



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 2014	21-Jul-2008	Number 21	Issue date 23-Mar-2023	30-Apr-2024

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Product designation

Hochiki, Model ALK-AS, photoelectric smoke 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 ALK-AS, photoelectric smoke detector 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 - Part 7: 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.
 - Kidde Australia Pty Ltd: NFP1, NFP2, Phoenix, FIRENET
 - Kentec Electronics Ltd: Taktis, Syncro AS

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

Kai Loh

Executive Officer – ActivFire Scheme



Schedule to Certificate of Conformity

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Producer's description

The Hochiki, Model ALK-AS, photoelectric smoke detector incorporates Hochiki's High Performance Chamber Technology removing the need to use ionisation sensors in the majority of applications. This also allows the sensor threshold level to be increased, thereby improving the signal to noise ratio and reducing susceptibility to false alarms.

Technical specification

The following details are a representative extract of the technical specification for the Hochiki, Model ALK-AS, photoelectric smoke 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.

Operating voltage	17 – 41 Vdc
Low power mode (typ)	120 µA
Quiescent current (typ)	400 µA
Alarm current (typ)	9.1 mA
Transmission method	Digital communications using GTP
Operating temperature range	-10° C to + 50° C
Storage temperature range	-20° C to + 60° C
Maximum humidity	95%RH - Non Condensing (at 40° C)
Ingress Protection rating	IP42
Colour / Case material	Ivory / ABS
Weight	90 g (Excluding base)
Diameter / Height with YBN base	100 mm / 46 mm
Base Fixing Centres (mm)	48 ~ 74 mm

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/2NA	Standard base	Analogue Addressable
Hochiki, Model YBN-R/2NA and Hochiki, Model YBN-UA	Recessed base assembly When mounted with the Hochiki, Model YBN-R/2NA base and Model YBN-UA (WHT) recess assembly, the sensing chamber of the Hochiki, Model ALK-AS, shall be centered at a position 15 mm below the underside surface of the ceiling. Ref.: CSIRO Fire Systems Laboratory report XF3047/R1 and AS 1670.1:2015, Cl. 5.1.1 Note: The ALK-AS and YBN-R/2NA assembly is mechanically and electronically identical to the Model ALK-ASN and YBN-R/3 assembly.	

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	XF2364/R1	Evaluation for Conformity Hochiki model ALK-AS smoke detector to AS 7240.7	Jul-2008	CSIRO, Industrial Research Services, AU
Specification	ALK-AS Specification(HAU) Iss/v2	Hochiki Analogue Photoelectric Smoke Sensor ALK-AS (ALK-AS Specification(HAU)310118.pdf)	31-Jan-2018	Hochiki Australia Pty Ltd, AU
Report	XF3047/R1	Evaluation for Conformity of the Hochiki, Model ALK-ASN photoelectric smoke sensor, Model YBN-R/3 detector base and Model YBN-UA(WHT) recess base adapter to the requirements of AS 7240.7-2004	1-Mar-2017	CSIRO, Fire Systems Laboratory, AU
Installation Instructions	2-8-000-3298-151	Installation Instructions for Hochiki Analogue Smoke Sensors Type : ALK	Jun-2006	Hochiki Corporation, JP