



CSIRO Verification Services Clayton, Victoria, Australia +61 13 0036 3400 https://activfire.csiro.au

## **Certificate of Conformity**

Certificate num.	Registration date	Version		Valid until	
afp - 603	12-Dec-1992	Number 19	Issue date 4-Apr-2024	30-Apr-2025	Page <b>1</b> of <b>3</b>

## Product designation

Ampac, Model EV3000, emergency warning & intercommunication system panel

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

### Agent/distributor

#### Ampac Pty Limited

7 Ledgar Road, BALCATTA, WA, AUSTRALIA, 6021

#### Registrant

Ampac Pty Limited

7 Ledgar Road, BALCATTA, WA, AUSTRALIA, 6021

Producer

Ampac Pty Limited

7 Ledgar Road, BALCATTA, WA, AUSTRALIA, 6021

### Conformance criteria and evaluation

The Ampac, Model EV3000, 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'.

### 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.



Kaj Loh Executive Officer – ActivFire Scheme





This certificate remains the property of CSIRO and may be subject to amendment, suspension or withdrawal at any time. The validity and authenticity of this certificate can be verified by the certification register located at <u>https://activfire.csiro.au</u>

## Schedule to Certificate of Conformity

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#### **Producer's description**

The Ampac, Model EV3000, emergency warning & intercommunication system panel is a microprocessor based system incorporating modular plug-in expandable subassemblies of eight zones. The total number of zones is only limited by the ratings of the power supply and associated power buss. The equipment has been arranged through software driven control functions to support up to 50 remote modules on an RS 485 serial communications line, including Secondary Control Panels and VDU/printer interfaces. An expandable modular power supply arrangement is available with full battery path monitoring.

The EV3000 has separate controls for the Emergency Warning and the Emergency Intercommunications System. Discrete membrane touch switches and associated indicators provide a display of the system status.

#### **Technical specification**

The following details are a representative extract of the technical specification for the Ampac, Model EV3000, 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 charger:			
Model:	API-482 (4 off)		
	25.75 Amps/(28.69-Iq) Amps		
	27.39 Vdc/27.39 Vdc		
Power supply/battery charger:			
Model:	G0018		
	7.0 Amps/(6.45-Iq) Amps		
	27.12 Vdc/27.12 Vdc		
Visible alert/evacuation EOL:	10k Ohms		
FIP's EOL:	10k Ohms		
Common FIP EOL:	10k Ohms		
WIP/BGA's EOL:	10k Ohms		
Speaker EOL:	47k Ohms		

#### Module power consumption:

Module	(Iq) Quiescent current	(Io) Operational	
Basic System(MECP)	2.45 A	-	
API-479 Master Control Board	50 mA plus (230 mA @ 8 Vdc)	-	
Master Control Board	50 mA	-	
Evac EAID/FIB	8 Vdc/150 mA	-	
Power Supply Assembly Cooling Fan			
Module			
Option 1: 1 Fan	-	300 mA	
Option 2: 2 Fans	-	600 mA	
Option 3: 3 Fans	-	900 mA	
EWS/EIS key board	8Vdc/420 mA	-	
Microphone Pre-Amp Board	30 mA	-	
Power Amplifier (40W)	58 mA	1.72 A	
Evac/FIP Input Board	8Vdc/330 mA	-	
Visual Control Board	50 mA	-	
Master WIP Phone Assembly	100 mA	-	

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Supplementary information						
	30	ppiementary	normation			
External devices			Model or p	art no.		
TOA Dome ceiling speak	er - 100 mm with multi tapp	ed transformer	SPK PC38R			
TOA Horn Speaker - with	n in-built line transformer		SPK TOA TC1	.0MZ		
TOA Horn Speaker - with	n in-built line transformer		SPK TOA TC1	.5MZ		
Altronics Speaker - 100	mm with M1110 multi-tappe	d transformer	SPKC 2104			
Altronics Speaker - 200 I	mm with M1106 multi-tappe	d transformer	SPKE 2110			
Altronics Horn Speaker -	15 watts with multi-tapped	transformer	SPKC 2032			
Altronics Horn Speaker -	10 watts with in-built line tr	ansformer	SPKC 2027			
Audio Telex Speaker - 10	00 mm with multi-tapped tra	nsformer	SPKATC 510			
Arista Microphone			DM700			
Philips Microphone			D090			
ELVOX Warden intercom	n handsets- red		G0014 MA1			
Emergency alarm break	glass – white		MCPD 101			
Visible alarm devices 24	V/DC - 250 mA					
Strobe – Amber			SL5			
Strobe – Red			SL5			
Module		Number rev	PCB numbe	er Technical dr	awing	
MAF Board		302-4220	API-422C	A0422CC1.S0	1-8	
Master Control Board		302-479B	API-479B	A0479CC3.S0	1	
Evac EAID/FIB Control B	oard	302-4930	API-493	A0493CC1.S0	1	
Power Supply Common	Mother Board	302-533C	API-533C	A0533CC3.S0	1	
Battery Charger Mother	Board	302-470B	API-470B	A0470CC2.S0	1	
Power Supply Superviso	ry Board	302-471B	API-471B	A0471CC3.SC	H	
Power Supply		302-4820	API-482	A0482CC2.S0	1	
EWIS Control Key Board	Master/Slave	302-4800	API-480	A0480CC1.S0	1-2	
Microphone Pre-amplifi	er Board	302-475C	API-475C	A0475CC5.SC	H	
Amplifier Mother Board		302-476B	API-476B	A0476CC3.S0	1	
Audio Amplifier 40 Watt	:	302-478A	API-478A	A0478CC3.S0	1	
Microphone BGM Mixer		302-484B	API-484B	A0484CC3.SC	Н	
Speaker Line Output Ter	mination Board	302-490B	API-490B	A0490CC6.S0	1	
Auxiliary Mother Board		302-492B	API-492B	A0492CC2.S0	1	
Evac FIP Input Board		302-4940	API-494A	A0494CC2.S0	1	
Visual Display Output Bo	bard	302-4970	API-497A	A0497CC1.S0	1	
Visual Control Board		302-5030	API-503A	A0503CC2.S0	1	
Audio Termination Boar	d	302-4990	API-499C	A0499CC1.S0	1	
EIS Line Termination Boa	ard	302-496B	API-496B	A0496CC3.S0	1	
Master EIS Phone Board		302-498C	API-498C	A0499CC4.S0	1	
Elvox Handset Mic. Boar	d	302-473D	API-473D	A0473CC2.S0	1	
EIS Phone Board		302-472G	API-472G	A0472CC2.SC	H	
EIS Control Board		302-474B	API-474B	A0474CC3.S0	1	
EIS Mother Board		302-4770	API-477	A0477CC1.S0	1	
Serial Isolation Board		302-4580	API-458	A0458CC1.S0	1-3	
General Purpose Power	Supply G0018	302-543C	API-543C	A0543CC5.S0	1	
PSU Supervisory		302-442A	API-442A	A0442CC2.S0	1	
Tone/Speech Generator		302-491B	API-491B	A0491CC2.S0	1	

Software:

V14 Main CPU V950510