olsen, P61B (Rev J), Smoke Photoelectric	10	
Olsen, P75B, Smoke Photoelectric	40*	
Olsen, P76B, Smoke Photoelectric *with Olsen Z72 base*	18	XB1045, March 1993, Compatibility Assessment
Olsen, R23B, Infra-red Flame	19	F316, April 1990, AS 1603.4-1987 inc. amdt 1 & 2
Olsen, R24BEx, R24B Infra-red Flame	3	
Olsen,T54B, Probe Heat Type E	40*	
Olsen, T56B, Heat Type A,B,C or D *with Olsen Z51B, Z54B or Z54B Mk2 base*	40*	
Olsen, T56B, Heat Type A,B,C or D *with Olsen Z56 base*	40*	XB1246, November 1993, Compatibility Assessment
Olsen, T56B, Heat Type A,B,C or D *with Olsen Z500 base & Tyco/Olsen E500 Mk 2 remote indicator*	40*	XF1457/R3, October 2000 Compatibility Assessment
Olsen, V41B/V42B, Ultra-Violet Flame	40*	F316, April 1990, AS 1603.4-1987 inc. amdt 1 & 2
Olsen, C24B, Smoke Ionisation	4	XF1457/R3, October 2000, Compatibility Assessment
Olsen, C29B, Smoke Ionisation	2	
Olsen, P24B, Smoke Photoelectric	1	
Olsen, T56B, Heat Type A,B,C or D	40*	

* Maximum number of detectors per AZF/AZC allowed by code.

Device	Max. number of devices allowed per AZF 2.5 mA and EOL Active Type	Reference
Minerva, MD614, Heat Type A	40*	XF1875/R1, May 2002 AS 4428.1-1998 Compatibility Assessment
Minerva, MD614, Heat Type C	40*	
Minerva, MF614, Smoke Ionisation	25 *(Note1)*	
Minerva, MR614, Smoke Photoelectric	25 *(Note1)*	
Minerva, MR614T, Smoke Photoelectric	21	
Minerva, MU614, Carbon Monoxide	40* *(Note1)*	
Tyco, 614CH, CO and Heat	1 *(Note1)*	PHG0055 XF2125 Tyco compatibility review, AS 4428.0–1997
Tyco, 614I, Ionisation Smoke	1 *(Note1)*	
Tyco, 614P, Photoelectric Smoke	1 *(Note1)*	
The above detectors with models Tyco 5B orTyco/Minerva MUB/M614 base		

Note 1: LED pulsing on alarm must be on to ensure LED blink is seen in alarm

* Maximum number of detectors per AZF/AZC allowed by code.

Device	Max. number of devices allowed per AZF 2.5 mA and 39 kΩ EOLR	Reference
Minerva, MD614, Heat Type A	2	XF1875/R1, May 2002 AS 4428.1-1998 Compatibility Assessment
Minerva, MD614, Heat Type C	2	
Minerva, MF614, Smoke Ionisation	1 *(Note1)*	
Minerva, MR614, Smoke Photoelectric	1 *(Note1)*	
Minerva, MR614T, Smoke Photoelectric	1 *(Note1)*	
Minerva, MU614, Carbon Monoxide	2 *(Note1)*	
Tyco, 614CH, CO and Heat	20	PHG0055 XF2125 Tyco compatibility review, AS 4428.0–1997
Tyco, 614I, Ionisation Smoke	25	
Tyco, 614P, Photoelectric Smoke	24	
The above detectors with models Tyco 5B orTyco/Minerva MUB/M614 base		

Note 1: LED pulsing on alarm must be on to ensure LED blink is seen in alarm

* Maximum number of detectors per AZF/AZC allowed by code.

Device	Max. number of devices allowed per 2.5 mA ADR and KFDO.CS-EX1.51 or 2.51P intrinsically safe barrier EOL Active Type	Reference
Olsen, C29BEx, Smoke Ionisation *with Olsen Z52, Z55B, Z56B, Z56N and Z500 Non-indicating base*	40*	XF1875/R1, May 2002, AS 4428.1-1998

* Maximum number of detectors per AZF/AZC allowed by code.

Device	Max. number of devices allowed per 2.5 mA ADR with KHD0.ICS-EX151 / 251 or KFDO.CS-EX1.51 / 2.51P or MTL5061 intrinsically safe barrier. EOL Active Type	Reference
Olsen, T54B, Heat Type E (or other Short Circuit Devices)	40*	XF1875/R1, May 2002, AS 4428.1-1998

* Maximum number of detectors per AZF/AZC allowed by code.

Device	Max. number of devices allowed per ADR 1901-14-B AZF 4mA and 39k EOLR	Reference
Hochiki, DCA-B-60R Mk V, Heat Type A	40*	F316, April 1990, AS 1603.4-1987 inc. amdt 1 & 2.
Hochiki, DCA-B-90R Mk I, Heat Type C	40*	
Hochiki, DFE-60B, Heat Type B	40*	
Hochiki, DFE-90D, Heat Type D	40*	
Hochiki, SIF-A Mk I, Smoke Ionisation	4	
Hochiki, SIH-A Mk I, Smoke Ionisation	4	
Hochiki, SLG-A Mk I, Smoke Photoelectric	1	
Hochiki, SLK-A Smoke Photoelectric	1	
The above detectors with Hochiki YBC-RL/4AH4 base		
Olsen, B111B, Beam Smoke	40*	F316, April 1990, AS 1603.4-1987 inc. amdt 1 & 2.
Olsen, C23B, Smoke Ionisation	1	
Olsen, C24B, Smoke Ionisation *with Olsen Z54B*	1	
Olsen, C29B, Smoke Ionisation *with Olsen Z54B*	2	
Olsen, C29B, Smoke Ionisation *with Olsen Z56 base*	2	XB1246, November 1993, Compatibility Assessment
Olsen, C75B, Smoke Photoelectric	4	F316, April 1990, AS 1603.4-1987 inc. amdt 1 & 2.
Olsen, Fire Wire (BICC) FW81B, Heat Type E	1000m	
Olsen, P24B, Smoke Photoelectric *with Olsen Z54B base*	1	
Olsen, P29B, Smoke Photoelectric *with Olsen Z54B base*	1	
Olsen, P75B, Smoke Photoelectric	1	
Olsen, T54B, Heat Type E Probe	40*	
Olsen, T56B Mk V Heat Type A,B,C or D *with Olsen Z54B, Z54B Mk II, Z55 or Z56 base*	40*	XB1033 April 1993, AS 1603.4-1987 inc. amdt 1 & 2
Olsen, V41B/V42B, Ultra-violet Flame	40*	F316, April 1990, AS 1603.4-1987 inc. amdt 1 & 2
Olsen, C24B, Smoke Ionisation	4	XF1457/R3, October 2000 Compatibility Assessment
Olsen, C29B, Smoke Ionisation	2	
Olsen, P24B, Smoke Ionisation	1	
Olsen, T56B, Heat Type A,B,C or D	40*	
The above detectors with Olsen Z500 base & Tyco/Olsen E500 Mk 2 remote indicator		

* Maximum number of detectors per AZF/AZC allowed by code.

Device	Max. number of devices allowed per ADR 1901-14-B AZF & 39k EOLR with DCA-001 fitted	Reference
Olsen, R23B, Infra-red Flame *with Olsen R23 base*	4	F541, May 1991, AS 1603.4-1987 inc. amdt 1 & 2.
Amtron valve monitor switch.		

Device	Max. number of devices allowed per ADR 1901-14-B AZF 4 mA and EOL002Z (pulsed)	Reference
Cerberus, DLO1191A, Linear Smoke Detector	1	XF1450/R1, July 1998, AS 1603.4 -1987 inc. amdt 1 & 2.
Hochiki, DCA-B-60R Mk V, Heat Type A	40*	XB1045, March 1993, Compatibility Assessment.
Hochiki, DCA-B-90R Mk1, Heat Type C	40*	
The above detectors with Hochiki YBC-RL/4AHA base		

* Maximum number of detectors per AZF/AZC allowed by code.

Device	Max. number of devices allowed per ADR 1901-14-B AZF 4 mA and EOL002Z (pulsed)	Reference
Hochiki, DCC-A, Heat Type A	40*	XB0994, November 1992, Compatibility Assessment
Hochiki, DCC-C, Heat Type C	40*	
The above detectors with Hochiki YBF-RL/4AH4M or YBC-R/3A base		
Hochiki, DCD-A, Heat Type A	40*	XF1252, February 1998, Compatibility Assessment
Hochiki, DCD-C, Heat Type C	40*	
The above detectors with Hochiki YBO-RL/4A base		
Hochiki, DFE-60B, Mk 1 Heat Type B	40*	XB1045 March 1993, Compatibility Assessment.
Hochiki, DFE-90D, Mk 1 Heat Type D	40*	
The above detectors with Hochiki YBC-RL/4AHA base		
Hochiki, DFJ-60B, Heat Type B	40*	XF1252 February 1998, Compatibility Assessment
Hochiki, DFJ-90D, Heat Type D	40*	
The above detectors with Hochiki YBO-RL/4A base		
Hochiki, HF-24 A Mk I, Ultra-violet Flame	17	XB1045, March 1993, Compatibility Assessment
Hochiki, SIF-A Mk I, Smoke Photoelectric	40*	XB1045, March 1993, Compatibility Assessment
Hochiki, SIH-AM, Smoke Photoelectric	40*	
The above detectors with Hochiki YBC-RL/4AHA base		
Hochiki SIJ-ASN, Smoke Photoelectric *with Hochiki YBO-RL/4A base*	40*	XF1252 February 1998, Compatibility Assessment
Hochiki SLG-A Mk 1, Smoke Photoelectric	40*	XB1045, March 1993, Compatibility Assessment.
Hochiki SLK-A, Smoke Photoelectric	40*	
The above detectors with Hochiki YBC-RL/4AHA base		
Hochiki SLR-AS, Smoke Photoelectric *with Hochiki YBO-RL/4A base*	40*	XF1252 February 1998, Compatibility Assessment
Olsen, P136, Duct Sampling Unit	5	XF1930, September 2002, AS 4428.1 - 1998
Olsen, C23B, Smoke Ionisation	40*	F316, April 1990, AS 1603.4-1987 inc. amdt 1 & 2.
Olsen, C23BEx, Smoke Ionisation	40*	
The above detectors with Olsen Z23 non indicating base		
Olsen, C24B, Smoke Ionisation *with Olsen Z54B, Z54B Mk 2 or Z55base*	40*	XB0942, August 1992, Compatibility Assessment
Olsen, C24B, Smoke Ionisation *with Olsen Z54B, Z54B Mk 2 or Z56B base*	40*	XB1246, November 1993, Compatibility Assessment
Olsen, C24B, Smoke Ionisation	40*	XF1457/R2, November 1998, Compatibility Assessment
Olsen, C29B, Smoke Ionisation	40*	
The above detectors with Olsen Z500 base & Tyco/Olsen E500 Mk 2 remote indicator		
Olsen, C29BEx, Smoke Ionisation *with Olsen Z54B, or Z54B Mk 2 base*	40*	F316, April 1990, AS 1603.4 -1987 inc. amdt 1 & 2
Olsen, FW81B, Heat Type E	1000m	
Olsen, P24B, Smoke Photoelectric *with Olsen Z54B, Z54B Mk 2 or Z55 base*	40*	XB0942, August 1992, Compatibility Assessment
Olsen, P24B, Smoke Photoelectric *with Olsen* Z56base	40*	XB1246, November 1993, Compatibility Assessment
Olsen, P24B, Smoke Photoelectric *with Olsen Z500 base & Tyco/Olsen E500 Mk 2 remote indicator*	40*	
Olsen, P29B, Smoke Photoelectric *with Olsen Z54B base*	33	XB1045, March 1993, Compatibility Assessment
Olsen, P61B (Rev J), Smoke Photoelectric	40*	
Olsen, P75B, Smoke Photoelectric	40*	

* Maximum number of detectors per AZF/AZC allowed by code.

Device	Max. number of devices allowed per ADR 1901-14-B AZF 4 mA and EOL002Z (pulsed)	Reference
Olsen P76B, Smoke Photoelectric *with Olsen Z72 base*	18	XB1246, November 1993, Compatibility Assessment
Olsen R23B, Flame	30	
Olsen R24BEx, Flame	13	
Olsen T54B, Heat Type E	40*	F316, April 1990, AS 1603.4 -1987 inc. amdt 1 & 2
Olsen T56B Mk V Heat Type A,B,C or D *with Olsen Z54B, Z54B Mk 2, Z55B base*	40*	XB1033 April 1993, Compatibility Assessment
Olsen T56B Mk V Heat Type A,B,C, or D *with Olsen Z51B, Z54B or Z54B Mk 2 base*	40*	XB1045, March 1993, Compatibility Assessment
Olsen, T56B Mk V, Heat Type A,B,C or D *with Olsen Z500 base & Tyco/Olsen E500 Mk 2 remote indicator*	40*	XF1457/R3, October 2000, Compatibility Assessment
Olsen, V41B/V42B, UV Flame	40*	F316, April 1990, AS 1603.4 -1987 inc. amdt 1 & 2

* Maximum number of detectors per AZF/AZC allowed by code.

Device	Max. number of devices allowed per ADR 4 mA and EOL Active Type	Reference
Minerva, MD614, Heat Type A	40*	XF1875/R1, May 2002 AS 4428.1-1998
Minerva, MD614, Heat Type C	40*	
Minerva, MF614, Smoke Ionisation	40* *(Note1)*	
Minerva, MR614, Smoke Photoelectric	40* *(Note1)*	
Minerva, MR614T, Smoke Photoelectric	40* *(Note1)*	
Minerva, MU614, Carbon Monoxide	40* *(Note1)*	
The above detectors with models Tyco 5B orTyco/Minerva MUB/M614 base		
Tyco, T614A, Heat Type A	40*	XF1910/R1, July 2002 AS 4428.1-1997
Tyco, T614B, Heat Type B	40*	
Tyco, T614C, Heat Type C	40*	
Tyco, T614D, Heat Type D	40*	
Tyco, 614TA, Heat Type A	40*	PHG0063, AS 4428.0–1997
Tyco, 614TB, Heat Type B	40*	
Tyco, 614TC, Heat Type C	40*	
Tyco, 614TD, Heat Type D	40*	
Tyco, 614CH, CO and Heat	40*	PHG0055 XF2125 Tyco compatibility review, AS 4428.0–1997
Tyco, 614I, Ionisation Smoke	40*	
Tyco, 614P, Photoelectric Smoke	38	
The above detectors with models Tyco 5B orTyco/Minerva MUB/M614 base		

Note 1: LED pulsing on alarm must be on to ensure LED blink is seen in alarm

* Maximum number of detectors per AZF/AZC allowed by code.

Device	Max. number of devices allowed per ADR 4 mA and EOL 39 kΩ	Reference
Minerva, MD614, Heat Type A	1	XF1875/R1, May 2002 AS 4428.1-1998
Minerva, MD614, Heat Type C	1	
Minerva, MF614, Smoke Ionisation	1	
Minerva, MR614, Smoke Photoelectric	1	
Minerva, MR614T, Smoke Photoelectric	1	
Minerva, MU614, Carbon Monoxide	1	
The above detectors with models Tyco 5B orTyco/Minerva MUB/M614 base		
Tyco, T614A, Heat Type A	1	XF1910/R1, July 2002 AS 4428.1-1997
Tyco, T614B, Heat Type B	1	
Tyco, T614C, Heat Type C	1	
Tyco, T614D, Heat Type D	1	
Tyco, 614TA, Heat Type A	1	PHG0063, AS 4428.0–1997
Tyco, 614TB, Heat Type B	1	
Tyco, 614TC, Heat Type C	1	
Tyco, 614TD, Heat Type D	1	
Tyco, 614CH, CO and Heat	1	PHG0055 XF2125 Tyco compatibility review, AS 4428.0–1997
Tyco, 614I, Ionisation Smoke	1	
Tyco, 614P, Photoelectric Smoke	1	
The above detectors with models Tyco 5B orTyco/Minerva MUB/M614 base		

Device	Max. number of devices allowed per 4 mA ADR and KFDO.CS-EX1.51 or KFDO.CS-EX2.51P intrinsically safe barrier EOL Active Type	Reference
Olsen, C29BEx, Smoke Ionisation *with Olsen Z52, Z55B, Z56B, Z56N and Z500 Non-indicating base*	40*	XF1875/R1, May 2002, AS 4428.1-1998

* Maximum number of detectors per AZF/AZC allowed by code.

Device	Max. number of devices allowed per 4 mA ADR-M with KFDO.CS-EX1.51 or KFDO.CS-EX2.51P intrinsically safe barrier EOL Active Type	Reference
Olsen, C29BEx, Smoke Ionisation *with Olsen Z52, Z55B, Z56B, Z56N and Z500 Non-indicating base (Note1)*	40*	XF1875/R1, May 2002, AS 4428.1-1998

Note 1: MCP alarm must be programmed as detector. Select mode circuit type 4, AVF/SAD (detector only) for AVF; circuit type 1 (MCP Enabled) for normal.

* Maximum number of detectors per AZF/AZC allowed by code.

Device	Max. number of devices allowed per 4 mA ADR with KHD0.ICS-EX151 / 251 or KFDO.CS-EX1.51 / 2.51P or MTL5061 intrinsically safe barrier EOL Active Type	Reference
Olsen, T54B, Heat Type E (or other Short Circuit Devices)	40*	XF1875/R1, May 2002, AS 4428.1-1998

* Maximum number of detectors per AZF/AZC allowed by code.

Device	Max. number of devices allowed per 4 mA ADR-M with KHD0.ICS-EX151 / 251 or KFDO.CS-EX1.51 / 2.51P or MTL5061 intrinsically safe barrier EOL Active Type	Reference
Olsen, T54B, Heat Type E (or other Short Circuit Devices)	40*	XF1857/R1, May 2002, AS 4428.1-1998

* Maximum number of detectors per AZF/AZC allowed by code.

Device	Max. number of devices allowed per ADR-M 1901-198 15V MCP (EOL 39 kΩ passive)	Reference
Hochiki, DCA-B-60R Mk V, Heat Type A	40*	XF1856/R1, December 2001 AS 1603.4-1987 inc. amdt 1 & 2.
Hochiki, DCA-B-90R Mk I, Heat Type C	40*	
Hochiki, DFE-60B, Heat Type B	40*	
Hochiki, DFE-90D, Heat Type D	40*	
Hochiki, SIF-A Mk I, Smoke Ionisation	4	
Hochiki, SIH-A Mk I, Smoke Ionisation	4	
Hochiki, SLG-A Mk I, Smoke Photoelectric	1	
Hochiki, SLK-A, Smoke Photoelectric	1	
The above detectors with YBC-RL/4AH4 base		
Minerva, MD614, Heat Type A	2	XF1624/R3, February 2000 AS 1603.4 -1987 inc. amdt 1 & 2.
Minerva, MD614, Heat Type C	2	
Minerva, MF614, Smoke Ionisation	1	
Minerva, MR614, Smoke Photoelectric	1	
Minerva, MR614T, Smoke Photoelectric	1	
Minerva, MU614, Carbon Monoxide	2	
The above detectors with models Tyco 5B orTyco/Minerva MUB/M614 base		
Olsen C23B, Smoke Ionisation	1	XF1856/R1, December 2001 Compatibility Assessment AS 1603.4-1987 inc. amdt 1 & 2."
Olsen C24B, Smoke Ionisation	1	
Olsen C29B, Smoke Ionisation	2	
Olsen C75B, Smoke Ionisation	4	
Olsen P24B, Smoke Photoelectric	1	
Olsen P75B, Smoke Photoelectric	1	
Olsen T56B, Heat Type A,B,C or D	40*	
The above detectors with Olsen Z54B, Z54B Mk2, Z56, Z55 or Z500 base		
Olsen P29B, Smoke Photoelectric *with Olsen Z54B, Z54B Mk2, or Z55 base*	1	XF1856/R1, December 2001 Compatibility Assessment AS 1603.4-1987 inc. amdt 1 & 2.
Olsen B111B, Optical Beam	40*	
Olsen FW81B, Heat Type E Cable	1000m	
Olsen T54B, Heat Type E Probe	40*	
Olsen V41B/42B, Ultra-violet Flame	40*	
Simplex, 4098-9618EA, Heat Type A	1	XF1757/R2, May 2001 Compatibility Assessment AS 4428.0-1997 Appendix E
Simplex, 4098-9619EA, Heat Type B	1	
Simplex, 4098-9621EA, Heat Type D	1	
Simplex, 4098-9601EA, Smoke Photoelectric	1	
Simplex, 4098-9603EA, Smoke Ionisation	1	
The above detectors with Simplex 4098-9788EA base		
Tyco, SU0600, Manual Call Point	24	XF1875/R1, May 2002 AS 4428.1-1998
Tyco, T614A, Heat Type A	40*	XF1910/R1, July 2002 AS 4428.1-1997
Tyco, T614B, Heat Type B	40*	
Tyco, T614C, Heat Type C	40*	
Tyco, T614D, Heat Type D	40*	
Tyco, 614TA, Heat Type A	40*	PHG0063, AS 4428.0–1997
Tyco, 614TB, Heat Type B	40*	
Tyco, 614TC, Heat Type C	40*	
Tyco, 614TD, Heat Type D	40*	
Tyco, 614CH, CO and Heat	1	PHG0055 XF2125 Tyco compatibility review, AS 4428.0–1997
Tyco, 614I, Ionisation Smoke	1	
Tyco, 614P, Photoelectric Smoke	1	
The above detectors with models Tyco 5B orTyco/Minerva MUB/M614 base		

Note: ADR-M must be programmed to operate in the MCP/Alarm Region

* Maximum number of detectors per AZF/AZC allowed by code.

Device	Max. number of devices allowed per ADR-M 1901-198 15V MCP (EOL active)	Reference
Cerberus, DLO1191A, Linear Smoke Detector	1	XF1856/R1, December 2001 Compatibility Assessment AS 1603.4-1987 inc. amdt 1 & 2.
Hochiki, DCA-B-60R Mk V, Heat Type A	40*	
Hochiki, DCA-B-90R Mk I, Heat Type C	40*	
The above Hochiki detectors with Hochiki YBC-RL/4AHA base		
Hochiki, DCC-A, Heat Type A	40*	
Hochiki, DCC-C, Heat Type C	40*	
The above detectors with Hochiki YBF-RL/4AHAM or YBC-R/3A base		
Hochiki, DCD-A, Heat Type A	40*	
Hochiki, DCD-C, Heat Type C	40*	
The above detectors with Hochiki YBO-RL/4A base		
Hochiki, DFE-60B Mk I, Heat Type B	40*	
Hochiki, DFE-90D Mk I, Heat Type D	40*	
The above detectors with Hochiki YBC-RL/4AHA base		
Hochiki, DFJ-60B Mk I, Heat Type B	40*	
Hochiki, DFJ-90D Mk I, Heat Type D	40*	
The above detectors with Hochiki YBO-RL/4A base		
Hochiki, HF-24A Mk I, Ultra-violet Flame	17	
Hochiki, SIF-A Mk I, Smoke Ionisation	40*	
Hochiki, SIH-A Mk I, Smoke Ionisation	40*	
Hochiki, SIH-AM Mk I, Smoke Ionisation	40*	
The above detectors with Hochiki YBC-RL/4AHA base		
Hochiki, SLG-A Mk I, Smoke Photoelectric	40*	
Hochiki, SLK-A, Smoke Photoelectric	40*	
The above detectors with Hochiki YBC-RL/4AHA base		
Hochiki, SIJ-ASN, Smoke Ionisation	40*	
Hochiki, SLR-AS, Smoke Photoelectric	40*	
The above detectors with Hochiki YBO-RL/4A base		
Minerva, MD614, Heat Type A	40*	XF1624/R3 February 2000 AS 1603.4 -1987 inc. amdt 1 & 2.
Minerva, MD614, Heat Type C	40*	
Minerva, MF614, Smoke Ionisation	40*	
Minerva, MR614, Smoke Photoelectric	40*	
Minerva, MR614T, Smoke Photoelectric	40*	
Minerva, MU614, Carbon Monoxide	40*	
The above detectors with models Tyco 5B orTyco/Minerva MUB/M614 base		
Olsen, C23B, Smoke Ionisation	40*	XF1856/R1, December 2001 Compatibility Assessment AS 1603.4-1987 inc. amdt 1 & 2.
Olsen, C23BEx, Smoke Ionisation	40*	
Olsen, C24B, Smoke Ionisation	40*	
Olsen, C29B, Smoke Ionisation	40*	
Olsen, C29BEx, Smoke Ionisation	40*	
Olsen, P24B, Smoke Photoelectric	40*	
Olsen, P29B, Smoke Photoelectric	33	
Olsen, T56B, Heat Type A,B,C or D	40*	
The above detectors with Olsen Z54B, Z54B Mk2, Z56, Z55 or Z500 base		

Note: ADR-M must be programmed to operate in the MCP/Alarm Region

* Maximum number of detectors per AZF/AZC allowed by code.

Device	Max. number of devices allowed per ADR-M 1901-198 15V MCP (EOL active)	Reference
Olsen, B111B, Optical Beam	40*	XF1856/R1, December 2001 Compatibility Assessment
Olsen, FW81B, Heat Type E Cable	1000m	
Olsen, P136, Duct Sampling Unit	5	XF1930, September 2002, AS 4428.1 - 1998
Olsen, P61B (Rev J), Smoke Photoelectric	40*	XF1856/R1, December 2001 Compatibility Assessment
Olsen, P75B, Smoke Photoelectric	40*	
Olsen, P76, Smoke Photoelectric *with Olsen Z72 base*	18	
Olsen, R23B, Infra-red Flame	30	
Olsen, R24BEx, Infra-red Flame	13	
Olsen T54B, Heat Type E Probe	40*	
Olsen V41B/42B, Ultra-violet Flame	40*	
Simplex, 4098-9618EA, Heat Type A	40*	XF1757/R2, May 2001 Compatibility Assessment AS 4428.0-1997 Appendix E
Simplex, 4098-9619EA, Heat Type B	40*	
Simplex, 4098-9621EA, Heat Type D	40*	
Simplex, 4098-9601EA, Smoke Photoelectric	40*	
Simplex, 4098-9603EA, Smoke Ionisation	40*	
The above detectors with Simplex 4098-9788EA base		
Tyco, SU0600, Manual Call Point	40*	XF1875/R1, May 2002 AS 4428.1-1998
Tyco, T614A, Heat Type A	40*	XF1910/R1, July 2002 AS 4428.1-1997
Tyco, T614B, Heat Type B	40*	
Tyco, T614C, Heat Type C	40*	
Tyco, T614D, Heat Type D	40*	
Tyco, 614TA, Heat Type A	40*	PHG0063, AS 4428.0–1997
Tyco, 614TB, Heat Type B	40*	
Tyco, 614TC, Heat Type C	40*	
Tyco, 614TD, Heat Type D	40*	
Tyco, 614CH, CO and Heat	40*	PHG0055 XF2125 Tyco compatibility review, AS 4428.0–1997
Tyco, 614I, Ionisation Smoke	40*	
Tyco, 614P, Photoelectric Smoke	38	
The above detectors with models Tyco 5B orTyco/Minerva MUB/M614 base		

Note: ADR-M must be programmed to operate in the MCP/Alarm Region

* Maximum number of detectors per AZF/AZC allowed by code.

Device	Max. number of devices allowed per Tyco ZAU401 (Rev2) 22V EOL 3k9Ω	Reference
Thorn, S231f+, Infra-red flame *(Note 1)*	5	XF1875/R1, July 2002 AS 4428.1-1998
Thorn, S231f+, Infra-red flame *and Isolating Barrier KFDO-CS-EX1.51 or 2.51P (Note 1)*	5	
Thorn, S231i+, Infra-red flame *(Note 1)*	5	
Thorn, S231i+, Infra-red flame *and Isolating Barrier KFDO-CS-EX1.51 or 2.51P (Note 1)*	5	
Short Circuit Device *with KFDO-CS-EX1.51 or 2.51P (Note 1)*	40*	XF1930, September 2002, AS 4428.1 - 1998

Note 1: Refer to F4000 Technical documentation for installation requirements.

* Maximum number of detectors per AZF/AZC allowed by code.

Analogue Addressable Responder (AAR)

Device	Max addressable points on analogue loop	Max addressable points on analogue line	Reference
ADU002 Addressable Hard Contact / Supervised Input	200	40*	F662, January 1992, AS 1603.4-1997 inc. amdt 1 & 2"
ADU003A Addressable Input / Output Relay Unit	200	40*	
ADU004A Addressable Relay Output Unit	40	40*	
ADU006 Addressable Conventional Interface Input Unit	40	40*	
Olsen, C71A, Smoke Ionisation	200	40*	
Olsen, P71A, Smoke Photoelectric	200	40*	
The above detectors with Olsen Z72B Mk2 base			
Olsen, C73A, Smoke Ionisation	200	40*	XB1320/R1, May 1994 AS 1603.4 -1987 inc. amdt 1 & 2.
Olsen, P73A, Smoke Photoelectric	200	40*	
The above detectors with Olsen Z72B Mk2 base			

* Maximum number of detectors per AZF/AZC allowed by code.

Multi Protocol Responder (MPR)

Device type	Max addressable points on analogue loop	Max addressable points on analogue line	Reference
ADM130, 131 or 133 supervised hard contact input	99	40*	XF1015, September 1994, AS 1603.4-1987 inc. amdt 1 &2
ADC 130 supervised load relay output *(Note1)*	99	40*	
SCI 130 short circuit isolation	15	15	
Tyco/Olsen, C131A, Smoke Ionisation	99	40*	
Tyco/Olsen, P131A, Smoke Photoelectric	99	40*	
Tyco/Olsen, T131A, Heat Type A/B	99	40*	
The above detectors with Tyco Z131A and Z132A bases			
Tyco, P133A Smoke Photoelectric *with Tyco Z133A base*	99	40*	XF1748/R1, January 2000 AS 1603.2-1997 Assessment
Tyco, P132A Smoke Photoelectric *with Tyco Z131 base*	99	40*	XF1787/R1, June 2001 AS 1603.2-1997 Assessment
Tyco, Z134A Addressable Base	99	40*	XF1603/R3, July 2000 AS 1603.1 - 1997 Assessment AS 1603.2 - 1997 Assessment
System Sensor, 2251BAUS, photoelectric smoke detector	99	40*	XF1901/R6 October 2003 XF2587/R1, May 2010
Tyco, C131A-Mk2, Smoke Ionisation	99	40*	XF2587/R2, 12-April-2010 AS 1603.2-1997
Tyco, P131A-Mk2, Smoke Photoelectric	99	40*	XF2587/R3, 12-April-2011 AS 1603.2-1997
Tyco, T131A-Mk2, Heat Type A/B	99	40*	XF2587/R4, 13-May-2011 AS 1603.1-1997
The above detectors with System Sensor, B501, B501AUS bases			
ADM130-Mk2	99	40*	XF2591/R2, 30-May-2012 AS 4428.1-1998 incl. Amdt 1
ADM131-Mk2, supervised hard contact input	99	40*	
ADCS130-Mk2, supervised lead output	99	40*	
ADCU130-Mk2, unsupervised lead output	99	40*	
ADS130-Mk2	15	15	

Note 1: Excludes external alarm current - relay load current must not be supplied from analogue loop

* Maximum number of detectors per AZF/AZC allowed by code.

DIM800 Detector Interface Module

Device	Max. number of devices allowed per DIM800 Detector Interface Module EOL 2 x 4K7 Resistors	Reference
Hard contact devices	40*	XF1760/R2, December 2001 AS 4428.0-1997
Minerva, MD614, Heat Type A	40*	
Minerva, MD614, Heat Type C	40*	
Minerva, MF614, Smoke Ionisation	30	
Minerva, MR614, Smoke Photoelectric	22	
Minerva, MR614T, Smoke Photoelectric	21	
Minerva, MU614, Carbon Monoxide	40*	
The above detectors with models Tyco 5B orTyco/Minerva MUB/M614 base		
Olsen, C24B, Smoke Ionisation	40*	
Olsen, C29BEx, Smoke Ionisation	40*	
Olsen, P136, Duct Sampling Unit	5	XF1930, September 2002, AS 4428.1 - 1998
Olsen, P24B, Smoke Photoelectric	24	XF1760/R2, December 2001 AS 4428.0-1997
Olsen, P29B, Smoke Ionisation	20	
Olsen, T56B, Heat Type A,B,C or D	40*	
The above detectors with Olsen Z54B, Z54B Mk2, Z56, or Z500 base		
Olsen, C24B, Smoke Ionisation	40*	
Olsen, C29BEx, Smoke Ionisation	40*	
Olsen, P24B, Smoke Photoelectric	24	
Olsen, P29B, Smoke Ionisation	20	
The above detectors with Olsen Z52 base		
Olsen, R24B, Infra-red Flame	3	
Olsen, T56B, Heat Type A,B,C or D *with Olsen Z52, Z55, Z56, or Z500N base*	40*	
Simplex, 4098-9618EA, Heat Type A	24	
Simplex, 4098-9619EA, Heat Type B	24	
Simplex, 4098-9621EA, Heat Type D	24	
Simplex, 4098-9601EA, Smoke Photoelectric	24	
Simplex, 4098-9603EA, Smoke Ionisation	24	
The above detectors with Simplex 4098-9788EA base		
Tyco, T614A, Heat Type A	26	XF1910/R1, July 2002 AS 4428.1-1997
Tyco, T614B, Heat Type B	26	
Tyco, T614C, Heat Type C	26	
Tyco, T614D, Heat Type D	26	
Tyco, 614TA, Heat Type A	26	PHG0063, AS 4428.0–1997
Tyco, 614TB, Heat Type B	26	
Tyco, 614TC, Heat Type C	26	
Tyco, 614TD, Heat Type D	26	
Tyco, 614CH, CO and Heat	32	PHG0055 XF2125 Tyco compatibility review, AS 4428.0–1997
Tyco, 614I, Ionisation Smoke	38	
Tyco, 614P, Photoelectric Smoke	25	
The above detectors with models Tyco 5B orTyco/Minerva MUB/M614 base		
Hard Contact Devices *with KFD0-CS Ex1.51P/2.51P IS Repeater*	40*	XF1930, September 2002, AS 4428.1 - 1998

* Maximum number of detectors per AZF/AZC allowed by code.

MX Protocol Responder (MXP)

Device type	Max addressable points on analogue loop	Max addressable points on analogue line	Reference
Tyco MX, 814CH, Multi-Sensor, Carbon monoxide / Heat Type A/B	200	40*	XF1760/R1, May 2001 AS 4428.1-1998
Tyco MX, 814H, Heat Type A, B, C, or D	200	40*	
Tyco MX, 814I, Smoke Ionisation	200	40*	
Tyco MX, 814PH, Multi-Sensor, Photoelectric / Heat Type A/B	200	40*	
Tyco MX, 814P, Photoelectric	200	40*	XF1659/R4, AS 4428.1-1998
The above detectors with models Tyco 5B / 5BI or MUB/M614 base or Tyco MX 814RB, 814SB, 802SB and 814IB bases			
The above detectors with models Tyco 4B and 4B-I bases			XF2681/R1
Tyco MX 850H, A2R, A2S, CR, CS Heat Detector	200	40*	XF2681/R1
Tyco MX 850PH, Multi Sensor Photo Smoke & A2R, A2S Heat Detector	200	40*	XF2681/R2
Tyco MX 850P, Photo Smoke Detector	200	40*	XF2681/R3
The above detectors with models Tyco 4B and 4B-I bases			
Tyco, CP820, Manual Call Point	200	40*	XF1760/R1, May 2001 AS 4428.1-1998
Tyco MX, 814RB, Relay Base	200	40*	
Tyco MX, 814SB, Sounder Base (full volume)	24	24	
Tyco MX, 814SB, Sounder Base (mid volume)	30	30	
Tyco MX, 814SB, Sounder Base (low volume)	48	40*	
Tyco MX, 814IB, Isolator Base	128	40*	
MIM800, Mini Input Module	200	40*	
CIM800, Contact Input Module	200	40*	
SNM800, Sounder Notification Module	200	40*	
RIM800, Relay Interface Module	200	40*	
LIM800 Line Isolator Module	200	40**	XF2679, AS 4428.1-1998
LPS800 Loop Powered Sounder Driver	33	33	
SAB801 Addressable Sounder Beacon	100	40	
SAM800 Addressable Sounder Beacon	200	40	
DDM800 Detector Driver Module Loop Pwr	8	8	
DDM800 Detector Driver Module Ext Pwr	50	40*	
DIM800, Detector Interface Module	200	40*	XF1861, February 2002 AS 4428.1-1998
VLC-800MX, Aspirating Smoke Detector	*125*	*40**	XF1928/R2, 28-Feb-2003 AS 1603.8-1996
ICAM IAS-1 *fitted with 814PH or 814P*	*200*	*40**	XF2462/R3, 28-May-2010 AS 1603.8-1996
ICAM IAS-2 *fitted with 814PH or 814P*	*200*	*40**	

* Maximum number of detectors per AZF/AZC allowed by code.

** If a line develops a short circuit, the LIM800 will disable all detectors/devices beyond it. It is not an addressable point.

Supplementary information

Schedule of relevant articles

The following schedule is an extract of articles significant and/or related as evidence of conformity.

Reference			Date issued (or date validated)	Source
Ident. type	Ident.	Title / description		
Report	F316	AS 1603.4 - 1987 inc. amdt 1 & 2.	Apr-1990	Scientific Services Laboratory, AU
	F541	AS 1603.4 - 1987 inc. amdt 1 & 2.	May-1991	
	F662	AS 1603.4 - 1987 inc. amdt 1 & 2.	Jan-1992	
	F721	AS 1603.4 - 1987 inc. amdt 1 & 2	May-1992	
	XB0807	AS 1603.4 - 1987 inc. amdt 1 & 2	Jun-1992	
	XB0848	AS 1603.4 - 1987 inc. amdt 1 & 2	Jun-1992	
	XB0850	AS 1603.4 - 1987 inc. amdt 1 & 2	Jul-1992	

Reference			Date issued (or date validated)	Source
Ident. type	**Ident.**	**Title / description**		
	XB0942	AS 1603.4 - 1987 inc. amdt 1 & 2, Compatibility Assessment		
	XB0994	AS 1603.4- -1987 inc. amdt 1 & 2, Compatibility Assessment	Nov-1992	
	XB1033	AS 1603.4 - 1987 inc. amdt 1 & 2.	Apr-1993	
	XB1045	AS 1603.4 - 1987 inc. amdt 1 & 2, Compatibility Assessment	Mar-1993	
	XB1246	AS 1603.4 - 1987 inc. amdt 1 & 2, Compatibility Assessment	Nov-1993	
	XB1320	AS 1603.4 - 1987 inc. amdt 1 & 2.	May-1994	
	XF1015	AS 1603.4 - 1987 inc. amdt 1 & 2.	Sep-1994	
	XF1054/R1	AS 1603.4 - 1987 inc. amdt 1 & 2, Compatibility Assessment	Mar-1995	
	XF1145/R1	AS 1603.4 - 1987 inc. amdt 1 & 2.	Mar-1996	
	XF1240/R1	AS 1603.4 - 1987 inc. amdt 1 & 2, Compatibility Assessment	Nov-1998	
	XF1252/R1	AS 1603.4 - 1987 inc. amdt 1 & 2, Compatibility Assessment	Feb-1998	
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	XF2681/R2	Evaluation for conformity of the Tyco Model 850PH Multi-Sensor Detector to the requirements of AS 7240.5-2004 and AS 7240.7-2004	10-July-2014	

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Ident. type	**Ident.**	**Title / description**	**Date issued** (or date validated)	**Source**
	XF2681/R3	Evaluation for conformity of the Tyco Model 850P Smoke Detector to the requirements of AS 7240.7-2004	28-July-2014	
	XF2679/R1	Evaluation for conformity of a Tyco Fire Alarm System Network and field modules to the requirements of AS 4428.1-1998 (incl. Amdt 1) and AS 4428.5-1998 (incl. Amdt 1)	26-May-2015	