CSIRO Verification Services
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ACTIVFIRE®
ACTIVE FIRE PROTECTION – PRODUCT CERTIFICATION

Certificate of Conformity

Certificate num.	Registration date	Version Number	Version Issue date	Valid until	
afp - 3383	30-Jul-2019	3	1-May-2022	30-Apr-2023	Page **1** of **3**

Product designation

System Sensor, Model 2251TMBPI-IV/2251TMBPI-W, multi-sensor (photoelectric/Class A2 heat) multi detector

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

Agent/distributor

Pertronic Industries Pty Limited
Unit B2, Hallmarc Business Park, 2A Westall Road, SPRINGVALE, VIC, AUSTRALIA, 3171

Registrant

Honeywell Security and Fire
9 Columbia Way, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

Producer

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

Conformance criteria and evaluation

The System Sensor, Model 2251TMBPI-IV/2251TMBPI-W, multi-sensor (photoelectric/Class A2 heat) multi detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS ISO 7240.5:2018, 'Fire detection and alarm systems - Part 5: Point-type heat detectors'.
2. Australian Standard AS 7240.7:2018, 'Fire detection and alarm systems - Part 7: Point-type smoke detectors using scattered light, transmitted light or ionization (ISO 7240-7:2018, MOD)'.

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. 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 artides 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
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Producer's description

The System Sensor, Model 2251TMBPI-IV/2251TMBPI-W, multi-sensor (photoelectric/Class A2 heat) multi detector is a plug-in type smoke sensor that combines a photoelectronic sensing chamber with addressable-analog communications. The sensors transmit an analog representation of smoke density over a communication line to a control panel. Rotary decade switches are provided for setting the sensor's address. A drift compensation function has been provided.

Technical specification

The following details are a representative extract of the technical specification for the System Sensor, Model 2251TMBPI-IV/2251TMBPI-W, multi-sensor (photoelectric/Class A2 heat) multi detector and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Schedule of variant designations

The following is a schedule of validated variant designations of the certified/listed equipment.

Variant		Colour	Description
Type	**Ident.**		
Model	2251TMBPI-IV	Ivory	multi-sensor (photoelectric/Class A2 heat) multi detector
	2251TMBPI-W	White	

Schedule of components and/or assemblies

The following is a schedule of validated components and/or assemblies of the certified/listed equipment.

Validated base designation	Colour	Description	Base + detector circuit type	Protocol
System Sensor, Model B501AUS-IV	Ivory	flangeless base	addressable/analog	Flash-Scan™ or CLIP (Classic Loop Interface Protocol)
System Sensor, Model B501AUS-W	White			
System Sensor, Model B501BI-IV	Ivory	short-circuit isolator base		
System Sensor, Model B501BI-W	White			

Schedule of properties/characteristics

The following schedule is an extract of physical and operational properties/characteristics of the certified/listed equipment .

Operating voltage range:	15 to 32 Vdc
Standby current:	360 µA @ 24 Vdc (one communication every 5 seconds with LED blink enabled)
Maximum alarm current (LED on):	6.5 mA @ 24 Vdc
Operating humidity range:	5% to 96% relative humidity, non-condensing
Operating temperature range:	-10°C to 50°C
Height:	2.0˝ (51 mm)
Diameter:	104 mm (4.1") installed in B501AUS-IV(W) base; 104 mm (4.1") installed in B501BI-IV(W) isolator base
Weight:	147 g (5.2 oz.)
Fixed temperature rating:	63°C
Heat type:	Class A2
Smoke sensitivity band:	1 and 2
Software version:	A

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Supplementary information

Schedule of relevant articles

The following schedule is an extract of articles significant and/or related as evidence of conformity.

Reference		Title / description	Date issued (or date validated)	Source
Ident. type	**Ident.**			
Report	XF3261/R6	Evaluation for Conformity of the System Sensor, Model 2251TMBPI-IV/-W combined smoke/heat detector, Model 2251BPI-IV/-W photoelectric smoke detector, Model 5251BPI-IV/-W Class A2 heat detector, and Model 5251RBPI-IV/-W Class A2R heat detector to the requirements of AS ISO 7240.5:2018 and AS 7240.7:2018	30-Jul-2019	CSIRO Fire Systems Laboratory, AU
Instructions	I56-6938-000 Ver. A	PERTRONIC INSTALLATION AND MAINTENANCE INSTRUCTIONS 2251BPI-W(smoke) and 2251TMBPI-W(smoke and heat) Intelligent Photoelectric Scattered Light Smoke Sensors	1-Jul-2019	Pertronic Industries Limited, AU