



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 3439	3-Apr-2020	Number 4	Issue date 23-Mar-2023	30-Apr-2024

Product designation

Ampac, Model 4106-2001 (Part #: 55000-620AMP), XP95 optical smoke detector

(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

Conformance criteria and evaluation

The Ampac, Model 4106-2001 (Part #: 55000-620AMP), XP95 optical smoke detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 7240.7:2018, 'Fire detection and alarm systems - Part 7: Point-type smoke detectors using scattered light, transmitted light or ionization (ISO 7240-7:2018, MOD)'.

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. Compatibility of this fire detector and its base assembly with new or existing control and indicating equipment should be verified prior to installation.

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



Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
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Page 2 of 3

Producer's description

The Ampac, Model 4106-2001 (Part #: 55000-620AMP), XP95 optical smoke detector uses the light scattering principle and is intended for applications where slow-burning or smouldering fires are likely.

This smoke detector continuously monitors the environment for contamination of clean air by smoke particles.

The optical arrangement inside the detector uses an internal pulsing LED together with a photo-diode which is located at an obtuse angle. In normal clear air conditions, the photo-diode in the detector receives no light from the LED and produces a corresponding signal. This signal increases when smoke enters the chamber and light is scattered onto the photo-diode. The signal is processed by the electronic circuitry and transmitted to connected control equipment via a detection loop circuit.

The Ampac, Model 4106-2001 (Part #: 55000-620AMP), XP95 optical smoke detector is used in conjunction with the XP95 universal Detector Base which is used to configure the address of the detector

Technical specification

The following details are a representative extract of the technical specification for the Ampac, Model 4106-2001 (Part #: 55000-620AMP), XP95 optical smoke detector 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	Colour
Type	Ident.		
Model	4106-2001	XP95 Optical smoke detector	White
Part #	55000-620AMP		

Schedule of properties/characteristics

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

Operating voltage	17 to 28 Vdc	
Quiescent current	340 μ A average 600 μ A peak	
Alarm current LED on	3.5 mA	
Remote LED current	4 mA at 5V	
Dimensions	100 mm diameter x 50 mm height including base	
Sensitivity settings	Normal (100%)	3 % obs./m
	High (80%)	2.4 % obs./m
	Low (120%)	3.6 % obs./m
Operating temperature	-20°C to +60°C (no icing)	
Relative humidity	0 to 95% (non condensing)	
IP rating	IP23D (indoor use)	
Weight	157 grams including base	

Schedule of components and/or assemblies

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

Verified base designation	Description	Base + detector circuit type	Protocol
Model: 201-0004 Part #: 45681-210AMP	Detector base with Xpert Card	Analogue / Addressable	XP95
Ampac, Model 4106-2001 (duct sampling unit)	Base is integrated with the fire detection product assembly		

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afp - 3439	3-Apr-2020	Number 4	Issue date 23-Mar-2023	30-Apr-2024

Page 3 of 3

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	XF3285/R1	Evaluation for Conformity of the Ampac Model 4106-2001 XP95 Optical Smoke Detector to the requirements of AS 7240.7:2018	19-Feb-2020	CSIRO, Fire Systems Laboratory, AU
Product Data Sheet	PDS201-0003-9	Ampac Advanced Warning Systems XP95 – Optical Smoke Detector	22-Apr-2016	Ampac Pty Ltd, AU
Manual	MAN3037-3	XP95 Product Guide MAN 3037	24-Jul-2015	