



ACTIVE FIRE PROTECTION-EQUIPMENT LISTING SCHEME

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LISTING NUMBER

**afp - 395**

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## **PRODUCT LISTING DATA SHEET** **(Active Fire Protection Equipment)**

### **Product designation**

#### **Simplex, Model 4100, fire indicator panel**

(Refer to the Technical Specification section of this document for further specific detail)

### **Supplier**

#### **Simplex Fire Products**

47 Gilby Road, MOUNT WAVERLEY, VIC, AUSTRALIA, 3149

### **Manufacturer**

#### **Simplex Time Recorder Co.**

Simplex Plaza, GARDNER, MA, USA, 01441-0001

### **Supplier'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.

### **Conformance criteria and evaluation**

The Simplex, Model 4100, fire indicator panel complies with the requirements of Australian Standard AS 4428.1-1998, 'Fire detection, warning, control and intercom systems - Control and indicating equipment - Fire' and Australia Standard AS 1603.4-1987, including amendment numbers 1 & 2, 'Automatic Fire Detection and Alarms Systems, Control and Indicating Equipment'..

Listing is subject to ActivFire Scheme terms and conditions as applicable to the designated registrant and supplier.



This product listing data sheet should be read in conjunction with the general requirements of the terms and conditions of listing under the ActivFire Scheme.

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Executive Officer

### Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this Product Listing Data Sheet, are derived from qualifications within the report of the testing agency and/or other related technical documentation. It is recommended that all details with respect to design, assembly and installation restrictions should be checked against the designated supplier's/manufacturer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Compatibility of the Simplex, Model 4100, fire indicator panel with detectors and base assemblies should be confirmed prior to installation.

### 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 supplier's/manufacturer'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

#### Tested Modules:

Module	Assembly Number	Rev	PCB Number	Iss	Tech. Drawing Number	Iss	Test Report
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	-	

**Supplementary information (continued)****Tested Modules: (continued)**

Module	Assembly Number	Rev	PCB Number	Iss	Tech. Drawing Number	Iss	Test Report
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	
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		

**Activating Devices:**

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

**Supplementary information (continued)****Activating Devices (continued\_**

<b>Activating device</b>	<b>Maximum number of devices allowed per AZF562-731 Rev B 8 Pt Monitor Card</b>	<b>Test report</b>
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*	
<i>The above detectors with Apollo 45681-200 base</i>		
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 <i>with Hochiki YBC-RL/4AH4 base.</i>	40*	AS 1603.4-1987 inc. amdt 1 & 2
Hochiki, SIJ-ASN Smoke <i>with Hochiki YBO-R/4A base</i>	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 <i>with Hochiki YBO-R/4A base</i>	40*	XF1252/R2, Feb. 1998, Compatibility Assessment

\* The maximum allowed by code.

**Supplementary information (continued)****Activating Devices: (continued)**

Activating device	Maximum number of devices allowed per AZF562-731 Rev B 8 Pt Monitor Card	Test report
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*	
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>		

\* The maximum allowed by code.