



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 3787	3-Apr-2023	Number 2	Issue date 2-Apr-2024	30-Apr-2025

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Product designation

FIRE SMART®, Model FS946, 9 Vdc battery powered, silencing/hush facility, ionisation smoke alarm

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

Agent/distributor

Kidde Australia
Unit 3, Ground Floor, 10 Ferntree Place, NOTTING HILL, VIC, AUSTRALIA, 3168

Registrant

Dongguan Fyrnetics Co., Ltd.
No 1, Rongwen Road, Changan, DONGGUAN, GUANGDONG, CHINA, 523842

Producer

Dongguan Fyrnetics Co., Ltd.
No 1, Rongwen Road, Changan, DONGGUAN, GUANGDONG, CHINA, 523842

Conformance criteria and evaluation

The FIRE SMART®, Model FS946, 9 Vdc battery powered, silencing/hush facility, ionisation smoke alarm has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 3786:2014, 'Smoke alarms using scattered light, transmitted light or ionization' incl. Amdt 1 (27 August 2015).
2. CSIRO Technical Specification TS-007, 'Evaluation for Conformity of smoke alarms to the requirements of AS 3786-2014'.

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.

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



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Producer's description

The FIRE SMART®, Model FS946, 9 Vdc battery powered, silencing/hush facility, ionisation smoke alarm is an internally 9 Vdc battery powered circular styled smoke alarm, intended for use in residential dwellings (domestic smoke alarm).

The FIRE SMART®, Model FS946, 9 Vdc battery powered, silencing/hush facility, ionisation smoke alarm senses smoke using the ionisation principle. An inbuilt piezo type sounder provides an audible alarm signal when the smoke alarm senses smoke which exceeds a predetermined level. When the smoke level drops below the alarm level, the sounder is de-energised. A self test facility is provided by means of a button on the cover of the device. If the button is depressed the alarm signal is emitted.

The FIRE SMART®, Model FS946, 9 Vdc battery powered, silencing/hush facility, ionisation smoke alarm incorporates a 'hush button' feature. According to the manufacturer's instructions, pressing the silence button reduces the smoke sensitivity of the smoke alarm. The sensitivity is reduced for approximately 10 minutes, at which time the smoke alarm automatically returns to normal operation.

The FIRE SMART®, Model FS946, 9 Vdc battery powered, silencing/hush facility, ionisation smoke alarm fits onto a circular base (which is supplied with the alarm). The base has holes for mounting to the ceiling using the screws and anchors provided. A mechanical arrangement prevents the alarm from locking onto the mounting base without the battery installed.

The FIRE SMART®, Model FS946, 9 Vdc battery powered, silencing/hush facility, ionisation smoke alarm is circular in shape with a diameter of approximately 100 mm in diameter and is approximately 34 mm high. The smoke alarm is clamshell packaged and is supplied with two mounting screws, 9 volt battery and an owner's manual.

Product designation for single and twin packs of this product are:

- Single pack – Fire Smart Model FS946 Ionisation Smoke Alarm – number 135976.
- Twin pack – Fire Smart Model FS946 Ionisation Smoke Alarm – number 135992.

Technical specification

The following details are a representative extract of the technical specification for the FIRE SMART®, Model FS946, 9 Vdc battery powered, silencing/hush facility, ionisation smoke alarm and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Schedule of variant designations

The following is a schedule of validated variant designations of the certified/listed equipment.

Variant		Description
Type	Ident.	
Part num.	135976	Single pack
	135992	Twin pack

Schedule of properties/characteristics

Sensor type	Ionisation	
Alarm signal	85 dB @ 3 m (ISO 8201)	
Main power	9 Vdc battery, replaceable	
Environmental		
Operating temperature	0° to 40° C	
Humidity	93% non-condensing	
Battery	9 Vdc replaceable	
Replacement	Carbon-Zinc type	Eveready 1222; Gold Peak 1604S
	Alkaline type	Energizer 522 Duracell MN1604 or MX1604 Gold Peak 1604A Panasonic 6AM6, 6AM-6, 6AM-6PI, 6AM6X or 6LR61(GA)
	Lithium Type	Ultralife U9VL-J

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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	XF3156/R1	Evaluation for Conformity of the Fire Smart Model FS946 Ionisation Smoke Alarm to the requirements of AS 3786:2014 +A1:2015	9-Jun-2017	CSIRO, Fire System Laboratory, AU
Manual	0946-7222-01	FIRE SMART® Ionisation Smoke Alarm with Hush Manual Model FS946 P/N: 135976, 135992 (0946-7222-01(135976_135992)_FS946_V1.pdf)	15-Aug-2022	Kidde Australia, AU