



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1663	6-May-2004	Number 15	Issue date 1-May-2020	30-Apr-2021

Page 1 of 4

Product designation

Pertronic, Model F120A, fire indicator panel

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

Agent/distributor

Pertronic Industries Pty Limited
Unit B2, Hallmarc Business Park, 2A Westall Road, SPRINGVALE, VIC, AUSTRALIA, 3171

Registrant

Pertronic Industries Pty Limited
Unit B2, Hallmarc Business Park, 2A Westall Road, SPRINGVALE, VIC, AUSTRALIA, 3171

Producer

Pertronic Industries Limited
17 Eastern Hutt Road, WINGATE, LOWER HUTT, NEW ZEALAND, 5019

Conformance criteria and evaluation

The Pertronic, Model F120A, fire indicator panel 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).

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

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.

Issued by

David Whittaker
Executive Officer – ActivFire Scheme



Schedule to Certificate of Conformity

Certificate num.	Registration date	Version		Valid until	
afp - 1663	6-May-2004	Number 15	Issue date 1-May-2020	30-Apr-2021	Page 2 of 4

Producer's description

The Pertronic, Model F120A, fire indicator panel is microprocessor based equipment functioning as a Class 1 distributed digital/analogue addressable system. The system incorporates two fault tolerant analogue addressable loops.

The standard FIP capacity can be increased to allow for 20 loops by fitting a two loop expansion card on to the main PCB. Each loop accommodates up to 198 addressable devices allowing a maximum of 99 sensors and 99 monitor/control modules. The Pertronic F120A Loop Responder and Relay Responder allow for conventional detector circuits and relay outputs to be used on the loop. The F120A Loop Responder provides for 8 conventional detector circuits and one relay output, and the manufacturer states that a maximum of 11 Conventional Detector Loop Responders may be used on the loop.

The F120A Relay Responder provides for 4 relay outputs which may be monitored or non-monitored, and the manufacturer states that a maximum of 24 Relay Loop Responders may be used on the loop.

Technical specification

The following details are a representative extract of the technical specification for the Pertronic, Model F120A, fire indicator panel and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Zone indication:	Up to 256 physical zones.
Loop capacity:	2 to 20 analogue addressable loops. Support for up to 159 detectors and 99 modules per loop.
Power supply:	230Vac, 50Hz, 80W.
Stand-by current:	2-loop 165mA. 40 mA each additional 2 loop board.
Battery:	
Nominated battery capacity:	24 Vdc, 17Ah.
Battery charger:	
Voltage setting:	27.4 V.
Maximum rated output:	4 A.
Current limit device rating:	10 A (fuse).

Supplementary information

Evaluated modules

Module description	Assembly number	Rev	PCB number	iss	Tech. drawing number	iss
F120A main board	PBF120MAST	3.12.A	PBF120MAST	3.12.A	0040	3.12.A
3A power supply	SM24/3	19/02 /07	-	-	-	-
F200A keyboard display unit	F120A A-A2	1.31	F120A A-A2	1.31	F120A A-A2	1.31
F120 keyboard Mk2	-	2.00		2.00	0042	2.00
F100A LCD remote mimic	F120A-A2		F120A-A2		F120A-A2	1.6
Pertronic 8 circuit, 1 relay loop responder (F100LR)	AA8LR	40	AA8LR	40	AA8LR	40
Pertronic 4 way relay loop responder (monitored – 100LRU)	AA4MMR	2.06	AA4MMR	2.06	AA4MMR	2.06
Loop driver card	F120A	1.43	F120A	1.43	F120A	1.43
F120 Loop Driver II	PCF120LOOPDCH	1.15	PCF120LOOPDCH	1.15	0042	1.15
F120 Power distribution board	PBF120POWERD	2.00	PBF120POWERD	2.00	0054	2.00
Network interface	PCNETIFAC	2.09	PCNETIFAC	2.09	0700	2.09

EPROMS:

System firmware	Version 4.01.03a/G3
Firmware F120K LCD	Version 1.5

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1663	6-May-2004	Number 15	Issue date 1-May-2020	30-Apr-2021
				Page 3 of 4

Loop driver F120LD2	Version 2.18
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Addressable devices:

Device	Max addressable points on analogue loop	Max addressable points on analogue line	Reference
System Sensor, M500MB monitor module	99	40*	XF1456/R2, Feb 2000, AS 4428.1- 1998
System Sensor, M501MB monitor module (miniature)	99	40*	
System Sensor, M503ME monitor module (micro with LED)	99	40*	
System Sensor, M500CH control module	99	40*	
System Sensor, M500X zone isolator	99	40*	
Pertronic (Firetronic), AA8LR S Circuit, 1 relay loop responder	11	n/a	
Pertronic (Firetronic), AA4MRR 4 way relay responder	24	n/a	
System Sensor M221E multi module	33	33	XF2359_R1, Dec 2008
System Sensor M512ME monitor module	99	40	

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

Actuating devices:

AZF module: Pertronic loop protocol

Nominal detector line voltage: 17 V

Device	Max addressable points on analogue loop	Maximum addressable points on analogue line	Reference
System Sensor, 1251AUS, Smoke Ionisation	99	40*	XF1456/R2, Feb 2000, AS 4428.1- 1998
System Sensor, 2251AUS, Smoke Photoelectric	99	40*	
System Sensor, 3251AUS, Sensor	99	40*	
The above detectors with the System Sensor B501 base.			
System Sensor, M500KAC, MCP	99	40*	XF2359_R1, Dec 2008
System Sensor 1251BPI	159	40*	
System Sensor 2251BPI	159	40*	
System Sensor 5251BAUS	99	40*	
System Sensor 5251RBAUS	99	40*	
System Sensor 2251TMBAUS	99	40*	
System Sensor MCP5A	99	40*	
	99	40*	

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

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version		Valid until	Page 4 of 4
afp - 1663	6-May-2004	Number 15	Issue date 1-May-2020	30-Apr-2021	

AZF module: Responder Module Rev. 1:

Device	Maximum number of devices per AZF	Reference
System Sensor, 51A51, Heat Type A	40*	XF1742/R1, Dec 2000,
System Sensor, 51C51, Heat Type C	40*	Compatibility Assessment
The above detectors with the System Sensor B401 base.		

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