



# SecuriSmoke ASD 531/532/533/535

Product Catalogue 2020

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# 1. Introduction



## SecuriRAS ASD aspirating smoke detectors: the complete model range for any application

Aspirating smoke detectors from Securiton are among the most precise and most reliable early warning systems against fires. The SecuriRAS ASD detector series impresses by virtue of its unrivalled capabilities. Developed in Switzerland and manufactured in Germany, the detectors are particularly reliable and robust. Thanks to their sophisticated detection technology, they can detect incipient fires immediately. Whether in IT racks, production halls or large deepfreeze areas, Securiton has the perfect fire protection solution for all safety requirements. SecuriRAS ASD detectors are available in three models, with the main difference between them being the maximum possible monitoring area. This means that protection without compromise is now even more cost-effective in small premises. All detectors can be seamlessly integrated into the SecuriFire fire detection system and are extremely durable thanks to their robust design.

### A combination of sensitivity and speed

In terms of smoke concentration, the alarm sensitivity of the HD (high-dynamic) smoke sensor ranges from 0.002%/m to 10%/m. This is equivalent to the sensitivity spectrum of a laser-based detector. In the extra-large LVSC (large-volume smoke chamber), the sensor permanently analyses the airflow with a high-power LED using tried-and-tested scattered light technology. It meticulously detects even the slightest increases in smoke concentration. With its patented lint filter, it suppresses even the finest dust particles that would otherwise falsify the detection process. Thanks to its optimised aerodynamic measuring chamber, the smoke sensor is also immune to dust deposits. This means that there is little chance of false alarms. Up to five alarm levels can be programmed within the sensitivity range of 0.002%/m to 10%/m. You can then rest assured that individual measures can be taken for each monitored zone. With dangers and hazards detected this precisely, any necessary alarm response is focused and extremely swift.

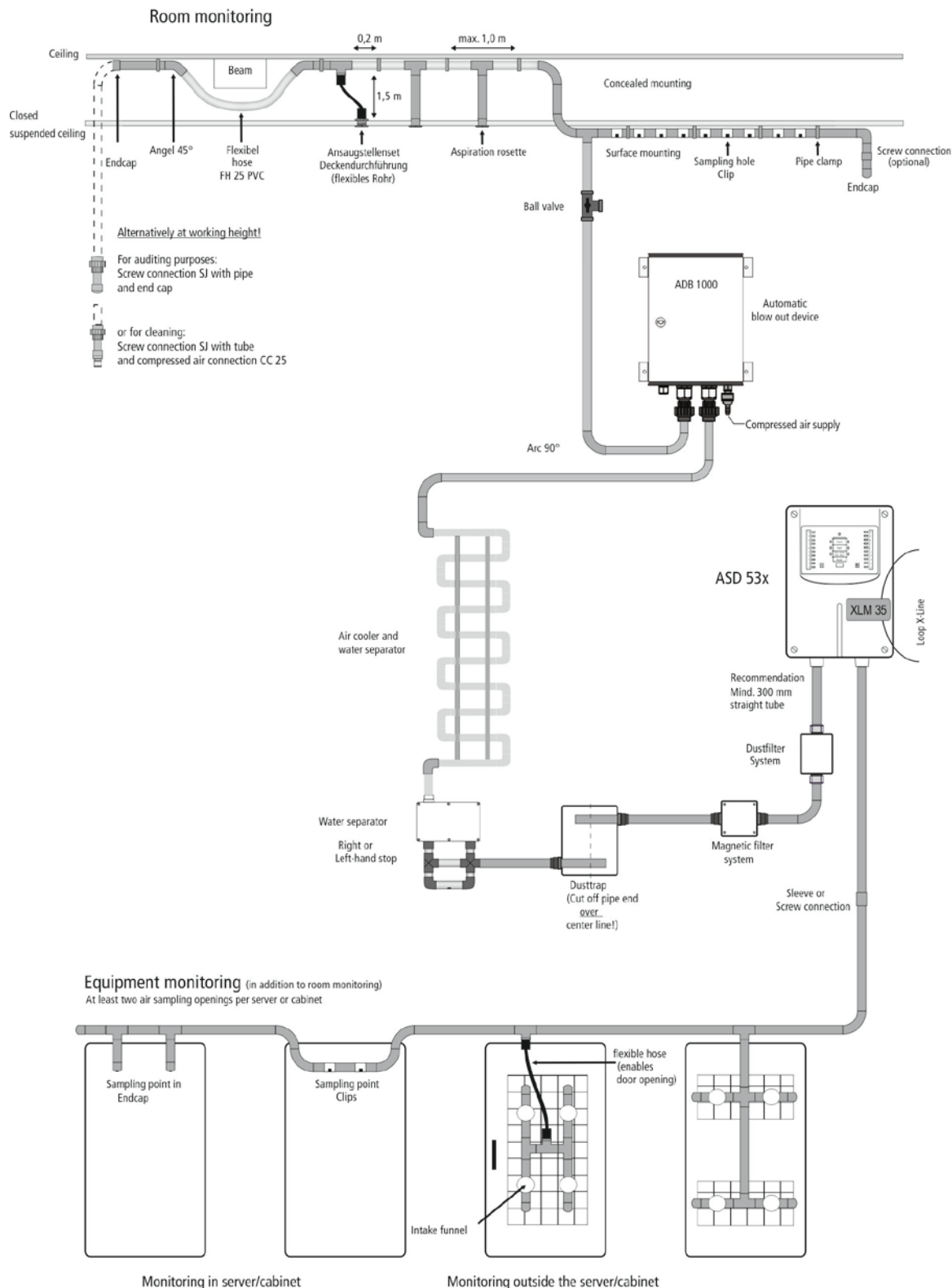
## System Comparison Chart

### 2. System Comparison Chart

	ASD 535	ASD 533	ASD 532	ASD 531
Channels	1/2	1	1	1
Smoke sensor	High-sensitivity smoke sensor with high-power LED, LVSC smoke chamber and patented lint filter			
Monitoring area	5760 m <sup>2</sup>	1920 m <sup>2</sup>	1280 m <sup>2</sup>	720 m <sup>2</sup>
Pipe length	2 x 300m	200m	120m	75m
Max number of holes				
Class A	2 x 18	16	8	6
Class B	2 x 56	50	12	8
Class C	2x 120	50	16	12
Direct integration in SecuriFire fire detection system	Yes, with XLM-35 module (alarm, pre-signal, faults, day/night sensitivity switching, reset etc.)			
Interfaces	Relays, USB, RS485, Inputs	Relays, USB, Inputs	Relays, Ethernet, RS485, Inputs	Relays, Inputs
Optional modules	4 slots for: RIM35, SIM35, XLM35, MCM35	4 slots for: RIM35, XLM35, MCM35	2 slots for: RIM36, SIM35, XLM35	2 slots for: RIM36, XLM35
Smoke level indicator	Optional (version -3 and -4)	No	Series	No
Programming (PC tool)	ASD Config	ASD Config	ASD Config	Not available
Configuration	EasyConfig	EasyConfig	EasyConfig	BasiConfig
Calculation of sampling pipes	ASD PipeFlow	ASD PipeFlow	ASD PipeFlow	ASD PipeFlow

### 3. System Overview

#### 3.1. ASD 535



The illustrated components are examples and can be combined within the scope of the technical possibilities. The technical documentation, installation instructions and regional standards must be observed. The planning and calculation software ASD Pipeflow is to be consulted for project engineering since the devices have different expansion stages.

## 4. Overview compatibility

	ASD 531		ASD 532		ASD 535 / 533	
Project planning:	Technical Document	PipeFlow (Software)	Technical Document	PipeFlow (Software)	Technical Document	PipeFlow (Software)
Configuration:	BasiConfig (on board)		EasyConfig (on board) or ASD Config (Software)	ASD Config (Software)	EasyConfig (on board) or ASD Config (Software)	ASD Config (Software)
Filter						
DFU 911	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Capillary tube						
TU 6 PVC	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Heating material for LT applications						
All material	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Detonation flame arrester for Ex applications						
DFA 25-1	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DFA 25-2						
DFA 25-3						
Automatic blow out device						
ADB 500	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ADB 1000						
ADB 2000						
Detector box						
REK 511	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Auxiliary module						
RIM 35	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
RIM 36	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
SLM 35	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
XLM 35	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
MCM 35	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
SIM 35	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	

## 5. Aspirating Systems

### 5.1. ASD Base Units

#### Aspirating Smoke Detector



#### ASD 531

including SSD 31

11-2000002-01-03

The SecurIRAS ASD 531 aspirating smoke detector is designed for smaller monitoring areas and for the easiest possible handling.

The ASD 531 is equipped with a highly sensitive smoke sensor SSD 31 using a single sampling pipe network.

The housing provides the option for two expansion modules.

Commissioning and configuration is done directly on the device without any software tool.

For planning the ASD PipeFlow software allows an optimized design of any installation.

Mains voltage:	14 to 30 VDC
Power consumption:	77 mA
Protection class:	IP54
Operating temperature:	-10°C to +55°C
Weight of basic version:	1950 g
Dimensions (HxWxD):	290 x 195 x 140 mm
Material:	ABS-Blend, UL 94-V0
Color:	grey (RAL 280 70 05) anthracite (RAL 300 20 05)

#### Approvals

VdS-Approval:	G 215100
Declaration of Performance (DoP):	CPR-10-16-106



### ASD 532

11-2000003-01-03

The SecuriRAS ASD 532 aspirating smoke detector is designed for small to midsize monitoring areas. The ASD 532 base unit is provided for a highly sensitive smoke sensor SSD 532 (to be ordered separately) for a single sampling pipe network.

The measured smoke level is indicated on a bar graph display.

The housing provides the option for two expansion modules.

Commissioning and configuration is done either directly on the device or via the ASD Config software tool.

For planning the ASD PipeFlow software allows an optimized design of any installation.

Mains voltage:	14 to 30 VDC
Power consumption:	100 mA
Protection class:	IP54
Operating temperature:	-20°C to +60°C
Weight of basic version:	2000 g
Dimensions (HxWxD):	290 x 195 x 140 mm
Material:	ABS-Blend, UL 94-V0
Color:	grey (RAL 280 70 05) anthracite (RAL 300 20 05)

### Approvals

VdS-Approval:	G 215101
Declaration of Performance (DoP):	CPR-10-16-107



## Aspirating Smoke Detector



### ASD 533-1

including SSD 533

11-2000001-01-02

The ASD 533 aspirating smoke detector has the task of continuously taking air samples via a sampling pipe tube network from a monitored area and feeding the samples to a smoke sensor.

The ASD 533 consists of the detector housing and a sampling pipe tube network. The sampling pipe has several sampling holes whose size is such that each hole extracts the same amount of air. The sampling pipe may be I-, U-, T-, H-, or E-shaped. The sampling pipe is symmetrically designed in principle. Asymmetrical sampling pipe tube networks can also be implemented using the "ASD PipeFlow" calculation software.

Mains voltage:	10.5 to 30 VDC
Power consumption:	210 mA
Protection class:	IP54
Operating temperature:	-20°C to +60°C
Weight of basic version:	3255 g
Dimensions (HxWxD):	265 x 397 x 148 mm
Material:	ABS-Blend, UL 94-V0
Color:	grey (RAL 280 70 05) anthracite (RAL 300 20 05)

### Approvals

VdS-Approval:	G 212163
Declaration of Performance (DoP):	CPR-11-13-100

# Aspirating Systems

## Aspirating Smoke Detector



ASD 535-1



ASD 535-2



ASD 535-3



ASD 535-4

<b>ASD 535-1</b>	1 Sampling pipe / Detector	<b>11-2000015-01-01</b>
<b>ASD 535-2</b>	2 Sampling pipes / Detectors	<b>11-2000016-01-01</b>
<b>ASD 535-3</b>	1 Sampling pipe / Detector, 1 Smoke level display	<b>11-2000017-01-01</b>
<b>ASD 535-4</b>	2 Sampling pipes / Detectors, 2 Smoke level displays	<b>11-2000018-01-01</b>

The SecuriRAS ASD 535 aspirating smoke detector is designed for universal applications mainly for midsize to large monitoring areas. The ASD 535 base units provide space for 1 or 2 highly sensitive smoke sensors SSD 535 (to be ordered separately) for 1 or 2 sampling pipe networks.

The measured smoke level can be indicated on a bar graph display (models -3 and -4). The housing provides the option for four expansion modules. Commissioning and configuration is done either directly on the device or via the ASD Config software tool. For planning the ASD PipeFlow software allows an optimized design of any installation.

Mains voltage:	10.5 to 30 VDC
Power consumption:	260 mA
Protection class:	IP54
Operating temperature:	-30°C to +60°C
Weight of basic version:	3550 g
Dimensions (HxWxD):	397 x 265 x 146 mm
Material:	ABS-Blend, UL 94-V0
Color:	grey (RAL 280 70 05) anthracite (RAL 300 20 05)

### Approvals

VdS-Approval:	G 208154
Declaration of Performance (DoP):	CPR-10-16-101

## Aspirating Smoke Detector Heavy Duty



ASD 535-3HD



ASD 535-4HD

**ASD 535-3HD**

1 Sampling pipe / Detector

**11-2000036-01-01****ASD 535-4HD**

2 Sampling pipes / Detectors

**11-2000037-01-01**

The SecuriRAS ASD 535-HD aspirating smoke detector is designed for special applications in very dusty and dirty monitoring areas. The ASD 535 base units provide space for 1 or 2 highly sensitive coated smoke sensors SSD 535CP (to be ordered separately) for 1 or 2 sampling pipe networks.

The measured smoke level can be indicated on a bar graph display. The housing provides the option for four expansion modules. The device can be expanded with the overvoltage protection board OPB911 up to 8kV.

Commissioning and configuration is done either directly on the device or via the ASD Config software tool.

For planning the ASD PipeFlow software allows an optimized design of any installation.

Mains voltage:	10.5 to 30 VDC
Power consumption:	260 mA
Protection class:	IP66
Operating temperature:	-30°C to +60°C
Weight of basic version:	3550 g
Dimensions (HxWxD):	397 x 265 x 146 mm
Material:	ABS-Blend, UL 94-V0
Color:	grey (RAL 280 70 05) anthracite (RAL 300 20 05)

**Approvals**

VdS-Approval:	G 208154
Declaration of Performance (DoP):	CPR-11-20-111

**Accessories**

Overvoltage protection OPB 911 coated	OPB 911 CP	11-2200038-01-01
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## 5.2. Smoke Sensors (SSD)

### Smoke Sensor for ASD 531



#### SSD 31

Alarm Sensitivity range  
0,02% – 10% /m

11-2200009-01-02

The smoke sensor SSD 31 is pre-installed in the ASD 531 and is also available as replacement part.

3 Pre-signals are set on a fixed percentage of the alarm threshold (30/50/70%).

- Sensitivity range alarm: 0.02 %/m – 10 %/m
- Sensitivity range pre-signals: 0.006 %/m – 7 %/m

Operating voltage: 5 VDC

Dimensions (HxWxD): 120 x 116 x 95 mm

### Smoke Sensor for ASD 532



#### SSD 532-3

Alarm Sensitivity range  
0,02% – 10% /m

11-2000004-03-02

The smoke sensor SSD 532 has to be ordered separately for the ASD 532.

3 Pre-signals can be set between 10 and 90% of the alarm threshold.

- Sensitivity range alarm: 0.02 %/m – 10 %/m
- Sensitivity range pre-signals: 0.002 %/m – 9 %/m

Operating voltage: 5 VDC

Dimensions (HxWxD): 120 x 116 x 95 mm

### Smoke Sensor for ASD 533



#### SSD 533

Alarm Sensitivity range  
0,02% – 10% /m

11-2200006-01-02

The smoke sensor SSD 533 is pre-installed in the ASD 533 and is also available as replacement part.

Pre-signals can be set between 10 and 90% of the alarm threshold

- Sensitivity range alarm: 0.02 %/m – 10 %/m
- Sensitivity range pre-signals: 0.006 %/m – 9 %/m

Operating voltage: 5 VDC

Dimensions (HxWxD): 127 x 120 x 95 mm

## Smoke Sensor for ASD 535

**SSD 535-3**

Alarm Sensitivity range  
0,02% – 10% /m

**11-2000010-01-01**

The smoke sensor SSD 535 has to be ordered separately for the ASD 535.

Pre-signals can be set between 10 and 90% of the alarm threshold.

- Sensitivity range alarm: 0.02 %/m – 10 %/m
- Sensitivity range pre-signals: 0.002 %/m – 9 %/m

Operating voltage:	5 VDC
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Dimensions (HxWxD):	127 x 120 x 95 mm
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Accessories		
Fastener plate to cover a smoke sensor chamber	ASD 535 Verschl	11-2300009-01-01

## Smoke Sensing Device high Sens

**SSD 535-3 CP****11-2000013-01-01**

The smoke sensor SSD 535 has to be ordered separately for the ASD 535.

Pre-signals can be set between 10 and 90% of the alarm threshold.

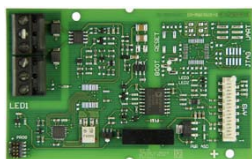
- Sensitivity range alarm: 0.02 %/m – 10 %/m
- Sensitivity range pre-signals: 0.002 %/m – 9 %/m
- All the electronic parts are coated.

Operating voltage:	5 VDC
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Dimensions (HxWxD):	127 x 120 x 95 mm
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## 5.3. Expansion modules

### Loop I/F module for Special Fire Detectors



#### XLM 35

SecuriLine eXtended

11-2200003-01-01

With the installation of an XLM 35, special fire detectors like ASDs can be ideally connected via the addressable loop to the SecuriFire fire alarm systems. The normative alarm transmission to the superordinate FACP is then accomplished via the XLM 35.

The XLM 35 module allows also central configuration of special fire detectors with the Config Over Line function. The module comes with mounting brackets, screws and ribbon cable

Operating voltage:	5 VDC
Power consumption:	20 mA
Operating temperature:	-30°C to +60°C
Weight:	56 g
Dimensions (HxWxD):	58 x 97 x 17 mm

### Relay I/F module for ASD 535



#### RIM 35

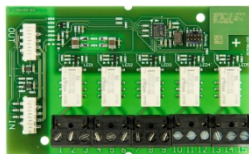
5 relays with changeover contacts

4000287-0101

The RIM 35 brings five (5) additional relay outputs to your ASD 535. Expansion limit is two (2) RIM 35 / 10 relays. Each relay can be assigned to any ASD event by programming with the ASD Config software. The module comes with mounting brackets, screws and ribbon cable.

Operating voltage:	5 VDC
Power consumption:	15 mA
Operating temperature:	-30°C to +60°C
Weight:	85 g
Dimensions (HxWxD):	58 x 97 x 17 mm

## Relay I/F module for Special Fire Detectors

**RIM 36**

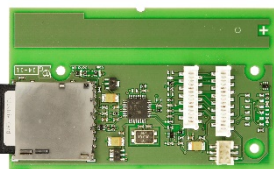
5 relays with changeover contacts

**11-2200005-01-02**

The RIM 36 brings five (5) additional relay outputs to your Special Fire Detector (except ASD 535). Expansion limit is two (2) RIM 35 / 10 relays. Each relay can be assigned to any ASD event by programming with the ASD Config software. The module comes with mounting brackets, screws and ribbon cable.

Operating voltage:	5 VDC
Power consumption:	15 mA
Operating temperature:	-30°C to +60°C
Weight:	85 g
Dimensions (HxWxD):	58 x 97 x 17 mm

## Memory card module for ASD 535

**MCM 35****4000285-0101**

The RIM 35 brings five (5) additional relay outputs to your ASD 535. Expansion limit is two (2) RIM 35 / 10 relays. Each relay can be assigned to any ASD event by programming with the ASD Config software. The module comes with mounting brackets, screws and ribbon cable.

Operating voltage:	5 VDC
Power consumption:	25 mA
Operating temperature:	-30°C to +60°C
Weight:	43 g
Dimensions (HxWxD):	58 x 99 x 17 mm

## Serial I/F Module networking of Special Fire Detectors

**SIM 35****11-2200000-01-02**

For the RS 485 networking of up to 250 Special Fire Detectors like ASD 535 or ASD 532 . Using the "ASD Config" configuration software, all ASDs in the network can be visualised and configured from a PC. The module comes with mounting brackets, screws and ribbon cables.

Operating voltage:	5 VDC
Power consumption:	20 mA
Operating temperature:	-30°C to +60°C
Weight:	56 g
Dimensions (HxWxD):	58 x 95 x 17 mm

## Aspirating Systems

### Serial Master Module for networking of Special Fire Detectors



#### SMM 535

11-2200001-01-01

This interface connects the RS485 (over SIM 35) networked ASDs to a USB port of a PC. It is powered by the USB port.

Operating voltage:	USB powered / 5 VDC
Operating temperature:	-30°C to +60°C
Weight:	165 g
Dimensions (HxWxD):	82 x 89 x 55 mm
Material:	PC
Color:	light grey (RAL 7035)

### Universal module support for Special Fire Detectors



#### UMS 35

4301252-0101

Universal module support for the attachment of BX-OI3, SCI 82 and others.

Weight:	60 g
Dimensions (HxWxD):	130 x 11 x 94 mm



## 5.4. Demo and Test Equipment

### Democase for ASD 535



#### ASD 535 DCU

249704

ASD 535 Democase unit for training and sales presentations.

Containing one ASD 535-4, alarm and fault simulation equipment, buzzer for alarm indication, USB cable for PC connection, power cable (swiss standard & international adapter type F)

Mains voltage:	230VAC
Power consumption:	<500mA
Operating temperature:	-30°C to +60°C
Weight of basic version:	14 kg
Dimensions (HxWxD):	580 x 430 x 230 mm

### Democase for ASD 531/532



#### ASD 531/532 DCU

249702

ASD 531/532 Democase unit for training and sales presentations.








Containing one ASD 531 and one ASD 532. For alarm and fault simulation. Equipped with buzzer for alarm indication, Ethernet cable for PC connection of ASD 532. Power cable (swiss standard & international adapter type F)

Mains voltage:	230VAC
Power consumption:	<500mA
Operating temperature:	-20°C to +70°C
Weight of basic version:	15 kg
Dimensions (HxWxD):	500 x 354 x 365 mm




## 5.5. Spare Parts

### ASD Spare Parts




#### Main boards

	Main board for ASD 535-1 and -3 Repair exchange only	AMB 35-1	11-200016-01-01
	Main board for ASD 535-2 and -4 Repair exchange only	AMB 35-2	11-2200017-01-01
	Main board for ASD 535-3 HD coated Repair exchange only	AMB 35-1 CP	11-2200021-01-01
	Main board for ASD 535-4 HD coated Repair exchange only	AMB 35-2 CP	11-2200022-01-01
	Main board for ASD 533-1	AMB 33-1	11-2200004-01-01
	Main board for ASD 531 Repair exchange only	AMB 31	11-2200012-01-03
	Main board for ASD 532 Repair exchange only	AMB 32	11-2200013-01-04

#### Basic control board

	Basic control board for standard display of ASD 535-1 and -2 Repair exchange only	BCB 35	4301220-0101
	Basic control board for advanced display of ASD 535-3 and -4 Repair exchange only	ACB 35	4301221-0101
	Basic control board for advanced display ASD 535-3 and -4 HD version, coated Repair exchange only	ACB 35 CP	11-2200020-01-01

#### Air flow







	Air flow sensor for ASD 535 Repair exchange only	AFS 35	4000300
	Replacement O-RING for AFS 35 delivery unit: 50 pcs	O-RING	11-2300036-01-01
	Air flow sensor for ASD 531 and ASD 532 Repair exchange only	AFS 32	11-2200007-01-01

#### Aspirating fan

	Aspirating fan unit for ASD 535	AFU 35	4000299
	Aspirating fan unit for ASD 531 and ASD 532	AFU 32	11-2200008-01-01

## ASD Spare Parts

### Various spare parts

	SD-Card Industrial 2GB	SD-Industrial	11-4000007-01-01
	Button battery	BATT 3V CR2032	11-4000010-01-01
	Rotary Snap Lock for ASD 531/532/535 delivery unit: 4 pcs	RSL 35	4301315-0101
	Insect protection screen for ASD 531/532/535 delivery unit: 2 pcs	IPS 35	11-2300012-01-01
	M20 Cable Screw Union delivery unit: 10 pcs	M20 VE10	11-4000003-01-02
	M25 Cable Screw Union delivery unit: 10 pcs	M25 VE10	11-4000004-01-02

### 6. Dongle license and ASD PipeFlow

<b>Basic license:</b>	<b>Limited access</b> for ASD Config software. Available with or without networking* visualization. Only read functions and the following write functions are possible: <ul style="list-style-type: none"> <li>- Change the current program (e.g. X01-X03, A11,B11 etc.)</li> <li>- No change of parameters in the X01-X03 programs.</li> <li>- Project texts</li> <li>- FW-download</li> <li>- RTC clock adjustment</li> <li>- Change the tool language</li> </ul>
<b>Programming license:</b>	<b>Full access</b> to all available ASD Config software functions. Only available after Securiton training.
<b>Networking license:</b>	<b>Networking</b> Up to 250 aspirating smoke detectors (ASD 532 and / or ASD 535) can be networked between each other, in order to configure and visualize devices from one central location. The networking takes place via RS 485 with SIM 35 and SMM 535 or Ethernet. A combination of both transmission media is possible. The networking can be added to the Basis license and Programming licenses

**Dongle order form available on the Securiton Homepage:**

<http://www.securiton.com>

#### ASD PipeFlow

Planning and calculation software for planning symmetric and asymmetric sampling pipe topologies. (Subject to licence)  
 Requirements: Windows XP / 7 / 8.1; 1 GB RAM;  
 Hard disc space 50 MB

ASD PipeFlow

VE100390

#### ASD Dongle license

ASD Config Basic License	LIC ASD	VE100391
ASD Config Programming full access (only in combination with Basic License ASD available)	LIC ASD Prog	VE100392
ASD Config Networking to configure and visualize	LIC ASD Net	VE100393

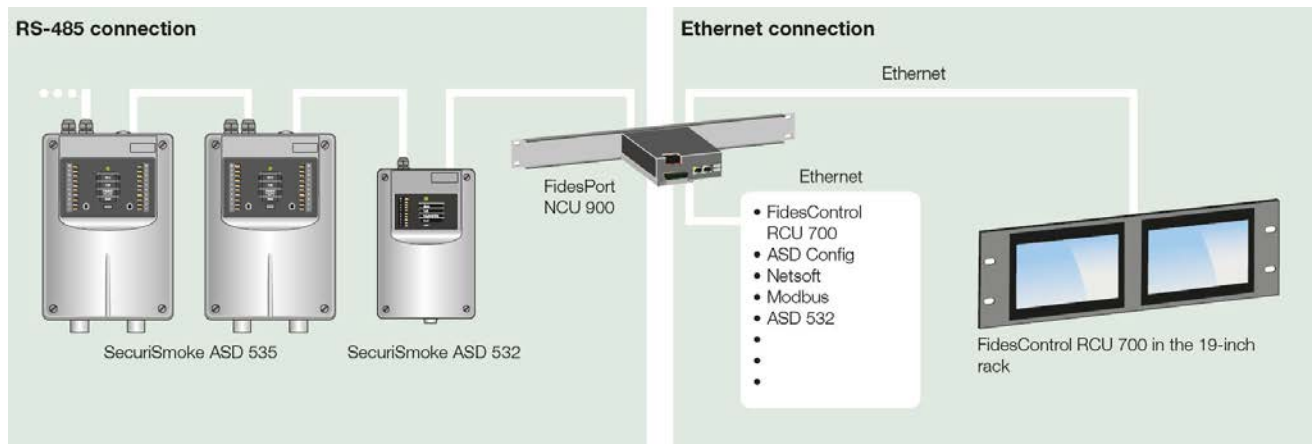
#### Securiton Dongles

Dongle for Securiton Applications (without license)	ULM-DP	VE100450
Dongle for Securiton Applications (without license) Pack of 5 Dongles	ULM-DP 5	VE100451
Dongle for Securiton Applications (without license) Pack of 10 Dongles	ULM-DP 10	VE100452

## 6.1. ASD Networking and Visualization





### 6.2. FidesNet

FidesNet makes it possible to connect multiple SecuriSmoke aspirating smoke detectors in a network while also enabling decentralised access via one or more FidesControl RCU 700 units. The performance scope includes RS-485 networking plus the visualisation and operation of all connected ASDs on the FidesControl RCUs linked in the network. Various other functions can be implemented in addition to visualization and operation. The FidesNet networking solution offers the possibility of connecting the special fire detectors on the field level to superordinate systems via the FidesPort NCU 900.



#### FidesNet

##### Hardware

	Remote Control Unit	RCU 700	11-5000004-01-01
	Network Communication Unit	NCU 900	11-5000003-01-01
	RCU 700 Mounting frame 19-1	RMF 19-1	11-5000006-01-01
	RCU 700 Mounting frame 19-2	RMF 19-2	11-5000006-02-01

### 6.3. Netsoft

The NetSoft software tool visualises live data from the aspirating smoke detectors directly on the computer. From one central point, you have a complete overview of the entire ASD network.

The main benefits of NetSoft are:

- One tool for visualization, operation, configuration
- Clearly arranged graphic of the whole installation
- Color status display for simple interpretation
- Event monitoring, remote control and event logging
- Configuration options for technicians

Please contact your local sales representative if you wish more information about how to proceed if you have a project where NetSoft is used.



#### SecuriFire Netsoft

Netsoft for 0 - 10 ASD's	NetSoft 10	VE100471
Netsoft for 11 – 30 ASD's	NetSoft 30	VE100472
Netsoft for 31 – 50 ASD's	NetSoft 50	VE100473
Netsoft for 51 – 120 ASD's	NetSoft 120	VE100474
Netsoft for 121 - plus	NetSoft max	VE100475

## 7. Tubes and Fittings for Sampling Pipe

The materials for the sampling pipes are part of the VdS-Approval. For this reason, only materials approved and listed by Securiton may be used to build the system.

The pipe material is available in various plastics and metals. Most of the individual plastic pipe parts are glued.

The flexible pipe material for equipment and object monitoring is stretchable.

The metal pipes are connected by press fitting, the rigid plastic pipes can be deformed by heating.

The necessary tools such as pliers or pipe cutters can be purchased from specialist dealers.

### 7.1. ABS Tubes and Fittings










ABS tubes and fittings with outer diameter of 25 mm. Basic color is red, other colours on request.

The most important mechanical properties of ABS are impact resistance and toughness.

Temperature range for applications: -30°C to +60°C

#### ABS tubes and fittings

##### Tube and fittings

	Sampling tube d=25mm, ABS red 3m	TU 25 ABSRED	11-2300049-01-01
	Bend 90° d=25mm, ABS red delivery unit: 10 pieces	BE 25 ABSRED	11-2300050-01-01
	Angle 90° d=25mm, ABS red delivery unit: 10 pieces	AN 25-90 ABSRED	11-2300057-01-01
	Angle 45° d=25mm, ABS red delivery unit: 10 pieces	AN 25-45 ABSRED	11-2300052-01-01
	T-piece d=25mm, ABS red delivery unit: 10 pieces	TP 25 ABSRED	11-2300053-01-01
	Socket d=25mm, ABS red delivery unit: 10 pieces	SO 25 ABSRED	11-2300051-01-01
	Screw-junction piece d=25mm, ABS red delivery unit: 10 pieces	SJ 25 ABSRED	11-2300055-01-01
	End cap d=25mm, ABS red delivery unit: 10 pieces	EC 25 ABSRED	11-2300054-01-01
	Pipe clamp d=25mm, ABS red delivery unit: 20 pieces	PC 25 ABSRED	11-2300056-01-01

#### Compressed-air connection



##### CC 25 ABS

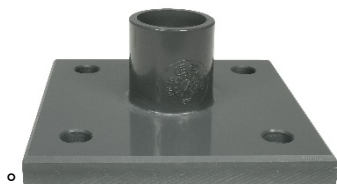
50-0500419-01-01

Compressed-air connection for tube TU 25 PVC for cleaning the aspirating tube.

Material:	ABS
Color:	grey

## Tubes and Fittings for Sampling Pipe

### Ventilation duct flange



#### DF 25 ABS

50-0500186-01-01

Flange for tube TU 25 ABS for the monitoring of ventilation ducts. Per duct 1 or 2 pcs for aspirating stub and 1 or 2 pcs for the air recirculation, depending the width of the duct.

Material:	ABS
-----------	-----

Color:	grey
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#### Assembly hint:

Please consider the planning hints mentioned in the technical documentation.

### Reduction – 25mm - $\frac{3}{4}$ "



#### RE $\frac{3}{4}$ -25 ABS

50-0500495-01-01

Reduction for 25mm tube to be connected to  $\frac{3}{4}$ " tube (TU 25 ABS).

Dimension (Ø):	$\frac{3}{4}$ " / 25mm
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Material:	ABS
-----------	-----

Color:	grey
--------	------



## 7.2. Flex Pipe Materials

### Flexible tube



#### FT 21 PA

11-2300074-01-01

Flexible tube for sampling stub flex and equipment monitoring.

- Length 50m

Dimensions (outer Ø):	21,2 mm
Material:	PA
Color:	black

### Self sealing coupling M20



#### SC 20ST PA

11-2300085-01-01

Self sealing coupling straight to connect flexible tube (FT 21 PA) with a tube TU 25 XXX.

delivery unit: 10 pieces

Dimensions (outer Ø):	M20 / 21,2 mm
Material:	PA
Color:	black

### Self sealing coupling M20



#### SC 20BE PA

11-2300084-01-01

Same as SC 20 ST PA but bent  
delivery unit: 10 pieces

Dimensions (outer Ø):	M20 / 21,2 mm
Material:	PA
Color:	black

### Adapter M20



#### AD 20 ABS

50-0500449-01-01

Ring nut to use together with SC 20XX PA. The rings have to be glued into ABS sockets, T-pieces with diameter 25mm.

delivery unit: 10 pieces

Dimensions:	M20
Material:	ABS
Color:	black

## Tubes and Fittings for Sampling Pipe

### 7.3. Concrete Inserts

#### Main Indication & Control Panel



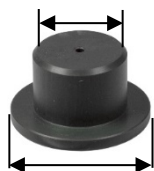
#### FT 32C

11-2300035-01-01

Tube for concrete insertion.  
delivery unit: roll of 50m

Dimensions (outer Ø):	32 mm
Material:	PE (KRF 32 M)
Color:	orange

#### Sampling rosette



#### SP 30 PVC

11-2300043-01-01

To be used together with sampling points SP 32T and SP 32C for sampling holes on plastering. Hose is included.

Material:	PVC
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#### Concrete sampling points

##### Connection for tube FT 32C



Sampling point T-piece, Ø 32 mm, set, for concrete insert

SP 32C T

235008



Sampling point L-piece, Ø 32 mm, set, for concrete insert

SP 32C L







235016

## 7.4. Cooper Tube Materials

Copper is used in high temperature applications typically above 60°C, often in combination with our LK 35 air cooler. The temperature is reduced by the LK35 to a temperature acceptable for the ASD. The mechanical stress on the intake tubes is negligible due to the ASD application.

### Cooper Material

#### Fittings

	Tube, Ø 22 mm, length 5 m, copper delivery unit: 5m	TU 22 Cu	0.101187
	Bend 90°, Ø 22 mm, copper	BE 22 Cu	50-0500484-01-01
	T-piece, Ø 22 mm, copper	TP 22 Cu	50-0500487-01-01
	Socket, Ø 22 mm, copper	SO 22 Cu	50-0500486-01-01
	Adapter, Ø 22 mm - 3/4", copper	AD 22-25 Cu	50-0500488-01-01
	End-cap, Ø 22 mm, copper	EC 22 Cu	50-0500485-01-01







## Tubes and Fittings for Sampling Pipe

### 7.5. Stainless Steel Tube Materials

Stainless steel is typically used in the food industry, where the use of stainless steel is often required for reasons of hygiene. Often specific alloys are also required. Can also be used in high temperature applications.

#### Stainless Steel Material

##### Fittings

	Tube, Ø 22 mm, length 6 m, stainless steel	TU 22 StSteel	0.101134
	Bend 90°, Ø 22 mm, stainless steel	BE 22 StSteel	50-0500489-01-01
	T-piece, Ø 22 mm, stainless steel	TP 22 StSteel	50-0500492-01-01
	Socket, Ø 22 mm, stainless steel	SO 22 StSteel	50-0500491-01-01
	Adapter, Ø 22 mm - 3/4", stainless steel	AD 22-25 StSteel	50-0500493-01-01
	End-cap, Ø 22 mm, stainless steel	EC 22 StSteel	50-0500490-01-01

#### Adapter-socket



##### AD 25-Inch ABS

**3220379**

Adapter-socket for the junction of tubes TU 25 ABS and TU 22 StSteel. To use together with adapter AD 22-25 StSteel.

Dimensions (Ø):	25 mm – ¾"
Material:	Stainless steel

## 7.6. Sampling Points

### Sampling hole clip



<b>CLIP 2.0 PA</b>	Hole diameter: 2.0 mm	<b>50-0500463-01-01</b>
<b>CLIP 2.5 PA</b>	Hole diameter: 2.5 mm	<b>50-0500464-01-01</b>
<b>CLIP 3.0 PA</b>	Hole diameter: 3.0 mm	<b>50-0500465-01-01</b>
<b>CLIP 3.5 PA</b>	Hole diameter: 3.5 mm	<b>50-0500466-01-01</b>
<b>CLIP 4.0 PA</b>	Hole diameter: 4.0 mm	<b>50-0500467-01-01</b>
<b>CLIP 4.5 PA</b>	Hole diameter: 4.5 mm	<b>50-0500468-01-01</b>
<b>CLIP 5.0 PA</b>	Hole diameter: 5.0 mm	<b>50-0500469-01-01</b>
<b>CLIP 5.5 PA</b>	Hole diameter: 5.5 mm	<b>50-0500470-01-01</b>
<b>CLIP 6.0 PA</b>	Hole diameter: 6.0 mm	<b>50-0500471-01-01</b>
<b>CLIP 6.5 PA</b>	Hole diameter: 6.5 mm	<b>50-0500472-01-01</b>
<b>CLIP 7.0 PA</b>	Hole diameter: 7.0 mm	<b>50-0500473-01-01</b>

Sampling hole on aspirating pipe (clip).  
Available with different diameter according to the project data.

Only for PVC and ABS pipes with 25 mm diameter.  
delivery unit: 10 pieces

### Maintenance clip



**Clip-REV PA** **50-0500474-01-01**

Clip without hole for revision purpose.  
delivery unit: 10 pieces

Dimensions (Ø):	25 mm
Material:	PA

### Sampling-funnel



**SF ABS** Hole diameter: 5.0 mm **50-0500421-01-01**

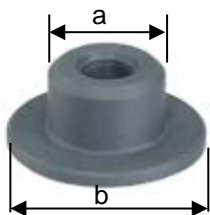
Sampling-funnel for tubes TU 25XXX. For sampling points exposed to high air current like monitoring of server racks or air conditioners.

- For pipes with a max. Ø of 25mm

Material:	ABS
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## Tubes and Fittings for Sampling Pipe

### Rosette for sampling tube stiff



#### SP 36 ABS

50-0500450-01-01

For tubes TU 25 ABS to create the sampling point type "sampling tube stiff with rosette".

Has to be glued into the tubes TU 25 ABS.

- Various outer Ø (b) on demand available.  
delivery unit: 10 pieces

Dimensions (Ø):	a: 21.5 mm
	b: 35 mm
Material:	ABS

### Sampling point for ceiling duct



#### SP M20 ABS

50-0500081-01-01

Sampling point for ceiling ducts to connect flex sampling pipe (FT 21 PA.). To connect the flex sampling pipe FT 21 PA. Inclusive self sealing coupling SC 20ST PA.

- Installation depth: 35 mm

Dimensions (Ø):	M20 / 36 mm
Material:	ABS

### Sampling point for ceiling duct (Set)



#### SP M20 ABS-Set

50-0500480-01-01

Sampling point for ceiling ducts. Complete set incl. T-Piece TP 25XXX, flex sampling pipe (FT 21 PA) and sampling point (SP M20 XXX).

- Length sampling stub: 1.5 m

Material:	ABS
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## Tubes and Fittings for Sampling Pipe

### Sampling point with heating



<b>HEAT 3.0 ABS</b>	red	<b>50-0500451-02-01</b>
<b>HEAT 3.5 ABS</b>	blue	<b>50-0500452-02-01</b>
<b>HEAT 4.0 ABS</b>	green	<b>50-0500453-02-01</b>
<b>HEAT 4.5 ABS</b>	black	<b>50-0500454-02-01</b>
<b>HEAT 5.0 ABS</b>	brown	<b>50-0500455-02-01</b>

To install the aspirating pipe in deep-freeze rooms to prevent the freezing of the aspirating holes. HEAT X.X is the relevant diameter for ASD PipeFlow-calculations (3.0/3.5/4.0/4.5/5.0mm)

Dimensions (Ø): 25 mm

Hole Diameter	
5,7 mm	HEAT 3.0 ABS
6,1 mm	HEAT 3.5 ABS
6,3 mm	HEAT 4.0 ABS
6,7 mm	HEAT 4.5 ABS
7,1 mm	HEAT 5.0 ABS

### Heat Resistor



#### Heat Resistor

**11-2300079-01-01**

Replacement for the sampling point with heating HEAT X.X ABS.

- Resistor: 220 Ω

### Cable connection fitting



#### CCF 25 ABS

**50-0500456-01-01**

Cable connection fitting set for T-junctions of the tubes in deep-freeze rooms.

Dimensions (Ø): 25 mm

### Silicon litz wire



**SLW 0.5 wt** white

**50-0500456-01-01**

**SLW 0.5 bk** black

Silicon litz wire 0.5mm<sup>2</sup> to connect the heating resistors in the heating nozzles HEAT X.X ABS.  
delivery unit: 100 m

## Tubes and Fittings for Sampling Pipe

### Wiring connection unit

VdS



#### WCU 535

11-2300046-01-01

For the introduction of the supply of sampling points with heating into the aspirating tube, with internal clamps.

For more details, please see the guidelines for deep freeze-warehouses.

- Pipe connection Ø 25 mm

Weight:	317 g
Dimensions (HxWxD):	150 x 107 x 85 mm
Material:	PC
Color:	light grey (RAL 7035)

#### Accessories




Wiring Connection Unit 25, WCU 535 PC	WCU 535 PC	11-2300046-01-01
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## 8. Clamps, Glue and Cleaner

### Mounting Material

#### Clamp

	Pipe clamp, Ø 25 mm, PVC delivery unit : 100 pcs	PC 25 PVC	11-2300083-01-01
	Pipe clamp d=25mm, ABS red delivery unit : 20 pcs	PC 25 ABSRED	11-2300056-01-01
	Grounding Clamp ASD	GC 25 EX	50-0500215-02-01

### ABS glue, 250ml



#### Glue 250 ABS

– Attention: Danger



11-2300077-01-01

#### Regulation (EC) No. 1272/2008

Glue for ABS material.

#### Hazard statements:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Dangerous goods may cause additional costs on airfreight.

### Cleaner for PVC and ABS, 1000ml



#### Cleaner 1000

– Attention: Danger



11-2300067-01-01

#### Regulation (EC) No. 1272/2008

For cleaning and degreasing piping, sleeves and fittings made of (rigid) PVC, PVC-C and ABS.

**Not suitable for the dilution of PVC, PVC-C and ABS cement.**

#### Hazard statements:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Dangerous goods may cause additional costs on airfreight.

## 9. Accessories

### Detector Box



#### REK 511

199443

For the localization of a fire in a separate room, when a single ASD is monitoring several rooms. To use together with the SSD 515-Xs smoke detector. Has to be installed in every stub, which leads to a single room from the main tube.

Operating voltage:	18 to 28 VDC
Power consumption:	30 mA
Protection class:	IP53
Operating temperature:	-0°C to +50°C
Weight of basic version:	580 g
Dimensions (HxWxD):	186 x 122 x 85 mm
Material:	ABS
Color:	light grey (RAL 7035)

### Scattered light smoke detector for REK 511



**SSD 515-1S** sensitivity 1.2%/m

5000604-0101

**SSD 515-3S** sensitivity 0.3%/m

5000604-0103

The SSD 515-xS (Scattered Light Smoke Detector) is the smoke sensor for the accessory device REK 511 (full addressing) for the Aspirating Smoke Detector of the ASD and RAS product family. The SSD 515-xS operates according to the scattered light principle and is designed so that it optimally meets the specific requirements of smoke detection in association with an Aspirating Smoke Detector. The detector has alarm threshold tracking and is additionally available with various sensitivities. By choosing the appropriate detector sensitivity, application-specific detection properties of the Aspirating Smoke Detector are possible.

Mains voltage / Frequency:	18 to 28 VDC
Power consumption:	29 mA
Operating temperature:	-20°C to +60°C
Weight of basic version:	74 g
Dimensions (ØxH):	80 x 56 mm
Material:	PC

## Dust filter unit

**DFU 911****11-2300030-01-02****DFU 911S**

with protection flap

**11-2300103-01-01**

The DFU 911 dust filter unit can be installed in the sampling pipe tube network for use with an ASD aspirating smoke detector in applications subject to dust or dirt. This significantly extends the service life of the smoke sensors, air flow sensors and fans used in the ASD and results in enhanced resistance to false alarms.

The DFU 911S version has an integrated protection flap to avoid a filter is used without cartridge and to protect the ASD during cartridge exchange .

Operating temperature:	0°C to +60°C
Weight of basic version:	490 g
Dimensions (HxWxD):	210 x 111 x 137 mm
Material:	ABS blend, UL 94-V0

Accessories		
Replacement cartridge for DFU 911 and DFU911S	RFC 911	11-2300031-01-01
Replacement cartridge for DFU 911 and DFU911S delivery unit: 20 pcs	RFC 911 VE20	11-2300031-02-01

**Assembly hint:**

Not suitable for deep freeze, outdoor and areas with high humidity.

## Filter box small

**FBS 25 PC****50-0500143-01-02**

Filter box small including filter-mat. Inserted into the sampling pipe before ASD.

- Pipe connection Ø:25 mm

Operating temperature:	-30°C to +60°C
Dimensions (HxWxD):	80 x 82 x 85 mm
Material:	PC
Color:	light grey (RAL 7035)

Accessories		
Filter mat small for filter box small delivery unit: 5 pcs	FBS 25 EFM	50-0500112-02-01






**Assembly hint:**

Special filter for deep freeze application.

## Accessories

### Filter Box Spare parts

#### Filter mat

	Filter mat large for filter box large FBL 25 PC delivery unit: 5 pcs.	FBL 25 EFM	50-0500410-02-01
	Filter mat for filter box extra large FBX 25 PC	Filter-Mat X	50-0500530-01-01
	Holder for Filter-Mat X	Holder Filter-Mat X	50-0500185-01-01
	Replacement cartridge for DFU 535L	DFU 535L RC	11-2300069-01-01
	Replacement cartridge for DFU 535XL	DFU 535XL RC	11-2300070-01-01

### Magnetic filter system



#### MFS 25

**11-2300104-01-01**



To supplement the dust filter unit with the range of metal-containing dusts.

- Extends the service life of the smoke sensors used in the aspirating smoke detector
- Prevents false alarms caused by dust containing metal
- Includes two 5/4-inch reductions to 40 mm and two reductions
- 40 mm by 25 mm (PVC)

Operating temperature:	-30°C to +60°C
Dimensions (HxWxD):	315 x 125 x 100 mm
Material:	PC
Color:	light grey (RAL 7016)

## Dirt trap box

**DTB 25 PC****50-0500198-01-01**

Dirt trap box

To be used in very dusty rooms. Inserted into the sampling pipe before dust filter of any type and ASD.

- Pipe connection Ø:25 mm

Operating temperature:	0°C to +60°C
Dimensions (HxWxD):	160 x 250 x 90 mm
Material:	PC
Color:	light grey (RAL 7035)

## Water retaining box

**WRB 25 ABS****50-0500057-01-02**

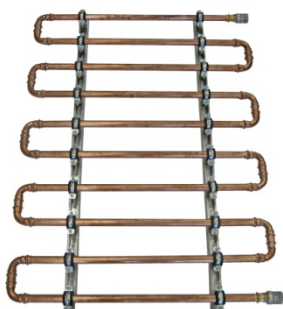
Water retaining box standard

Used in rooms with high humidity. Inserted into the sampling pipe before DTB 25 PC (when used), any types of dust filters (when used) and ASD.

- Pipe connection Ø:25 mm

Operating temperature:	0°C to +60°C
Dimensions (HxWxD):	160 x 250 x 90 mm
Material:	PC
Color:	light grey (RAL 7035)

## Air cooler and water separator

**LK 35 - ABS****50-0500123-01-01**

Is used as an air cooler when the sampling pipe is in a room >60°C. Can also be used as a water separator in rooms with high amount of air humidity and / or condensing water because of temperature differences. For more details see the technical documentation.

Operating temperature:	0°C to +60 °C
Weight of basic version:	8000 g
Dimensions (HxWxD):	1000 x 730 x 80mm
Material:	Copper pipe d=22x1 mm

## Automatic blow out device



ADB 500



ADB 1000/2000

<b>ADB 500</b>	1 sampling pipe	<b>50-0500571-01-01</b>
<b>ADB 1000</b>	1 sampling pipe	<b>50-0500520-01-01</b>
<b>ADB 2000</b>	2 sampling pipes	<b>50-0500523-01-01</b>

The automatic blow-out devices are used in areas which are polluted with a high amount of dust- and dirt particles. With the blow-out device, 1 sampling pipe is automatically blown out and cleaned, to prevent fault messages caused by clogged aspiration points and also to avoid false alarms. At the same time, the life-time of the „optical scattered-light-detector“ located in the aspiration system is substantially increased.

- 4 bar constant air pressure
- Pipe connection Ø:25 mm

ADB 500:

- 1 channel version without certifications

ADB 1000:

- 1 channel version with VdS certification

ADB 2000:

- 2 channel version with VdS certification

Mains voltage / Frequency:	15 to 30 VDC
Power consumption:	55 mA
Protection class:	
ADB 500	IP65
ADB 1000/2000	IP54
Operating temperature:	0°C to +50°C
Weight of basic version:	
ADB 500	2800 g
ADB 1000/2000	8400 g
Dimensions (HxWxD):	
ADB 500	235 x 205 x 90 mm
ADB 1000	465 x 230 x 190 mm
ADB 2000	580 x 280 x 240 mm

## Main Indication &amp; Control Panel

**MV 25 ABS****11-2300080-01-01**

Manual ball valve for revision and cleaning works with compressed air.

- Pipe connection Ø:25 mm

Operating temperature:	-40°C to +60°C
Dimensions (HxWxD):	100 x 145 x 90 mm
Material:	ABS
Color:	silver grey (RAL 7001)

## Detonation flame arrester

**DFA 25-3**

category IIC

**50-0500139-01-01****DFA 25-2**

category IIB

**50-0500084-01-02****DFA 25-1**

category IIA

**50-0500085-01-02**

Detonation flame arrester for explosion zones. 2 pieces are needed per sampling tube.

For more details see the technical documentation.

- Pipe connection Ø:25 mm

**Approvals**

Ex Approval:	BAM 01 ATEX 0007 X
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## Noise reduction housing

**Insulation housing****50-0500073-01-02**

The noise insulation housing is used as an accessory part for the aspirating smoke detector ASD 535 in areas where a low level of noise is required. If the ventilator noise from the aspirating smoke detector is found to be disruptive and changing the location of the evaluation unit is not possible, the aspirating smoke detector can be integrated into a noise insulation housing.

- Sound pressure level: 20 dB (A)

Protection class:	IP54
Weight of basic version:	21,5 Kg
Dimensions (HxWxD):	500 x 500 x 300 mm
Material:	Steel sheet
Color:	light grey (RAL 7035)

### Additional housing for SecuriRAS ASD 535



#### ASD Housing Ex

50-1200001-01-01

The additional housing is designed for the integration of an aspirating smoke detector ASD 535. The additional housing should be used as additional personal protection in explosive areas. If there is danger of operations related damage (e.g. lift truck operations) to the aspirating smoke detector, the additional housing can serve as a mechanical protection measure.

Protection class:	IP54
Weight of basic version:	21 Kg
Dimensions (HxWxD):	mm
Material:	Steel sheet

#### Assembly hint:

The ASD Ex Housing must be placed outside of the Ex-Zone.



## 10. Test and Maintenance Tools

### Cleaning Kit SecuriRAS ASD



#### Cleaning Kit

50-0500062-01-02

#### Transport case for Cleaning Kit

50-0500095-01-01

The cleaning kit is generally used for service and maintenance work on aspirating smoke detectors. It is used for cleaning suction pipes that can be blown out and aspirated at high power. Adaptation to the respective suction pipes is possible with the supplied accessory materials.

Compressed air capacity:

- Air volume" approx. 1500 l/min
- Operating pressure approx 230 mbar

Mains voltage / Frequency:	230 VAC
Power consumption:	1100 W
Weight:	3400 g

## Electronic Smoke Detector



### Solo 365

11-2300039-01-01

For easy, efficient testing of aspirating smoke detectors and regular smoke detectors.

- No residues in the smoke detector due to the application
- Good test reproducibility due to defined smoke quantity and density
- Easy replacement of smoke cartridges
- Easy replacement of battery and smoke generator
- Display of operating status and condition of battery, smoke cartridge and smoke generator
- Interchangeable with UTP Test pole → UTP SOL Adapter
- Tester Kit containing: (1 piece of each)
- Smoke Cartridge Solo ES3
- Battery Pack Solo 370
- Charger
- Smoke Generator Solo 371
- Manual (en)

Protection class:	IP54
Weight of basic unit:	860 g
Dimensions (HxWxD):	500 x 500 x 300 mm
Material:	Steel sheet
Color:	light grey (RAL 7035)

#### Assembly hint:

The Solo 372 adapter for ASD and the Solo 611 storage bag must be ordered separately

## Electronic Smoke Detector Accessories

### Solo Accessories

	Adapter for ASD testing.	Solo 372	11-2300041-01-01
	Protective Carrying / Storage Bag for Solo 365	Solo 611	11-2300037-01-01
	Smoke Cartridge for Solo 365 delivery unit : 12 pcs	ES3 VE12	11-2300038-01-01
	Lithium Ion Battery Pack for Solo 365	Solo 370	11-2300042-01-01
	Smoke Generator for Solo 365	Solo 371	11-2300040-01-01
	Adapter UTP-Testpole to Testfire head	UTP SOL	3330256

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