



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 58</b>	30-Aug-1989	Number 9	Issue date 30-Apr-2015	30-Apr-2016

Page 1 of 2

## Product designation

**Hochiki, Model SPA-AB, (receiver & emitter), optical beam type 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 SPA-AB, (receiver & emitter), optical beam type smoke detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. SSL Test Specification CLP-125, Version 1.0, 'Beam 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. Should only be installed in accordance with the manufacturer's instructions. The maximum separation of the emitter and receiver is 100 m.
- ii. 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

David Whittaker  
Executive Officer – ActivFire Scheme



# Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 58</b>	30-Aug-1989	Number 9	Issue date 30-Apr-2015	30-Apr-2016

Page 2 of 2

## Producer's description

The Hochiki, Model SPA-AB, (receiver & emitter), optical beam type smoke detector consists of an emitter and receiver which are located separately from each other within a span of 100 m. In the event of fire, the smoke generated will decrease the quantity of beams (near infra-red) generated by the emitter. The receiver senses the decrease in beam quantity and identifies the occurrence of a fire.

The receiver unit has visual indicating LEDs for the following conditions; FIRE (red) and TROUBLE (amber). The receiver and emitter have a green pulsed LED that displays the status of the units. If the smoke generated exceeds the pre-set sensitivity of the detector, a fire signal is generated within one minute after that point in time and the Fire LED on the receiver is illuminated. If the quality of

The fire detection sensitivity can be chosen from three levels of beam obscuration percent; 50, 60, and 70%/span.

## Technical specification

The following details are a representative extract of the technical specification for the Hochiki, Model SPA-AB, (receiver & emitter), optical beam type smoke detector and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

### System specifications

<b>Method:</b>	Pulse synchronisation and compare
<b>Operating voltage:</b>	19.2 to 33 Vdc
<b>Operating current:</b>	250 µA
<b>Surge current:</b>	2.5 mA (maximum)
<b>Fire alarm current:</b>	40 mA (maximum)
<b>Trouble alarm current:</b>	40 mA (maximum)
<b>Fire alarm contact:</b>	0.5 A (maximum)
<b>Fire remote contact:</b>	0.5 A (maximum)
<b>Trouble alarm contact:</b>	0.5 A (maximum)
<b>Coverage:</b>	5 m to 100 m
<b>Sensitivity:</b>	50, 60 or 70 %/span
<b>Fire signal delay time:</b>	30 - 60 seconds
<b>Operating temperature:</b>	0°C to +38°C
<b>Dimensions (each unit):</b>	160.5 (L) x 148.0 (W) x 190.0 (H) mm
<b>Weight:</b>	Receiver 1.1 kg Emitter 1.0 kg
<b>Material:</b>	Diecast aluminium

### Receiver specifications

<b>Receiving device:</b>	PIN photo-diode
<b>Photo-signal compensation rate:</b>	±1% / 50-70 mins.

### Emitter specifications

<b>Light source:</b>	Infra-red LED
<b>Light source drive:</b>	Pulsed
<b>Light source temperature:</b>	Built-in compensator