



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 3422	3-Feb-2020	Number 1	Issue date 4-Feb-2020	30-Apr-2021

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Product designation

Ampac, Models 4210-0110 and 4210-0120, warning signs

(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, Models 4210-0110 and 4210-0120, warning signs has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.11:2018, 'Part 11: Automatic fire detection and alarm systems - Visual warning devices'.

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. This equipment is used with the message plates provided by the Producer.
- ii. This equipment is connected to monitored outputs of FDCIE.
- iii. This equipment is fitted with cable glands as follows.

Model 4210-0110: IP21C.
Model 4210-0120: IP33C.

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 Ampac, Models 4210-0110 and 4210-0120, warning signs provide visual and audible indication of an alarm event and are designed for use with fire detection and alarm systems which may incorporate agent release capability.

The warning signs are available in two formats, the Model 4210-0110 for semi-flush or surface mount indoor applications while the Model 4210-0120 affords IP65 weatherproof capability for outdoor applications.

The warning signs incorporate a split-level design that enables two text messages to be independently controlled through the application of input voltages. The two levels may be activated by either a voltage reversing DC input or through application of a common positive and two switched negative DC inputs.

Option switches located inside the unit enable configuration for continuous or flashing red or yellow LEDs, enablement of an integral buzzer in continuous or pulsing mode of operation, enablement of a mute facility to silence the buzzer and or optional external sounder. A facility to synchronise the flashing between multiple signs is also provided.

Based on a maximum character height of the message plate, the rated maximum viewing distance is 6.68 m.

Technical specification

The following details are a representative extract of the technical specification for the Ampac, Models 4210-0110 and 4210-0120, warning signs 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 certified/listed equipment.

Variant		Warning sign fascia plates Part num.	Message	Illumination colour	Mean luminance category
Type	Ident.				
Model num.	4210-0110	4210-0131	"FIRE ALARM DO NOT ENTER"	Red / Yellow	Category 1 (25 Cd/m ² to 150 Cd/m ²) and Category 2 (100 Cd/m ² to 350 Cd/m ²)
		4210-0132	"FIRE ALARM EVACUATE AREA"		
		4210-0133	"DO NOT ENTER GAS DISCHARGED"		
		4210-0134	"FIRE DOOR CLOSING"		
		4210-0135	"EXTINGUISHING SYSTEM INOPERATIVE"		
	4210-0120	4210-0131	"FIRE ALARM DO NOT ENTER"	Red	Category 1 (25 Cd/m ² to 150 Cd/m ²) and Category 2 (100 Cd/m ² to 350 Cd/m ²)
				Yellow	Category 1 (25 Cd/m ² to 150 Cd/m ²)
		4210-0132	"FIRE ALARM EVACUATE AREA"	Red	Category 1 (25 Cd/m ² to 150 Cd/m ²) and Category 2 (100 Cd/m ² to 350 Cd/m ²)
				Yellow	Category 1 (25 Cd/m ² to 150 Cd/m ²)
		4210-0133	"DO NOT ENTER GAS DISCHARGED"	Red	Category 1 (25 Cd/m ² to 150 Cd/m ²) and Category 2 (100 Cd/m ² to 350 Cd/m ²)
				Yellow	Category 1 (25 Cd/m ² to 150 Cd/m ²)
		4210-0134	"FIRE DOOR CLOSING"	Red	Category 1 (25 Cd/m ² to 150 Cd/m ²) and Category 2 (100 Cd/m ² to 350 Cd/m ²)
				Yellow	Category 1 (25 Cd/m ² to 150 Cd/m ²)
		4210-0135	"EXTINGUISHING SYSTEM INOPERATIVE"	Red	Category 1 (25 Cd/m ² to 150 Cd/m ²) and Category 2 (100 Cd/m ² to 350 Cd/m ²)
				Yellow	Category 1 (25 Cd/m ² to 150 Cd/m ²)

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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.

Property/characteristic	Model 4210-0110	Model 4210-0120
Environmental category	Type A (conditioned indoor)	Type B (unconditioned indoor or protected outdoor)
Maximum viewing distance	6.68 m	
Dimensions (H x W x D)	195 mm x 325 mm x 50 mm	212 mm x 338 mm x 67 mm
IP rating	IP30	IP65
Material	ABS enclosure / Acrylic fascia plate	
LEDs	16 x Red & 16 x Yellow	
Input voltage	17 – 29 Vdc.	
Power incl. buzzer	Level 1 active – 50 mA at 24 Vdc	
	Level 1 & 2 active – 100 mA at 24 Vdc	
Operating temperature	-20°C to +55°C	
Humidity	0% to 95% non-condensing	
Buzzer mute I/P	Normally Open (close to mute)	
Sounder output	100 mA max (2 wire Bipolar or 3 wire	

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	XF3286/R1	Evaluation for Conformity of the AMPAC, Model 4210-0110 and Model 4210-0120 Visual Warning Devices to the requirements of AS 1603.11:2018	11-Dec-2019	CSIRO, Fire Systems Laboratory, AU
Manual	MAN3056-2	Ampac Advanced Warning Systems Warning Sign – Installation Guide Item Numbers – 4210-0110 & 4210-0120	3-Apr-2014	Ampac Pty Ltd, AU
Product Data Sheet	PDS4210-0110-1	Ampac Advanced Warning Systems Warning Signs	14-Jan-2014	