



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 2527</b>	27-Sep-2011	Number 14	Issue date 27-Mar-2023	30-Apr-2024

Page 1 of 2

## Product designation

**Notifier, Model FDX-851RAUS, Type A 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-851RAUS, Type A 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

Kai Loh

Executive Officer – ActivFire Scheme



# Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 2527</b>	27-Sep-2011	Number 14	Issue date 27-Mar-2023	30-Apr-2024

Page 2 of 2

## Producer's description

The Notifier, Model FDX-851RAUS, Type A 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-851RAUS, Type A heat detector and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

<b>Operating voltage range:</b>	15 to 32 Vdc peak
<b>Quiescent current:</b>	300 $\mu$ A @ 24 Vdc
<b>Alarm current:</b>	6.5 mA @ 24 Vdc
<b>Fixed temperature alarm point:</b>	63 °C
<b>Operating temperature range:</b>	-10 °C to +38°C
<b>Height:</b>	51 mm (installed on B501 base)
<b>Diameter:</b>	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 B501AP wiring base	Analogue Addressable	AF-TS002
Notifier, Model NFXI-BS-IV			