



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 2755	9-Mar-2012	Number 7	Issue date 27-Mar-2018	30-Apr-2018

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Product designation

Hochiki, Model ACB-ASN, Class P (A1, B or C), heat sensor

(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 ACB-ASN, Class P (A1, B or C), heat sensor 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)'.

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.

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 Hochiki, Model ACB-ASN, Class P (A1, B or C), heat sensor is of the multi-heat sensor type, which is fully compatible with Hochiki's Analogue Addressable Protocol. It incorporates a Variable Temperature heat element and a Rate of Rise heat element, both of which are controlled from the Fire Control Panel, allowing either thermal element or both elements simultaneously to be active in making the fire decision. The sensor polling LED's can also be controlled via the Fire Control Panel (pulsing/non-pulsing).

Technical specification

The following details are a representative extract of the technical specification for the Hochiki, Model ACB-ASN, Class P (A1, B or C), heat sensor 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	$V_{high} = 41 \text{ Vdc}$
	$V_{low} = 17 \text{ to } 31 \text{ Vdc}$
	(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	Maximum 350 μA (when not called)
	Low Power Mode:
	Typical 110 μA (at 0.75 sec)
	Typical 100 μA (at 1.5 sec)
	2 mA (when called)
Alarm indicator LED current	8.0 mA (Typical)
Remote LED current	9.1 mA (Typical)
Sensing element	Thermistor
Measurement accuracy	$\pm 3^\circ \text{C}$
Fire test equivalent temperature	100°C
Operating temperature range	-10°C to 80°C (this device is not designed for outdoor use.)
Storage temperature range	-20°C to 60°C (under humidity 80%)
Maximum Humidity	95 %RH
Kind signal	98h
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	Description	Base + detector circuit type
Hochiki, Model YBN-R/3	Standard base	Analogue Addressable
Hochiki, Model YBO-R/SCI	Positive switching short circuit isolator base	

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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 Number	XF2731/R3	Conformity Evaluation of the Hochiki Models ACB-ASN and ACB-ASNW Heat Detectors to the requirements of AS 7240.5-2004	7-Mar-2012	CSIRO, Industrial Research Services, AU
	XF2731/R2	Conformity Evaluation of the Hochiki Models ACB-ASN and ACB-ASNW Heat Detectors to the requirements of AS 7240.5-2004	27-Feb-2012	
	XF2731/R2	Conformity Evaluation of the Hochiki Models ACB-ASN and ACB-ASNW Heat Detectors to the requirements of AS 7240.5-2004	22-Feb-2012	
Specification	ACB-ASN Specification(HAU)v2	Hochiki Analogue Multi-Heat Sensor ACB-ASN (ACB-ASN Specification(HAU)v2 19032018.pdf)	19-Mar-2018	Hochiki Australia Pty Ltd, AU