CSIRO Verification Services
Clayton, Victoria, Australia
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https://activfire.csiro.au

Certificate of Conformity

Certificate num.	Registration date	Version Number	Version Issue date	Valid until
afp - 1589	19-May-2003	19	4-Apr-2024	30-Apr-2025

Product designation

Ampac, FastSense PLUS, aspirated smoke detector

(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

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

Conformance criteria and evaluation

The Ampac, FastSense PLUS, aspirated smoke detector 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. 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

Kai Loh
Executive Officer – ActivFire Scheme

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Producer's description

The Ampac, FastSense PLUS, aspirated smoke detector incorporates a laser assembly for smoke detection. The unit extracts air from a cabinet or room via a tube system. The air is carried to a smoke detection system inside the FastSense PLUS unit where it is analyzed for smoke particles. If the smoke concentration is sufficient, the smoke detector activates an alarm. The alarm signal is displayed at the unit and may be transmitted to a compatible fire control panel. Return tubing may then return the extracted air. An airflow monitoring system monitors the air sampling tube system.

The Ampac, FastSense PLUS, aspirated smoke detector consists of a metal closed housing with built in extraction fan and four air current monitoring devices. A laser assembly acts as the smoke detection system. The front panel contains an LED display which indicates alarms, faults, smoke density as measured by the unit, and an interface panel for changing the detector settings. The settings may be changed on a PC, with the FastSense remote control software installed, and connected via a RS232 port.

There are two versions of detector, one being the 'standard' detector (product code 230-0011), and one being the 'command module' detector (product code 230-0012). The main differences between the two models are that the command module detector allows networking of multiple detectors by providing a central point for programming, running diagnostics and fire panel connection. It contains a graphics based LCD as distinct to a character based LCD in the standard detector, which allows more information to be displayed during programming.

Technical specification

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

SELV rating:	Class III or AS/NZS3260:1993
Supply voltage:	21.6 Vdc – 26.4 Vdc PSU type: conforming to EN54-4, AS4428 part 5 or NZ4512 Electrical safety complies with BS EN 610190-1
Size (mm):	427W x 372H x 95D
Weight:	5.2kg
Operating temperature range:	-10°C to +60°C
Operating humidity range:	0 to 90% Non Condensing BS EN 61010-1 Pollution degree 1 BS EN 61010-1 Installation Cat. II
Sensitivity range (FSD):	
Minimum:	25% obs./m
Maximum:	0.03% obs./m
Maximum sensitivity resolution:	0.0015% obs./m
Detection principle:	Laser light scattering mass detection
Particle sensitivity range:	0.0003um to 10um
Current consumption:	400mA
Maximum sampling pipe length:	200 metres total
Sampling pipe inlets:	4
Sampling pipe internal diameter:	15-25mm
Alarm levels:	4 (Fire2, Fire1, PreAlarm and Auxiliary)
Bargraph sensitivity range:	0.0015-25% obs./m
Bargraph segments:	26
Chamber service intervals:	Greater than 8 years (depending on environment)
Dust separator replacement intervals:	Greater than 5 years (depending on environment)
Laser lifetime (MTTF):	Greater than 1000 years
Programming:	Front panel or PC via RS232/RS485
Data bus cable:	RS485 data cable
Data bus length:	
IN:	1.2km
OUT:	1.2km
IP rating:	IP50

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Supplementary information

Accessories:

'PipeCalculator' System Design Tool Software package

'FastSense' Remote Control Software Package

FastSense PLUS RDU Remote Display Unit (product code 230-0016)

FastSense XP95 interface card (product code 230-0041)

PVC Pipe and fittings

Flexible Pipe, T couplings and sampling points