



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 1728</b>	21-Feb-2005	Number 14	Issue date 1-May-2020	30-Apr-2021

Page 1 of 2

## Product designation

**System Sensor, Model 2251W, nom. sens. (S)=8.0% obs./m, photoelectric smoke detector**  
(Refer to the Schedule/enclosures for further specified details)

## Agent/distributor

Pertronic Industries Limited  
17 Eastern Hutt Road, WINGATE, LOWER HUTT, NEW ZEALAND, 5019

## Registrant

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

### Producer

Xi'an System Sensor Electronics, Ltd  
11 Xiao Zhai East Road, XIAN, SHAANXI, CHINA, 710061

## Conformance criteria and evaluation

The System Sensor, Model 2251W, nom. sens. (S)=8.0% obs./m, photoelectric 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. Suitable for connection to the Pertronic Firetronix, Model F100A fire indicator panel.
- 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 Certificate of Conformity

Certificate num.	Registration date	Version		Valid until	Page 2 of 2
<b>afp - 1728</b>	21-Feb-2005	Number 14	Issue date 1-May-2020	30-Apr-2021	

## Producer's description

The System Sensor, Model 2251W, nom. sens. (S)=8.0% obs./m, photoelectric smoke detector utilises a state-of-art optical sensing chamber. The sensor is designed to provide open area protection and to be used with compatible control and indicating equipment. The maximum number of number of detector addresses per loop is 99.

Two indicator LEDs on each sensor light to provide a local 360° visibility of the sensor indication. The LEDs can be latched on by code command from the panel for an alarm indication.

## Technical specification

The following details are a representative extract of the technical specification for the System Sensor, Model 2251W, nom. sens. (S)=8.0% obs./m, photoelectric smoke detector and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

<b>Nominal sensitivity (S):</b>	8.0% obs./m
<b>Diameter:</b>	104 mm in flangeless base
<b>Height:</b>	43 mm
<b>Weight:</b>	102 g
<b>Operating temperature range:</b>	0° to 60° C
<b>Operating humidity range:</b>	5% to 93% RH
<b>Voltage range:</b>	15 to 32 Vdc peak
<b>Maximum stand-by current:</b>	230 µA @ 24 Vdc (no communication)
<b>Maximum average stand-by current:</b>	330 µA @ 24 Vdc (one communication every 5 sec. with LED blink enabled)
<b>LED current:</b>	6.5 mA @ 24 Vdc

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