



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 3940	7-Apr-2025	Number 3	Issue date 15-Apr-2026	30-Apr-2027

Product designation

Ampac, EvacU Elite and FireFinder Plus Combo, Combined Fire Detection, Emergency Warning and Emergency Intercom, Control and Indicating Equipment

(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, EvacU Elite and FireFinder Plus Combo, Combined Fire Detection, Emergency Warning and Emergency Intercom, Control and Indicating Equipment has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 7240.2-2004, 'Fire detection and alarm systems - Part 2: Control and indicating equipment (ISO 7240-2:2003, MOD)'.
2. Australian Standard AS 7240.4-2004, 'Fire detection and alarm systems - Part 4: Power supply equipment (ISO 7240-4:2003, MOD)'.
3. Australian Standard AS 4428.3-2010, 'Fire detection, warning, control and intercom systems - Control and indicating equipment - Fire brigade panel'.
4. Australian Standard AS 4428.4:2016, 'Fire detection, warning, control and intercom systems - Control and indicating equipment Part 4: Emergency intercom control and indicating equipment'.
5. Australian Standard AS 4428.16:2020, 'Fire detection, warning, control and intercom systems - Control and indicating equipment Part 16: Emergency warning control and indicating equipment'.

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

Kaj Loh
Executive Officer – ActivFire Scheme



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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.

- i. All parts of the system (FDCIE, EWCIE, EICIE, PSE and ancillaries) are mounted in a single enclosure or adjacent enclosures.
- ii. The enclosure is fitted with the labels as described in the report CSBA0141/R1 to meet the marking requirements of Clause 15 of AS 4428.3:2010, Clause 15 of AS 4428.4:2016, Clause 17 of AS 4428.16:2020, Clause 15 of AS 7240.2:2004 and Clause 8 of AS 7240.4:2004.
- iii. The system is installed and maintained as recommended by the Manufacturer.
- iv. Primary PSU: The earth fault monitoring slider switch must be set to the ON position on the primary PSU.
- v. Operating temperature of Ampac, EvacU Elite and FireFinder Plus Combo, Combined Fire Detection, Emergency Warning and Emergency Intercom, Control and Indicating Equipment: -5 °C – 40 °C.
- vi. This equipment is installed in environmental conditions which are within the manufacturer's specified range.
- vii. Compatibility of this equipment with new or existing actuating devices should be verified prior to installation.
- viii. The ASS63HPA, 150 W high power amplifier module was only evaluated and verified as conforming to AS 4428.16:2020.

Producer's description

The Ampac, EvacU Elite and FireFinder Plus Combo, Combined Fire Detection, Emergency Warning and Emergency Intercom, Control and Indicating Equipment is a combined fire detection control and indicating equipment (FDCIE), emergency warning intercommunicating system (EWIS), and emergency intercom control and indicating equipment (EICIE). It is available as either a wall mounted (13U or 16U) or a floor mounted unit (24U) with all units sharing power supply equipment.

The top section of the cabinet houses the Ampac FireFinder PLUS Addressable Fire Alarm Control Panel and the bottom section(s) house the Ampac EvacUElite EWIS. Details of 13U, 16U and 24U combined system capabilities:

- The 24U cabinet can accommodate four universal racks, the 16U cabinet can accommodate two universal racks and the 13U cabinet can accommodate 1 universal rack.
- The primary (GUI) graphical touchscreen user interface incorporates the menu system, common and individual controls and indicators for emergency zones. Secondary graphical user interfaces support additional individual controls and indicators for emergency zones as required.
- The 13U/16U combined system supports up to four loop detection circuits; the 24U combined system supports up to eight loop detection circuits.
- For the 13U/16U cabinets, supports two GUIs and the 24U cabinet supports five GUIs.

The combined system can function as standalone equipment or as a node in a network.

Universal rack frames accommodate the following module cards:

- CPU card / Network Interface card
- 8-way output cards for Strobes & VADs - with a 2-wire reverse polarity connection option available
- Eight input multi-purpose interface card with HLI
- Dual 25 Watt Amplifier.
- Single Output 50 Watt Amplifier
- 150 Watt Amplifier with built in 4 way splitter.
- 4-way Radial WIP handset interface
- Dual Loop WIP handset interface (supports 20 WIP handsets per loop). 40 WIPs total

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The EWIS and EICIE mandatory indications are given on either the LED membrane or the graphical user interface (GUI). The LED membrane has separate LEDs for: general fault warning condition, general disablement condition, system fault, power present, power fault, earth fault, delay and test. The GUI is turned off in quiescent condition and is automatic ally switched on when there is a change in functional condition.

The FDCIE mandatory indications are given on the FireFinder Plus front panel LCD display (zonal indications) and its own dedicated LED membrane. The LED membrane has separate LEDs for: Zone device enable/disable, Alarm device fault/disable, Ancillary fault/disable, Delay override, alarm silenced, general disablement condition, general fault, system fault, power present, power fault, earth fault, pre-alarm and test.

Access to the mandatory controls on the EWIS GUI and CIE LCD display requires a mechanical key (Type 003) to open the outer door of the cabinet (Access Level 2 – AL2). The inner door requires a tool to open and allow access to the inside of the cabinet (Access Level 3 – AL3).

Technical specification

The following details are a representative extract of the technical specification for the Ampac, EvacU Elite and FireFinder Plus Combo, Combined Fire Detection, Emergency Warning and Emergency Intercom, Control and Indicating Equipment and may be subject to change. Complete and current details should be determined from the designated producer’s technical manual/data sheets.

Schedule of variant designations

The following is a schedule of validated variant designations of the cabinet sizes.

Variant	Dimensions
Metal 13U Combo	900 mm (H) x 650 mm (W) x 380 mm (D), including the outer door window.
Metal 16U Combo	1200 mm (H) x 650 mm (W) x 380 mm (D), including the outer door window.
Metal 24U Combo	1800 mm (H) x 650 mm (W) x 380 mm (D), including the outer door window.

Schedule of components and/or assemblies

The following is a schedule of validated components and/or assemblies of the certified/listed equipment.

Type	Variant Ident	Description	Mandatory / optional	Hardware version / issue	Software version		
AS 4428. 16 and AS 4428. 4 modules	BRD63LPA1-A		Dual 25 W amplifier	Optional	5.00	1.1.3.0	
	BRD63LPA1-B		Single 50 W amplifier	Optional	5.00	1.1.3.0	
	ASS63HPA *	BRD63HD C1-A	150 W high power amplifier*	HPA DC-DC converter	Optional	3.00	N/A
		BRD63HP A1-A		High powered amplifier board		4.00	1.0.17.0
	BRD63ABB1-A		All-purpose backplane	Mandatory	1.00	N/A	
	BRD63CPU1-A		Distribution CPU	Mandatory	7.00	1.5.0.69 / 1.1.5.2 (boot)	
	BRD63GUI1-A		Graphical user interface card - primary	Mandatory	8.00	1.2.8.0 / 1.0.11.0 (boot)	
	ASS63CPU -NET	BRD63NIC 1-A	Network distribution CPU	Network interface card	Optional	5.00	1.1.2.0
	BRD63GUI-B		Graphical user interface card - secondary	Optional	6.00	2.2.8.0 / 1.0.11.0 (boot)	
	BRD63MIC1-A		Multi-Purpose input card	Optional	4.00	1.1.4.0	
	BRD63MOC1-A		Multi-Purpose output card	Optional	4.00	1.1.7.0	
	BRD63ILC1-A		Quad radial line card	Optional	5.00	1.0.15.0	
	BRD63LILC1-A		Dual loop line card	Optional	4.00	1.0.9.0	
	BRD43CPI1-A		CAN PSU interface board	Mandatory	2.00	1.0.1.0	
	ASS63WIP M	BRD63HST 1-A	Primary WIP Handset	EvacU Elite primary board	Optional	1.00	N/A
	ASS63LWI P	BRD63LWI P1-A	Loop warden intercom phone	EvacU Elite secondary loop WIP	Optional	3.00	1.0.3.0
ASS63WIP S	BRD63WIP 1-A	EvacU Elite Radial WIP	EvacU Elite secondary radial board	Optional	4.01	1.0.0.0	

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Type	Variant		Description	Mandatory / optional	Hardware version / issue	Software version	
	Ident						
AS 7240. 2 modules		BRD86FPB5-A	FireFinder Plus front panel board	Mandatory	4.01	N/A	
		BRD86MBA4-A	FireFinder Plus main board non-chinese lcd	Mandatory	4.01	9.5.0.20	
		BRD86MPCU4-B	FireFinder Plus main CPU 64mb card	Mandatory	2.00	2.07.33.04	
		BRD86BPSC4-B	FireFinder Plus brigade & power supply ctrl board	Mandatory	4.01	3.1.1.11	
		BRD86DLTB4-A	FireFinder Plus dual loop termination board	Mandatory	2.00	N/A	
		BRD86SCB3-A	FireFinder Plus slave CPU card	Optional	2.00	9.5.0.20	
		BRD86FEPB3-A	FireFinder Plus expansion panel board	Optional	3.00	9.5.0.20	
AS 7240. 4 modules	ASS63PSU 12M	BRD63PCC 1-A	Evacu primary PSU	Power control card - primary	Mandatory	12.00	1.1.1.3
		RCB-1600-24		Power supply module - 27V 1600 W	Mandatory	N/A	N/A
		BRD63PDB1-A	Power distribution board	Mandatory	1.00	N/A	
	ASS63PSU 12S	BRD63PCC 1-B	Evacu secondary PSU	Power control card - secondary	Optional	13.00	1.1.1.3
		RCB-1600-24V		Power supply module - 27V 1600 W	Optional	N/A	N/A

Note: "*" indicates that the module was only evaluated and verified to conform to AS 4428.16:2020

Schedule of optional functions with requirements

The following schedule of AS 4428.16:2020 optional (or optional required) functions with requirements have been validated for the appropriate EWCIE grade as nominated.

Option	Grade 1
1. Indications:	
a. Alarm signals (CI 7.2)	Provided
b. Alert signal (CI 7.3)	Provided
c. Indication of the emergency warning condition (CL 7.5)	Provided
d. Audible signal of alarm signal reception (CI 7.6)	Provided
2. Controls:	
a. Delay before emergency warning condition (CI 7.7)	Provided
b. Phased evacuation for multi-zoned systems (CI 7.8)	Provided
c. Silencing the emergency warning condition from the emergency detection system (CI 7.9.1)	Not provided
d. Silencing the emergency warning condition with a manual control (CI 7.9.2)	Provided
e. Reset of the emergency warning condition from the emergency detection system (CI 7.10.1)	Not Provided
f. Reset of the emergency warning condition with a manual control (CI 7.10.2)	Provided
3. Outputs:	
a. Output to fire alarm devices (CI 7.11)	Provided
b. Emergency warning condition output signal (CI 7.12)	Provided
4. Disabled condition (CI 9)	Provided
5. Test condition and indication (CI 10)	Provided
a. Automatic/manual mode control (CI 11.1)	Provided
b. Manual control to networked EWCIE (CI 11.2)	Provided
c. Individual emergency zone controls (CI 12.1)	Provided
d. All emergency zone control (CI 12.2)	Provided
6. Interface to external device(s) (CI 13)	Not provided
7. Emergency microphone (CI 14)	Provided
a. Ready-to-talk indicator	Provided
8. Redundant power amplifiers (CI 15.15)	Not Provided
a. Dry heat, steady state test (operational) (CI 18.9)	Not Provided

The following schedule of AS 4428.4:2016 optional (or optional required) functions with requirements have been validated.

Option	
1. Fault warning condition:	
a. External silencing of the EICIE fault condition (CI 8.8)	Provided
2. Zone cleared condition (CI 9)	Provided

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Option	
3. Controls:	
a. Manual control for networked EICIE (CI 10)	Provided
b. Manual controls of EICIE (CI 11)	Provided
c. WIP group call control (CI 11.2)	Provided
d. Interface to external control device(s) (CI 12)	Not provided
4. Integrity of transmission paths:	
a. Paths to remote power supplies (CI 13.5.4)	Provided
5. Operational	
a. Dry heat, steady state test (operational) (CI 16.6)	Not Provided
b. Group WIP call	Provided

The following schedule of AS 7240.2–2004 optional (or optional-required) functions with requirements have been validated.

Option	
1. Indications:	
a. Alarm counter (CI. 7.13)	Not Provided
b. Fault signals from points (CI. 9.3)	Provided
c. Total loss of the power supply (CI. 9.4)	Not Provided
2. Controls:	
a. Delays to outputs (CI. 7.11)	Provided
b. Dependency on more than one alarm signal, Type A dependency (CI. 7.12.1)	Provided
c. Dependency on more than one alarm signal, Type B dependency (CI. 7.12.2)	Provided
d. Dependency on more than one alarm signal, Type C dependency (CI. 7.12.3)	Provided
e. Disabled condition (CI. 10)	Provided
f. Disablement of each addressable points (CI. 10.5)	Provided
g. Test condition, General requirements (CI. 11.1)	Provided
h. Test condition, Indication of the test condition (CI. 11.2)	Provided
i. Test condition, Indication of zones in test state (CI. 11.3)	Provided
j. Ancillary Control Function (ACF) (Annex ZA2 -> Item 3 -> Annex ZD)	Provided
3. Outputs:	
c. Output to fire alarm devices (CI. 7.8)	Provided
d. Control of fire alarm routing equipment (CI. 7.9)	Provided
e. Output to fire protection equipment (CI. 7.10)	Provided
f. Output of standard emergency evacuation signal (CI. 7.14)	Not Provided
g. Output to fault warning routing equipment (CI. 9.9)	Provided
h. Standardized input/output interface (CI. 12)	Provided
4. Supervisory signal condition (CI. 8)	Not Provided
5. Operational	
b. Impact (operational) (CI. 16.6: not optional -> Annex ZA2)	Provided
c. Vibration, sinusoidal (operational) (CI. 16.7: not optional -> Annex ZA2)	Provided
d. Alarm Acknowledgement Facility (Annex ZA2 -> Item 1 -> Annex ZB)	Provided
e. Dry Heat, Steady State (Operational) (Annex ZA2 -> Item 2 -> Annex ZC)	Not Provided
6. Marking requirements (CI. 15: additional requirements -> Annex ZA2)	Provided

The following schedule of AS 7240.4–2004 optional (or optional-required) functions with requirements have been validated.

Options	
1. Battery function check (CI. 5.5)	Provided
2. Marking (Annex ZA2 -> CI. 8 -> Annex ZB: additional requirements)	Provided
3. Impact (operational) (CI. 9.7: not optional -> Annex ZA2)	Provided
4. Vibration, sinusoidal (operational) (CI. 9.8: not optional -> Annex ZA2)	Provided
5. Vibration, sinusoidal (endurance) (CI. 9.11: not optional -> Annex ZA2)	Provided
6. Dry heat steady state (operational) (Annex ZA2 -> Item -> Annex ZC)	Not Provided

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Schedule of properties/characteristics

The following schedule is an extract of physical and operational properties/characteristics of the certified/listed equipment.

General:

Parameter	Metal 13U Combo	Metal 16U Combo	Metal 24U Combo
Mechanical			
Dimensions Cabinet (mm)	900 (H) x 650 (W) x 380 (D) Includes window outer door	1200 (H) x 650 (W) x 380 (D) Includes window outer door	1800 (H) x 650 (W) x 380 (D) Includes window outer door
Material:	1.6mm Mild Steel		
Environmental			
Temperature:	-5°C to + 40°C		
Humidity:	5% to 95% non-condensing		
IP rating:	IP30		
Mains input			
Input Voltage:	230VAC (195 - 253VAC)	230VAC (195 - 253VAC)	230VAC (195 - 253VAC)
Mains Current max:	13Amps	13Amps	19.5Amps
Internal Protection:	25A MCB	25A MCB	25A MCB
Minimum Cable Requirements:	Not less than 2.5mm ²	Not less than 2.5mm ²	Not less than 2.5mm ²
Power supply			
Power:	1200 to 2400Watt in 1200Watt increments	1200 to 2400Watt in 1200Watt increments	1200 to 3600Watt in 1200Watt increments
P _{max,A} (900W per PSU module):	Max 1800W	Max 1800W	Max is 2700W
P _{max,B} (1200W per PSU Module):	Max is 2400W	Max is 2400W	Max is 3600W
Protection:	Current Limiting	Current Limiting	Current Limiting
Quiescent Current (minimum)	500mA	500mA	500mA
Batteries / Battery Charger			
Approved LPCB Battery:	Power Sonic PS-121000B	Power Sonic PGFT-12V180 20hr rate	Power Sonic PGFT-12V180 20hr rate
Battery Type:	2x12V Sealed Lead Acid	2x12V Sealed Lead Acid	2x12V Sealed Lead Acid
Max Battery Capacity:	100AH	190AH	190AH
Max Battery Resistance	60 mΩ (1200W), 30mΩ (2400W)	60 mΩ (1200W), 30mΩ (2400W)	60 mΩ (1200W), 30mΩ (2400W), 20mΩ (3600W)
Panel			
Quiescent Current (minimum)	1 Loop 220mA		
Loops			
Maximum number of Loops:	4		8
Maximum Number of Devices:	126 / loop		126 / loop
Loop Current	500mA / loop		500mA / loop
Cabling Requirements:	2 core 1.5 -2.5mm ² Max length 1km		2 core 1.5 -2.5mm ² Max length 1km
Fault supervision:	O/C, S/C, over current		O/C, S/C, over current
Outputs			
Supervised Alarm (Current Limited):			
Alarm / Fault Relay Contacts:	24VDC @ 1A Max O/C, S/C, 10K EOL		
Auxiliary VDC – Protected:	24VDC @ 1A		
Cabling Requirements:	24VDC @ 2A 2 core 1 - 2.5mm ² Max length 1km		
Inputs			
Supervised:	O/C, S/C, 10K EOL		
Cabling Requirements:	2 core 1 - 2.5mm ² Max length 1km		
Communications			
Add-on Module Internal to FACP	RS485		
External to FACP	RS485		

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Graphical user interface:

Parameter	Detail
Display screen	9-inch TFT LCD 800 × 480 with LED backlight and resistive touch screen
Microphone	600 Ω with capsule monitoring
Emergency intercom headset	Electret capsule with 150 Ω speaker
USB support	Host (USB memory stick) and Device (mini-USB) connection
SD Card support	Yes
HLI (to 3 rd party FDCIE/Graphics)	1 × RJ45 connector with isolated RS 485
Ethernet support	2 × RJ45 with proprietary power and transformer isolation (not for general use)
Current consumption	0.185 amps (quiescent) and 0.207 amps (active)

Amplifier card:

Parameter	Dual 25 Watt	50 Watt	150 Watt
Amplifier	Class D amplifier with 2 × 25 Watt independent audio outputs	Class D amplifier with 1 × 50 Watt independent audio outputs	Class D amplifier with 150 Watt audio power and 4 audio outputs
Audio output 1	N/A	N/A	150 Watt (max)
Audio output 2 to 4	N/A	N/A	75 Watt (max) – total of 150 Watt per card
Distortion	<= 0.1% @ 25 Watt × 2	<= 0.1% @ 50 Watt × 1	<=0.3% @ 150 Watt × 1
Frequency response	400 Hz to 10 kHz ± 1 dB w.r.t 1 kHz 200 Hz to 12 kHz ± 3 dB w.r.t 1 kHz		300 Hz to 10 kHz ± 1 dB w.r.t 1 kHz 150 Hz to 12 kHz ± 3 dB w.r.t 1 kHz
SNR	>=70%		
Speaker circuit monitoring	DC, nominal 47 kΩ		
Max drive voltage	100 V _{RMS} @ full load		
Max output current	2 × 0.250 Amps	0.500 Amps	1.500 Amps
Max cable size	2.55 mm ² <small>Note 1</small>		
Input	2 × Audio streams @ 32 kHz 16-bit audio	Audio streams @ 32 kHz 16-bit audio	
No. of rack slots	2		
Current consumption	0.102 Amps (quiescent) and 2.47 amps (full audio load)	0.097 Amps (quiescent) and 2.33 amps (full audio load)	0.100 Amps (quiescent) and 7.500 Amps (full audio load)

Supplementary information

Schedule of relevant articles

The following schedule is an extract of articles significant and/or related as evidence of conformity.

Reference		Title / description	Date issued (or date validated)	Source
Ident. type	Ident.			
Report	CSBA0141/R1	Evaluation for Conformity of the Ampac EvacU Elite/FireFinder Plus Combo combined control and indicating equipment, voice alarm control and indicating equipment and power supply equipment to AS 7240.2:2004, AS 7240.4:2004 AS 4428.3:2010, AS 4428.4:2016 and AS 4428.16:2020	29-Aug-2014	CSIRO Fire Systems Laboratory, AU
Manual	MAN2994-8	AMPAC FireFinder Plus Fire Alarm Control Panel (AS7240-2&4 / AS 4428-3) Installation, Commissioning and Operation Manual (MAN2994-8 FireFinder Plus AS7240 Inst Comm.pdf)	12-Mar-2025	Ampac Pty Ltd, WA, AU
	MAN3137-6	AMPAC EvacU Elite Emergency Warning & Intercom System (EWIS) Install, Commission and User Manual (MAN3137-6 EvacU Elite Install Commission and User Manual .pdf)	17-Jun-2024	
	MAN3016-9	AMPAC ConfigManager ^{Plus} - Programming Software for Firefinder Plus Fire Alarm Control Panel	15-Feb-2024	
	TE248041-SW	Software Evaluation of the Ampac Group, FireFinder Plus of Control & Indicating Equipment to the requirements of Clause 13 in EN54-2	26-Sep-2012	