



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 3692	30-Aug-2022	Number 4	Issue date 15-Apr-2026	30-Apr-2027

Product designation

Ampac, Models 4210-0050 / 4210-0051 / 4210-0054 / 4210-0055, input/output device

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

Agent/distributor

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

Registrant

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

Producer

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

Conformance criteria and evaluation

The Ampac, Models 4210-0050 / 4210-0051 / 4210-0054 / 4210-0055, input/output device has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS ISO 7240.17:2021, 'Fire detection and fire alarm systems Part 17: Transmission path isolators'.
2. Australian Standard AS ISO 7240.18:2018, 'Fire detection and alarm systems - Part 18: Input/output 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.

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

Kai Loh
Executive Officer – ActivFire Scheme



Schedule to Certificate of Conformity

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Producer's description

The Ampac, Models 4210-0050 / 4210-0051 / 4210-0054 / 4210-0055, input/output device is designed to interface to a variety of plant control equipment such as door contacts, sprinkler flow switches, gas valves and fire fan control systems.

The equipment incorporates single pole, voltage free change over relay contacts and monitored switch inputs.

An input can be used to supervise one or more normally open contacts connected to a single pair of cables with monitoring provided for both open and short circuit fault conditions.

The Input circuit incorporates de-bounce circuitry for enhanced noise rejection and are protected against high transient voltages.

The Ampac, Models 4210-0050 / 4210-0051 / 4210-0054 / 4210-0055, input/output device is loop powered and includes bi-directional isolation circuitry for protection against detection loop short circuits. On board LED status indication is provided for service and commissioning purposes, a feature that can be deactivated during normal operation to reduce the current draw on the system.

Two packaging options are available. The 'DIN Mount' version enables the device to be mounted onto standard 35mm DIN rail or screwed direct to the back pan of a larger enclosure while the 'Enclosed' version allows the device to be surface mounted to a wall.

Technical specification

The following details are a representative extract of the technical specification for the Ampac, Models 4210-0050 / 4210-0051 / 4210-0054 / 4210-0055, input/output device 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		Description
Type	Ident	
Item No (Model)	4210-0050	DIN mount, loop powered, single input/output device with bi-directional short circuit isolation
	4210-0051	Surface mount, loop powered, single input/output device with bi-directional short circuit isolation
	4210-0054	DIN mount, loop powered, triple input/output device with bi-directional short circuit isolation
	4210-0055	Surface mount, enclosed, loop powered, triple input/output device with bi-directional short circuit isolation

Schedule of properties/characteristics

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

Item No.	4210-0050	4210-0051	4210-0054	4210-0055
Mount, enclosure	DIN	Surface, enclosed	DIN	Surface, enclosed
Operating voltage	17 to 28 Vdc (nominal voltage 27 Vdc)			
Quiescent current	LED's enabled: 1.84 mA LED's disabled: 1.29 mA		LED's enabled: 1.87 mA LED's disabled: 1.31 mA	
Output contact rating	1A at 30 Vac or Vdc			
Operating Temperature	-20°C to 70°C			
Humidity	0 to 95% RH (non-condensing or icing)			
Dimensions	75 mm H x 110 mm W x 25 mm D	75 mm H x 200 mm W x 52 mm D	75 mm H x 144 mm W x 25 mm D	150mm H x 200 mm W x 52 mm D
Material	Grey ABS			
IP rating	-	IP44	-	IP44

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Schedule of transmission path isolator characteristics

The following is schedule of transmission path isolator characteristics of the certified/listed equipment.

Parameter	Description	Value
V_{max}	Maximum line voltage	28 Vdc
V_{min}	Minimum line voltage	17 Vdc
$V_{SO\ max}$	Maximum voltage device isolates	16 Vdc
$V_{SO\ min}$	Minimum voltage device isolates	12 Vdc
$V_{SC\ max}$	Maximum voltage device reconnects	17 Vdc
$V_{SC\ min}$	Minimum voltage device reconnects	12 Vdc
$I_{C\ max}$	Maximum rated current	1 A
$I_{S\ max}$	Maximum rated switch current	3.3 A
$I_{L\ max}$	Maximum leakage current (test pulse)	60 mA
$Z_{C\ max}$	Maximum series impedance switch closed	100 m Ω

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
Type	Ident.			
Report	XF3359/R2	Evaluation for Conformity of the AMPAC 4210-005x series input output and zone interfaces to the requirements of AS ISO 7240.18:2018 and AS ISO 7240.17:2021	25-Aug-2022	CSIRO Fire Systems Laboratory, AU.
Document	PDS4210-0050	AMPAC Advanced Warning Systems Single Input Output Device	18-Apr-2013	Ampac Pty Limited, AU
	PDS4210-0054	AMPAC Advanced Warning Systems Three Input Output Device		
	MAN3052-1	AMPAC Advanced Warning Systems Input Output Device Range – Installation Guide Item Numbers – 4210-0050 to 4210-0057	17-Sep-2013	