



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1174	16-Nov-1998	Number 12	Issue date 1-May-2018	30-Apr-2019

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Product designation

Simplex, Model 4100, emergency warning & intercommunication system 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, emergency warning & intercommunication system panel has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 2220.1-1989, 'Emergency warning and intercommunication systems in buildings - Equipment design and manufacture' incl. Amdt 1 (November 1989) / Amdt 2 (August 1993).

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.

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, emergency warning & intercommunication system panel provides automatic alert signal and evacuation signal/messages over two pre-programmed speaker circuits.

Alert and Evacuate signals may be manually initiated either to all areas of a building or to specific areas within the building. The dedicated system microphone provides live voice message delivery to any area within the building. Two-way communications on each zone are available with the Warden Intercommunication Phone system (WIP's). Six WIP's were installed for six zones.

The functions and quantity of the led /switch modules depend on the desired options and the number of zones in the audio system. Standard switches are momentary action and LED indicator modules are provided for Fire Indicating Panel (FIP) or Manual Call Point alarm inputs.

Technical specification

The following details are a representative extract of the technical specification for the Simplex, Model 4100, emergency warning & intercommunication system panel and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Manufacturer's system specifications:

Size:	1530 mm (H) x 735 mm (W) X 204 mm (D)
Weight:	50 kg (without batteries)
Colour:	Magnolia
Primary power supply:	240 VAC +6% -10%
Secondary power supply:	24 V DC, 2 X Yuasa batteries in series
Communications:	1 x Serial RS 485 Facility
Environmental:	
Operating temperature:	-10°C to +55°C
Relative humidity:	75 %

Module current consumption	I Quiescent	I Operational
Master Controller	25 mA at 24 V 20 mA at 8 V	-
64/64 LED/Switch Controller	15 mA	260 mA
Master LCD Display	300 mA at 5 V	58 mA at 5 V
4100 Network Interface Card	10 mA at 24 V 300 mA at 8 V	-
8 Zone Monitor Card	16 mA at 24 V 32 mA at 8 V	80 mA per zone
24 Point I/O Graphic Interface	55 mA at 8 V	150 mA per output 16 mA per input at 24 V
2120/RS232 Interface Card	135 mA at 24 V	-
25 W Amplifier Board with Digital Voice		2.8 A at 24 V
50 W Amplifier Board with Digital Voice	350 mA	5.4 A at 24 V
Pre Amplifier Board	25 mA at 24 V	-
6 Zone WIP Card	28 mA at 24 V 25 mA at 8 V	10 mA For each relay point 10 mA For each monitor point
PA Microphone/Keypad	30 mA at 24 V	-

Circuit: Speaker E.O.L: 10k ohms
Circuit: BGA/FIP E.O.L: 3k3 ohms
Circuit: WIP E.O.L : 10k ohms

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Supplementary information

External devices:

Characteristics	Model / part number
Audio Telex 5 W, 100 mm ceiling speaker with ATC 5006R multi- tapped transformer	ATC5010-1
Audio Telex Loudspeaker with ATC 5006R multi- tapped transformer	ATC510M
Altronics 5 W, 100 mm ceiling speaker with M1115 multi- tapped transformer	C2105
Simplex noise cancelling microphone	275-002
Warden Intercom hand set (Modified TB-RC Aiphone)	2084 - 9106

Evaluated modules

Module description	Part number	Rev	PCB number	iss	Tech. drawing number	Rev
Master Controller and LCD Display	4100-7003		565-333 & 565-331	G B	841-901 Sht's 1 To 5	E
4100 Network Interface Card	4100-0140		565-189	F	841-864 Sht's 1 To 5	E
8 Point Auxiliary Relay Card	4100-3003		565-045	E	841-818 Sht's 1 To 2	B
8 Zone Monitor Card	4100-5002		562-731	C	841-616 Sht's 1 To 2	C
Power supply/Charger 10 A DC-DC Converter	4100-6005		002-116		002-116 Sht 1	G
10 A Expansion supply/ Communicating power supply controller	4100-6005		565-247	D	841-863 Sht's 1 To 7	D
64/64 LED/Switch Controller Card	4100-0301		562-729	E	841-615 Sht's 1 To 2	C
6 Zone WIP Card	4100-4322		002-131		841-744 AUS Sht 1	E
24 Point I/O Graphic Interface	4100-0302		562-789	J	841-630 Sht's 1 To 2	G
Master Phone	4100-0205		562-991	F	841-734 Sht 1 and MASTER-PH	D
2120 /RS232 Interface Card	4100-0113		565-004	F	841-760 Sht's 1 To 5	E
25 W Amplifier Board with Digital Voice	002-121		001-032		002-121 Sht 1	
50 W Amplifier Board with Digital Voice	002-123		001-032		002-123 Sht 1	
All Call Amplifier Board with EPROM	002-003B		001-032B		002-003B Sht 1	B
Amplifier Interface Board	002-122		004-013		002-122 Sht 1	
Pre-amplifier Board	002-064		001-781		002-064 Sht 1	
WIP Mother Board	002-132		562-799-AUS	C	841-646 Sht 1	
PA Microphone/ Keyswitch	4110-0410					
Master Phone Switch	625-216					
Master Phone Handset	625-218					
Master Phone Inductor	635-947					
Mat 4 Relay						

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EPROMS:

ALL CALL, 25 and 50 W AMPS IC3	Rev. 1.4A
Master Phone U1	Rev. 1.03
Master Controller U14 & U16	Rev. 7.04