



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 686</b>	26-Mar-1993	Number 9	Issue date 30-Apr-2015	30-Apr-2016

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## Product designation

**Hochiki, Model AIA-E, high sens. ionisation smoke detector**

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

## Agent/distributor

Fire & Safety Products (A/Asia) Pty. Ltd.  
41-45 Richmond Road, KESWICK, SA, AUSTRALIA, 5035

## Registrant

Fire & Safety Products (A/Asia) Pty. Ltd.  
41-45 Richmond Road, KESWICK, SA, AUSTRALIA, 5035

## Producer

Hochiki Corporation  
10 - 43, Kamiosaki 2-Chome, SHINAGAWA-KU, TOKYO, JAPAN, 141

## Conformance criteria and evaluation

The Hochiki, Model AIA-E, high 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'.

## 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



# Schedule to Certificate of Conformity

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## Producer's description

The Hochiki, Model AIA-E, high sens. ionisation smoke detector has two sampling chambers, an outer ionisation chamber and an inner ionisation chamber. Smoke or invisible combustion gases can freely penetrate the outer chamber, but the inner chamber is virtually closed to prevent easy entry. With both chambers ionised by a radioactive source (Americium 241), very small current flows through the circuit. The presence of visible smoke or invisible gases greatly influences the current flow in the outer chamber to change the ratio of voltages between the two chambers. This difference is then amplified in side the detector and transmitted to the Control and Indicating Equipment.

## Technical specification

The following details are a representative extract of the technical specification for the Hochiki, Model AIA-E, high 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.

<b>Radioactive source:</b>	Americium 241 1mCi
<b>Operating voltage:</b>	18 Vdc to 27 Vdc
<b>Current consumption:</b>	7 mA
<b>Signal current:</b>	
Reference:	1.1 mA
Analogue:	6 mA to 20 mA
Range:	3 mA to 30 mA
<b>Alarm current</b>	105 mA max.
<b>Diameter:</b>	100 mm
<b>Weight:</b>	approx 286g without base
<b>Colour:</b>	White

Tested base designation	Base + detector circuit type
Hochiki, Model YBF-RL/2NBF	Analogue Addressable