ACTIVFIRE®
ACTIVE FIRE PROTECTION – PRODUCT CERTIFICATION

Certificate of Conformity

Certificate num.	Registration date	Version		Valid until	Page **1** of **2**
		Number	Issue date		
afp - 1614	19-Sep-2003	20	20-Apr-2023	30-Apr-2024	

Product designation

Notifier, Model FST-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

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 Notifier, Model FST-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).

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. Use with the Standard when used with the Notifier, Model AFP2800, CIE when the CIE detector sensitivity setting is set at 3.

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

Kai Loh
Executive Officer – ActivFire Scheme

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Schedule to
Certificate of Conformity

Producer's description

The Notifier, Model FST-851RAUS, Type A heat detector is an analogue addressable resetting type of heat detector. The detector utilises a negative temperature coefficient thermistor as the heat sensing element. The thermistor senses the ambient temperature and transmits a digital signal representation of the sensed temperature value to the control and indicating equipment (CIE). Software in the CIE interprets the returned signal and may initiate 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, the CIE will initiate an alarm condition resulting in the two detector LED indicators turning red in the latched state. 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 applied at 15 cm from the detector to prevent damage to the cover. Once activated, the detector must be reset at the CIE.

The Notifier, Model FST-851RAUS, Type A heat detector will support either FlashScan® or CLIP (Classic Loop Interface Protocol. FlashScan® is a communication protocol developed by Notifier Engineering that greatly enhances the speed of communication between analogue intelligent devices and certain Notifier systems.

Technical specification

The following details are a representative extract of the technical specification for the Notifier, Model FST-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.

Operating voltage range:	15 to 32 Vdc
Quiescent current:	300 µA @ 24 Vdc
	(one communication every 5 seconds with LED blink enabled)
Alarm current:	6.5 mA @ 24 Vdc
Fixed temperature alarm point:	63.1°C
Operating temperature range:	-10°C to +38°C
Height:	51mm (installed on B501 base assembly)
Diameter:	104 mm

Tested base designation	Base + detector circuit type
System Sensor, Model B501	Analogue Addressable
Notifier, Model ABS32/W integrated detector base sounder with LPBW (mounting/wiring base)	Analogue Addressable
Notifier, Model ABS32/W-I integrated detector base sounder (with isolator) with LPBW (mounting/wiring base)	Analogue Addressable