



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1669	10-May-2004	Number 18	Issue date 23-Mar-2023	30-Apr-2024

Product designation

Ampac, FastSense 100, aspirated smoke detection system

(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

AirSense Technology Limited
Kidde Fire Protection Building, Thame Park Road, THAME, OXFORDSHIRE, UNITED KINGDOM, OX9 3RT

Conformance criteria and evaluation

The Ampac, FastSense 100, aspirated smoke detection system has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.8-1996, 'Automatic fire detection and alarm systems - Multi-point aspirated 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. It is installed in accordance with the manufacturers documentation.
- ii. Firmware version 1.7 is used.
- iii. The smoke detector has an IP 50 rating and may not be suitable where it may be exposed to falling or spraying of any form of liquid or corrosive gases or chemical fumes.
- iv. Compatibility of this fire detector 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

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Producer's description

The Ampac, FastSense 100, aspirated smoke detection system incorporates a patented 'artificial intelligence' known as ClassFire®, which allows the detector to configure itself to optimum sensitivity, alarm thresholds and minimum nuisance alarms for any environment. This operating system also monitors the detector chamber and dust separator for contamination, continually adjusting the appropriate operating parameters to counteract the negative effects of such contamination.

A laser assembly is utilised to detect smoke particles extracted from the pipe network. Sufficient concentrations of smoke will initiate an alarm condition which may be transmitted to a compatible fire indicator panel.

The front panel of the detector contains indicating LEDs to display power, alarm, and fault conditions.

Technical specification

The following details are a representative extract of the technical specification for the Ampac, FastSense 100, aspirated smoke detection system and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Sensitivity of detector:

Minimum: 25% Obs./m

Maximum: 0.03 % Obs./m (FSD)

Maximum resolution: 0.0015 % Obs./m

Alarm levels: 4 (Fire 2, Fire 1, PreAlarm & Aux)

1 Relay as standard, others available

Detection principle: Laser light scattering mass detection

Supply voltage: 21.6 Vdc to 26.4 Vdc

Current consumption: 400 mA

Relay contact: 500 mA @ 30 V

Operating temperature range: -10°C to +60°C

Operating humidity range: 0 to 90%, non-condensing

Maximum sampling pipe length: 100 meters total

Sampling pipe inlets: 2

Sampling pipe internal diameter: 15 - 25 mm

Programming: PC via RS232/RS485

Data bus cable: RS485

Dimensions (W x H x D): 300 mm x 220 mm x 90 mm

Weight: 3.8 kg (with docking station)

IP rating: IP50