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Certificate of Conformity

Certificate num.	Registration date	Version Number	Version Issue date	Valid until	Page 1 of 2
afp - 1348	26-Sep-2000	21	3-Apr-2024	30-Apr-2025	

Product designation

System Sensor, Model 2012H, 12 Vdc externally powered, interconnectable, auxiliary alarm output, photoelectric smoke alarm

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

Agent/distributor

Honeywell Security and Fire
9 Columbia Way, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

Registrant

Honeywell Security and Fire
9 Columbia Way, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

Producer

Xi'an System Sensor Electronics, Ltd
28 Tuan Jie South Road, Xi'an Hi-tech Development Zone, XI'AN, SHAANXI, CHINA, 710075

Conformance criteria and evaluation

The System Sensor, Model 2012H, 12 Vdc externally powered, interconnectable, auxiliary alarm output, photoelectric smoke alarm has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 3786-1993, 'Smoke alarms' incl. Amdt 1 (April 1995) / Amdt 2 (December 1995).

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.

(Limitations/conditions of conformance continue)

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
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i. This device should be used with a suitable external power supply. Suitable external power supply equipment provides all the features described below:

The power supply has to be able to sense when the battery has been depleted and provide a warning signal to indicate this state. With the mains disconnected, the secondary power supply (back-up battery) should provide power to the smoke alarm for an extended time prior to becoming depleted. The back-up battery should be capable of powering the smoke alarm(s) connected to it for at least 7 days, and when the low battery signal is given, the back-up battery should be capable of providing enough energy to enable all interconnected smoke alarms to sound an alarm for at least 4 minutes.

(Refer to the 'Supplementary information' section of this document for examples)

Producer's description

The System Sensor, Model 2012H, 12 Vdc externally powered, interconnectable, auxiliary alarm output, photoelectric smoke alarm is designed to provide early warning of developing fires. The smoke alarm is designed for open area protection in domestic/residential premises. Each smoke alarm has a built-in relay which may be used to activate auxiliary devices such as bells, horns and door closers. The relay contacts automatically close 8 seconds after the alarm enters the alarm state and automatically resets approximately 5 seconds after the alarm stops. A piezoelectric horn produces an audible 85 dBA temporal tone evacuation signal when the smoke alarm is in the alarm state or when an interconnected smoke alarm is in the alarm state. In addition these detectors can be interconnected, within one premises, for a system of up to twelve (12) smoke alarms.

A test facility is provided by means of a recessed button in the face of the smoke alarm.

Technical specification

The following details are a representative extract of the technical specification for the System Sensor, Model 2012H, 12 Vdc externally powered, interconnectable, auxiliary alarm output, photoelectric smoke alarm and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Operating voltage:	Externally supplied 12 Vdc (9 - 16 Vdc max.)
Current (standby)	60 µA
Current (alarm)	20 mA
Relay contact ratings:	0.5 A @ 30 Vdc/30 Vac
Interconnect length:	Maximum interconnect cable length 1524 m (dependant upon wire size and numbers of alarms)
Operating temperature range:	5°C to 45°
Alarm level:	85 dBA @ 3.0 metres

Supplementary information

Examples of manufacturer's recommended power supply/control equipment, for use with the System Sensor, Model 2012H, 12 Vdc externally powered, interconnectable, auxiliary alarm output, photoelectric smoke alarm, are the following.

1. Ademco, Model AS3786 SDC, power supply module incorporating a 1.2 Ah sealed lead-acid battery for backup power supply.
2. Ademco, Model SDC MkII, power supply module incorporating a 1.2Ah sealed lead acid battery for backup power supply.