



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 2796</b>	22-Oct-2012	Number 16	Issue date 2-Apr-2024	30-Apr-2025

## Product designation

**SecuriRAS, ASD 535 Series, aspirating smoke detector**

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

## Agent/distributor

Incite Fire

Block Y, Unit 1, Regents Park Estate, 391 Park Road, REGENTS PARK, NSW, AUSTRALIA, 2143

## Registrant

Securiton AG

Alpenstrasse 20, ZOLLIKOFEN, SWITZERLAND, CH-3052

### Producer

Securiton AG

Alpenstrasse 20, ZOLLIKOFEN, SWITZERLAND, CH-3052

## Conformance criteria and evaluation

The SecuriRAS, ASD 535 Series, aspirating smoke detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. 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 equipment 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

Kai Loh

Executive Officer – ActivFire Scheme



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## Producer's description

The SecuriRAS, ASD 535 Series, aspirating smoke detector is a highly sensitive, active smoke detection system. It offers application-specific sensitivity adjustment alongside pre-signaling and pollution analyses. This equipment may be used as a standalone detector or connected to a monitored input port of FDCIE.

The SecuriRAS, ASD 535 Series, aspirating smoke detector performs the function of continuously taking air samples via one to four sampling pipe tube networks from a monitored area and feeding the samples to one or two smoke sensors.

This equipment consists of the detector housing and one to four sampling pipe tube networks. The sampling pipes have several sampling holes whose size is such that each hole withdraws the same amount of air. The sampling pipe may be I-, U-, T-, H-, or E- shaped. The sampling pipes are usually symmetrical designed. Asymmetrical sampling pipe tube networks can also be implemented using "ASD PipeFlow" calculation software.

Smoke sensor types are available for use with the SecuriRAS, ASD 535 Series, aspirating smoke detector:

- SSD 535-1: sensitivity range 0.5%/m to 10%/m. Earliest pre-signal 0.05%/m
- SSD 535-2: sensitivity range 0.1%/m to 10%/m. Earliest pre-signal 0.01%/m
- SSD 535-3: sensitivity range 0.02%/m to 10%/m. Earliest pre-signal 0.002%/m

The following modules can be added into the SecuriRAS, ASD 535 Series, aspirating smoke detector:

- SLM 35 SecuriLine Module.
- RIM 35 Relay Interface Module with five (5) relays.
- MCM 35 Memory Card Module.
- SIM 35 Serial Interface Module

## Technical specification

The following details are a representative extract of the technical specification for the SecuriRAS, ASD 535 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.

Variant		Features			Software version
Type	Ident	Single pipe Single sensor	Dual pipe Dual sensor	Smoke level indicator	
Model no	ASD 535-1	✓			V01.10.5
	ASD 535-2		✓		
	ASD 535-3	✓		✓	
	ASD 535-4		✓	✓	
	ASD 535-3HD	✓		✓	
	ASD 535-4HD		✓	✓	

### Schedules of properties/characteristics

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

#### Electrical characteristics, Model specific

	Max. power consumption, measured in Fan speed level V and at:	Supply voltage range, 10.5 to 30 Vdc			Units
		12 Vdc operation 10.5 Vdc	24 Vdc operation 18 Vdc	Typical 24 Vdc	
ASD 535-1	Idle/fault Alarm I	approx. 575 approx. 660	approx. 340 approx. 390	approx. 260 approx. 295	mA mA
ASD 535-2	Idle/fault Alarm I + II	approx. 645 approx. 745	approx. 380 approx. 450	approx. 290 approx. 350	mA mA
ASD 535-3	Idle/fault Alarm I	approx. 575 approx. 695	approx. 340 approx. 405	approx. 260 approx. 310	mA mA
ASD 535-4	Idle/fault Alarm I + II	approx. 645 approx. 820	approx. 380 approx. 490	approx. 290 approx. 385	mA mA
ASD 535-3HD	Idle/fault Alarm I	approx. 575 approx. 695	approx. 340 approx. 405	approx. 260 approx. 310	mA mA
ASD 535-4HD	Idle/fault Alarm I + II	approx. 645 approx. 820	approx. 380 approx. 490	approx. 290 approx. 385	mA mA
Additionally with 1 RIM 35 unit		approx. 15	approx. 10	approx. 7	mA

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Additionally with 2 RIM 35 units	approx. 30	approx. 20	approx. 14	mA
Additionally with SLM 35	approx. 20	approx. 10	approx. 5	mA
Additionally with MCM 35	approx. 25	approx. 15	approx. 10	mA
Switch-on current peak			approx. 5 for 1	A ms

## Electrical characteristics, general

Characteristic	Value	Units
Max. loading capacity relay contact	50	Vdc
	1	A
	30	W
Max. loading capacity per open collector output	100	mA

## Environmental characteristics

Characteristic	Value	Units
Ambient conditions		
Detector housing temperature range	-30 to +60	°C
Sampling pipe temperature range	-20 to +60	°C
Ambient pressure difference of detector housing to sampling pipe (sampling holes)	must be identical	
Detector housing humidity ambient condition (transient, non-condensing)	95	%RH
Humidity ambient temperature (continuous)	70	%RH
IEC 529 protection class for ASD 535	IP 54	
IEC 529 protection class for ASD 535HD	IP 66	

## Physical characteristics

Characteristic	Value	Units
Plug-in terminals	2.5	mm <sup>2</sup>
Noise level (at fan speed III)	39	dB(A)
Map case material	ABS Blend, UL 94-V0	
Map case colour	Grey 280 70 05 / anthracite violet 300 20 05	
Dimensions (W x H x D)	265 x 397 x 148	mm
Weight (ASD 535-x (incl. SSD 535-x))	3555	g

## 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	CSBA0052/R1	Evaluation for conformity of the ASD 53x series of Aspirating Smoke Detectors to the requirements of AS 7240.20-2012	27-July-2023	CSIRO, Fire Systems Laboratory, AU
	XF3554/R1	Evaluation for conformity of the SecuriRAS, ASD 535 series, aspirating smoke detector to the requirements of AS 7240.20-2012	1-Nov-2019	
	XF2593/R1	Conformity Evaluation of the SecuriRAS ASD 535 series, aspirating smoke detector to the requirements of AS 1603.8-1996	5-Nov-2012	CSIRO, Industrial Research Services, Fire Systems, AU
Data sheet	T 131 193 k en / 60000015	Securiton Data sheet ASD 535 Aspirating smoke detector (ASD535_DS_T131193en_k.pdf)	16-Nov-2022	Securiton AG, CH
Manual	T 131 192 k en	Securiton ASD 535 Aspirating Smoke Detector Technical description Beginning with FW version 01.10.xx (ASD535_TD_T131192en_k.pdf)	24-Jan-2023	

The REK 511 identification unit, containing the SSD 515-3S smoke detector, is also available as part of the ASD 535 series.