CSIRO Verification Services
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Certificate of Conformity

Certificate num.	Registration date	Version Number	Version Issue date	Valid until
afp - 4023	30-Apr-2026	1	4-May-2026	30-Apr-2027

Product designation

Aspiris, Azure Series, aspirating smoke detectors

(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

AVA Prevent Co., Ltd.
Rm.4, 2F, No. 700, Zhongzheng Rd, ZHONGHE DISTRICT, T'ai-pei city, TAIWAN, 235603

Conformance criteria and evaluation

The Aspiris, Azure Series, aspirating smoke detectors has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 7240.20-2012, 'Fire detection and alarm systems - Part 20: Aspirating smoke detectors'.

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. The products are installed and maintained as recommended by the manufacturer.

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

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This certificate remains the property of CSIRO and may be subject to amendment, suspension or withdrawal at any time.
The validity and authenticity of this certificate can be verified by the certification register located at https://activfire.csiro.au

Schedule to
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Producer's description

The Aspiris, Azure series, aspirating smoke detectors use high-power, short-wavelength blue LED technology as the detection light source. The highest alarm sensitivity of Aspiris, Azure is 0.005%/m. The Aspiris, Azure series, aspirating smoke detectors include six models: Azure 200R, 300R, 500S, 2000s1A, 2000s4A, and 2000s4A16.

The Aspiris, Azure 200R, 300R and 500S, aspirating smoke detectors is very sensitive to small smoke particles generated during the incipient stage of a fire.

The Aspiris, Azure 2000s1A, 2000s4A and 2000s4A16, aspirating smoke detectors are developed for large open space very early warning fire taction.

The short wavelength of 470 mm blue light is highly responsive to small particles. They utilise an engineered smoke chamber structure, resulting in a large total scattered light signal.

Technical specification

The following details are a representative extract of the technical specification for the Aspiris, Azure Series, aspirating smoke detectors 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		
Type	**Ident.**	**Description**
Part num.	Azure 200R	Single zone, Class A/B/C aspirating smoke detector relay output only, with maximum 40 m single pipe length for Class A.
	Azure 300R	Single zone, Class A/B/C aspirating smoke detector relay output only, with maximum 75 m single pipe length for Class A.
	Azure 500S	Single zone, Class A/B/C aspirating smoke detector network and relay output, with maximum 100 m single pipe length for Class A.
	Azure 2000s1A	Four pipes (single zone), Class A/B/C aspirating smoke detector
	Azure 2000s4A	Four pipes (four zones), Class A/B/C scanning aspirating smoke detector
	Azure 2000s4A16	Four pipes (four zones), Class A/B/C scanning 16 relay aspirating smoke detector

Schedule of properties/characteristics

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

	Azure 200R	**Azure 300R**	**Azure 500S**	**Azure 2000s1A**	**Azure 2000s4A**	**Azure 2000s4A16**
Smoke detection principle						
Smoke sensitivity						
Smoke detection range			0.001 – 25%/m			
Alarm sensitivity range			0.005 – 20%m			
Sampling pipe						
Material			ABS/UPVC			
Metal fabrication			25 mm			
Maximum pipe length						
AS 7240-20 Class A						
	Maximum 6 holes in total	Maximum 12 holes in total	Maximum 30 holes in total	Maximum 40 holes in total		
	40 m (6 holes) 2 x 30 m (6 holes) 4 x 20 m (6 holes)	75 m (12 holes) 2 x 60 m (12 holes) 4 x 30 m (12 holes)	100 m (18 holes) 2 x 80 m (30 holes) 4 x 60 m (30 holes) 2 x 80 m (30 holes)	4 x 100 m (4 x 10 holes) 3 x 100 m (3 x 13 holes) 2 x 100 m (2 x 20 holes)		
AS 7240-20 Class B						
	Maximum 8 holes in total	Maximum 16 holes in total	Maximum 60 holes in total	Maximum 60 holes in total		
	2 x 30 m (8 holes) 4 x 20 m (8 holes)	75 m (16 holes) 2 x 60 m (16 holes) 4 x 30 m (16 holes)	2 x 80 m (40 holes) 4 x 60 m (60 holes)	4 x 100 m (4 x 15 holes) 3 x 80 m (3 x 20 holes) 2 x 60 m (2 x 25 holes)		
AS 7240-20 Class C						
	Maximum 12 holes total	Maximum 32 holes total	Maximum 60 holes total	Maximum 100 holes total		
	2 x 30 m (12 holes) 4 x 20 m (12 holes)	75 m (16 holes) 2 x 60 m (32 holes) 4 x 30 m (32 holes)	2 x 80 m (40 holes) 4 x 60 m (60 holes)	4 x 60 m (4 x 25 holes)		

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	Azure 200R	Azure 300R	Azure 500S	Azure 2000s1A	Azure 2000s4A	Azure 2000s4A16
Operating conditions						
Ambient temperature	0 – 40 °C					
Pipe flow normalized to 100%	-20 – 60 °C					
Humidity	10 – 95% RH non-condensing					
Power	24 ± 4.8 Vdc 220 mA	24 ± 4.8 Vdc 260 mA	24 ± 4.8 Vdc 175 - 320 mA	24 ± 4.8 Vdc 620 mA (Nominal, Aspirator speed 5) 860 mA (Maximum, Aspirator speed 10, Alarm status)		
Dimensions	95 mm (H) x 201 mm (W) x 216 mm (L)			108 mm (H) x 259 mm (W) x 415 mm (L)		
Net weight	2.5 kg			5.2 kg		

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	CSBA0265/NR1A	Evaluation of Conformity of the Aspiris, Azure, Cobalt and Indigo Series Aspirating Smoke Detectors (ASDs) to the requirements of AS 7240.20-2012	04-May-2026	CSIRO, Fire Systems Laboratory, AU
	CSBA0265/VR1A	Verification of Conformity of the Aspiris, Azure, Cobalt and Indigo Series Aspirating Smoke Detectors (ASDs) to the requirements of AS 7240.20-2012		
Document	MAN3211-3 Ampac Aspiris Azure 200r User Guide.pdf	Ampac Aspiris Azure 200r Aspirating Smoke Detector User Guide MAN3211 (MAN3211-3 Ampac Aspiris Azure 200r User Guide.pdf)	29-Apr-2026	Ampac Pty Limited, AU
	MAN3212-3 Ampac Aspiris Azure 300r User Guide.pdf	Ampac Aspiris Azure 300r Aspirating Smoke Detector User Guide MAN3212 (MAN3212-3 Ampac Aspiris Azure 300r User Guide.pdf)		
	MAN3213-3 Ampac Aspiris Azure 500s User Guide.pdf	Ampac Aspiris Azure 500s Aspirating Smoke Detector User Guide MAN3213 (MAN3213-3 Ampac Aspiris Azure 500s User Guide.pdf)		
	MAN3214-3 Ampac Aspiris Azure 2000s User Guide.pdf	Ampac Aspiris Azure 2000s Aspirating Smoke Detector User Guide MAN3214 (MAN3214-3 Ampac Aspiris Azure 2000s User Guide.pdf)		