



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 1501</b>	10-Jan-2002	Number 12	Issue date 1-May-2018	30-Apr-2019

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## Product designation

**System Sensor Innovair™, Model DH100LP, duct sampling unit**

(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

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

## Conformance criteria and evaluation

The System Sensor Innovair™, Model DH100LP, duct sampling unit has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.13-1998, 'Automatic fire detection and alarm systems - Duct sampling units'.

## 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. Install only one DSU per zone, except when fitted with remote indicators.
- 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

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## Producer's description

The System Sensor Innovair™, Model DH100LP, duct sampling unit is a photoelectric detector approved for an extended air speed range of 0.5 m/s to 20.3 m/s and has an operational temperature range of 0° to 55°C. The duct sampling units are designed to operate with 12/24 Vdc supply from compatible 2-wire control panels. The alarm current must be limited to 100 mA or less by the control panel. Auxiliary relay contacts for control purposes are not available for use with this duct sampling unit. Control must initiate from the control panel.

The duct smoke detector latches into the alarm state when an alarm occurs. A green LED flashes to indicate power, a red LED signals local alarm indication, and optional accessories offer a variety of annunciation capabilities. This duct sampling unit can be reset by a momentary power interruption, the reset button on the front cover, the control panel, or remote reset accessory.

For testing, the alarm can be enabled by a magnet activated test switch or by the optional remote test station.

## Technical specification

The following details are a representative extract of the technical specification for the System Sensor Innovair™, Model DH100LP, duct sampling unit and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

<b>System voltage:</b>	12/24 Vdc
<b>Maximum ripple voltage:</b>	4 volts peak to peak
<b>Start up capacitance:</b>	0.02 µF maximum
<b>Standby ratings:</b>	8.5 Vdc minimum 35 Vdc maximum 120 µA maximum
<b>Alarm ratings:</b>	4.2 Vdc minimum at 10 mA 6.6 Vdc maximum at 100 mA Alarm current must be limited to 100 mA or less by control panel. If used, the RA400Z remote lamp operates within the specified alarm currents
<b>Reset voltage:</b>	2.5 Vdc minimum
<b>Reset time:</b>	0.3 sec. maximum
<b>Start Up time:</b>	34 sec maximum
<b>Temperature:</b>	0°C to 55°C
<b>Humidity:</b>	10% to 93% R.H. non-condensing.
<b>Air Velocity:</b>	0.5 to 20.3 m/sec
<b>Dimensions:</b>	36.5cm L x 14cm W x 7cm D
<b>Weight:</b>	1.5 kg