



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1149	16-Jun-1998	Number 14	Issue date 28-Jun-2019	30-Apr-2020

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Product designation

Apollo, Model XP95 55000-530, normal sens. ionisation smoke detector

(Refer to the Schedule/enclosures for further specified details)

Agent/distributor

Ampac Pty Ltd
7 Ledger Road, BALCATTA, WA, AUSTRALIA, 6021

Registrant

Ampac Pty Ltd
7 Ledger Road, BALCATTA, WA, AUSTRALIA, 6021

Producer

Apollo Fire Detectors Ltd
36 Brookside Road, HAVANT, HAMPSHIRE, ENGLAND, PO9 1JR

Conformance criteria and evaluation

The Apollo, Model XP95 55000-530, normal sens. ionisation smoke detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.2-1990, 'Automatic fire detection and alarm systems - Point type smoke detectors' incl. Amdt 1 (September 1990) / Amdt 2 (April 1995).

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

David Whittaker
Executive Officer – ActivFire Scheme



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Producer's description

The Apollo, Model XP95 55000-530, normal sensitivity, ionisation smoke detector is a low profile analogue detector manufactured in white polycarbonate. The smoke detector uses a radioactive source, Americium 241, in a dual radiation chamber to detect the presence of particles resulting from a fire. The air in the dual chambers is irradiated to produce ions that travel to the positive and negative electrodes, creating a current flow in the chambers. Smoke entering the outer chamber causes a drop in the current flow and an increase in the voltage measured at the junction between the inner and outer chambers.

The analogue voltage signal produced in the sensing chamber is converted to a digital signal by the electronic circuitry and transmitted to the control equipment on interrogation. The control equipment compares the signal with stored data and initiates pre-alarm or fire alarm as smoke density increases. When the control equipment determines that a fire condition exists, it instructs the detector to switch ON its alarm indicator LED. The alarm indicator LED is clear when not in alarm and emits red light when in alarm.

The Apollo, Model XP95 55000-530, ionisation smoke detector is connected to the supply via terminals L1 and L2 on the base assembly, model 45681-210. The base assembly uses an "XPERT, coded plastic card" to hold the address information in the base assembly without the use of electronic components. Depending on the combination of the pips removed from the card, switches in the detector head are operated to produce the correct address when the detector head is inserted.

Technical specification

The following details are a representative extract of the technical specification for the Apollo, Model XP95 55000-530, normal sens. ionisation smoke detector and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Supply voltage:	17 Vdc to 28 Vdc
Quiescent current:	280 μ A
Normal surge current:	500 μ A
Alarm LED current:	2 mA
Operating temperature:	-10°C to +65°C
Humidity:	0 to 95% (non condensing)
Maximum wind:	10 m/s (continuous)
Dimensions (mounted):	50 mm (h) x 100 mm (diam)

Tested base designation	Base + detector circuit type
Honeywell, Model 14506414-002	Analogue Addressable

Supplementary information

Base Assembly Terminals:

L1 & L2:	supply in and out connections (polarity insensitive)
+R:	remote indicator positive connection (internal 2k Ω resistance to supply +ve).
-R:	remote indicator negative connection (internal 2k Ω resistance to supply -ve).