



# Certificate of Conformity

| Certificate num.  | Registration date | Version                    | Valid until              |             |
|-------------------|-------------------|----------------------------|--------------------------|-------------|
| <b>afp - 1680</b> | 18-May-2004       | Number<br>15 (Provisional) | Issue date<br>1-May-2020 | 30-Apr-2021 |

Page 1 of 2

## Product designation

**Apollo Discovery, Model 58000-330, point type carbon monoxide (CO) fire 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 Discovery, Model 58000-330, point type carbon monoxide (CO) fire detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.14-2001, 'Automatic fire detection and alarm systems - Point type carbon monoxide (CO) fire 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 operating temperature range of the detector and base is 0 °C and + 40 °C (continuous), - 10 °C to + 50 °C (transient).
- ii. Use with the Ampac Firefinder CIE, or equal, set for Mode 2,3,4 or 5 operation.
- iii. The detector and base are not used in environments likely to become wet.
- iv. Compatibility of this fire detector and its base assembly with new or existing control and indicating equipment should be verified prior to installation.

Issued by

David Whittaker  
Executive Officer – ActivFire Scheme



© CSIRO Australia, 2020



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.

# Schedule to Certificate of Conformity

| Certificate num.  | Registration date | Version                    |                          | Valid until | Page 2 of 2 |
|-------------------|-------------------|----------------------------|--------------------------|-------------|-------------|
| <b>afp - 1680</b> | 18-May-2004       | Number<br>15 (Provisional) | Issue date<br>1-May-2020 | 30-Apr-2021 |             |

## Producer's description

The Apollo Discovery, Model 58000-330, point type carbon monoxide (CO) fire detector, is a re-settable, analogue, addressable carbon monoxide detector.

The detector contains an electro-chemical carbon monoxide sensor. The sensor detects the carbon monoxide produced by burning organic materials. The PCB is designed to allow for the removal and replacement of the sensor.

The detector comprises of a number of integral plastic mouldings and printed circuit board (PCB) with electrochemical carbon monoxide sensor that clip together. The cover moulding incorporates an insect screen and allows smoke to enter the chamber where the source is located. The detector is approximately 100 mm in diameter-with a height of approximately 43 mm.

When conditions for an alarm are present, the CIE will initiate an alarm state, and the two detector integral LED indicators will turn red and be permanently ON. Acknowledgement and resetting of the CIE is required to return the detector to its quiescent state. Other features of the detector include a test facility.

## Technical specification

The following details are a representative extract of the technical specification for the Apollo Discovery, Model 58000-330, point type carbon monoxide (CO) fire detector and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

### Sensitivity

User selectable settings  
Mode 2 (ART=30 ppm)  
Mode 3 (ART = 40 ppm)  
Mode 4 (ART =50 ppm)  
Mode 5 (ART = 60 ppm)  
*ART= Alarm Threshold Response as per AS 2362.26.*

### Overall Dimensions

Height 50 mm (with base)  
Diameter 100 mm

### Detector base

Apollo p/n. 45681-210 Includes remote indicator connection

### Electrical

Supply wiring Two-wire, polarity sensitive  
Communication protocol Apollo Discovery 5-9V peak to peak  
Operating voltage 17-28 VDC  
Quiescent current 500 pA (average), 750 pA (peak)  
Power-up surge current 1 mA  
Maximum power-up time 10s  
Alarm current 3.8 mA (LED on)

### Environmental

Operating temperature range 0 to 40 °C (continuous)  
-10 to 50 °C (transient)  
Storage temperature -10 °C to 50 °C (continuous)  
-40 °C-to-60 °C-(transient)  
Operating pressure Suitable for installation up to 2,000 m above sea level  
Operating humidity range 15 to 90 % RH, non condensing

### Features

Test feature User test button  
LEDs 2 red LEDs  
Carbon monoxide cell life 7 years  
Materials Housing - white polycarbonate

| Tested base designation | Base + detector circuit type |
|-------------------------|------------------------------|
| Apollo, P/N 45681-210   | Analogue Addressable         |