



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 2752</b>	9-Mar-2012	Number 7	Issue date 27-Mar-2018	30-Apr-2018

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## Product designation

**Hochiki, Model ACA-ASN, smoke (photoelectric) and Class P (A1 or B) heat, multisensor fire detector**

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

## Agent/distributor

Hochiki Australia Pty Ltd  
391 Park Road, REGENTS PARK, NSW, AUSTRALIA, 2143

## Registrant

Hochiki Australia Pty Ltd  
391 Park Road, REGENTS PARK, NSW, AUSTRALIA, 2143

### Producer

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

## Conformance criteria and evaluation

The Hochiki, Model ACA-ASN, smoke (photoelectric) and Class P (A1 or B) heat, multisensor fire detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 7240.5-2004, 'Fire detection and alarm systems - Point type heat detectors (ISO 7240-5:2003, MOD)'.
2. Australian Standard AS 7240.7-2004, 'Fire detection and alarm systems - Point-type smoke detectors using scattered light, transmitted light or ionization (ISO 7240-7:2003, MOD)'.

## 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. This equipment is specified by the Producer for connection and use only with Fire detection control and indicating equipment (FDCIE) produced and designated as follows.
  - Kentec Electronics Ltd: Taktis, Syncro AS
- ii. This device is not designed for outdoor use.

Issued by

David Whittaker  
Executive Officer – ActivFire Scheme



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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

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## Producer's description

The Hochiki, Model ACA-ASN, smoke (photoelectric) and Class P (A1 or B) heat, multisensor fire detector has two elements 'Heat' and 'Optical'.

This unit can operate in two modes 'Multi-Sensor mode' or 'Single mode'; by default the device is in 'Multi-Sensor mode'. Two LEDs on the sensor pulse as the detector is polled by the associated control and indicating equipment. These LEDs illuminate red to indicate the alarm status of the device. Electrical connection to the detector is achieved through the Hochiki YBN-R/3 base assembly.

This detector is a Class P multi-sensor detector which was evaluated for class settings A1 and B.

The Hochiki, Model ACA-ASN, smoke (photoelectric) and Class P (A1 or B) heat, multisensor fire detector is 100 mm diameter and has a height of approximately 48 mm when connected to the mounting base assembly

## Technical specification

The following details are a representative extract of the technical specification for the Hochiki, Model ACA-ASN, smoke (photoelectric) and Class P (A1 or B) heat, multisensor fire detector and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

### Schedule of properties/characteristics

The following schedule is an extract of physical and operational properties/characteristics of the certified/listed equipment.

Specifications (at 25°C)	
Operating voltage	$V_{high} = 41 \text{ Vdc}$
	$V_{low} = 17 - 41 \text{ Vdc}$
	(The margin of voltage between $V_{low}$ and $V_{high}$ is strictly required with the range of 7V ~ 9V.)
Output data current range	$I_{low} = 0 \text{ to } 9 \text{ mA}$
	$I_{high} = 22 \text{ mA} \pm 20\%$
Current Consumption	Typical 450 $\mu\text{A}$ (when not called)
	Low Power Mode:
	Typical 120 $\mu\text{A}$ (at 0.75 sec)
	Typical 110 $\mu\text{A}$ (at 1.5 sec)
	2 mA (when called)
Alarm indicator LED current	8 mA (Typical)
Remote LED current	8.5 mA (Typical)
Operating smoke density range	0 to 5.5 %/m
Fire test equivalent density	4.5 %/m (smoldering filter paper)
Operating temperature range	-10° C to 50° C (this device is not designed for outdoor use.)
Storage temperature range	-20° C to 60° C (under humidity 80%)
Kind signal	D8h
Address setting	1 to 127 by Address Programmer

### Schedule of components and/or assemblies

The following is a schedule of validated components and/or assemblies of the certified/listed equipment.

Verified base designation	Base + detector circuit type
Hochiki, Model YBN-R/3	Analogue Addressable

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## Supplementary information

### Schedule of relevant articles

The following schedule is an extract of articles significant and/or related as evidence of conformity.

Reference		Title / description	Date issued (or date validated)	Source
Ident. type	Ident.			
Report No.	XF2729/R2	Conformity Evaluation of the Hochiki Model ACA-ASN Multi-Sensor Detector to the requirements of AS 7240.5-2004 and AS 7240.7-2004	27-Feb-2012	CSIRO, Industrial Research Services, AU
Specification	ACA-ASN Specification(HAU)v2	Hochiki Analogue Multi-Sensor ACA-ASN (ACA-ASN Specification(HAU)v2 19032018.pdf)	19-Mar-2018	Hochiki Australia Pty Ltd, AU