



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 395	31-Jan-1990	Number 12	Issue date 1-May-2018	30-Apr-2019

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Product designation

Simplex, Model 4100, fire indicator panel

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

Agent/distributor

Simplex Fire Products
47 Gilby Road, MOUNT WAVERLEY, VIC, AUSTRALIA, 3149

Registrant

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

Producer

Simplex Time Recorder Co.
Simplex Plaza, GARDNER, MA, UNITED STATES, 01441-0001

Conformance criteria and evaluation

The Simplex, Model 4100, fire indicator panel 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 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. Compatibility of this fire detector and its base assembly with new or existing control and indicating equipment 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



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Producer's description

The Simplex, Model 4100, fire indicator panel is a microprocessor based fire alarm system. The basic 4100 system contains eight initiating device circuits, two indicating appliance circuits, two auxiliary alarm relays, an interface board for local annunciators, a trouble relay, and a configurable notification circuit.

The Simplex, Model 4100, fire indicator panel contains a Master Controller Card, Field Wiring Termination Module, 80-character Alphanumeric Display, Power Supply, and enclosure. Optional combinations of up to 512 alarm zones and signal circuits can be fitted. provision is made for serial communication with remote equipment. Audible and visual indications are provided to indicate abnormal conditions when they exist within the system.

An Alarm Acknowledgment Module (AAM), consisting of a wall-mounted faceplate housing a normally open momentary pushbutton and high intensity red LED, Simplex Model 4098-9714EA Photoelectric Smoke Detector mounted on a Simplex, Model 4098-9794 base assembly, and a Simplex 4090-9001 Input Alarm Module can be optionally fitted to the Simplex, Model 4100, fire indicator panel.

Technical specification

The following details are a representative extract of the technical specification for the Simplex, Model 4100, 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.

Power Supply

Model:	562-808
Nominal output voltage:	27.4 V
Maximum rated output current:	5 A
Circuit current limit:	5 A
AC secondary fuse rating:	5 A

Battery Charger

Voltage setting:	27.4 V
Circuit current limit:	0.8 A
AC secondary fuse rating:	5 A

Panel

Quiescent load:	0.72 A @ 27.4 V
Maximum power supply load requirement:	1.16 A
Battery capacity for 8 AZF's:	21.7 AH (Incorporating 4 daughter cards & 32 remote zones)
Manufacturer's nominated battery capacity:	38 AH

Supplementary information

Evaluated modules

Module	Assembly number	Rev	PCB number	Iss	Tech. drawing number	Iss	Reference
Master Controller Display Board	562-711	B	562-770 562-794	A11 B	841-633 841-643	B B	89/FS218, Dec.-1989, AS 1603.4-1987
External Serial Interface Communication	562-793	D	562-792	A	841-728	B	
8 point Monitor	562-731	B	562-730	B	841-616	C	
Signal Card Relay 6 Circuit	562-755	B	652-752	C	841-625	C	
Signal Card Relay Assembly 2 Circuit	562-782	B	562-752	C	841-625	C	
Motherboard Class B	562-799	C	-	-	841-646	A	
Motherboard Class	562-727	A	-	-	841-617	B	
Brigade Interface	002-039	-	001-552	-	002-039-S	-	
4100 Fuse Card Secondary	002-038	-	001-531	-	002-038-S	-	89/FS218, Dec.-1989,
8 LED Module	562-822	B	-	-	841-624	A	AS 1603.4-1987
16 LED Module	562-806	B	-	-	841-618	A	
8 LED Switch	562-814	B	-	-	841-622	A	

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Module	Assembly number	Rev	PCB number	Iss	Tech. drawing number	Iss	Reference
16 LED/8 Switch	562-747	B	-	-	841-623	A	
16 LED/8 Switch	562-805	B	-	-	841-623	A	
Battery Test Module	002-045	-	015-549	-	002-045-S	-	
Power Supply Module	562-808	ER	562-807	B	841-651	E	
Remote Control Board Assembly	562-819	D	-	-	841-655	B	
Remote Control Unit	562-876	A	-	-	841-655	B	
16 LED Board (Status Com. Unit)	562-817	A	-	-	841-654	C	
Remote (Serial Interface Board)	562-791	B	-	-	841-728		
Graphic I/O	562-789	B	562-788	B	-	-	89/FS218, Dec.1989,
LED Switch Controller	562-729	C	562-728	C	841-615	B	AS 1603.4-1987
Status Command Unit	-	-	962-794	B	841-654	C	
Alarm Acknowledgment Module	AAM						XF1689/R1, Sep 2000 SSL Test Specification FTS-136 v1.4
Simplex Modular Network Interface Card (NIC)	565-516	B	656-515	B	-		XF1727/R1, Jun 2001 AS 4428.1-1998
Simplex RS485 Media Module for NIC	565-413	B	565-413	C	-		
Simplex Fibre Optics Media Module for NIC	565-261	D	565-261	D	-		
Simplex 8 zone Monitor Card P/N 4100-5004 (conventional zone interface card)	565-226	D	565-226	C	-		

EPROMS:

4100 Master U34	Rev. 1.05 4/10 23D9	Network Interface card U6 DNET 4100	740-927 3.02.93-6A31 Date 23/1/98
	Rev 1.06.01 18/9/89	4100 Lower U149-0	Rev A9.02.15
Phase 1 U33	5/5/89 8/9/89	4100 Upper U16-0	Rev A9.02.15
REM Bus 740-633	Rev. 1.02 1/12/89		
SCU Fan 740-602	Rev 1.06 16/11/1988 & 1/12/1989		

Actuating devices:

Device	AAM	Reference
Simplex, 4098-9714 Smoke with Simplex 4098-9794 base	500	XF1689/R1 Sep. 2000 SSL Test Specification FTS-136v1.4

Device	Maximum number of devices allowed per AZF562-731 Rev B 8 Pt Monitor Card	Reference
Apollo, Series 60 P/N 55000-105AUS Heat Type A	40*	XB1065, 29-Apr-93,
Apollo, Series 60 P/N 55000-106AUS Heat Type B	40*	Compatibility Report
Apollo, Series 60 P/N 55000-107AUS Heat Type C	40*	
Apollo, Series 60 P/N 55000-108AUS Heat Type D	40*	
Apollo, Series 60 P/N 55000-204AUS Heat Smoke	40*	
Apollo, Series 60 P/N 55000-310AUS Heat Smoke	40*	
The above detectors with Apollo 45681-200 base		

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Device	Maximum number of devices allowed per AZF562-731 Rev B 8 Pt Monitor Card	Reference
Cerberus, DO1191A Beam	1	XF1535/R1, 01-Mar-99, Compatibility Report
Hochiki, DCA-B-60R Mk V Heat Type A	40*	89/FS218, Dec. 1989,
Hochiki, DCA-B-90R Mk I Heat Type C	40*	AS 1603.4-1987 inc. amdt 1 & 2
<i>The above detectors with Hochiki YBC-RL/4AH4 base.</i>		
Hochiki, DCC-A Heat Type A	40*	XB0994, 16-Dec-92,
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/R2, Feb. 1998,
Hochiki, DCD-C Heat Type C	40*	Compatibility Assessment
<i>The above detectors with Hochiki YBO-R/4A base.</i>		
Hochiki, DFE-60B Heat Type B	40*	XB0994, 16-Dec-92,
Hochiki, DFE-90D Heat Type D	40*	Compatibility Assessment
<i>The above detectors with Hochiki YBC-RL/4AH4 base.</i>		
Hochiki, DFJ-60B Heat Type B	40*	XF1252/R2, Feb. 1998,
Hochiki, DFJ-90D Heat Type D	40*	Compatibility Assessment
<i>The above detectors with Hochiki YBO-R/4A base</i>		
Hochiki, HF-24A Mk I UV Flame	14	89/FS218, Dec. 1989
Hochiki, SIF-A Mk I Smoke with Hochiki YBC-RL/4AH4 base.	40*	AS 1603.4-1987 inc. amdt 1 & 2
Hochiki, SIJ-ASN Smoke with Hochiki YBO-R/4A base	40*	XF1252/R2, Feb. 1998, Compatibility Assessment
Hochiki, SLG-A Mk I Smoke	40*	89/FS218, Dec. 1989,
Hochiki, SLK-A Smoke	40*	Compatibility Assessment
<i>The above detectors with Hochiki YBC-RL/4AH4 base.</i>		
Hochiki, SLR-AS Smoke with Hochiki YBO-R/4A base	40*	XF1252/R2, Feb. 1998, Compatibility Assessment
Olsen, B111B Beam Smoke	40*	SSL Letter, 21-Jun-1991,
Olsen, C24B Smoke	33	Compatibility Assessment
Olsen, C29BEx Smoke	40*	
<i>The above detectors with Olsen Z54B base</i>		
Olsen, C29BEx Smoke with Z54BEx base	40*	SSL Letter, 21-Jun-1991,
Olsen, P24B Smoke	25	Compatibility Assessment
Olsen, P29B Smoke	20	
<i>The above detectors with Olsen Z54B base</i>		
Olsen, R23B Infrared Flame	19	SSL Letter, 21-Jun-1991
Olsen, R24BEx, R24B Infrared Flame	3	Compatibility Assessment
Olsen, T54B Probe Heat	40*	
Olsen, T56B, Heat Type A, B, C or D with Olsen Z54B or Z55B base.	40*	
Olsen, V41B/V42B UV Flame	40*	
Olsen/Cerberus, FW81B Type E H/D Cable	1	
Brooks, PFS-A Heat Type A	40*	XB0808, Mar. 1992
Brooks, PFS-B Heat Type B	40*	Compatibility Assessment
Brooks, PFS-C Heat Type C	40*	
Brooks, PFS-D Heat Type D	40*	
Brooks, PFS-I Smoke	24	
Brooks, PFS-I MkII Smoke	40*	
Brooks, PFS-P Smoke	24	
Brooks, PFS-P MkII Smoke	31	
<i>The above detectors with Brooks PFS-BA MkII base.</i>		
Simplex, 2098-9201 Smoke	40*	XF1017, Sep.1994
Simplex, 2098-9576 Smoke	40*	Compatibility Assessment
Simplex, 4098-9413 Heat Type A	40*	
Simplex, 4098-9414 Heat Type B	40*	

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Device	Maximum number of devices allowed per AZF562-731 Rev B 8 Pt Monitor Card	Reference
Simplex, 4098-9415 Heat Type C	40*	
Simplex, 4098-9416 Heat Type D	40*	
<i>The above detectors with Simplex 2098-2911 base</i>		
Simplex, 4098-9601EA, Smoke Photoelectric	30	XF1727/R1, Jun 2001
Simplex, 4098-9603EA, Smoke Ionisation	30	AS 4428.1 - 1998
Simplex, 4098-9618EA, Heat Type A	30	
Simplex, 4098-9619EA, Heat Type B	30	
Simplex, 4098-9621EA, Heat Type C	30	
<i>The above detectors with Simplex 4098-9788EA base</i>		

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