



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 3352	22-May-2019	Number 6	Issue date 3-Apr-2024	30-Apr-2025

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Product designation

System Sensor® / FFAST LT-200, FL20 Series, aspirating 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

Honeywell Limited
Level 3, 2 Richardson Place, NORTH RYDE, NSW, AUSTRALIA, 2113

Producer

Pittway Tecnologica S.r.l.
Via Caboto 19/3, TRIESTE, ITALY, 34147

Conformance criteria and evaluation

The System Sensor® / FFAST LT-200, FL20 Series, aspirating smoke detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS ISO 7240.17:2015, 'Fire detection and alarm systems - Part 17: Short-circuit isolators'.
2. Australian Standard AS 7240.20-2012, 'Fire detection and alarm systems - Part 20: Aspirating 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. Compatibility of this fire detector 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

Kaj Loh
Executive Officer – ActivFire Scheme



Schedule to Certificate of Conformity

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Producer's description

The System Sensor® / FAAST LT-200, FL20 Series, aspirating smoke detector is part of the Fire Alarm Aspiration Sensing Technology® (FAAST) family. FAAST is an advanced fire detection system for use where early warning and very early warning are a requirement. The system continuously draws air from the controlled environment through a series of sampling holes to monitor the environment for smoke particulates.

The FL20 is the addressable version of the range, communicating with the CIE (Fire Panel) via a proprietary loop protocol.

It is available in 3 different models:

FL2011EI-HS Single channel capability with one high sensitivity smoke sensor.

FL2012EI-HS Single channel capability with two high sensitivity smoke sensors in a common chamber for coincidence detection.

FL2022EI-HS Two channel capability with two high sensitivity smoke sensors in separate chambers (one sensor for each channel).

The smoke sensor in the System Sensor® / FAAST LT-200, FL01 Series, aspirating smoke detector is the System Sensor, Model FA0641-000, high sensitivity smoke sensor.

The product has a built-in solid state short-circuit isolator that operates automatically.

All models in the System Sensor® / FAAST LT-200, FL20 Series, aspirating smoke detector are the same physical size, 403 x 356 x 135 mm.

Technical specification

The following details are a representative extract of the technical specification for the System Sensor® / FAAST LT-200, FL20 Series, aspirating 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 variant designations

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

Brand	Variant		Description
	Type	Ident.	
System Sensor® / FAAST LT-200	Model	FL2011EI-HS	Loop Based Single Channel Detector
		FL2012EI-HS	Loop Based Single Channel Dual Detector
		FL2022EI-HS	Loop Based Dual Channel Detector

Schedule of components and/or assemblies

Validated smoke sensor designation	Description	Circuit type	Protocol
System Sensor Model F-SEN-SSE (FA 0541-000)	High sensitivity smoke sensor	Addressable	Classic Loop Interface Protocol (CLIP, one address per channel) or Advanced Protocol

Schedule of properties/characteristics

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

General	FL2011EI-HS	FL2012EI-HS	FL2022EI-HS
Maximum single/branched pipe length	100/180 m	100/180 m	100/180 m
Outside pipe diameter	Ø 25 / 27 mm	Ø 25 / 27 mm	Ø 25 / 27 mm
Electrical			
Voltage range	18.5 V – 31.5 Vdc		
Supply Current	@24 Vdc 25°C		
1 Channel	170 mA (typical)		
	360 mA (max)		
2 Channel	270 mA (typical)		
	570 mA(max)		

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Module isolator characteristics	
Maximum rated switching current (under short circuit, $I_{s,max}$)	0.9 A @ ≤ 29 V
Maximum leakage current ($I_{l,max}$) with the switch open (isolate state)	15mA
Maximum series impedance with the switch closed ($Z_{c,max}$)	190 m ohm at 15 Vdc; 1A
Power reset	0.5 s
Configurable Input	Activation time 2 s (min)
Relay contact Rating	2.0A @ 30 Vdc 0.5A @ 30 Vac
Environmental conditions	
Temperature	-10°C - +55°C
Relative Humidity	10% to 93%
Flow fault	$\pm 20\%$ of the reference flow
IP rating	65
Mechanical	
Dimensions (WHD)	403 x 356 x 135 mm
Weight	6.5 kg

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 Number	XF3307/R1	Evaluation for conformity of the System Sensor FFAST LT-200 FL20 series, aspirating smoke detector to the requirements of AS 7240.20-2012 and AS ISO 7240.17:2015	21-May-2019	CSIRO, Fire Systems Laboratory, AU
Guide	-	Fire Alarm Aspiration Sensing Technology® FL2011EI-HS FL2012EI-HS FL2022EI-HS LOOP BASED FFAST LT-200 MODELS QUICK INSTALLATION GUIDE	-	System Sensor Europe, Pittway Tecnologica Srl.,IT