CSIRO Verification Services
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http://www.activfire.gov.au/

Certificate of Conformity

Certificate num.	Registration date	Version		Valid until	
afp - 2115	1-Aug-2007	Number 12	Issue date 1-May-2018	30-Apr-2019	Page **1** of **2**

Product designation

System Sensor, Model 1251BPI, nom. sens. (S)=0.4 MIC X, ionisation smoke 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

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

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 1251BPI, nom. sens. (S)=0.4 MIC X, ionisation smoke detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.2-1997, 'Automatic fire detection and alarm systems - Point type smoke 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. The Pertronic, Model F120A, CIE, with alarm thresholds set to the required sensitivity, has been verified as equipment to which this fire detector can be suitably connected.

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

David Whittaker
Executive Officer – ActivFire Scheme

Schedule to

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Producer's description

The System Sensor, Model 1251BPI, nom. sens. (S)=0.4 MIC X, ionisation smoke detector uses a state-of-the-art sensing chamber. The sensor is designed to provide open area protection and is intended for use with compatible control panels only.

Two indicator LEDs are provide on each sensor to provide a local, visible sensor indication. The LEDs can be latched on by a code command from the control panel for an alarm indication. Remote LED annunciation capability is also available as an optional accessory. The System Sensor, Model 1251BPI, nom. sens. (S)=0.4 MIC X, ionisation smoke detector includes a tamper-resistant capability that prevents its removal from the base assembly without the use of a tool.

Technical specification

The following details are a representative extract of the technical specification for the System Sensor, Model 1251BPI, nom. sens. (S)=0.4 MIC X, ionisation smoke 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 µA @ 24 Vdc (one communication every 5 seconds with LED blink enabled)
Maximum alarm current (LED on):	6.5 mA @ 24 Vdc
Sensing element:	Ionisation chamber, Americium 241, 20 kBq
Nominal sensitivity:	(S)=0.4 MIC X
Operating temperature range:	0°C to +49°C
Humidity:	10 to 93 %RH
Height:	43 mm
Diameter:	104 mm

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

Supplementary information

B501 base assembly

The System Sensor, Model B501 base assembly is intended for use in an Intelligent System with screw terminals provided for power (+) and (-), and remote annunciator connections. The communication takes place over the power (+) and (-) lines.