

Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1620	19-Sep-2003	Number 7	Issue date 1-May-2013	30-Apr-2014

Page 1 of 2

Product designation

System Sensor, Model 5251RBAUS, Type A heat detector

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

Agent/distributor

Pertronic Industries Pty Limited
Unit C2, Hallmarc Business Park, 2A Westall Road, SPRINGVALE, VIC, AUSTRALIA,
3171

Registrant

Pertronic Industries Pty Limited
Unit C2, Hallmarc Business Park, 2A Westall Road, SPRINGVALE, VIC, AUSTRALIA,
3171

Producer

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

Conformance criteria and evaluation

The System Sensor, Model 5251RBAUS, 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.

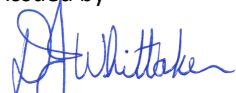
Specified limitations/conditions, determined from the evaluation for conformity, include the following.

- i. Use with the Firetronix, Model F100A, CIE when the CIE detector sensitivity setting is set at 1 and the pre-alarm setting is -10%.
- 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.
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Issued by



David Whittaker
Executive Officer – ActivFire Scheme



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The validity and authenticity of this certificate can be verified by the certification register located at <http://www.activfire.gov.au>

Schedule to Certificate of Conformity

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Page 2 of 2

Producer's description

The System Sensor, Model 5251RBAUS, Type A heat detector is an analogue resetting type heat detector. The detector utilises a negative 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 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 System Sensor, Model 5251RBAUS, Type A heat detector requires compatible addressable communications to function properly.

Technical specification

The following details are a representative extract of the technical specification for the System Sensor, Model 5251RBAUS, 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 peak
Quiescent current:	300 μ A @ 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:	51 mm (installed on B501 base assembly)
Diameter:	104 mm

Tested base designation	Base + detector circuit type
System Sensor, Model B501	Analogue Addressable