



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 2418	4-May-2010	Number 13	Issue date 20-Nov-2019	30-Apr-2020

Page 1 of 2

Product designation

InnovairFlex™, Model D2-AUS, duct smoke detector

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

Agent/distributor

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

Registrant

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

Producer

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

Conformance criteria and evaluation

The InnovairFlex™, Model D2-AUS, duct smoke detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.13:2018, 'Part 13: Automatic fire detection and alarm systems - Duct sampling smoke detectors'.

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 product is used in conjunction with the one of the with smoke detector components as designated under the Technical Specification of this document.
- ii. Compatibility of this product with new or existing control and indicating equipment should be verified prior to installation.

(Limitations/conditions of conformance continue)

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
afp - 2418	4-May-2010	Number 13	Issue date 20-Nov-2019	30-Apr-2020	

Producer's description

The InnovairFlex™, Model D2-AUS, duct smoke detector unit utilizes photoelectric technology for the detection of smoke.

This detection method, when combined with an efficient housing design, samples air passing through the duct allowing detection of a developing hazardous condition. When sufficient smoke is sensed, an alarm signal is initiated and appropriate action can be taken to shut off fans, blowers, change over air handling systems, etc. These actions can facilitate the management of toxic smoke and fire gases throughout the areas served by the duct system.

Technical specification

The following details are a representative extract of the technical specification for the InnovairFlex™, Model D2-AUS, duct smoke 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 properties/characteristics

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

Operating temperature:	–20° to 70° C (–4° to 158° F)
Storage temperature:	–30° to 70° C (–22° to 158° F)
Humidity:	0% to 93% Relative Humidity Non-condensing
Air velocity:	0.5 to 20.3 m/sec. (100 to 4000 ft./min.)
Rectangular footprint dimensions:	37 cm L x 12.7 cm W x 6.36 cm D (14.38 in L x 5 in W x 2.5 in D)
Square footprint dimensions:	19.7 cm L x 22.9 cm W x 6.35 cm D (7.75 in L x 9 in W x 2.5 in D)
Weight:	0.82 kg (1.8 pounds)
Electrical	
Power supply voltage:	8.5-35 Vdc
Input capacitance:	0.1 µF max.
Reset voltage:	2.5 Vdc min.
Reset time (with RTS451/RTS151):	.03 to 0.3 sec.
Reset time (by power down):	0.3 sec. max.
Power up time:	35 sec. max.
Alarm response time:	15 sec.
Nominal sensitivity:	4.0% obs/m
Current requirements (using no accessories)	
Peak standby current	120µA
Average standby current	60µA
Max. alarm current	130 mA

Schedule of components and/or assemblies

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

Product assembly designation			
InnovairFlex™, Model D2-AUS, duct smoke detector			
Detector (photoelectric) component designation	Nominal sensitivity	Base designation	Detector circuit type
System Sensor, Model 2151BAUS	4.0 % obs/m	Base is integrated with the product assembly	Addressable
System Sensor, Model 2151BPI			
Honeywell, Model 2600M			

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	XF3244/R2	Evaluation for Conformity of the Innovairflex Model D2-AUS, Duct Sampling Smoke Detector to the requirements of AS 1603.13:2018	1-Nov-2019	CSIRO, Fire Systems Laboratory, AU
Document id.:	I56-3641-001R	INSTALLATION AND MAINTENANCE INSTRUCTIONS Innovairflex™ D2-AUS Duct Smoke Detector	3-May-2012	System Sensor, Ltd, US