



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until
afp - 2753	9-Mar-2012	1	31-Dec-2012

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Product designation

Hochiki, Model ALK-ASN, photoelectric smoke sensor

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

Agent/distributor

Hochiki Australia Pty Ltd
CHATSWOOD, NSW, AUSTRALIA, 2067

Registrant

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

Producer

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

Conformance criteria and evaluation

The Hochiki, Model ALK-ASN, photoelectric smoke sensor has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. 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. Compatibility of this fire detector and its base assembly with new or existing control and indicating equipment should be verified prior to installation.
- 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



Schedule to Certificate of Conformity

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Technical specification

The following details are a representative extract of the technical specification for the Hochiki, Model ALK-ASN, photoelectric smoke sensor and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Specifications (at 25°C)	
Operating voltage	$V_{high} = 39.5 \text{ Vdc} \pm 3\%$
	$V_{low} = 31 \text{ Vdc} \pm 3\%$
	(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 800 μA (when not called)
	Low Power Mode:
	Maximum 200 μA (at 0.75 sec)
	2 mA (when called)
Alarm indicator LED current	8.0 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%)
Maximum Humidity	95 %RH
Kind signal	88h
Address setting	1 to 127 by Address Programmer

Verified base designation	Description	Base + detector circuit type
Hochiki, Model YBN-R/3	Standard base	Analogue Addressable
Hochiki, Model YBN-R/2NA	Standard base	
Hochiki, Model YBO-R/SCI	Positive switching short circuit isolator base	
Hochiki, Model YBO-R/BSB	Sounder base with beacon	