



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 2520	12-Aug-2011	Number 10	Issue date 26-Apr-2019	30-Apr-2020

Page 1 of 2

Product designation

Notifier, Model FDX-851AUS, Type B heat 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

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

Producer

Xi'an System Sensor Electronics, Ltd
11 Xiao Zhai East Road, XIAN, SHAANXI, CHINA, 710061

Conformance criteria and evaluation

The Notifier, Model FDX-851AUS, Type B heat detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.1-1997, 'Automatic fire detection and alarm systems - Heat detectors' incl. Amdt 1 (August 1998).
2. ActivFire Technical Specification AF-TS002, Version 1.0, 23-Jan-2012, 'Input/Output modules for control and indicating equipment'.

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. Evaluation of this device was subject to connection to the Notifier Inertia, Model AFP-2800, fire indicator panel (software version v5.05B4).
- ii. This device is suitable for use in indoor dry environments.
- iii. Compatibility of this fire detector and its base assembly with new or existing control and indicating equipment should be verified prior to installation.

Issued by

David Whittaker
Executive Officer – ActivFire Scheme



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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.
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Schedule to Certificate of Conformity

Certificate num.	Registration date	Version		Valid until	Page 2 of 2
afp - 2520	12-Aug-2011	Number 10	Issue date 26-Apr-2019	30-Apr-2020	

Producer's description

The Notifier, Model FDX-851AUS, Type B heat detector is an addressable resetting type device. This device utilises a negative coefficient thermistor as the heat sensing element. The thermistor senses the ambient temperature and transmits a digital signal representation to the CIE. Software in the CIE interprets the returned signal initiates an alarm state if the returned signal exceeds a preset level or other pre-determined response (normal operation, fault, or pre-alarm).

When the output from the detector reaches the CIE alarm threshold, resulting alarm condition is indicating by in two red detector LEDs turned on. Acknowledgment of the alarm and resetting of the CIE is required to return the detector to the quiescent state.

The detector may be tested in-situ by using a test magnet to activate the test feature or a hot air source. Once activated, the detector must be reset at the CIE.

This device requires compatible addressable communications.

Technical specification

The following details are a representative extract of the technical specification for the Notifier, Model FDX-851AUS, Type B heat detector and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Operating voltage range:	15 to 32 Vdc peak
Quiescent current:	300 μ A @ 24 Vdc
Alarm current:	6.5 mA @ 24 Vdc
Fixed temperature alarm point:	63 °C
Operating temperature range:	-10 °C to +38°C
Height:	51 mm (installed on B501 base)
Diameter:	104 mm

Evaluated base designation	Base assembly description	Base + detector circuit type	Reference criteria
System Sensor, Model B501	n/a	Analogue Addressable	AS 1603.1-1997
Notifier, Model NFX-BS-IV	Sounder base with System Sensor	Analogue Addressable	AF-TS002
Notifier, Model NFXI-BS-IV	B501AP wiring base		