



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 2141	20-Nov-2007	Number 19	Issue date 23-Mar-2023	30-Apr-2024

Product designation

Ampac, Item num. 214-0052, conventional duct sampling unit
(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, Item num. 214-0052, conventional duct sampling unit has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.13:2018, 'Part 13: Automatic fire detection and alarm systems - Duct sampling 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. Compatibility of this fire detector with new or existing control and indicating equipment should be verified prior to installation.
- ii. Fitment of Ampac Orbis™, o/c 201-0512, photoelectric type smoke detector to the duct sampling assembly.
- iii. Installation in dry, indoor environments.

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

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afp - 2141	20-Nov-2007	Number 19	Issue date 23-Mar-2023	30-Apr-2024

Page 2 of 3

Producer's description

The Ampac, Item num. 214-0052, conventional duct sampling unit consists of a moulded housing incorporating an Ampac Orbis™, o/c 201-0512, photoelectric type smoke detector. The housing mounts onto the ductwork of HVAC and air-handling systems, with two sampling probes which protrude into the duct. The upstream sampling probe diverts a small amount of the air flowing through the duct into the photoelectric smoke detector, allowing it to effectively "sample" the airflow for the presence of smoke.

The Ampac, Item num. 214-0052, conventional duct sampling unit with integral Ampac Orbis™, o/c 201-0512, photoelectric type smoke detector has a nominal sensitivity of 8 %obs./m.

The Ampac, Model 214-0052, conventional duct sampling contains an integrated printed circuit board (PCB SL-ECAR A050801) to allow connection to a conventional zone of a fire panel. This PCB also incorporates a microswitch which open circuits the conventional zone wiring when the duct housing cover is removed.

The Orbis model 201-0512 contains an integral red coloured alarm indicator. This is visible through the transparent cover of the device and forms the indicating facility for the DSU. The connection facility of the DSU incorporated provision for remote indicator connection.

The main housing of the unit is approximately 340 mm wide, 115 mm high and 60 mm deep. The sampling tubes are of metal construction and available in lengths up to 3000 mm. The unit is rated for operation over the temperature range from -0°C to +60°C.

Technical specification

The following details are a representative extract of the technical specification for the Ampac, Item num. 214-0052, conventional duct sampling unit 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 num.	214-0052	analogue addressable duct sampling unit
Part num.	53546-023 AMP Issue 1	

Schedule of components and/or assemblies

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

Product assembly designation		
Ampac, Item num. 214-0052, analogue addressable duct sampling unit		
Detector (photoelectric) component designation	Base designation	Detector circuit type
Ampac Orbis™ Model, o/c 201-0512	Base is integrated with the product assembly	Conventional

Schedule of properties/characteristics

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

Nominal sensitivity:	8 %obs./m
Nominal differential pressure:	0.6 Pa at air velocity of 1.0 m/s
Indicators:	Red alarm indicator on Ampac Orbis™, o/c 201-0512
Environmental:	
Temperature:	0°C to 60°C
Humidity:	85% non-condensing
Electrical:	Operating Voltage 9-33 Vdc
Mechanical:	Size – 115H x 340W x 60D mm
Duct sizes	300 mm to 3000 mm

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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/R2	Evaluation for Conformity of the AMPAC Model 214-0052, Duct Sampling Smoke Detector and AMPAC Model 214-0051, Duct Sampling Smoke Detector to the requirements of AS 1603.13:2018	20-Feb-2020	CSIRO, Fire Systems Laboratory, AU
Manual	MAN2583-1	Ampac Advanced Warning Systems Analogue Duct Sampling Unit Conventional Duct Sampling Unit Installation Guide	30-Jun-2011	Ampac Pty Ltd, AU