



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1372	22-Jan-2001	Number 15	Issue date 1-May-2019	30-Apr-2020

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Product designation

HARSH™, Model HPX-751AUS, adjustable nom. sens. (S)=4.5% obs./m to 6.5% obs./m, photoelectric smoke detector

(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

System Sensor, Ltd
3825 Ohio Avenue, ST CHARLES, IL, UNITED STATES, 60174

Conformance criteria and evaluation

The HARSH™, Model HPX-751AUS, adjustable nom. sens. (S)=4.5% obs./m to 6.5% obs./m, photoelectric smoke detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.2-1997, 'Automatic fire detection and alarm systems - Point type smoke detectors' incl. Amdt 1 (August 1998).

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. For use with the Notifier AFP200 control panel, system firmware Version 1.51 (18/12/98).
- ii. Compatibility of this fire detector and its base assembly with new or existing control and indicating equipment should be verified prior to installation.

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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Producer's description

The HARSH™, Model HPX-751AUS, adjustable nom. sens. (S)=4.5% obs./m to 6.5% obs./m, photoelectric smoke detector is a re-settable, addressable, analog type photoelectric smoke detector. The smoke detector has an optical sensing chamber consisting of a pulsing infra-red LED and a photo-diode as the sensing element. Smoke present in the sensing chamber is represented as an analog representation and is transmitted over a communication line to the Control & Indicating Equipment (CIE) via the System Sensor model B710HD base. An alarm condition is entered by the CIE when the smoke density registered by the smoke detector reaches the pre-set alarm sensitivity setting. The smoke sensitivity response of the detector is set at the CIE.

The smoke detector comprises plastic mouldings, printed circuit boards (pcb), an integral fan and two replaceable filters. The bottom base moulding of the detector is attached to the pcb assembly containing the optical sensing chamber. The moulding and pcb also provide for detector addressing via two rotary decade switches and electrical connection via three plate terminals that connect with the pcb assembly. The main plastic housing of the detector contains an integral fan (cycle time 8 seconds ON, 28 seconds OFF, approx.) which draws air and smoke into the optical sensing chamber, the pcb assembly and a 5-pin connector board for connection to the attached base. Attached to the housing plastic moulding is a cover moulding that can be removed to gain access to the replaceable filters.

Two integral LEDs on the detector are controlled by the CIE to indicate the detector status. In the quiescent state, the detector LEDs poll to indicate normal operation. When the detector is in the alarm state, the LEDs are permanently in the ON state. Acknowledgement and resetting of the CIE is required to return the detector to its quiescent state. The detector can be functionally tested to simulate smoke using a test magnet applied to the upper casing of the detector.

Technical specification

The following details are a representative extract of the technical specification for the HARSH™, Model HPX-751AUS, adjustable nom. sens. (S)=4.5% obs./m to 6.5% obs./m, 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.

Sensitivity:	4.5 %Obs./m @ Notifier AFP200 "very high" setting. 6.5 %Obs./m @ Notifier AFP200 "normal" setting.
Operating voltage range:	15 to 32 Vdc
Max. average standby current:	230 µA at 24 Vdc (without communication) 285 µA @ 24 Vdc (one communication every 5 secs. with LED enabled)
Operating temperature:	0°C to 50°C
Humidity:	10 to 93% RH (non condensing)
Connections to FIP:	two wire
Dimensions:	155 mm diameter when installed in System Sensor Model B710HD
Height:	43mm
Mass:	207g

Tested base designation	Base + detector circuit type
System Sensor, Model B710HD	Analogue Addressable

Supplementary information

System Sensor, Model B710HD base assembly

Auxiliary power supply voltage:	15 to 30 Vdc filtered, ripple voltage may not drop below 15 volts.
Auxiliary power supply current-	
Peak:	123 mA maximum
Average:	27 mA maximum