



SecuriSmoke ASD

Product Catalogue 2026

# Content

|           |                                                                 |           |
|-----------|-----------------------------------------------------------------|-----------|
| <b>1.</b> | <b>Introduction.....</b>                                        | <b>4</b>  |
| <b>2.</b> | <b>System Comparison Chart ASD 2000 series .....</b>            | <b>5</b>  |
|           | <b>System Comparison Chart ASD 53x series .....</b>             | <b>6</b>  |
| <b>3.</b> | <b>System Overview .....</b>                                    | <b>7</b>  |
| <b>4.</b> | <b>Overview compatibility .....</b>                             | <b>8</b>  |
| <b>5.</b> | <b>Aspirating Systems ASD 2000 family .....</b>                 | <b>9</b>  |
| 5.1.      | ASD Base Units .....                                            | 9         |
| 5.2.      | Smoke Sensors (SSD) .....                                       | 10        |
| 5.3.      | Accessories .....                                               | 10        |
| 5.4.      | Demo Bag .....                                                  | 11        |
| 5.5.      | Spare parts .....                                               | 11        |
| <b>6.</b> | <b>Aspirating Systems ASD 53x family .....</b>                  | <b>12</b> |
| 6.1.      | ASD Base Units .....                                            | 12        |
| 6.2.      | Smoke Sensors (SSD) .....                                       | 17        |
| 6.3.      | Expansion modules .....                                         | 19        |
| 6.4.      | Spare Parts .....                                               | 22        |
| <b>7.</b> | <b>Dongle license and ASD PipeFlow for ASD 53x Series .....</b> | <b>24</b> |
| <b>8.</b> | <b>ASD Networking and Visualization .....</b>                   | <b>25</b> |
| 8.1.      | FidesNet .....                                                  | 25        |
| 8.2.      | Netsoft .....                                                   | 26        |
| 8.3.      | Multichannel ASD .....                                          | 27        |
| <b>9.</b> | <b>Tubes and Fittings for Sampling Pipe .....</b>               | <b>29</b> |
| 9.1.      | ABS Tubes and Fittings .....                                    | 29        |
| 9.2.      | Capillaries .....                                               | 31        |
| 9.3.      | Flex Pipe Materials .....                                       | 32        |
| 9.4.      | Concrete Inserts .....                                          | 33        |
| 9.5.      | Stainless Steel Tube Materials .....                            | 34        |
| 9.6.      | Sampling Points .....                                           | 35        |

|            |                                           |           |
|------------|-------------------------------------------|-----------|
| <b>10.</b> | <b>Clamps, Glue and Cleaner .....</b>     | <b>39</b> |
| <b>11.</b> | <b>Accessories .....</b>                  | <b>40</b> |
| <b>12.</b> | <b>InfraSensing – Gas detection .....</b> | <b>48</b> |
| <b>13.</b> | <b>Power Supply .....</b>                 | <b>50</b> |
| <b>14.</b> | <b>Test and Maintenance Tools .....</b>   | <b>52</b> |
| <b>15.</b> | <b>Product Type Index .....</b>           | <b>53</b> |

### 1. Introduction



#### **SecuriSmoke ASD 2000 product range: The start of a new era of fire protection**

SecuriSmoke ASD 2000 is founded on more than 50 years of experience and expertise in early fire detection using aspirating smoke detectors. The new product range is equipped with numerous innovative features and functions and sets new technological standards.

The SecuriSmoke ASD 2000 product range impresses with its simple and efficient work steps – virtually tool-free – ranging from planning, installation and commissioning to document maintenance. Supported by the latest software tools, operation is simple and intuitive even for occasional users. A device with four sampling channels covers many country-specific guidelines and project-specific requirements in the best possible way. Separate airflow monitoring enables precise localisation and identification of deviations per channel



#### **SecuriSmoke ASD 53x product range: Our tried-and-tested ASD models - as reliable as ever**

Aspirating smoke detectors from Securiton are among the most precise and reliable early warning systems against fire in existence. The SecuriSmoke ASD detector series impresses by virtue of its unrivalled capabilities. Developed in Switzerland and manufactured in Germany, the detectors are particularly reliable and robust. Their sophisticated detection technology means 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. SecuriSmoke ASD detectors are available in four models, with the main difference between them being the scale of 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.

## 2. System Comparison Chart ASD 2000 series

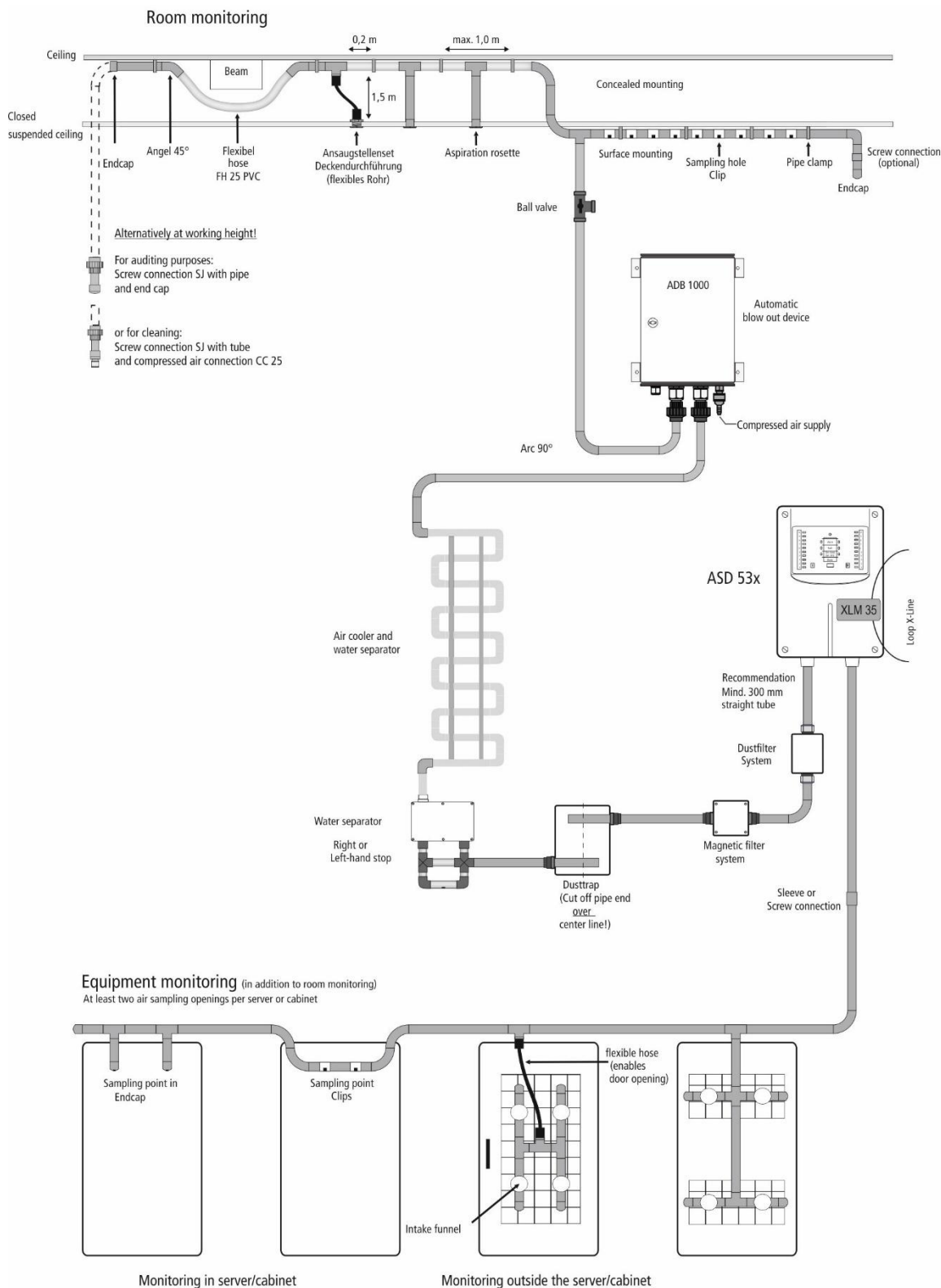
|                                              | ASD 2004                                                                                                                       | ASD 2002            | ASD 2001            |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|
| Channels                                     | 4                                                                                                                              | 2                   | 1                   |
| Smoke sensor                                 | 2                                                                                                                              | 2                   | 1                   |
| Smoke sensor technology                      | High-sensitivity smoke sensor with 0.001 – 30 %obs/m sensitivity<br>High-power LED, internal CF Filter and digital lint filter |                     |                     |
| Monitoring area                              | 5760 m <sup>2</sup>                                                                                                            | 5760 m <sup>2</sup> | 3000 m <sup>2</sup> |
| Pipe length<br>-aggregated<br>-furthest hole | 700 m<br>4x 90 m                                                                                                               | 700 m<br>2x 115 m   | 400 m<br>150 m      |
| Max number of holes                          |                                                                                                                                |                     |                     |
| Class A                                      | 62                                                                                                                             | 62                  | 31                  |
| Class B                                      | 160                                                                                                                            | 160                 | 80                  |
| Class C                                      | 240                                                                                                                            | 240                 | 120                 |
| Integration in SecuriFire fire system        | BX-OI3                                                                                                                         | BX-O2I4             | BX-O2I4             |
| Interfaces                                   | BLE, Relays, Inputs                                                                                                            |                     |                     |
| Optional modules                             | In preparation                                                                                                                 |                     |                     |
| Smoke level indicator                        | Yes                                                                                                                            | Yes                 | Yes                 |
| Configuration/Maintenance/Intervention       | SecuriSmoke Mobile control via Bluetooth (BLE)                                                                                 |                     |                     |
| Calculation of sampling pipes                | ASD PipeFlow 3D                                                                                                                |                     |                     |

## System Comparison Chart ASD 53x series

### System Comparison Chart ASD 53x series

|                                                        | ASD 535                                                                                             | ASD 533                                     | ASD 532                             | ASD 531                      |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------|------------------------------|
| Channels                                               | 1/2                                                                                                 | 1/2                                         | 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> / 3840 m <sup>2</sup>   | 1280 m <sup>2</sup>                 | 720 m <sup>2</sup>           |
| Pipe length                                            | 2 x 300m                                                                                            | 2 x 200m                                    | 120m                                | 75m                          |
| Max number of holes                                    |                                                                                                     |                                             |                                     |                              |
| Class A                                                | 2 x 18                                                                                              | 2 x 16                                      | 8                                   | 6                            |
| Class B                                                | 2 x 56                                                                                              | 2 x 50                                      | 12                                  | 8                            |
| Class C                                                | 2x 120                                                                                              | 2 x 50                                      | 16                                  | 12                           |
| Direct integration in SecuriFire fire detection system | Yes, with XLM-35 module<br>(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:<br>RIM35, SIM35, XLM35, MCM35                                                          | 4 slots for:<br>RIM35, SIM 35, XLM35, MCM35 | 2 slots for:<br>RIM36, SIM35, XLM35 | 2 slots for:<br>RIM36, XLM35 |
| Smoke level indicator                                  | Optional<br>(version -3 and -4)                                                                     | No                                          | Yes                                 | 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



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 533 / 535                                           | ASD 2000                                            |
|-------------------------------------------------|-------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------|
| Configuration:                                  | BasiConfig<br>(on board)            | EasyConfig<br>(on board)<br>or<br>ASD Config (Software) | EasyConfig<br>(on board)<br>or<br>ASD Config (Software) | SecuriSmoke Mobile Config<br>via<br>Bluetooth (BLE) |
| Filter                                          |                                     |                                                         |                                                         |                                                     |
| DFU 911                                         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                     | <input checked="" type="checkbox"/>                     | <input checked="" type="checkbox"/>                 |
| Capillary tube                                  |                                     |                                                         |                                                         |                                                     |
| Capillary tube<br>10mm                          | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                     | <input checked="" type="checkbox"/>                     | <input checked="" type="checkbox"/>                 |
| Heating material for deep freeze applications   |                                     |                                                         |                                                         |                                                     |
| Heated sampling<br>points                       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                     | <input checked="" type="checkbox"/><br>only ASD 535     | In preparation                                      |
| Detonation flame arrester for ATEX applications |                                     |                                                         |                                                         |                                                     |
| DFA 22-1                                        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                     | <input checked="" type="checkbox"/><br>only ASD 535     | In preparation                                      |
| DFA 22-2                                        |                                     |                                                         |                                                         |                                                     |
| DFA 22-3                                        |                                     |                                                         |                                                         |                                                     |
| Automatic blow out device                       |                                     |                                                         |                                                         |                                                     |
| ADB 500                                         | <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"/>                 |
| Add-On modules                                  |                                     |                                                         |                                                         |                                                     |
| RIM 35                                          | <input checked="" type="checkbox"/> | <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"/>                     | <input checked="" type="checkbox"/>                 |
| RIM 1000                                        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                     | <input checked="" type="checkbox"/>                     | In preparation                                      |
| XLM 35                                          | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                     | <input checked="" type="checkbox"/>                     | In preparation                                      |
| MCM 35                                          | <input checked="" type="checkbox"/> | <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"/>                     | <input checked="" type="checkbox"/>                 |
| SIM 1000                                        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                     | <input checked="" type="checkbox"/>                     | In preparation                                      |

## 5. Aspirating Systems ASD 2000 family

### 5.1. ASD Base Units

#### Aspirating Smoke Detector



ASD 2001



ASD 2002



ASD 2004

|                 |                                       |                         |
|-----------------|---------------------------------------|-------------------------|
| <b>ASD 2001</b> | <b>1 Sampling pipe / 1 Detector</b>   | <b>11-2100003-01-01</b> |
| <b>ASD 2002</b> | <b>2 Sampling pipes / 2 Detectors</b> | <b>11-2100004-01-01</b> |
| <b>ASD 2004</b> | <b>4 Sampling pipes / 2 Detectors</b> | <b>11-2100005-01-01</b> |

Even under the most challenging and demanding ambient conditions, the new SecuriSmoke ASD 2000 generation guarantees the most reliable and efficient early fire detection. The ASD 2000 can be equipped with 1 or 2 SSD 1030 smoke sensors and allows up to 4 aspirating channels.

The 3D planning tool SecuriSmoke PipeFlow 3D makes planning ASD projects easier thanks to simple import of floor plans as a basis for the project as well as the ability to view them in all dimensions and levels of detail.

The SecuriSmoke MobileConfig app has been designed to be extremely intuitive and user-friendly. Simple and automated data import and export further increase efficiency and minimise the error rate.

|                        |                                              |
|------------------------|----------------------------------------------|
| Mains voltage:         | 14 to 30 VDC                                 |
| Power consumption:     | 2001: 425mA<br>2002: 468mA<br>2004: 490mA    |
| Protection class:      | IP54                                         |
| Operating temperature: | -20°C to +60°C                               |
| Weight with SSD:       | 2001: 3415 g<br>2002: 3981 g<br>2004: 4120 g |
| Dimensions (HxWxD):    | 431 x 265 x 148.8 mm                         |
| Material:              | PC-ABS, UL 94-V0                             |
| Color:                 | anthracite (NCS S8005 R80B)                  |

#### Approvals

|                                   |               |
|-----------------------------------|---------------|
| VdS-Approval:                     | G 225014      |
| UL-Approval:                      | pending       |
| FM-Approval:                      | pending       |
| Declaration of Performance (DoP): | CPR-11-25-114 |

## 5.2. Smoke Sensors (SSD)

### Smoke Sensor for ASD 2000



#### SSD 1030

Alarm Sensitivity range  
0,01% – 30% /m

11-2100022-01-01

The smoke sensor SSD 1030 must be ordered separately for the ASD 2000 family.

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

- Sensitivity range alarm: 0.01 %/m – 30 %/m
- Sensitivity range pre-signals: 0.001 %/m – 27 %/m

|                     |                 |
|---------------------|-----------------|
| Weight:             | 388 g           |
| Dimensions (HxWxD): | 200 x 130 x 110 |

## 5.3. Accessories

### Universal Modulholder UMS 1000



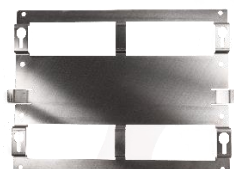
#### UMS 1000

11-4000019-01-01

Universal module support for the mounting of additional modules

|                     |               |
|---------------------|---------------|
| Weight:             | 67 g          |
| Dimensions (HxWxD): | 130 x 93 x 30 |

### Mounting plate MOP 200x



#### MOP 200x

11-4000020-01-01

The mounting plate can be pre mounted to the wall and allows a fast and easy click mount of the ASD 2000 device.

|                     |                |
|---------------------|----------------|
| Weight:             | 242 g          |
| Dimensions (HxWxD): | 248 x 190 x 10 |

## 5.4. Demo Bag

### Demo Bag for ASD 2000 family



#### ASD 200x DBU

**11-0000044-01-01**

Demo Bag for demonstration of the ASD 2000 family.

The Bag contains:

Foam form to protect the ASD 2000 device  
Power supply with connecting cable  
Pipe parts

The ASD 2000 device and the SSD 1030 sensors must be ordered separately.



|                     |                 |
|---------------------|-----------------|
| Weight:             | 1630 g          |
| Dimensions (HxWxD): | 500 x 150 x 300 |

## 5.5. Spare parts

### ASD Spare Parts

#### Main boards

|  |                                                     |             |                  |
|--|-----------------------------------------------------|-------------|------------------|
|  | Main board for ASD 2001/2002/2004                   | AMB 100     | 11-2200033-01-01 |
|  | ASD Extension Board AEB 100                         | AEB 100     | 11-2200034-01-01 |
|  | Basic Control Board BCB 100<br>Repair exchange only | BCB 100     | 11-2200035-01-01 |
|  | Airflow Sensor AFS 100<br>Repair exchange only      | AFS 100     | 11-2200040-01-01 |
|  | Replacement cable set RC ASD 2001                   | RC ASD 2001 | 11-0000029-01-01 |
|  | Replacement cable set RC ASD 2002                   | RC ASD 2002 | 11-0000030-01-01 |
|  | Replacement cable set RC ASD 2004                   | RC ASD 2004 | 11-0000031-01-01 |
|  | Replacement cable RC AMB-BCB                        | RC AMB-BCB  | 11-0000032-01-01 |
|  | Insect protection screen IPS 100                    | IPS 100     | 11-0000035-01-01 |
|  | Blank insert IPS-O 100                              | IPS-O 100   | 11-0000036-01-01 |
|  | Replacement cover hinge RCH 100                     | RCH 100     | 11-0000037-01-01 |
|  | Replacement cover screw CLS 100                     | CLS 100     | 11-0000038-01-01 |

## 6. Aspirating Systems ASD 53x family

### 6.1. ASD Base Units

#### Aspirating Smoke Detector



#### ASD 531

including SSD 31

11-2000002-01-04

The SecuriSmoke 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 are 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)<br>anthracite (RAL 300 20 05) |

#### Approvals

|                                   |               |
|-----------------------------------|---------------|
| VdS-Approval:                     | G 215100      |
| UL-Approval:                      | S 25264       |
| FM-Approval:                      | 3045947       |
| Declaration of Performance (DoP): | CPR-10-16-106 |

## Aspirating Smoke Detector

**ASD 532****11-2000003-01-04**

The SecuriSmoke 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 are 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)<br>anthracite (RAL 300 20 05) |

**Approvals**

|                                   |               |
|-----------------------------------|---------------|
| VdS-Approval:                     | G 215101      |
| UL-Approval:                      | S 25264       |
| FM-Approval:                      | 3045947       |
| Declaration of Performance (DoP): | CPR-10-16-107 |

## Aspirating Systems ASD 53x family

### Aspirating Smoke Detector



ASD 533-1



ASD 533-2

**ASD 533-1**

**1 Sampling pipe / including  
SSD 533**

**11-2000001-01-04**

**ASD 533-2**

**2 Sampling pipes /  
including SSD 533**

**11-2000059-01-01**

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):      | 397 x 265 x 148 mm                                 |
| Material:                | ABS-Blend, UL 94-V0                                |
| Color:                   | grey (RAL 280 70 05)<br>anthracite (RAL 300 20 05) |

#### Approvals

|                                   |               |
|-----------------------------------|---------------|
| VdS-Approval:                     | G 212163      |
| UL-Approval:                      | S 25264       |
| FM-Approval:                      | 3045947       |
| Declaration of Performance (DoP): | CPR-11-13-100 |

## Aspirating Smoke Detector



ASD 535-3



ASD 535-4

### ASD 535-3

1 Sampling pipe / Detector,  
1 Smoke level display

11-2000017-01-02

### ASD 535-4

2 Sampling pipes / Detectors,  
2 Smoke level displays

11-2000018-01-02

The SecuriSmoke 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. The housing provides the option for four expansion modules.

Commissioning and configuration are done 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)<br>anthracite (RAL 300 20 05) |

### Approvals

|                                   |               |
|-----------------------------------|---------------|
| VdS-Approval:                     | G 208154      |
| UL-Approval:                      | S 25264       |
| FM-Approval:                      | 3045947       |
| Declaration of Performance (DoP): | CPR-10-16-101 |

## Aspirating Systems ASD 53x family

### Aspirating Smoke Detector Heavy Duty



ASD 535-3HD



ASD 535-4HD

#### ASD 535-3HD

1 Sampling pipe / Detector

11-2000036-01-02

#### ASD 535-4HD

2 Sampling pipes / Detectors

11-2000037-01-02

The SecuriSmoke 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 are done 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)<br>anthracite (RAL 300 20 05) |

#### Approvals

|                                   |               |
|-----------------------------------|---------------|
| VdS-Approval:                     | G 208154      |
| UL-Approval:                      | S 7197        |
| FM-Approval:                      | 3056227       |
| Declaration of Performance (DoP): | CPR-11-20-111 |

#### Accessories

|                                          |            |                  |
|------------------------------------------|------------|------------------|
| Overvoltage protection<br>OPB 911 coated | OPB 911 CP | 11-2200038-01-01 |
|------------------------------------------|------------|------------------|

## 6.2. Smoke Sensors (SSD)

### Smoke Sensor for ASD 531



#### SSD 31

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

11-2200009-01-03

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

11-2000004-03-03

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

11-2200006-01-03

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

**11-2000010-01-02**

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

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): | 127 x 120 x 95 mm |
|---------------------|-------------------|

#### Accessories

|                                                |                    |                  |
|------------------------------------------------|--------------------|------------------|
| Fastener plate to cover a smoke sensor chamber | ASD 535<br>Verschl | 11-2300009-01-01 |
|------------------------------------------------|--------------------|------------------|



### SSD 535-3 CP

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

**11-2000013-01-02**

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

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

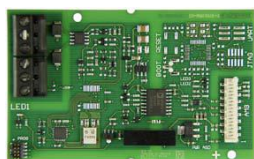
- Sensitivity range alarm: 0.02 %/m – 10 %/m
- Sensitivity range pre-signals: 0.002 %/m – 9 %/m
- All the electronic parts are coated.

|                    |       |
|--------------------|-------|
| Operating voltage: | 5 VDC |
|--------------------|-------|

|                     |                   |
|---------------------|-------------------|
| Dimensions (HxWxD): | 127 x 120 x 95 mm |
|---------------------|-------------------|

## 6.3. Expansion modules

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



#### XLM 35

SecuriLine eXtended

11-2200003-01-03

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 is coated and allows also central configuration of special fire detectors with the Config Over Line function.

The module comes with mounting brackets, screws and ribbon cable.

|                     |                 |
|---------------------|-----------------|
| Power consumption:  | 20 mA           |
| 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

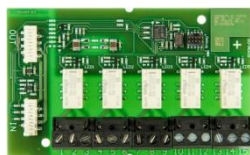
11-2200031-01-01

The RIM 35 module is coated and 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.

|                     |                 |
|---------------------|-----------------|
| Power consumption:  | 15 mA           |
| Weight:             | 85 g            |
| Dimensions (HxWxD): | 58 x 97 x 17 mm |

## Aspirating Systems ASD 53x family

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



#### RIM 36

5 relays with changeover contacts

11-2200005-01-03

The RIM 36 module is coated and brings five (5) additional relay outputs to your Special Fire Detector (except ASD 535). Expansion limit is two (2) RIM36 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.

|                     |                 |
|---------------------|-----------------|
| Power consumption:  | 15 mA           |
| Weight:             | 85 g            |
| Dimensions (HxWxD): | 58 x 97 x 17 mm |

### Memory card module for ASD 535



#### MCM 35

11-2200057-01-01

The Memory Card Module lets you trace up to 16'000'000 events and logs the measurement data of 80 days. This capability is fixed (SD cards larger than 2GB will not expand it). The board comes with mounting brackets, screws and ribbon cables, with SD card.

|                     |                 |
|---------------------|-----------------|
| Power consumption:  | 25 mA           |
| Weight:             | 43 g            |
| Dimensions (HxWxD): | 58 x 99 x 17 mm |

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



#### SIM 35

11-2200000-01-04

The SIM 35 module is coated and is for the RS 485 networking of up to 250 Special Fire Detectors like ASD 535, ASD 533 or ASD 532.

The module comes with mounting brackets, screws and ribbon cables.

|                     |                 |
|---------------------|-----------------|
| Power consumption:  | 20 mA           |
| Weight:             | 56 g            |
| Dimensions (HxWxD): | 58 x 95 x 17 mm |

## Serial Master Module for networking of Special Fire Detectors



### SMM 535

11-2200001-01-02

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

11-2200061-01-01

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

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

## Aspirating Systems ASD 53x family

### 6.4. Spare Parts

| ASD Spare Parts                                                                     |                                                                                                            |             |                  |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------|------------------|
| Main boards                                                                         |                                                                                                            |             |                  |
|    | Main board for ASD 535-1 and -3<br>Repair exchange only                                                    | AMB 35-1    | 11-2200016-01-02 |
|    | Main board for ASD 535-2 and -4<br>Repair exchange only                                                    | AMB 35-2    | 11-2200017-01-02 |
|    | Main board for ASD 535-3 HD coated<br>Repair exchange only                                                 | AMB 35-1 CP | 11-2200021-01-02 |
|    | Main board for ASD 535-4 HD coated<br>Repair exchange only                                                 | AMB 35-2 CP | 11-2200022-01-02 |
|    | Main board for ASD 533-1<br>Repair exchange only                                                           | AMB 33-1    | 11-2200004-01-04 |
|    | Main board for ASD 533-2<br>Repair exchange only                                                           | AMB 33-2    | 11-2200065-01-01 |
|    | Main board for ASD 531<br>Repair exchange only                                                             | AMB 31      | 11-2200012-01-04 |
|    | Main board for ASD 532<br>Repair exchange only                                                             | AMB 32      | 11-2200013-01-05 |
| Basic control board                                                                 |                                                                                                            |             |                  |
|  | Basic control board for standard display of ASD 535-1 and -2<br>Repair exchange only                       | BCB 35      | 11-2200053-01-01 |
|  | Basic control board for standard display of ASD 535-1 and -2<br>HD version, coated<br>Repair exchange only | BCB 35 CP   | 11-2200054-01-01 |
|  | Basic control board for advanced display of ASD 535-3 and -4<br>Repair exchange only                       | ACB 35      | 11-2200050-01-01 |
|  | Basic control board for advanced display ASD 535-3 and -4<br>HD version, coated<br>Repair exchange only    | ACB 35 CP   | 11-2200020-01-01 |
| Air flow                                                                            |                                                                                                            |             |                  |
|  | Air flow sensor for ASD 535<br>Repair exchange only                                                        | AFS 35      | 11-2200051-01-01 |
|  | Replacement O-RING for AFS 35<br>delivery unit: 50 pcs                                                     | O-RING      | 11-2300036-01-01 |
|  | Air flow sensor for ASD 531 and ASD 532<br>Repair exchange only                                            | AFS 32      | 11-2200007-01-02 |
| Aspirating fan                                                                      |                                                                                                            |             |                  |
|  | Aspirating fan unit for ASD 535                                                                            | AFU 35      | 11-2200052-01-01 |
|  | 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<br>delivery unit: 4 pcs         | RSL 35         | 11-2200062-01-01 |
|  | Insect protection screen for ASD 531/532/535<br>delivery unit: 2 pcs | IPS 35         | 11-2300012-01-01 |
|  | Insect protection screen for ASD 531/532/535<br>Delivery unit 10 pcs | IPS 36         | 11-2300151-01-01 |
|  | M20 Cable Screw Union<br>delivery unit: 10 pcs                       | M20 VE10       | 11-4000003-01-02 |
|  | M25 Cable Screw Union<br>delivery unit: 10 pcs                       | M25 VE10       | 11-4000004-01-02 |
|  | Pipe Plug for ASD                                                    | PP 25 ABS VE 5 | 11-4000022-01-01 |
|  | SFD Modulholder-Set VE20                                             | SFD MH Set     | 11-4000012-01-01 |

### 7. Dongle license and ASD PipeFlow for ASD 53x Series

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Basic license:</b>       | <b>Limited access</b> for ASD Config software.<br>Available with or without networking* visualization.<br>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.<br>Only available after Securiton training.                                                                                                                                                                                                                                                                                                                                                     |
| <b>Networking license:</b>  | <b>Networking</b> Up to 250 aspirating smoke detectors (ASD 532 / 533/ 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.<br>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.

ASD PipeFlow

Free download from Partnerdata

#### ASD license for Config Software

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

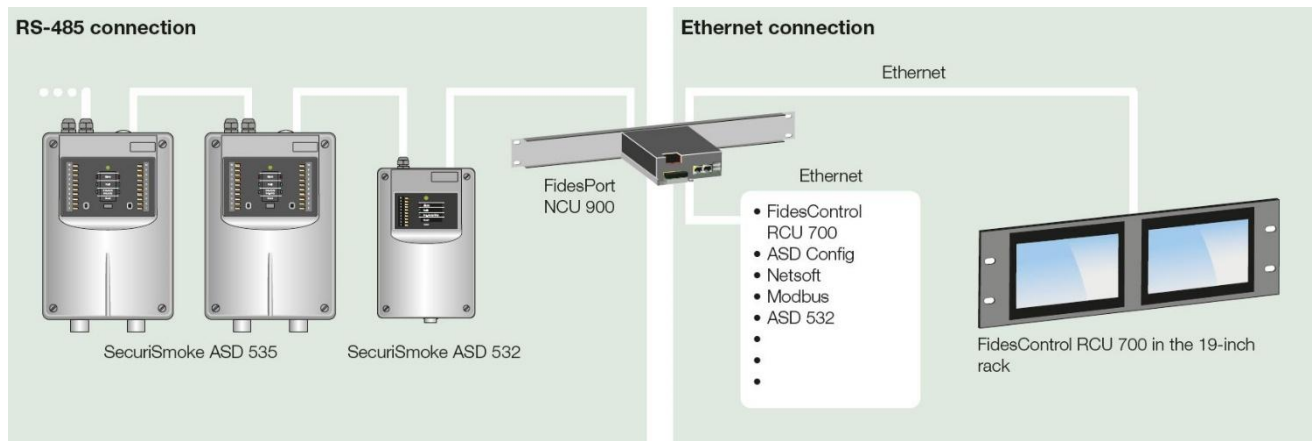
#### Securiton Dongles

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

## 8. ASD Networking and Visualization

### 8.1. FidesNet

FidesNet makes it possible to connect multiple SecuriSmoke aspirating smoke detectors in a network while also enabling decentralized access via one or more FidesControl RCU 700 units. The performance scope includes RS-485 networking plus the visualization 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 over Modbus or SNMP protocol.



#### FidesNet

##### Hardware

|  |                             |          |                  |
|--|-----------------------------|----------|------------------|
|  | Remote Control Unit         | RCU 700  | 11-5000004-01-03 |
|  | Network Communication Unit  | NCU 900  | 11-5000003-01-03 |
|  | 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 |
|  | RCU wall housing RWH        | RWH      | 11-5000010-01-01 |

## ASD Networking and Visualization

### 8.2. 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
- Trending view
- 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.

#### SecuriLink 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 – 160 ASD's | NetSoft 160 | VE100474 |
| Netsoft for 161 - plus     | NetSoft max | VE100475 |

## 8.3. Multichannel ASD

SecuriSmoke ASD is available as 4 and 8-channel versions for connecting large tube networks to the ASD. On request, the multichannel ASDs can also be modularly expanded with a channel identification capability for pinpointing the smoke source. The channel identification information can be fed direct into FidesNet or NetSoft.



### Manifold



#### MF4 25 ABS

11-2300127-01-01

With the Manifold, four to eight intake lines can be routed to one ASD.  
The Manifold is plugged onto the inlet of the ASD housing. Due to the conical shape of the inlet and the precise fit, the self-locking connection is tight. No adhesive is required.

|                          |                                   |
|--------------------------|-----------------------------------|
| Operating temperature:   | -30°C to +60°C                    |
| Weight of basic version: | 250 g                             |
| Dimensions (HxWxD):      | 166 x 105 x 54 mm                 |
| Material:                | PC / ABS                          |
| Color:                   | Anthracite violet (RAL 300 20 05) |

### Detector Box



#### REK 511

11-2300147-01-01

For the channel identification, cabinet monitoring or localization of a fire in a separate room. To use together with the SSD 515-xS smoke detector.

|                          |                       |
|--------------------------|-----------------------|
| Operating voltage:       | 18 to 28 VDC          |
| Power consumption:       | 30 mA                 |
| Protection class:        | IP53                  |
| Operating temperature:   | -0°C to +50°C         |
| Weight of basic version: | 406 g                 |
| Dimensions (HxWxD):      | 195 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 is the smoke sensor for the accessory device REK 511 for the Aspirating Smoke Detector 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. By choosing the appropriate detector sensitivity, application-specific detection properties of the Aspirating Smoke Detector are possible.

|                          |                |
|--------------------------|----------------|
| Mains voltage:           | 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             |

## 9. 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 bendable.

The metal pipes are connected by press fitting.

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

### 9.1. ABS Tubes and Fittings

ABS tubes and fittings with outer diameter of 25 mm. Basic colour is red, other colours and materials on request. The most important mechanical properties of ABS are impact resistance and toughness.

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

All ABS tubes are inscribed: «FIRE ALARM AIR SAMPLING PIPE DO NOT CUT OR PAINT»

#### 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<br>delivery unit: 10 pieces             | BE 25 ABSRED       | 11-2300050-01-01 |
|   | Angle 90° d=25mm, ABS red<br>delivery unit: 10 pieces            | AN 25-90 ABSRED    | 11-2300057-01-01 |
|  | Angle 45° d=25mm, ABS red<br>delivery unit: 10 pieces            | AN 25-45 ABSRED    | 11-2300052-01-01 |
|  | T-piece d=25mm, ABS red<br>delivery unit: 10 pieces              | TP 25 ABSRED       | 11-2300053-01-01 |
|  | Socket d=25mm, ABS red<br>delivery unit: 10 pieces               | SO 25 ABSRED       | 11-2300051-01-01 |
|  | Screw-junction piece d=25mm, ABS red<br>delivery unit: 10 pieces | SJ 25 ABSRED       | 11-2300055-01-01 |
|  | End cap d=25mm, ABS red<br>delivery unit: 10 pieces              | EC 25 ABSRED       | 11-2300054-01-01 |
|  | Flex tube d=25mm, ABS red 30cm                                   | FH 25 ABSRED Set03 | 11-2300121-01-01 |
|  | Flex tube d=25mm, ABS red 1m                                     | FH 25 ABSRED Set1  | 11-2300120-01-01 |

#### Compressed-air connection



#### CC 25 ABS

11-2300065-01-01

Compressed-air connection for tube TU 25 ABS 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 on the width of the duct.

|           |      |
|-----------|------|
| Material: | ABS  |
| Color:    | grey |

#### Assembly hint:

Please consider the planning hints mentioned in the technical documentation.



#### DF 22 ST

50-0500691-01-01

For secure mounting and professional transition of the sampling pipe within ventilation ducts, suitable for stainless steel sampling pipes with a diameter of 22 mm, in conjunction with aspirating smoke detectors for monitoring potentially explosive atmospheres in Zone 1, Zone 2, Zone 21 and Zone 22.

|                          |                   |
|--------------------------|-------------------|
| Weight of basic version: | 500 g             |
| Dimensions (HxWxD):      | 100 x 100 x 70 mm |
| Material:                | ABS               |
| Color:                   | grey              |

### Reduction – 25mm - 3/4"



#### RE 3/4-25 ABS

11-2300135-01-01

Reduction for 25mm tube to be connected to 3/4" tube (TU 25 ABS).

|                |             |
|----------------|-------------|
| Dimension (Ø): | 3/4" / 25mm |
| Material:      | ABS         |
| Color:         | grey        |



#### RE 25-22

50-0500806-01-01

Used for the insertion of the sampling pipe with a diameter of 22 mm.

|                |       |
|----------------|-------|
| Dimension (Ø): | 22mm  |
| Material:      | ABS   |
| Color:         | black |

## 9.2. Capillaries

### Capillares tubes and fittings

#### Tube and fittings

|                                                                                   |                                                                |                     |                  |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------|------------------|
|  | Set contains a T-piece, 2m of tube and a flush sampling head   | CT 10/7 ABS-SPF-Set | 11-2300118-01-01 |
|  | Set contains a T-piece, 2m of tube and a conical sampling head | CT 10/7 ABS-SPC-Set | 11-2300117-01-01 |
|  | Capillary tube 10mm, length 30m                                | CT 10/7 PA 30       | 11-2300119-01-01 |
|  | T-piece to connect capillary tube to ABS pipe system           | TP 25-10 ABSRED     | 11-2300125-01-01 |
|  | Conical capillary head                                         | SPC 10 PA           | 11-2300123-01-01 |
|  | Flush capillary head                                           | SPF 10 PA           | 11-2300124-01-01 |

## Tubes and Fittings for Sampling Pipe

### 9.3. 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

11-2300058-01-01

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

Delivery unit: 10 pieces

|             |       |
|-------------|-------|
| Dimensions: | M20   |
| Material:   | ABS   |
| Color:      | black |

## 9.4. Concrete Inserts

Temperature range for applications with concret innserts: -15°C to +60°C

### Sampling tube



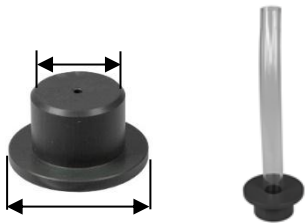
#### FT 32C

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 |
|-----------|-----|

### Concrete sampling points

#### Connection for tube FT 32C



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

SP 32C T

11-2300115-01-01



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

SP 32C L

11-2300114-01-01



T-branch connection TP 32C, Ø 32 mm, set, for concrete insert

TP 32C

11-2300116-01-01

## Tubes and Fittings for Sampling Pipe

### 9.5. 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. Another use case is in high temperature application typically above 60°C, often in combination with the LK 35 air cooler. The temperature is reduced by the LK35 to a temperature acceptable for the ASD.

#### Stainless Steel Material

##### Fittings

|                                                                                   |                                            |                  |                  |
|-----------------------------------------------------------------------------------|--------------------------------------------|------------------|------------------|
|  | Tube, Ø 22 mm, length 6 m, stainless steel | TU 22 St         | 50-0500638-01-01 |
|  | 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 25-3/4 ABS

**11-2300128-01-01**

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 – 3/4" |
| Material:       | ABS          |

## 9.6. Sampling Points

### Sampling hole clip



|                    |                       |                         |
|--------------------|-----------------------|-------------------------|
| <b>CLIP 2.0 PA</b> | Hole diameter: 2.0 mm | <b>50-0500833-01-01</b> |
| <b>CLIP 2.5 PA</b> | Hole diameter: 2.5 mm | <b>50-0500834-01-01</b> |
| <b>CLIP 3.0 PA</b> | Hole diameter: 3.0 mm | <b>50-0500835-01-01</b> |
| <b>CLIP 3.5 PA</b> | Hole diameter: 3.5 mm | <b>50-0500836-01-01</b> |
| <b>CLIP 4.0 PA</b> | Hole diameter: 4.0 mm | <b>50-0500837-01-01</b> |
| <b>CLIP 4.5 PA</b> | Hole diameter: 4.5 mm | <b>50-0500838-01-01</b> |
| <b>CLIP 5.0 PA</b> | Hole diameter: 5.0 mm | <b>50-0500839-01-01</b> |
| <b>CLIP 5.5 PA</b> | Hole diameter: 5.5 mm | <b>50-0500840-01-01</b> |
| <b>CLIP 6.0 PA</b> | Hole diameter: 6.0 mm | <b>50-0500841-01-01</b> |
| <b>CLIP 6.5 PA</b> | Hole diameter: 6.5 mm | <b>50-0500842-01-01</b> |
| <b>CLIP 7.0 PA</b> | Hole diameter: 7.0 mm | <b>50-0500843-01-01</b> |

Sampling hole on aspirating pipe clip.  
Available with different diameters according to the project data.  
Operating temperature: -40°C to +90°C  
Only for pipes with 25 mm diameter.  
Delivery unit: 10 pieces

### Sampling hole clip colour



|                       |                                          |                         |
|-----------------------|------------------------------------------|-------------------------|
| <b>CLIP 2.0 PA ye</b> | Hole diameter: 2.0 mm<br>Yellow RAL 1026 | <b>50-0500845-01-01</b> |
| <b>CLIP 2.5 PA gy</b> | Hole diameter: 2.5 mm<br>Grey RAL 7035   | <b>50-0500846-01-01</b> |
| <b>CLIP 3.0 PA ru</b> | Hole diameter: 3.0 mm<br>Ruby RAL 3003   | <b>50-0500847-01-01</b> |
| <b>CLIP 3.5 PA bl</b> | Hole diameter: 3.5 mm<br>Blue RAL 5012   | <b>50-0500848-01-01</b> |
| <b>CLIP 4.0 PA gn</b> | Hole diameter: 4.0 mm<br>Green RAL 6038  | <b>50-0500849-01-01</b> |
| <b>CLIP 4.5 PA bk</b> | Hole diameter: 4.5 mm<br>Black RAL 9021  | <b>50-0500850-01-01</b> |
| <b>CLIP 5.0 PA bn</b> | Hole diameter: 5.0 mm<br>Brown RAL 8003  | <b>50-0500851-01-01</b> |
| <b>CLIP 5.5 PA wh</b> | Hole diameter: 5.5 mm<br>White RAL 9003  | <b>50-0500852-01-01</b> |
| <b>CLIP 6.0 PA og</b> | Hole diameter: 6.0 mm<br>Orange RAL 2005 | <b>50-0500853-01-01</b> |
| <b>CLIP 6.5 PA mt</b> | Hole diameter: 6.5 mm<br>Mint RAL 6033   | <b>50-0500854-01-01</b> |
| <b>CLIP 7.0 PA pu</b> | Hole diameter: 7.0 mm<br>Purple RAL 4008 | <b>50-0500855-01-01</b> |

Sampling hole on aspirating pipe clip.  
Available with different diameters according to the project data. Operating temperature: -40°C to +90°C  
Only for pipes with 25 mm diameter.  
Delivery unit: 10 pieces

## Tubes and Fittings for Sampling Pipe

### Maintenance clip



#### CLIP REV PA rd

50-0500844-01-01

Clip without hole for revision purpose.  
Delivery unit: 10 pieces  
Operating temperature: -40°C to +90°C

|                 |       |
|-----------------|-------|
| Dimensions (Ø): | 25 mm |
| Material:       | PA    |

### Sampling Point Stickers



#### SP Sticker

11-2300122-01-01

Sampling point sticker white  
Delivery unit: roll with 100 pcs

|                        |                 |
|------------------------|-----------------|
| Operating temperature: | -30°C to +120°C |
| Dimensions (Ø):        | 23 mm           |
| Material:              | PVC             |

### Sampling-funnel



#### SF 25 ABS

11-2300140-01-01

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

- For pipes with a max. Ø of 25mm
- Hole diameter: 5.0 mm

|                        |                 |
|------------------------|-----------------|
| Operating temperature: | -40°C to +100°C |
| Material:              | ABS             |

### Sampling-funnel



#### SF 22 PE EX

ATEX

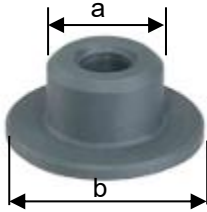
11-2300139-01-01

Sampling-funnel for application in ATEX areas. Use with stainless steel tubes TU 22 StSteel. For sampling points exposed to high air current.

- For pipes with Ø of 22mm
- Hole diameter: 5.0 mm

|                        |                           |
|------------------------|---------------------------|
| Operating temperature: | -40°C to +80°C            |
| Material:              | Polyethylene (antistatic) |

## Rosette for sampling tube stiff



### SP 36 ABS

11-2300141-01-01

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.

Delivery unit: 10 pieces

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

## Sampling point for ceiling duct



### SP M20 ABS

11-2300143-01-01

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 aspirating head: | ABS         |

## Sampling point for ceiling duct (Set)



### SP M20 ABS-Set

11-2300144-01-01

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 T-piece and aspirating head: | ABS |
|---------------------------------------|-----|

## 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 |
|-----------------|-------|

## Tubes and Fittings for Sampling Pipe

### Sampling point with heating

VdS



|                     |       |                         |
|---------------------|-------|-------------------------|
| <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

### Silicon litz wire



**SLW 0.5 wt** white **50-0500483-01-01**

**SLW 0.5 bk** black **50-0500482-01-01**

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

### Wiring connection unit

VdS



#### WCU 535 PC

**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 × 107 × 85 mm

Material: PC

Color: light grey (RAL 7035)

## 10. Clamps, Glue and Cleaner

### Mounting Material

#### Clamp

|                                                                                   |                                                                                                              |              |                  |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------|------------------|
|  | Pipe clamp, d= 25 mm, PVC<br>Temperature resistance: -10°C to +60°C<br>delivery unit : 100 pcs               | PC 25 PVC    | 11-2300083-01-01 |
|  | Pipe clamp d=25mm, ABS red<br>Temperature resistance: -20°C to +70°C<br>delivery unit : 20 pcs               | PC 25 ABSRED | 11-2300056-01-02 |
|  | Grounding Clamp ASD                                                                                          | GC 25 EX     | 50-0500215-02-01 |
|  | Pipe clamp d= 25 mm, grey polyamid PA12<br>Temperature resistance: -30°C to +110°C<br>delivery unit : 50 pcs | PC 25 PA12   | 11-0000058-01-01 |
|  | Mounting clamp                                                                                               | PC 22 CU/ST  | 50-0500552-01-02 |

### 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.

# 11. Accessories

## 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<br>delivery unit: 20 pcs | RFC 911<br>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<br>delivery unit: 5 pcs | FBS 25 EFM | 50-0500112-02-01 |

#### Assembly hint:

Special filter for deep freeze application.



### FBL 22 AL

Designed for use in environments with high levels of dust or dirt, in conjunction with aspirating smoke detectors for monitoring potentially explosive atmospheres in Zone 1, Zone 2, Zone 21, and Zone 22.

To protect the smoke sensor SSD 53x and the airflow sensor AFS 3x from contamination.

|                        |                       |
|------------------------|-----------------------|
| Operating temperature: | -0°C to +60°C         |
| Dimensions (HxWxD):    | 80 x 82 x 85 mm       |
| Material:              | Aluminium             |
| Color:                 | light grey (RAL 7035) |

#### Assembly hint:

Special filter for ATEX application.

## Accessories

### Filter Box Spare parts

#### Filter mat

|                                                                                   |                                                                          |                     |                  |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------|------------------|
|  | Filter mat large for filter box large FBL 25 PC<br>Delivery unit: 5 pcs. | FBL 25 PC EFM       | 50-0500410-02-01 |
|  | Filter mat for filter box extra-large FBX 25 PC                          | FBX 25 EFM          | 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 aspirating smoke detectors
- 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 devices

**WRT 25 ABSRED****11-2300126-01-01**

Water retaining tube used in applications with high humidity and constant temperature change. Must be drain manually by opening the ball tap.

|                        |               |
|------------------------|---------------|
| Operating temperature: | -40°C to 70°C |
| Dimensions (LxØ):      | 410x 75mm     |

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

Water retaining box with automatic drain.  
To be 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.

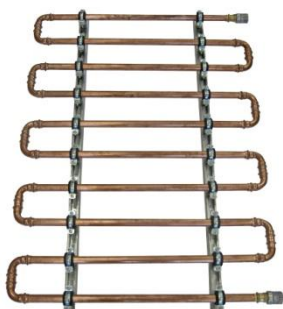
- Pipe connection Ø:25 mm

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

## Accessories

|                          |           |                  |
|--------------------------|-----------|------------------|
| Sealing plate for WRB 25 | WRB 25 SL | 50-0500569-01-01 |
|--------------------------|-----------|------------------|

## 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 ABS</b> | 1 sampling pipe ABS | <b>50-0500571-02-01</b> |
| <b>ADB 1000</b>    | 1 sampling pipe     | <b>50-0500520-01-03</b> |
| <b>ADB 2000</b>    | 2 sampling pipes    | <b>50-0500523-01-03</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 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:           | 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 |

### Accessories

|                               |        |                  |
|-------------------------------|--------|------------------|
| Printed circuit Board BMB 500 | BMB500 | 50-0500570-01-01 |
|-------------------------------|--------|------------------|

## Manual ball valve

**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 × 145 × 90 mm      |
| Material:              | ABS                    |
| Color:                 | silver grey (RAL 7001) |

**MV 22 ST****50-0500678-01-02**

Electrically conductive three-way ball valve made of stainless steel in T-configuration, for connecting compressed air used to clean the sampling pipe in conjunction with aspirating smoke detectors for monitoring potentially explosive atmospheres in Zone 1, Zone 2, Zone 21 and Zone 22.

|                        |                        |
|------------------------|------------------------|
| Operating temperature: | -10°C to +200°C        |
| Dimensions (HxWxD):    | 242 x 69 x 97 mm       |
| Material:              | ABS                    |
| Color:                 | silver grey (RAL 7001) |

## Detonation flame arrester

**DFA 22-3**

category IIC

**50-0500676-01-01****DFA 22-2**

category IIB

**50-0500675-01-01****DFA 22-1**

category IIA

**50-0500674-01-01**

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

For more details see the technical documentation.

- Pipe connection Ø:22 mm

**Approvals**

|              |                    |
|--------------|--------------------|
| Ex Approval: | BAM 01 ATEX 0007 X |
|--------------|--------------------|

### Noise reduction housing



#### Insulation housing

50-0500073-01-03

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                 |
| Color:                   | light grey (RAL 7035) |

### Additional housing for SecuriSmoke ASD 535



#### AHO ASD

50-1200001-01-02

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):      | 500 x 500 x 300 mm |
| Material:                | Steel              |

#### Assembly hint:

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

**AHO-L EX ASD 535****50-1200016-01-02**

Designed for the installation of the aspirating smoke detector SecuriSmoke ASD 53X to monitor potentially explosive areas classified as Zone 1 and Zone 2.

|                          |                     |
|--------------------------|---------------------|
| Protection class:        | IP66                |
| Weight of basic version: | 164 Kg              |
| Dimensions (HxWxD):      | 2200 x 800 x 600 mm |
| Material:                | Steel               |

**Assembly hint:**

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

**AHO-R EX ASD 535****50-1200016-02-02**

Designed for the installation of the aspirating smoke detector SecuriSmoke ASD 53X to monitor potentially explosive areas classified as Zone 1 and Zone 2.

|                          |                     |
|--------------------------|---------------------|
| Protection class:        | IP66                |
| Weight of basic version: | 164 Kg              |
| Dimensions (HxWxD):      | 2200 x 800 x 600 mm |
| Material:                | Steel               |

**Assembly hint:**

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

**AHO-U EX ASD 535****50-1200016-03-01**

Designed for the installation of the aspirating smoke detector SecuriSmoke ASD 53X to monitor potentially explosive areas classified as Zone 1 and Zone 2.

|                          |                     |
|--------------------------|---------------------|
| Protection class:        | IP66                |
| Weight of basic version: | 164 Kg              |
| Dimensions (HxWxD):      | 2200 x 800 x 600 mm |
| Material:                | Steel               |

**Assembly hint:**

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

## 12. InfraSensing – Gas detection

### Base Unit



#### BASE-PI-5-24V

11-0000051-01-01

Is required for communication and for supplying power to the sensors. Power is supplied via PoE or 12-24VDC connection terminals.

|                          |                 |
|--------------------------|-----------------|
| Weight of basic version: | 189.8 g         |
| Dimensions (HxWxD):      | 22 x 88 x 97 mm |
| Material:                | Steel           |
| Operating temperature:   | 0°C to +75°C    |

### Sensor Expansion Hub



#### EXP-8HUB

11-0000052-01-01

Extension for the BASE-PI-5-24V. For operating up to 8 sensors as star configuration, including relays and digital contacts.

|                          |                  |
|--------------------------|------------------|
| Weight of basic version: | 340 g            |
| Dimensions (HxWxD):      | 23 x 93 x 166 mm |
| Material:                | Steel            |
| Operating temperature:   | 0°C to +75°C     |

### Daisy starter module



#### DAISY-STARTER-L

11-0000056-01-01

The coupler (signal converter) enables networking with the DAISY chain sensors.

|                          |                 |
|--------------------------|-----------------|
| Weight of basic version: | 110 g           |
| Dimensions (HxWxD):      | 23 x 68 x 73 mm |
| Material:                | Steel           |
| Operating temperature:   | 0°C to +75°C    |

## VOC sensor

### GAS-VOC

11-0000053-01-01



Sensor for the detection of organic compounds/gases (VOC). The BASE-PI-5-24V is required for operation.

|                          |                 |
|--------------------------|-----------------|
| Weight of basic version: | 193 g           |
| Dimensions (HxWxD):      | 29 x 69 x 73 mm |
| Material:                | Steel           |
| Operating temperature:   | -10°C to +50°C  |

## VOC sensor – Daisy chain

### DAISY-VOC

11-0000054-01-01



Sensor for the detection of organic compounds/gases (VOC). The DAISY-STARTER-L is required for operation.

|                          |                 |
|--------------------------|-----------------|
| Weight of basic version: | 193 g           |
| Dimensions (HxWxD):      | 29 x 69 x 73 mm |
| Material:                | Steel           |
| Operating temperature:   | -10°C to +50°C  |

## VOC and H2 sensor

### R-GAS-FLAMMABLE

11-0000055-01-01



Independent sensor for detecting organic compounds/gases and hydrogen. Power is supplied via 12-24VDC connection terminals. Includes relay outputs and Modbus RTU RS-485. Can also be connected to the BASE-PI-5-24V unit.

|                          |                 |
|--------------------------|-----------------|
| Weight of basic version: | 193 g           |
| Dimensions (HxWxD):      | 39 x 71 x 71 mm |
| Material:                | Steel           |
| Operating temperature:   | -40°C to +75°C  |

## Accessories



Android Adapter IS

AX-USB-RJ45

11-0000060-01-01

## 13. Power Supply

### Power supply 24V

**STX2401-C-SEC**

1 Ampere

**11-5000007-01-01****STX2402-C-SEC**

2 Ampere

**11-5000008-01-01**

Power supply unit in protective steel housing to support two 7 Ah or 2.1 Ah batteries.

For SecuriSmoke ASD and SecuriHeat ADW.

- incl. battery connection kit
- incl. installation instructions / data sheet
- excl. batteries (accumulators)
- excl. cable glands for cable openings in housing

|                        |                            |
|------------------------|----------------------------|
| Output voltage:        | 24 VDC                     |
| Output current:        | 1 A / 2 A                  |
| Operating temperature: | -10°C to +40°C             |
| Weight:                | 3200 g (without batteries) |
| Dimensions (HxWxD):    | 275 x 330 x 80 mm          |
| Material:              | Steel sheet                |

**Assembly hint:**

Batteries recommended and compatible by the manufacturer:

- Yuasa (models: NP7-12 / NP17-12)
- PowerSonic (models: PS12070 / PS12170)
- Interlogix (model: BS131N)

### Power supply 24V

**STX2405-E-SEC**

5 Ampere

**11-5000009-01-01**

Power supply unit in protective steel housing to support two 17 or 18 Ah batteries.

For SecuriSmoke ASD and SecuriHeat ADW.

- incl. battery connection kit
- incl. installation instructions / data sheet
- excl. batteries (accumulators)
- excl. cable glands for cable openings in housing

|                        |                            |
|------------------------|----------------------------|
| Output voltage:        | 24 VDC                     |
| Output current:        | 5 A                        |
| Operating temperature: | -10°C to +40°C             |
| Weight:                | 3400 g (without batteries) |
| Dimensions (HxWxD):    | 420 x 400 x 80 mm          |
| Material:              | Steel sheet                |

**Assembly hint:**

Batteries recommended and compatible by the manufacturer:

- Yuasa (models: NP7-12 / NP17-12)
- PowerSonic (models: PS12070 / PS12170)
- Interlogix (model: BS131N)

## Power supply 24V

**AKKUTEC 2403 C-864****11-0000042-01-01**

Power supply unit in protective steel housing to support two batteries.

For SecuriSmoke ASD and SecuriHeat ADW.

- incl. battery connection kit
- incl. temperature sensor
- incl. installation instructions / data sheet
- excl. batteries (accumulators)
- excl. cable glands for cable openings in housing

|                        |                            |
|------------------------|----------------------------|
| Output voltage:        | 24 VDC                     |
| Output current:        | 3 A                        |
| Operating temperature: | -10°C to +50°C             |
| Weight:                | 1500 g (without batteries) |
| Dimensions (HxWxD):    | 464 x 375 x 144 mm         |
| Material:              | Steel sheet                |

## Power supply 24V

**AKKUTEC 2405 C-864****11-0000043-01-01**

Power supply unit in protective steel housing to support two batteries.

For SecuriSmoke ASD and SecuriHeat ADW.

- incl. battery connection kit
- incl. temperature sensor
- incl. installation instructions / data sheet
- excl. batteries (accumulators)
- excl. cable glands for cable openings in housing

|                        |                            |
|------------------------|----------------------------|
| Output voltage:        | 24 VDC                     |
| Output current:        | 5 A                        |
| Operating temperature: | -10°C to +40°C             |
| Weight:                | 1500 g (without batteries) |
| Dimensions (HxWxD):    | 617 x 462 x 219 mm         |
| Material:              | Steel sheet                |

# 14. Test and Maintenance Tools

Cleaning Kit SecuriSmoke ASD



**ASD RK** 50-0500062-01-03

**ASD RK - Case** 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. 1700 l/min
- Operating pressure approx 250 mbar

The vacuum cleaner is supplied without the case.

**ASD RK - Case** (50-0500095-01-01)

The case is supplied without contents.

|                    |         |
|--------------------|---------|
| Mains voltage:     | 230 VAC |
| Power consumption: | 1000 W  |
| Weight:            | 3000 g  |

Electronic Smoke Detector Accessories

Solo Accessories

|                                                                                     |                                       |         |         |
|-------------------------------------------------------------------------------------|---------------------------------------|---------|---------|
|  | Adapter UTP-Testpole to Testfire head | UTP SOL | 3330256 |
|-------------------------------------------------------------------------------------|---------------------------------------|---------|---------|

# 15. Product Type Index

## A

|                         |    |
|-------------------------|----|
| ACB 35.....             | 22 |
| ACB 35 CP .....         | 22 |
| AD 20 ABS.....          | 32 |
| AD 22-25 StSteel.....   | 34 |
| AD 25-Inch ABS.....     | 34 |
| ADB 1000 .....          | 44 |
| ADB 2000 .....          | 44 |
| ADB 500 ABS .....       | 44 |
| AEB 100.....            | 11 |
| AFS 100.....            | 11 |
| AFS 32.....             | 22 |
| AFS 35.....             | 22 |
| AFU 32.....             | 22 |
| AFU 35.....             | 22 |
| AHO ASD.....            | 46 |
| AHO-L EX ASD 535.....   | 47 |
| AHO-R EX ASD 535.....   | 47 |
| AHO-U EX ASD 535.....   | 47 |
| AKKUTEC 2403 C-864..... | 51 |
| AKKUTEC 2405 C-864..... | 51 |
| AMB 100.....            | 11 |
| AMB 31 .....            | 22 |
| AMB 32 .....            | 22 |
| AMB 33-1 .....          | 22 |
| AMB 33-2 .....          | 22 |
| AMB 35-1 .....          | 22 |
| AMB 35-1 CP .....       | 22 |
| AMB 35-2 .....          | 22 |
| AMB 35-2 CP .....       | 22 |
| AN 25-45 ABSRED.....    | 29 |
| AN 25-90 ABSRED.....    | 29 |
| ASD 2001 .....          | 9  |
| ASD 2002 .....          | 9  |
| ASD 2004 .....          | 9  |
| ASD 200x DBU .....      | 11 |
| ASD 531 .....           | 12 |
| ASD 532 .....           | 13 |
| ASD 533 .....           | 14 |
| ASD 535 Verschl .....   | 18 |
| ASD 535-3 .....         | 15 |
| ASD 535-3HD .....       | 16 |
| ASD 535-4 .....         | 15 |
| ASD 535-4HD .....       | 16 |
| ASD PipeFlow.....       | 24 |
| ASD RK.....             | 52 |
| ASD RK - Koffer.....    | 52 |
| AX-USB-RJ45.....        | 49 |

## B

|                      |    |
|----------------------|----|
| BASE-PI-5-24V.....   | 48 |
| BATT 3V CR2032 ..... | 23 |
| BCB 100 .....        | 11 |
| BCB 35.....          | 22 |
| BE 22 StSteel .....  | 34 |
| BE 25 ABSRED .....   | 29 |
| BMB500 .....         | 44 |

## C

|                           |    |
|---------------------------|----|
| CC 25 ABS .....           | 29 |
| CCF 25 ABS .....          | 37 |
| Cleaner 1000 .....        | 39 |
| CLIP 2.0 PA.....          | 35 |
| CLIP 2.0 PA ye .....      | 35 |
| CLIP 2.5 PA.....          | 35 |
| CLIP 2.5 PA gy .....      | 35 |
| CLIP 3.0 PA.....          | 35 |
| CLIP 3.0 PA ru.....       | 35 |
| CLIP 3.5 PA.....          | 35 |
| CLIP 3.5 PA bl.....       | 35 |
| CLIP 4.0 PA.....          | 35 |
| CLIP 4.0 PA gn.....       | 35 |
| CLIP 4.5 PA.....          | 35 |
| CLIP 4.5 PA bk .....      | 35 |
| CLIP 5.0 PA.....          | 35 |
| CLIP 5.0 PA bn.....       | 35 |
| CLIP 5.5 PA.....          | 35 |
| CLIP 5.5 PA wh .....      | 35 |
| CLIP 6.0 PA.....          | 35 |
| CLIP 6.0 PA og.....       | 35 |
| CLIP 6.5 PA.....          | 35 |
| CLIP 6.5 PA mt.....       | 35 |
| CLIP 7.0 PA.....          | 35 |
| CLIP 7.0 PA pu.....       | 35 |
| CLIP REV PA rd .....      | 36 |
| CLS 100.....              | 11 |
| CT 10/7 ABS-SPC-Set ..... | 31 |
| CT 10/7 ABS-SPF-Set.....  | 31 |
| CT 10/7 PA 30 .....       | 31 |

## D

|                       |    |
|-----------------------|----|
| DAISY-STARTER-L.....  | 48 |
| DAISY-VOC.....        | 49 |
| <b>DF 22 ST</b> ..... | 30 |
| DF 25 ABS.....        | 30 |
| DFA 22-1 .....        | 45 |
| DFA 22-2 .....        | 45 |
| DFA 22-3 .....        | 45 |
| DFU 535L RC .....     | 42 |
| DFU 535XL RC.....     | 42 |
| DFU 911 .....         | 40 |
| DFU 911S .....        | 40 |
| DTB 25 PC .....       | 42 |

## E

|                     |    |
|---------------------|----|
| EC 22 StSteel ..... | 34 |
| EC 25 ABSRED .....  | 29 |
| EXP-8HUB.....       | 48 |

## F

|                     |        |
|---------------------|--------|
| FBL 22 AL.....      | 41     |
| FBL 25 PC EFM ..... | 42     |
| FBS 25 EFM .....    | 40, 43 |
| FBS 25 PC.....      | 40     |
| FBX 25 EFM .....    | 42     |

|                          |    |
|--------------------------|----|
| FH 25 ABSRED Set03 ..... | 29 |
| FH 25 ABSRED Set1 .....  | 29 |
| FT 21 PA .....           | 32 |
| FT 32C .....             | 33 |

## G

|                   |    |
|-------------------|----|
| GAS-VOC .....     | 49 |
| GC 25 EX .....    | 39 |
| Glue 250 ABS..... | 39 |

## H

|                           |    |
|---------------------------|----|
| HEAT 3.0 ABS.....         | 38 |
| HEAT 3.5 ABS.....         | 38 |
| HEAT 4.0 ABS.....         | 38 |
| HEAT 4.5 ABS.....         | 38 |
| HEAT 5.0 ABS.....         | 38 |
| Heat Resistor.....        | 38 |
| Holder Filter-Mat X ..... | 42 |

## I

|                |    |
|----------------|----|
| IPS 100.....   | 11 |
| IPS 35.....    | 23 |
| IPS 36.....    | 23 |
| IPS-O 100..... | 11 |

## L

|                   |    |
|-------------------|----|
| LIC ASD .....     | 24 |
| LIC ASD Net.....  | 24 |
| LIC ASD Prog..... | 24 |
| LK 35 - ABS.....  | 43 |

## M

|                       |    |
|-----------------------|----|
| M20 VE10.....         | 23 |
| M25 VE10.....         | 23 |
| MCM 35.....           | 20 |
| MF4 25 ABS .....      | 27 |
| MFS 25.....           | 42 |
| MOP 200x .....        | 10 |
| <b>MV 22 ST</b> ..... | 45 |
| MV 25 ABS.....        | 45 |

## N

|                                |    |
|--------------------------------|----|
| NCU 900.....                   | 25 |
| NetSoft 10 .....               | 26 |
| NetSoft 160 .....              | 26 |
| NetSoft 30 .....               | 26 |
| NetSoft 50 .....               | 26 |
| NetSoft max.....               | 26 |
| Noise insulation housing ..... | 46 |

## O

|                 |    |
|-----------------|----|
| OPB 911 CP..... | 16 |
| O-RING .....    | 22 |

## P

|                   |    |
|-------------------|----|
| PC 22 CU/ST.....  | 39 |
| PC 25 ABSRED..... | 39 |
| PC 25 PA12.....   | 39 |

## Product Type Index

|                      |    |
|----------------------|----|
| PC 25 PVC.....       | 39 |
| PP 25 ABS VE 5 ..... | 23 |

### R

|                       |    |
|-----------------------|----|
| RC AMB-BCB .....      | 11 |
| RC ASD 2001 .....     | 11 |
| RC ASD 2002 .....     | 11 |
| RC ASD 2004 .....     | 11 |
| RCH 100 .....         | 11 |
| RCU 700 .....         | 25 |
| RE ¾-25 ABS.....      | 30 |
| RE 25-22.....         | 30 |
| REK 511.....          | 27 |
| RFC 911.....          | 40 |
| RFC 911VE20.....      | 40 |
| R-GAS-FLAMMABLE ..... | 49 |
| RIM 35 .....          | 19 |
| RIM 36 .....          | 20 |
| RMF 19-1 .....        | 25 |
| RMF 19-2 .....        | 25 |
| RSL 35 .....          | 23 |
| RWH .....             | 25 |

### S

|                     |    |
|---------------------|----|
| SC 20BE PA .....    | 32 |
| SC 20ST PA.....     | 32 |
| SD-Industrial ..... | 23 |

|                      |    |
|----------------------|----|
| SF 22 PE EX.....     | 36 |
| SF ABS .....         | 36 |
| SIM 35 .....         | 20 |
| SJ 25 ABSRED.....    | 29 |
| SLW 0.5 bk .....     | 38 |
| SLW 0.5 wt .....     | 38 |
| SMM 535 .....        | 21 |
| SO 22 StSteel.....   | 34 |
| SO 25 ABSRED.....    | 29 |
| SP 30 PVC.....       | 33 |
| SP 32C L .....       | 33 |
| SP 32C T .....       | 33 |
| SP 36 ABS.....       | 37 |
| SP M20 ABS.....      | 37 |
| SP M20 ABS-Set ..... | 37 |
| SP Sticker .....     | 36 |
| SPC 10 PA.....       | 31 |
| SPF 10 PA .....      | 31 |
| SSD 1030 .....       | 10 |
| SSD 31 .....         | 17 |
| SSD 515-1S.....      | 28 |
| SSD 515-3S.....      | 28 |
| SSD 532-3 .....      | 17 |
| SSD 533-1 .....      | 17 |
| SSD 535-3 .....      | 18 |
| SSD 535-3 CP .....   | 18 |
| STX2401-C-SEC .....  | 50 |
| STX2402-C-SEC .....  | 50 |

|                     |    |
|---------------------|----|
| STX2405-E-SEC ..... | 50 |
|---------------------|----|

### T

|                       |    |
|-----------------------|----|
| TP 22 StSteel .....   | 34 |
| TP 25 ABSRED .....    | 29 |
| TP 25-10 ABSRED ..... | 31 |
| TP 32C .....          | 33 |
| TU 22 St .....        | 34 |
| TU 25 ABSRED .....    | 29 |

### U

|                |    |
|----------------|----|
| ULM-DP .....   | 24 |
| ULM-DP 10..... | 24 |
| ULM-DP 5.....  | 24 |
| UMS 1000 ..... | 10 |
| UMS 35.....    | 21 |
| UTP SOL .....  | 52 |

### W

|                     |    |
|---------------------|----|
| WCU 535 PC .....    | 38 |
| WRB 25 ABS .....    | 43 |
| WRB 25 SL.....      | 43 |
| WRT 25 ABSRED ..... | 43 |

### X

|              |    |
|--------------|----|
| XLM 35 ..... | 19 |
|--------------|----|