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relevant evidence.

conditions

Certificate of Conformity

Registration date Valid until Certificate num. Version Number Issue date Page 1 of 5 afp - 1122 27-Oct-1997 30-Apr-2025 22 3-Apr-2024

Product designation

Inertia Fire Systems, Inertia 2000, emergency warning & intercommunication system panel

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

Agent/distributor

Honeywell Security and Fire

9 Columbia Way, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

Registrant

Johnson Controls Fire Detection

17 Mary Muller Drive, Hillsborough, Christchurch, NEW ZEALAND, 8022

Producer

Johnson Controls Fire Detection

17 Mary Muller Drive, Hillsborough, Christchurch, NEW ZEALAND, 8022

Conformance criteria and evaluation

The Inertia Fire Systems, Inertia 2000, emergency warning & intercommunication system panel has been evaluated and verified as conforming with the relevant requirements of the following criteria.

Australian Standard AS 2220.1-1989, 'Emergency warning and intercommunication systems in 1. buildings - Equipment design and manufacture'.

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.

- If the Aiphone TSBE RED WIP handset is installed inside the Inertia Fire Systems, Inertia 2000, i. emergency warning & intercommunication system panel, the Sound Pressure Level is required to exceed 80 dB(A) at a distance of one metre and be distinguishable from fault / alarm audible indicator operation.
- When the Altronics Firephone A2095 WIP handset is used in the Emergency Control Panel ii. (ECP), the distinctive audible call sounder shall be provided by the controlling ECP.

Issued by

Kai Loh Executive Officer – ActivFire Scheme



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Producer's description

The Inertia Fire Systems, Inertia 2000, emergency warning & intercommunication system panel is a dual microprocessor based system for the emergency warning and the intercommunication system. Under non-emergency conditions, the emergency warning system can be used for the distribution of background music or public address announcements.

The Inertia Fire Systems, Inertia 2000, emergency warning & intercommunication system panel consists of a master panel containing the control keys and status indicators for system function as well as the first two evacuation zones. To expand the ECP above the initial two zones, additional eight zone display/keyboard expansion modules are added. The theoretical limit to the number of zones is 256 and is dependent on the rating of the power supply and associated power buss.

The EWIS can be configured for 1 WIP per zone or 3 WIP's per zone. The equipment has been arranged through software driven control functions to support up to 16 remote Secondary Emergency Control Panels via a dual path, optically isolated asynchronous communication link.

Technical specification

The following details are a representative extract of the technical specification for the Inertia Fire Systems, Inertia 2000, 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.

Power supply/battery chargers:

Model	Power supply	upply Battery Charger			Reference	
PSU 308	27.28Vdc @ 1	12 A	27.27 Vdc @ (12.24-I	q) A	F410/R1, Dec. 1991,	
					AS 2220.1-1989 incl. amdt. 1	
PSU 2403	27.31 Vdc @	3 A	27.31 Vdc @ (3.05-Iq	•	"	
SEPS 9009	27.23 Vdc @	2 A	27.23 Vdc @ (2.68-Iq) A	"	
PSU 2406	27.1Vdc @ 6	A	27.1 Vdc @ (6-Iq) A		XF1513/R2, Jan. 2000,	
PSU 2412	27.1Vdc @ 6	A	27.1 Vdc @ (12-Iq) A		AS 2220.1-1989 incl. amdt. 1 & 2. "	
Visible Alert/Evac. E	EOL:	2k7 Ohms				
WIP EOL:		10k Ohms				
FIP's/BGA's EOL:		10 V Zener Di	ode			
Speaker EOL:		56k Ohms				
Module Power Co	onsumption					
Module		(Iq) Quiesc	ent Current	(Io) Ope	rational	
Typical System (M	IECP)	2.45 A		-		
Typical System (SE	ECP)	360 mA		-		
ECP 9702	ECP 9702 220 mA		8 mA per act		er active led	
EMSP 8911		10 mA		8 mA pe	nA per active led	
EMUX 9601		110 mA		-		
EAMP 9001	EAMP 9001		60 mA		0.8 A - 10 W Amplifier	
			1.8 A - 25 W Amplifier		25 W Amplifier	
WIPS 9004		200 mA Pl	us 2 mA per WIP	-		
FIB 8910		28 mA Plu	s 8 mA per input	-		
FIPE 9004		8 mA per	input	-		
STRM 9502		40 mA pe	r input	30 mA per strobe output plus strobe current		
Fluorescent Light	· · ·			0.27 A		
PSU 2406		10 mA		-		
PSU 2412		10 mA		-		
ECM 9603	ECM 9603		135 mA @ 9.6 Vdc to			
		85 mA @	85 mA @ 24 Vdc			
SPIF9709 10 mA		10 - 80 m				
MWIP9903	IP9903 80 mA				14 mA per WIP	
AMP200	120 mA			12.4 A		
HAMP9308		60 mA	60 mA		3.1 A / 50 W Amp	
				6.2 A / 1	100 W Amp	
RING9006		20 mA				
STBT9008		5 mA				
STBM9008	TBM9008 45 mA			Plus str	obe current	

				•		
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	Sup	plementary	information			
External devices		Model/part num.		Reference		
Redford extended range loudspeakers with M1109 multi-tapped transformer		C0626 and C2000 (Note 1)		F410/R1, Dec. 1991, AS 2220.1-1989, incl. amdt. 1		
Audio Telex Extended range loudspeaker with ATC 5006R multi-tapped transformer		ATC 5010				
MERRY Electronic microphone		DM-538				
TELEX microphone		NC450D		•		
University sound microphone		US602FL				
Warden intercom hand set		AIPHONE TB-RC				
Emergency alarm bre	ak glass <u>:</u>					
KAC of Alcester (England)		KWB901/SW				
Carters of Burnley (England)		P30				
Visible alarm device:						
KOBISHI 24 V/DC 250 mA strobe light		SL-5				
Warden intercom hand set		Altronics A2095 Fire Phone		XF1378/R1, May-98 AS 2220.1-1989, incl. amdt. 1 & 2.		
Warden intercom hand set		Aiphone TBSE RED		XF1511/R1, May 1999 AS 2220.1-1989, incl amdt. 1 & 2		

Note 1: Needs 5 terminals on speaker to facilitate coupling capacitor

Evaluated modules

Module	Assembly designation (code/rev.)	PCB designation (code/issue/rev.)	Technical drawing designation/ rev.	Reference
Emergency Control	PA0661 B/2	ECP 9002 /B	ECP 9002/2	F410/R1, Dec-1991
Module	PA0663 B/2		Sht's 1-9	AS 2220.1- 1989 incl. amdt. 1
8 Zone Expansion	PA0653 E/5	EMSP 8911/E	EMSP 8911/5	
Keyboard/ Display Module	PA0659 E/5		Sht's 1-2	
Signal Interface Module	PA0857 C/2/2	SE 9004/C	SE 9004/2 Sht 1	
Tone Generator Multiplexer Module	PA0654 C/8	EMUX 9002/C	EMUX 9002/8 Sht's 1-4	
Audio Amplifier Module (4x10 W or 2x25 W (bridged)	PA0650 D/5	EAMP 9001/D	EAMP 9001/5 Sht's 1-3	
Line Transformer (4 x 10 W)	PA0655 2/3	TRAN 8872-1/2	TRAN 8872-1/3 Sht 1	F410/R1, Dec-1991 AS 2220.1- 1989 incl. amdt. 1
Line Transformer Module (2 x 25 W)	PA0664 2/3	TRAN 8872-2/2	TRAN 8872-2/3 Sht 1	
Fire Alarm/BGA Master Module	PA0851 E/7	FIB 8910/E	FIB 8910/7 Sht's 1-3	
Fire Alarm/BGA Expansion Module	PA0852 C/4	FIPE 9004/C	FIPE 9004/4 Sht 1	
Warden Intercommunications Phone Slave Module	PA0662 E/6/2	WIPS 9004/E	WIPS 9004/6 Sht's 1-5	
WIP Termination Module	PA0858 C/3	WTRM 9007/C	WTRM 9007/3 Sht 1	
Strobe Driver Module	PA0667 2/4	STBM 9008/2	STBM 9008/4 sht's 1-3	
Strobe Termination	PA0668 C/3/3	STBT 9008/C	STBT 9008/3 Sht 1	
Backplane Module	PA0660 A/1	BPLN 20000/A	BPLN 2001/3 Sht 1	XF1834/R1, February 2002, AS 2220-1989, incl. amdt. 1 & 2
Power Supply / Battery Charger	699-156 D/2	699-140/D	699-140/2.2 Sht 1	F410/R1, December 1991 AS 2220-1989, incl. amdt. 1

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Module	Assembly designation (code/rev.)	PCB designation (code/issue/rev.)	Technical drawing designation/ rev.	Reference	
Siemens Mains Filter	B84108-K40-A				
(4 Amps) SECP Power Supply	PA0669 1/2	SEPS 9009/1	SEPS 9009/2		
SECF FOWEI Supply	FA0009 1/2	3LF3 9009/1	Sht 1		
SECP Power Supply Monitor	PA0666 1/3	EPSM 9007/1	EPSM 9007/3 Sht 1		
Power Supply / Battery Charger	PSU2403	699-160/B	699-160/1 Sht 1		
Power Supply Indicator	PA0678 A/1	699-159/A	699-159/1 Sht 1		
Murata Mains Filter (5 Amps)	PLF-2V-5RA-501				
WIP Master Phone Ring9006	PA 0656 C/3	RING 9006/C	RING 9006/3 Sht 1		
MECP Signal	PA0677 A/2/1	MEXP 9103/A	MEXP 9103/2 Sht 1		
Transformer Module 2 x 50 W zones	PA0691 A/4/2	HTRN 9308/A	HTRN9308/4	XB1238/R1, AS 2220.1-198	May 1994, 9, incl. amdt. 1
Transformer Module 1 x 100 W Zone	PA0692 A/4/3	HTRN 9308/A	HTRN9308/4		
High Power Audio Amplifier 2 x 50W / x 100W	PA0690 C/8/2	HAMP 9308/C	HAMP9308/8 Sht's 1-4		
Strobe Relay Module STRM9502	PA0697 D/4/2	STRM 9502/D	STRM 9502/4 Sht's 1-2	XF1135/R1,F AS 2220-1989,	eb. 1996, incl. amdt. 1 & 2.
Secondary Panel Interface Module SPIF9506	PA0699 B/4/2	SPIF 9506/B	SPIF 9506/4 Sht's 1-2		
Secondary Panel Interface Module SPIF9709	PA0849 A/1/2	SPIF 9709/A	SPIF 9709/1	XF1466/R1,A AS 2220-1989,	ug. 1999, incl. amdt. 1 & 2.
Emergency Control Panel ECP9702	PA0641 B/4	ЕСР9702/В	ECP9702/4, Sht's 1 to 9	XF1398/R2, AS 2220.1-198 2	9, incl. amdt. 1 &
Emergency Control Panel ECP9702	PA0643 B/4	ECP9702/B	ECP9702/4, Sht's 1 to 9		
4 X 25W Line Transformer	PA0791 A/1/2	TRAN 9705-1/A	TRAN 9705-1/1, Sht 1		
4 X 25W Line Transformer with Relays	PA0792 A/1/2	TRAN 9705-2/A	TRAN 9705-2/1, Sht 1		
2 X 25W Line Transformer	PA0793 A/1/2	TRAN 9705-3/A	TRAN 9705-3/1, Sht 1		
2 X 25W Line Transformer with Relays	PA0794 A/1/2	TRAN 9705-4/A	TRAN 9705-4/1, Sht 1		
4 X 10W Line Transformer	PA0795 A/1/2	TRAN 9706-1/A	TRAN 9706-1/1, Sht 1		
4 X 10W Line Transformer with Relays	PA0796 A/1/2	TRAN 9706-2/A	TRAN 9706-2/1, Sht 1		
PSU 2406 'brick (ME0330) Monitor / Mains Termination Board	PA0811 B/3/2	1966-1-1/B	1966-1-1/3 Sht. 1	XF1513/R2, J AS 2220.1-198 2.	an-2000, 9, incl. amdt. 1 &
PSU 2406 'rack mounting' (ME0330) Monitor / Mains Termination Board	PA0811 B/3/2	1966-1-1/B	1966-1-1/3 Sht. 1		
PSU 2412 'rack mounting (ME0330) Monitor / Mains Termination Board	PA0813 B/3/2	1966-1-2/B	1966-1-2/3 Sht. 1		
Powerbox Switching PSU	ME0332				

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Module	Assembly designation (code/rev.)	PCB designation (code/issue/rev.)	Technical dra designation/ rev.	0	
Evacuation Communications Module ECM9603	PA0698 B/3	ECM 9603/B	ECM 9603/3 Sht's 1 to 4	AS 2220.1-19 2	89, incl. amdt. 1 & November 2000,
Evacuation Multiplexer Module EMUX9601	PA0757 B/5	EMUX 9601/A/1	EMUX 9601 Sht's 1 to 4	/5	
200W Audio Amplifier AMP200	PA0647 B/2/2	AMP200/B	AMP200/2 Sht's 1-2		
200W Transformer TRAN200	PA0648 A/2	TRAN200/A	TRAN200/2 Sht 1		
8 Circuit Warden Intercommunication Phone (WIP) MWIP9903	PA0822 B/2	MWIP9903/B	MWIP9903, Sht's 1-4		Nov-2000 89, incl. amdt. 1 &
WIP Slave Card WIPS2000	PA0842 C/4	WIPS2000/C	WIPS2000/4 XF1834/R1, Feb-200 Sht's 1-4 AS 2220.1-1989, incl. a 2		,
WIP Termination Module WTRM2000	PA09922 A/1	WTRM2000/A	WTRM2000 Sht 1	/1	

System Eproms:

Module description	Reference				
ECP-EVAC (SF0107)	F410/R1, Dec-1991, AS 2220.1-1989, incl. amdt. 1.				
V 4.32	XL1091/R1, Jan-1996, Compliance Listing Audit				
ECP-WIP Master Site Specific (SF0177)	XL1145/R1, Mar-1998, Compliance Listing Audit				
V 2.09 C\$4885					
ECP-EVAC with ECM9603 (SF0209)					
V 3.20 C\$45A3					
MECP/SECP					
ECP WIP MASTER	XF1135/R1, Feb-1996, AS 2220.1-1989 incl. amdt 1 & 2				
V 2.06 101A (U52)	XL1145/R1, Mar-1998, Compliance Listing Audit				
ECP EVAC V 2.24					
FIP/BGA Mater Module (SF0127)	XF1135/R1, Feb-1996, AS 2220.1-1989 incl. amdt 1 & 2				
V2.02 C\$C82D	XL1145/R1, Mar-1998, Compliance Listing Audit				
WIP Slave Module (SF0180)					
V1.51 C\$14D11A					
STROBE DRIVER MODULE	F410/R1, Dec-1991, AS 2220.1-1989, incl. amdt. 1.				
QE90 SLAVES (SF0120) V 1.49	-, , , , , ,				
C\$4BF8					
EMUX 9601 (SF0130)					
QE90 EMUX 9601 (U1)					
V 1.14 C\$75DA					
EMUX Speech (U2)					
16 sec Standard V 1.01					
EVAC/ALERT S 4843					
PSU2406/2412 (SF0189)	XF1513/R2, Jan. 2000, AS 2220.1-1989 incl. amdt. 1 & 2.				
U1 Ver. 1.4 0002F9BE	, , ,				
MWIP (SF0112) U5	XF1669/R2, Nov. 2000, AS 2220.1-1989 incl. amdt. 1 & 2.				
V 1.30 SEG. 6201	, ,,				
C\$284F					
ECM Module	XF1273/R2, Jul-2000, AS 2220.1-1989, incl. amdt. 1 & 2				
ECM 9603 (SF0136), V5.04 Site Specific	-, ,,				
Power Supplies	XF1513/R2, Jan-2000, AS 2220.1-1989, incl. amdt. 1 & 2				
PSU2406/2412 (U1) , V1.1	,,,,				
WIP 2000 Card	XF1834/R1, Feb-2002, AS 2220.1-1989, incl. amdt. 1 & 2				
U1, V1.66 \$90A5					