



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 398	21-May-1990	Number 14	Issue date 1-May-2018	30-Apr-2019

Page 1 of 17

Product designation

Tyco, F4000 Series, conventional/addressable control and indicating equipment

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

Agent/distributor

Tyco Fire Protection Products
Level 3, 95 Coventry Street, SOUTHBANK, VIC, AUSTRALIA, 3006

Registrant

Johnson Controls
17 Mary Muller Drive, HILLSBOROUGH, CHRISTCHURCH, NEW ZEALAND, 8022

Producer

Johnson Controls
17 Mary Muller Drive, HILLSBOROUGH, CHRISTCHURCH, NEW ZEALAND, 8022

Conformance criteria and evaluation

The Tyco, F4000 Series, conventional/addressable control and indicating equipment has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.4-1987, 'Automatic fire detection and alarm systems - Control and indicating equipment' incl. Amdt 1 (June 1988) / Amdt 2 (October 1989).
2. Australian Standard AS 4050(Int)-1992, 'Fire detection and fire alarm systems - Firefighters' control and indicating facilities'.
3. Australian Standard AS 4428.1-1998, 'Fire detection, warning, control and intercom systems - Control and indicating equipment - Fire'.

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.

- 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.

Issued by

David Whittaker
Executive Officer – ActivFire Scheme



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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.
- Any terms or conditions of use as applicable to content and documentation as published or accessed through web sites administered by the CSIRO Verification Services.

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version		Valid until	
afp - 398	21-May-1990	Number 14	Issue date 1-May-2018	30-Apr-2019	Page 2 of 17

Producer's description

The Tyco, F4000 Series, conventional/addressable control and indicating equipment communicates via a 4-Wire Bi-Directional loop with a maximum of 127 Input/Output Responders (IORs), Advanced Detector Responders (ADRs), 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. The control and indicating equipment communicates via an MXP/MPR/AAR Responder to an Analogue Loop which supports up to 200 Addressable Analogue points which also communicate Bi-Directionally. The Tyco, F4000 Series, Conventional/Addressable Control & Indicating Equipment indicates up to 528 alarm zones in modules of 16 with individual alarm, fault and isolate indicators. Provision is also made for up to 8 Remote Zone Display Units (RDU) to be used for repeater indicators and a VDU/Printer Port for data access. The number of zones is only limited by the power supply rating, and limitations on the number and types of compatible detectors are detailed in the test reports.

The Tyco F4000 control and indicating equipment incorporates a discrete key or membrane keyboard and LCD display control/unit, arranged as either an AS 4428.1 Firefighter Facility (FF) or an AS 4050(Int) Fire Fighter's Control and Indicating Facility (FFCIF). Different versions of the F4000 control and indicating equipment are available that comply with AS 4428.1-1998 or with AS 1603.4 - 1987 and AS 4050(Int)-1992.

The Tyco, F4000 control and indicating equipment can incorporate up to 32 devices on a duplicated RS485 link and/or fibre-optic modems. Each device can be a MX4428/F4000 fire indicator panel with a network communication device, a Network Display Module (NDU), a Protocol Translation Module (PTM), I-Hub Network Interface modules or other Tyco Panel-Link compatible device.

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.

The Alarm Acknowledgment Module (AAM), Models AAM2 and AAM4, may be optionally fitted to the Tyco, Model F4000, control and indicating equipment. They are designed to allow the resident of a Sole Occupancy Unit to acknowledge a false alarm and clear the cause of the fire alarm before the Fire Brigade is called.

Technical specification

The following details are a representative extract of the technical specification for the Tyco, F4000 Series, conventional/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.

Power Supplies:

Model:	FP0474/F80825
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 _Q A)	Constant potential 27.1 Vdc
Model:	PSU2412F
Power Supply (12A)	
Battery Charger (12-I _Q A)	Constant potential 27.1 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

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 398	21-May-1990	Number 14	Issue date 1-May-2018	30-Apr-2019

Page 3 of 17

Alarm Acknowledgment Modules:

Specification	AAM4	AAM2
Operating voltage	18 to 28 Vdc	2 to 28 Vdc
Quiescent current	0 μ A	0 μ A
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

Supplementary information

Evaluated modules

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/11	1901-12	C	1901-12	11
Keyboard PA0450	1901-3	A/1/4	1901-3	A	1901-3	A
Display Board PA0454	1901-25-1	C/3	1901-25	C	1901-25-1	3
ADR FP 0472 PA0452	1901-14	D/4/2	1901-14	D	1901-14	4
RRM ADR Relay Board PA0453	1901-15	C/4/3	1901-15	C	1901-15	4
4.0 mA ADR PA0497	1901-116	D/3/2	1901-116	D	1901-116	3
F4000 LCD Keyboard PA0485	1901-108	A/2	1901-108	A	1901-108	2
F4000 Memory LCD PA0482	1901-102	B/3/4	1901-102	B	1901-102	3.1
16 Relay Board PA0470	1901-64-1	A/1/3	1901-64-1	A	1901-64-1	A
Loop Booster PA0463	1901-35	P2/4	1901-35	P2	1901-35	4
Input/Output Responder (IOR) PA0473	1901-72	C/6	1901-72	C	1901-72	6
32 Way Input Termination Board PA0474	1901-73-1	C/3	1901-73-1	E	1901-73	2
32 Way Output PA0475	1901-73-2	C/3	1901-73-2	B	1901-73	2
16-Way Input Termination Board PA0479	1901-73-1	B/2/2	1901-73-1	B	1901-73	2
16-Way Output Termination Board PA0480	1901-73-2	B/2/2	1901-73-2	B	1901-73	2
Power Supply PA0449	1901-2	E/5	1901-2	E	1901-2	5
Analogue Addressable Responder	1901-53	2	1901-53	P1	1901-53	2
MPR PA0713	1901-141	B/12	1901-141	B	1901-141	12
F4000 Current Detector Adaptor			DCA-001	1	DCA-001	1
ADRM PA0815	1901-198	E/5	1901-198	D	1901-198	5
Alarm Acknowledgment Module (AAM4)	1901-238	A/1	1901-238	A	1901-238	1
Alarm Acknowledgment Module (AAM2)	ME0420 FA2318				1974-16	B
F4000 Display Keyboard PA0890	1901-211	B/3	1901-211	B	1901-211	3
I-Hub Network Interface Module PA0839	ECM9603	B/3/3	ECM9603	B	ECM9603	3
Fibre Optic Modem	OSD139 RS232 Modem	-	-	-	-	-
Microprocessor Module PA0906	1901-210	B/1	1901-210	B	1901-210	1
MXP PA0893	1901-213	B/3	1901-213	B	1901-213	3
DIM800 Detector Interface Module	125-585-651	7	125-585-651	7	125-585-651	7
PSU2406F 'brick' (ME0334)	PA0811	B/3/2	1966-1-1	B	1966-1-1	3
Monitor/Mains Termination Board					Sht 1	

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 398	21-May-1990	Number 14	Issue date 1-May-2018	30-Apr-2019

Page 4 of 17

Module	Assembly number	Rev.	PCB number	Iss.	Technical drawing	Iss.
PSU2406F 'rack mounting' (ME0340) Monitor/Mains Termination Board	PA0813	B/3/2	1966-1-2	B	1966-1-2	3
PSU2412F 'rack' mounting' (ME0343) Monitor /Mains Termination Board	PA0813	B/3/2	1966-1-2		1966-1-2	3
Powerbox Switching PSU	1966-16	D				

EPROMS:

IOR (SF0123)	V2.01	ADR Board IC7 705C8 p	V2.20 C\$EF04
F4000 Master (non LCD) (SF0076) U1 U7	V1.37 C\$C8FA V1.37 C\$5F64	F4000 LCD U1 U7	V2.38 C16\$0693 V2.389 C16\$9596
RZDU	V1.13 KD\$96E6	MPR (SF0238)	V2.23 \$D37D
MXP U5 U7	V1.00 C\$5340 V1.07 C\$00520700		

Power supply software:

PSU2406 (SF0139) U1	Ver. 1.4 \$2FA10
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Manuals:

Manuals:	Issue
Technical manual	2.3
Operators manual	2.38

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version		Valid until	Page 5 of 17
afp - 398	21-May-1990	Number 14	Issue date 1-May-2018	30-Apr-2019	

Test Reports:

F316, April 1990, AS 1603.4 - 1987 inc. amdt 1 & 2.
F541, May 91, AS 1603.4 - 1987 inc. amdt 1 & 2.
F662, Jan. 92, AS 1603.4 - 1987 inc. amdt 1 & 2.
F721 May 1992 AS 1603.4 - 1987 inc. amdt 1 & 2
XB0807 June 1992 AS 1603.4 - 1987 inc. amdt 1 & 2
XB0848 June 1992 AS 1603.4 - 1987 inc. amdt 1 & 2
XB0850, July 1992, AS 1603.4 - 1987 inc. amdt 1 & 2
XB0942, AS 1603.4 - 1987 inc. amdt 1 & 2, Compatibility Assessment
XB0994, November 1992, AS 1603.4- -1987 inc. amdt 1 & 2, Compatibility Assessment
XB1033, April 1993, AS 1603.4 - 1987 inc. amdt 1 & 2, Compatibility Assessment
XB1045, March 1993, AS 1603.4 - 1987 inc. amdt 1 & 2, Compatibility Assessment
XB1246, November 1993, AS 1603.4 - 1987 inc. amdt 1 & 2, Compatibility Assessment
XB1320, May 1994, AS 1603.4 - 1987 inc. amdt 1 & 2, Compatibility Assessment
XF1015, September 1994, AS 1603.4 - 1987 inc. amdt 1 & 2.
XF1054/R1, March 1995, AS 1603.4 - 1987 inc. amdt 1 & 2, Compatibility Assessment
XF1145/R1, March 1996, AS 1603.4 - 1987 inc. amdt 1 & 2.
XF1240/R1, November 1998, AS 1603.4 - 1987 inc. amdt 1 & 2, Compatibility Assessment
XF1252/R1, February 1998, AS 1603.4 - 1987 inc. amdt 1 & 2, Compatibility Assessment
XF1450/R1, July 1998, AS 1603.4 - 1987 inc. amdt 1 & 2.
XF1457/R3, October 2000, AS 1603.4 - 1987 inc. amdt 1 & 2, Compatibility Assessment
XF1603/R3, July 2000, Z134 Assessment
XF1624/R3, February 2000, AS 1603.4 - 1987 inc. amdt 1 & 2, Compatibility Assessment
XF1722/R1, March 2001, AS 4428.1-1998
XF1748/R1, January 2000, AS1603.2 - 1997 Assessment
XF1757/R2, May 2001, AS 4428.0 - 1997 Appendix E, Compatibility Assessment
XF1760/R1, May 2001, AS 4428.1 – 1998
XF1787/R1, June 2001, AS 1603 - 2.1997 Assessment
XF1829/R1, November 2001, SSL Specification FTS-136
XF1856/R1, December 2001, AS 1603.4 - 1987 inc. amdt 1 & 2, Compatibility Assessment
XF1861/R1, February 2002, AS 4428.1 - 1998
XF1861/R2, February 2002, AS 4428.1 - 1998 and AS 4428.5 - 1998
XF1875/R1, May 2002, AS 4428.1 - 1998 Compatibility Assessment
XF1910/R1, July 2002, AS 4428.1 - 1998 Compatibility Assessment
XF1913/R1, July 2002, SSL Test Specification FTS-136 v1.4
XF1930/R1, September 2002, AS 4428.1 - 1998 Compatibility Assessment

Activating devices:

Activating device	Max. number of devices allowed per ADR 1901-14-B AZF 2.5 mA and EOL002Z (pulsed)	Test report
Hochiki, DCA-B-60R Mk V, Heat Type A	40*	F316, April 1990,
Hochiki, DCA-B-90R Mk I, Heat Type C	40*	AS 1603.4-1987 inc. amdt 1 & 2
Hochiki, DFE-60B, Heat Type B	40*	"
Hochiki, DFE-90D, Heat Type D	40*	"
<i>The above detectors with Hochiki YBC-RL/4AH4 base</i>		
Hochiki, HF-24A Mk I, Ultra-violet Flame	3	F316, April 1990, AS 1603.4-1987 inc. amdt 1 & 2
Hochiki, SIF-A Mk I, Smoke Ionisation	40*	F316, April 1990,
Hochiki, SIH-A, Smoke Ionisation	40*	AS 1603.4-1987 inc. amdt 1 & 2
Hochiki, SLG-A Mk I, Smoke Photoelectric	40*	"
Hochiki, SLK-A, Smoke Photoelectric	40*	"
<i>The above detectors with Hochiki YBC-RL/4AH4 base</i>		
Olsen, B111B, Beam Smoke	40*	F316, April 1990, AS 1603.4-1987 inc. amdt 1 & 2
Olsen, C23B, Smoke Ionisation	40*	XB1045, March 1993,
Olsen, C24B, Smoke Ionisation	40*	Compatibility Assessment

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 398	21-May-1990	Number 14	Issue date 1-May-2018	30-Apr-2019
				Page 6 of 17

Activating device	Max. number of devices allowed per ADR 1901-14-B AZF 2.5 mA and EOL002Z (pulsed)	Test report
<i>The above detectors with Olsen Z54B or Z54B Mk2 base</i>		
Olsen, C24B, Smoke Ionisation	40*	XF1457/R3, October 2000,
Olsen, C29B, Smoke Ionisation	40*	Compatibility Assessment
<i>The above detectors with Olsen Z500 base & Tyco/Olsen E500 Mk 2 remote indicator</i>		
Olsen, C29B, Smoke Ionisation	40*	F316, April 1990,
Olsen, C29BEx, Smoke Ionisation	40*	AS 1603.4-1987 inc. amdt 1 & 2
<i>The above detectors with Olsen Z54B or Z54B Mk2 base</i>		
Olsen, C75B, Smoke Ionisation	40*	F316, April 1990,
Olsen, Fire Wire (BICC) FW81B, Heat Type E	1000m	AS 1603.4-1987 inc. amdt 1 & 2
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,
Olsen, R24BEx, R24B Infra-red Flame	3	AS 1603.4-1987 inc. amdt 1 & 2
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*	F316, April 1990, AS 1603.4-1987 inc. amdt 1 & 2
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

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

Activating device	Max. number of devices allowed per ADR 1901-14-B AZF 2.5 mA and 39 kΩ EOLR	Test report
Olsen, C24B, Smoke Ionisation	4	XF1457/R3, October 2000,
Olsen, C29B, Smoke Ionisation	2	Compatibility Assessment
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.

Activating device	Max. number of devices allowed per AZF 2.5 mA and EOL Active Type	Test report
Minerva, MD614, Heat Type A	40*	XF1875/R1, May 2002
Minerva, MD614, Heat Type C	40*	AS 4428.1-1998
Minerva, MF614, Smoke Ionisation	25 (Note1)	Compatibility Assessment
Minerva, MR614, Smoke Photoelectric	25 (Note1)	"
Minerva, MR614T, Smoke Photoelectric	21	"
Minerva, MU614, Carbon Monoxide	40* (Note1)	"

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 398	21-May-1990	Number 14	Issue date 1-May-2018	30-Apr-2019

Page 7 of 17

Activating device	Max. number of devices allowed per AZF 2.5 mA and EOL Active Type	Test report
<i>The above detectors with Minerva MUB/M614 Universal non-indicating base</i>		

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

Activating device	Max. number of devices allowed per AZF 2.5 mA and 39 kΩ EOLR	Test report
Minerva, MD614, Heat Type A	2	XF1875/R1, May 2002
Minerva, MD614, Heat Type C	2	AS 4428.1-1998
Minerva, MF614, Smoke Ionisation	1 (Note1)	Compatibility Assessment
Minerva, MR614, Smoke Photoelectric	1 (Note1)	"
Minerva, MR614T, Smoke Photoelectric	1 (Note1)	"
Minerva, MU614, Carbon Monoxide	2 (Note1)	"
<i>The above detectors with Minerva MUB/M614 Universal non-indicating base</i>		

Activating 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	Test report
Olsen, C29BEx, Smoke Ionisation with Olsen Z52, Z55B, Z56B, Z56N and Z500 Non-indicating base	40*	XF1875/R1, May 2002, AS 4428.1-1998

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 398	21-May-1990	Number 14	Issue date 1-May-2018	30-Apr-2019
				Page 8 of 17

Activating 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	Test report
Olsen, T54B, Heat Type E (or other Short Circuit Devices)	40*	XF1875/R1, May 2002, AS 4428.1-1998

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.

Activating device	Max. number of devices allowed per ADR 1901-14-B AZF 4mA and 39k EOLR	Test report
Hochiki, DCA-B-60R Mk V, Heat Type A	40*	F316, April 1990,
Hochiki, DCA-B-90R Mk I, Heat Type C	40*	AS 1603.4-1987 inc. amdt 1 & 2.
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	"
<i>The above detectors with Hochiki YBC-RL/4AH4 base</i>		
Olsen, B111B, Beam Smoke	40*	F316, April 1990,
Olsen, C23B, Smoke Ionisation	1	AS 1603.4-1987 inc. amdt 1 & 2.
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,
Olsen, Fire Wire (BICC) FW81B, Heat Type E	1000m	AS 1603.4-1987 inc. amdt 1 & 2.
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
Olsen, C29B, Smoke Ionisation	2	Compatibility Assessment
Olsen, P24B, Smoke Ionisation	1	"
Olsen, T56B, Heat Type A,B,C or D	40*	"
<i>The above detectors with Olsen Z500 base & Tyco/Olsen E500 Mk 2 remote indicator</i>		

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

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

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

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 398	21-May-1990	Number 14	Issue date 1-May-2018	30-Apr-2019

Page 9 of 17

Activating device	Max. number of devices allowed per ADR 1901-14-B AZF 4 mA and EOL002Z (pulsed)	Test report
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,
Hochiki, DCA-B-90R Mk1, Heat Type C	40*	Compatibility Assessment.
<i>The above detectors with Hochiki YBC-RL/4AHA base</i>		"

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

Activating device	Max. number of devices allowed per ADR 1901-14-B AZF 4 mA and EOL002Z (pulsed)	Test report
Hochiki, DCC-A, Heat Type A	40*	XB0994, November 1992,
Hochiki, DCC-C, Heat Type C	40*	Compatibility Assessment
<i>The above detectors with Hochiki YBF-RL/4AH4M or YBC-R/3A base</i>		
Hochiki, DCD-A, Heat Type A	40*	XF1252, February 1998,
Hochiki, DCD-C, Heat Type C	40*	Compatibility Assessment
<i>The above detectors with Hochiki YBO-RL/4A base</i>		
Hochiki, DFE-60B, Mk 1 Heat Type B	40*	XB1045 March 1993,
Hochiki, DFE-90D, Mk 1 Heat Type D	40*	Compatibility Assessment.
<i>The above detectors with Hochiki YBC-RL/4AHA base</i>		
Hochiki, DFJ-60B, Heat Type B	40*	XF1252 February 1998,
Hochiki, DFJ-90D, Heat Type D	40*	Compatibility Assessment
<i>The above detectors with Hochiki YBO-RL/4A base</i>		
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,
Hochiki, SIH-AM, Smoke Photoelectric	40*	Compatibility Assessment
<i>The above detectors with Hochiki YBC-RL/4AHA base</i>		
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,
Hochiki SLK-A, Smoke Photoelectric	40*	Compatibility Assessment.
<i>The above detectors with Hochiki YBC-RL/4AHA base</i>		
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,
Olsen, C23BEx, Smoke Ionisation	40*	AS 1603.4-1987 inc. amdt 1 & 2.
<i>The above detectors with Olsen Z23 non indicating base</i>		
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,
Olsen, C29B, Smoke Ionisation	40*	Compatibility Assessment
<i>The above detectors with Olsen Z500 base & Tyco/Olsen E500 Mk 2 remote indicator</i>		
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*	"

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 398	21-May-1990	Number 14	Issue date 1-May-2018	30-Apr-2019
				Page 10 of 17

Activating device	Max. number of devices allowed per ADR 1901-14-B AZF 4 mA and EOL002Z (pulsed)	Test report
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.

Activating device	Max. number of devices allowed per ADR 1901-14-B AZF 4 mA and EOL002Z (pulsed)	Test report
Olsen P76B, Smoke with Olsen Z72 base	18	XB1246, November 1993, Compatibility Assessment
Olsen R23B, Flame	30	"
Olsen R24BEx, Flame	13	"
Olsen T54B, Type E Heat	40*	F316, April 1990, AS 1603.4 -1987 inc. amdt 1 & 2
Olsen T56B Mk V Type A,B,C or D Heat with Olsen Z54B, Z54B Mk 2, Z55B base	40*	XB1033 April 1993, Compatibility Assessment
Olsen T56B Mk V Type A,B,C, or D Heat with Olsen Z51B, Z54B or Z54B Mk 2 base	40*	XB1045, March 1993, Compatibility Assessment
Olsen, T56B Mk V, Type A,B,C or D Heat 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.

Activating device	Max. number of devices allowed per ADR 4 mA and EOL Active Type	Test report
Minerva, MD614, Heat Type A	40*	XF1875/R1, May 2002
Minerva, MD614, Heat Type C	40*	AS 4428.1-1998
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 Minerva M614 Universal non-indicating base		
Tyco, T614A, Heat Type A	40*	XF1910/R1, July 2002
Tyco, T614B, Heat Type B	40*	AS 4428.1-1997
Tyco, T614C, Heat Type C	40*	"
Tyco, T614D, Heat Type D	40*	"
The above detectors with Minerva MUB/M614 Universal non-indicating base.		

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

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 398	21-May-1990	Number 14	Issue date 1-May-2018	30-Apr-2019
				Page 11 of 17

Activating device	Max. number of devices allowed per ADR 4 mA and EOL 39 kΩ	Test report
Minerva, MD614, Heat Type A	1	XF1875/R1, May 2002
Minerva, MD614, Heat Type C	1	AS 4428.1-1998
Minerva, MF614, Smoke Ionisation	1	"
Minerva, MR614, Smoke Photoelectric	1	"
Minerva, MR614T, Smoke Photoelectric	1	"
Minerva, MU614, Carbon Monoxide	1	"
<i>The above detectors with Minerva M614 Universal non-indicating base</i>		
Tyco, T614A, Heat Type A	1	XF1910/R1, July 2002
Tyco, T614B, Heat Type B	1	AS 4428.1-1997
Tyco, T614C, Heat Type C	1	"
Tyco, T614D, Heat Type D	1	"
<i>The above detectors with Minerva MUB/M614 Universal non-indicating base.</i>		

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.

Activating 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	Test report
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.

Activating 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	Test report
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.

Activating 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	Test report
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.

Activating 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	Test report
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.

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 398	21-May-1990	Number 14	Issue date 1-May-2018	30-Apr-2019
				Page 12 of 17

Activating device	Max. number of devices allowed per ADR-M 1901-198 15V MCP (EOL 39 kΩ passive)	Test report
Hochiki, DCA-B-60R Mk V, Heat Type A	40*	XF1856/R1, December 2001
Hochiki, DCA-B-90R Mk I, Heat Type C	40*	Compatibility Assessment
Hochiki, DFE-60B, Heat Type B	40*	AS 1603.4-1987 inc. amdt 1 & 2.
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	"
<i>The above detectors with YBC-RL/4AH4 base</i>		
Minerva, MD614, Heat Type A	2	XF1624/R3, February 2000
Minerva, MD614, Heat Type C	2	AS 1603.4 -1987 inc. amdt 1 & 2.
Minerva, MF614, Smoke Ionisation	1	"
Minerva, MR614, Smoke Photoelectric	1	"
Minerva, MR614T, Smoke Photoelectric	1	"
Minerva, MU614, Carbon Monoxide	2	"
<i>The above detectors with Minerva M614 Universal non-indicating base</i>		
Olsen C23B, Smoke Ionisation	1	XF1856/R1, December 2001
Olsen C24B, Smoke Ionisation	1	Compatibility Assessment
Olsen C29B, Smoke Ionisation	2	AS 1603.4-1987 inc. amdt 1 & 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*	"
<i>The above detectors with Olsen Z54B, Z54B Mk2, Z56, Z55 or Z500 base</i>		
Olsen P29B, Smoke Photoelectric with Olsen Z54B, Z54B Mk2, or Z55 base	1	XF1856/R1, December 2001 Compatibility Assessment
Olsen B111B, Optical Beam	40*	AS 1603.4-1987 inc. amdt 1 & 2.
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
Simplex, 4098-9619EA, Heat Type B	1	Compatibility Assessment
Simplex, 4098-9621EA, Heat Type D	1	AS 4428.0-1997 Appendix E
Simplex, 4098-9601EA, Smoke Photoelectric	1	"
Simplex, 4098-9603EA, Smoke Ionisation	1	"
<i>The above detectors with Simplex 4098-9788EA base</i>		
Tyco, SU0600, Manual Call Point	24	XF1875/R1, May 2002 AS 4428.1-1998
Tyco, T614A, Heat Type A	40*	XF1910/R1, July 2002
Tyco, T614B, Heat Type B	40*	AS 4428.1-1997
Tyco, T614C, Heat Type C	40*	"
Tyco, T614D, Heat Type D	40*	"
<i>The above detectors with Minerva MUB/M614 Universal non-indicating base</i>		

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

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

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 398	21-May-1990	Number 14	Issue date 1-May-2018	30-Apr-2019
				Page 13 of 17

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

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

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

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 398	21-May-1990	Number 14	Issue date 1-May-2018	30-Apr-2019
				Page 14 of 17

Activating device	Max. number of devices allowed per ADR-M 1901-198 15V MCP (EOL active)	Test report
Olsen, B111B, Optical Beam	40*	XF1856/R1, December 2001
Olsen, FW81B, Heat Type E Cable	1000m	Compatibility Assessment
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
Simplex, 4098-9619EA, Heat Type B	40*	Compatibility Assessment
Simplex, 4098-9621EA, Heat Type D	40*	AS 4428.0-1997 Appendix E
Simplex, 4098-9601EA, Smoke Photoelectric	40*	"
Simplex, 4098-9603EA, Smoke Ionisation	40*	"
<i>The above detectors with Simplex 4098-9788EA base</i>		
Tyco, SU0600, Manual Call Point	40*	XF1875/R1, May 2002 AS 4428.1-1998
Tyco, T614A, Heat Type A	40*	XF1910/R1, July 2002
Tyco, T614B, Heat Type B	40*	AS 4428.1-1997
Tyco, T614C, Heat Type C	40*	"
Tyco, T614D, Heat Type D	40*	"
<i>The above detectors with Minerva MUB/M614 Universal non-indicating base</i>		

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

Activating device	Max. number of devices allowed per Tyco ZAU401 (Rev2) 22V EOL 3k9Ω	Test report
Thorn, S231f+, Infra-red flame (Note 1)	5	XF1875/R1, July 2002
Thorn, S231f+, Infra-red flame and Isolating Barrier KFDO-CS-EX1.51 or 2.51P (Note 1)	5	AS 4428.1-1998
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.

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 398	21-May-1990	Number 14	Issue date 1-May-2018	30-Apr-2019
				Page 15 of 17

Analogue Addressable Responder (AAR)

Device type	Max addressable points on analogue loop	Max addressable points on analogue line	Test report
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*	"
<i>The above detectors with Olsen Z72B Mk2 base</i>			
Olsen, C73A, Smoke Ionisation	200	40*	XB1320/R1, May 1994
Olsen, P73A, Smoke Photoelectric	200	40*	AS 1603.4 -1987 inc. amdt 1 & 2.
<i>The above detectors with Olsen Z72B Mk2 base</i>			

Multi Protocol Responder (MPR)

Device type	Max addressable points on analogue loop	Max addressable points on analogue line	Report
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 (<i>Note1</i>)	99	40*	"
SCI 130 short circuit isolation	15	15	"
Tyco/Olsen, C131A, Smoke Ionisation	99	40*	XF1015, September 1994,
Tyco/Olsen, P131A, Smoke Photoelectric	99	40*	AS 1603.4-1987 inc. amdt 1 & 2
Tyco/Olsen, T131A, Heat Type A/B	99	40*	"
<i>The above detectors with Tyco Z131A and Z132A bases</i>			
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

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.

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 398	21-May-1990	Number 14	Issue date 1-May-2018	30-Apr-2019
				Page 16 of 17

DIM800 Detector Interface Module

Activating device	Max. number of devices allowed per DIM800 Detector Interface Module EOL 2 x 4K7 Resistors	Test report
Hard contact devices	40*	XF1760/R2, December 2001
Minerva, MD614, Heat Type A	40*	AS 4428.0-1997
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*	"
<i>The above detectors with Minerva MUB/M614 Universal non-indicating base.</i>		
Olsen, C24B, Smoke Ionisation	40*	XF1760/R2, December 2001
Olsen, C29BEx, Smoke Ionisation	40*	AS 4428.0-1997
Olsen, P136, Duct Sampling Unit	5	XF1930, September 2002, AS 4428.1 - 1998
Olsen, P24B, Smoke Photoelectric	24	XF1760/R2, December 2001
Olsen, P29B, Smoke Ionisation	20	AS 4428.0-1997
Olsen, T56B, Heat Type A,B,C or D	40*	"
<i>The above detectors with Olsen Z54B, Z54B Mk2, Z56, or Z500 base</i>		
Olsen, C24B, Smoke Ionisation	40*	XF1760/R2, December 2001
Olsen, C29BEx, Smoke Ionisation	40*	AS 4428.0-1997
Olsen, P24B, Smoke Photoelectric	24	"
Olsen, P29B, Smoke Ionisation	20	"
<i>The above detectors with Olsen Z52 base</i>		"
Olsen, R24B, Infra-red Flame	3	XF1760/R2, December 2001 AS 4428.0-1997
Olsen, T56B, Heat Type A,B,C or D with Olsen Z52, Z55, Z56, or Z500N base	40*	XF1760/R2, December 2001 AS 4428.0-1997
Simplex, 4098-9618EA, Heat Type A	24	XF1760/R2, December 2001
Simplex, 4098-9619EA, Heat Type B	24	AS 4428.0-1997
Simplex, 4098-9621EA, Heat Type D	24	"
Simplex, 4098-9601EA, Smoke Photoelectric	24	"
Simplex, 4098-9603EA, Smoke Ionisation	24	"
<i>The above detectors with Simplex 4098-9788EA base</i>		
Tyco, T614A, Heat Type A	26	XF1910/R1, July 2002
Tyco, T614B, Heat Type B	26	AS 4428.1-1997
Tyco, T614C, Heat Type C	26	"
Tyco, T614D, Heat Type D	26	"
<i>The above detectors with Minerva MUB/M614 Universal non-indicating base.</i>		
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.

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 398	21-May-1990	Number 14	Issue date 1-May-2018	30-Apr-2019

Page **17** of **17**

MX Protocol Responder (MXP)

Device type	Max addressable points on analogue loop	Max addressable points on analogue line	Report
Tyco MX, 814CH, Multi-Sensor, Carbon monoxide / Heat Type A/B	200	40*	XF1760/R1, May 2001
Tyco MX, 814H, Heat Type A, B, C, or D	200	40*	AS 4428.1-1998
Tyco MX, 814I, Smoke Ionisation	200	40*	"
Tyco MX, 814PH, Multi-Sensor, Photoelectric / Heat Type A/B	200	40*	"
<i>The above detectors with models Tyco Minerva MUB or Tyco MX 814RB, 814SB, and 814IB bases</i>			
Tyco, CP820, Manual Call Point	200	40*	XF1760/R1, May 2001
Tyco MX, 814RB, Relay Base	200	40*	AS 4428.1-1998
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*	"
DIM800, Detector Interface Module	200	40*	XF1861, February 2002 AS 4428.1-1998

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