



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 603</b>	12-Dec-1992	Number 14	Issue date 28-Jun-2019	30-Apr-2020

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## Product designation

**Ampac, Model EV3000, emergency warning & intercommunication system panel**

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

## Agent/distributor

Ampac Pty Ltd  
7 Ledger Road, BALCATTA, WA, AUSTRALIA, 6021

## Registrant

Ampac Pty Ltd  
7 Ledger Road, BALCATTA, WA, AUSTRALIA, 6021

### Producer

Ampac Pty Ltd  
7 Ledger 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.

Issued by

David Whittaker  
Executive Officer – ActivFire Scheme



# 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.

<b>Power supply/battery charger:</b>	
<b>Model:</b>	API-482 (4 off)
	25.75 Amps/(28.69-Iq) Amps
	27.39 Vdc/27.39 Vdc
<b>Power supply/battery charger:</b>	
<b>Model:</b>	G0018
	7.0 Amps/(6.45-Iq) Amps
	27.12 Vdc/27.12 Vdc
<b>Visible alert/evacuation EOL:</b>	10k Ohms
<b>FIP's EOL:</b>	10k Ohms
<b>Common FIP EOL:</b>	10k Ohms
<b>WIP/BGA's EOL:</b>	10k Ohms
<b>Speaker EOL:</b>	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

External devices	Model or part no.
TOA Dome ceiling speaker - 100 mm with multi tapped transformer	SPK PC38R
TOA Horn Speaker - with in-built line transformer	SPK TOA TC10MZ
TOA Horn Speaker - with in-built line transformer	SPK TOA TC15MZ
Altronic Speaker - 100 mm with M1110 multi-tapped transformer	SPKC 2104
Altronic Speaker - 200 mm with M1106 multi-tapped transformer	SPKE 2110
Altronic Horn Speaker - 15 watts with multi-tapped transformer	SPKC 2032
Altronic Horn Speaker - 10 watts with in-built line transformer	SPKC 2027
Audio Telex Speaker - 100 mm with multi-tapped transformer	SPKATC 510
Arista Microphone	DM700
Philips Microphone	D090
ELVOX Warden intercom handsets- red	G0014 MA1
Emergency alarm break glass – white	MCPD 101
<b>Visible alarm devices 24V/DC - 250 mA</b>	
Strobe – Amber	SL5
Strobe – Red	SL5

Module	Number rev	PCB number	Technical drawing
MAF Board	302-4220	API-422C	A0422CC1.S01-8
Master Control Board	302-479B	API-479B	A0479CC3.S01
Evac EAID/FIB Control Board	302-4930	API-493	A0493CC1.S01
Power Supply Common Mother Board	302-533C	API-533C	A0533CC3.S01
Battery Charger Mother Board	302-470B	API-470B	A0470CC2.S01
Power Supply Supervisory Board	302-471B	API-471B	A0471CC3.SCH
Power Supply	302-4820	API-482	A0482CC2.S01
EWIS Control Key Board Master/Slave	302-4800	API-480	A0480CC1.S01-2
Microphone Pre-amplifier Board	302-475C	API-475C	A0475CC5.SCH
Amplifier Mother Board	302-476B	API-476B	A0476CC3.S01
Audio Amplifier 40 Watt	302-478A	API-478A	A0478CC3.S01
Microphone BGM Mixer	302-484B	API-484B	A0484CC3.SCH
Speaker Line Output Termination Board	302-490B	API-490B	A0490CC6.S01
Auxiliary Mother Board	302-492B	API-492B	A0492CC2.S01
Evac FIP Input Board	302-4940	API-494A	A0494CC2.S01
Visual Display Output Board	302-4970	API-497A	A0497CC1.S01
Visual Control Board	302-5030	API-503A	A0503CC2.S01
Audio Termination Board	302-4990	API-499C	A0499CC1.S01
EIS Line Termination Board	302-496B	API-496B	A0496CC3.S01
Master EIS Phone Board	302-498C	API-498C	A0499CC4.S01
Elvox Handset Mic. Board	302-473D	API-473D	A0473CC2.S01
EIS Phone Board	302-472G	API-472G	A0472CC2.SCH
EIS Control Board	302-474B	API-474B	A0474CC3.S01
EIS Mother Board	302-4770	API-477	A0477CC1.S01
Serial Isolation Board	302-4580	API-458	A0458CC1.S01-3
General Purpose Power Supply G0018	302-543C	API-543C	A0543CC5.S01
PSU Supervisory	302-442A	API-442A	A0442CC2.S01
Tone/Speech Generator	302-491B	API-491B	A0491CC2.S01

### Software:

V14 Main CPU

V950510