



SecuriRAS ASD 535 / 533 / 532 / 531

Sales Presentation

01

Principle of Operation

02

Application Drivers

03

Strength

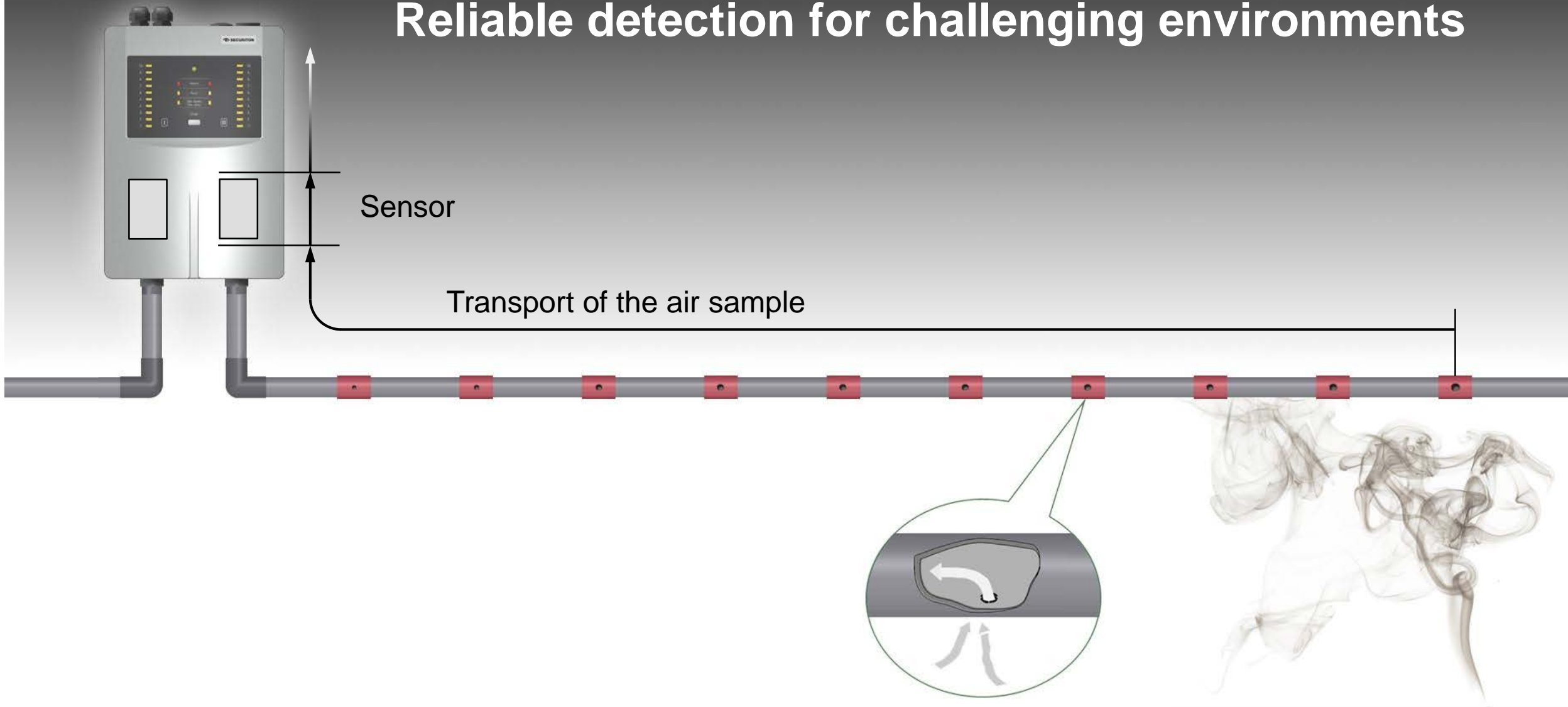
04

Benefits

05

Success Stories

Reliable detection for challenging environments



Gain extra time for a staged response

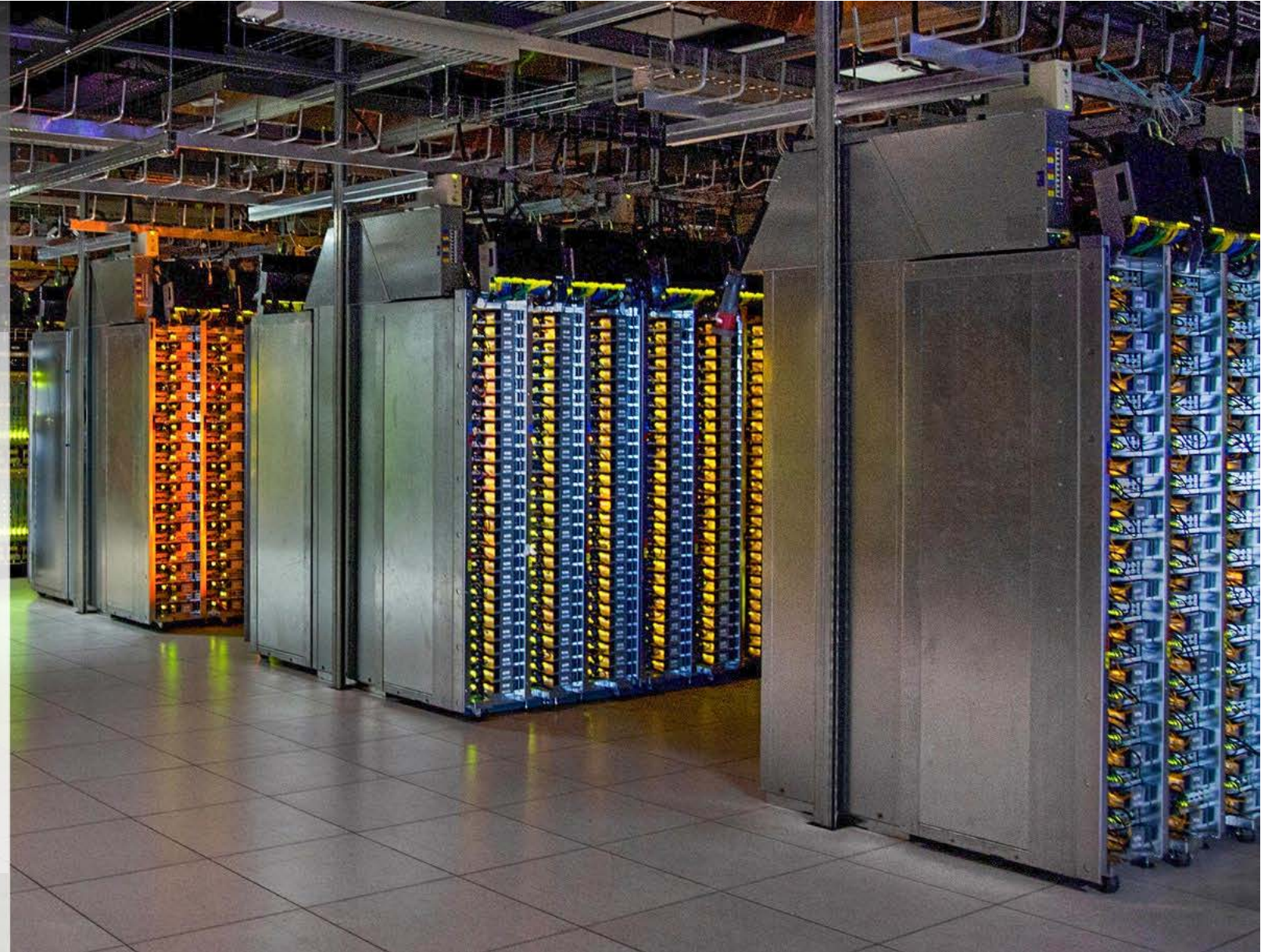
Pre-signal 1: Notify constantly attended location. Verify & control.

Pre-signal 2: Manual shutdown of HVAC; call emergency team.

Pre-signal 3: Auto shutdown of HVAC & related BMS; evacuate the site.

Alarm: Actuate clean agent suppression; initiate fire alarm.

Alarm 2: Initiate pre-action sprinkler; call fire brigade.



Operating Temperature

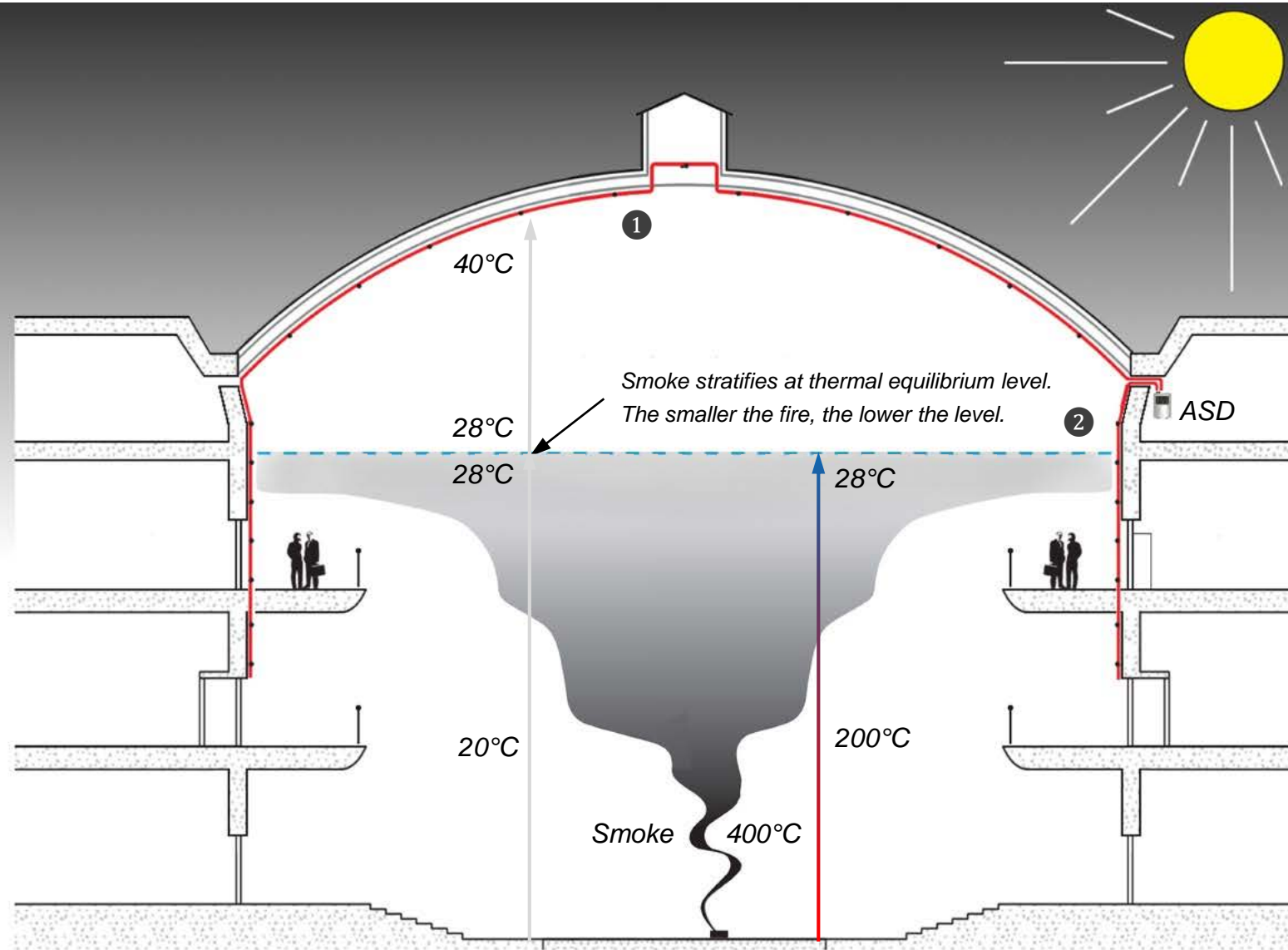
- Most detectors do not work at temperatures of -30°C
- Condensation & Icing are severe issues at low temperature
- Networking for remote control is a must for testing

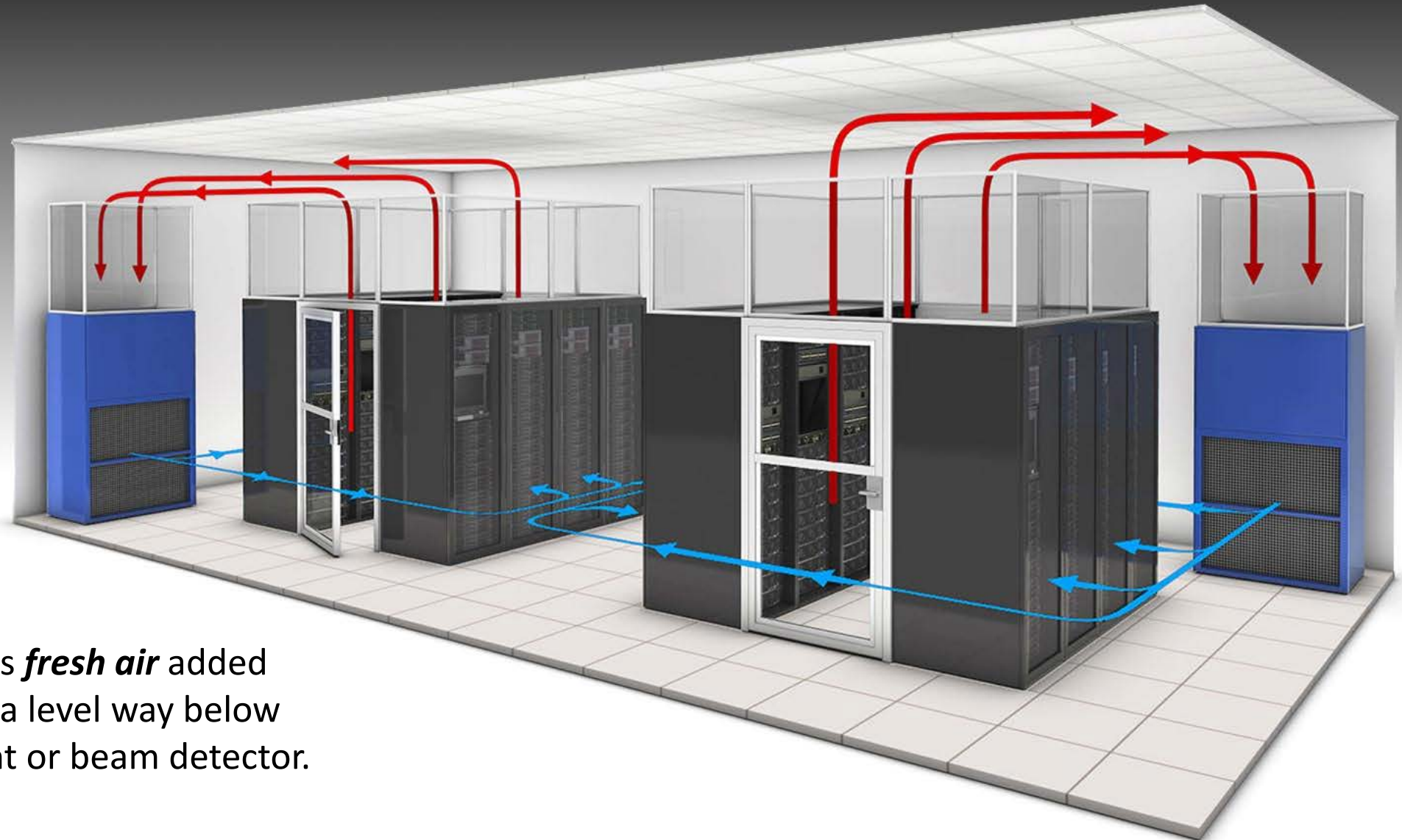


1 Ceiling sampling

2 Vertical sampling

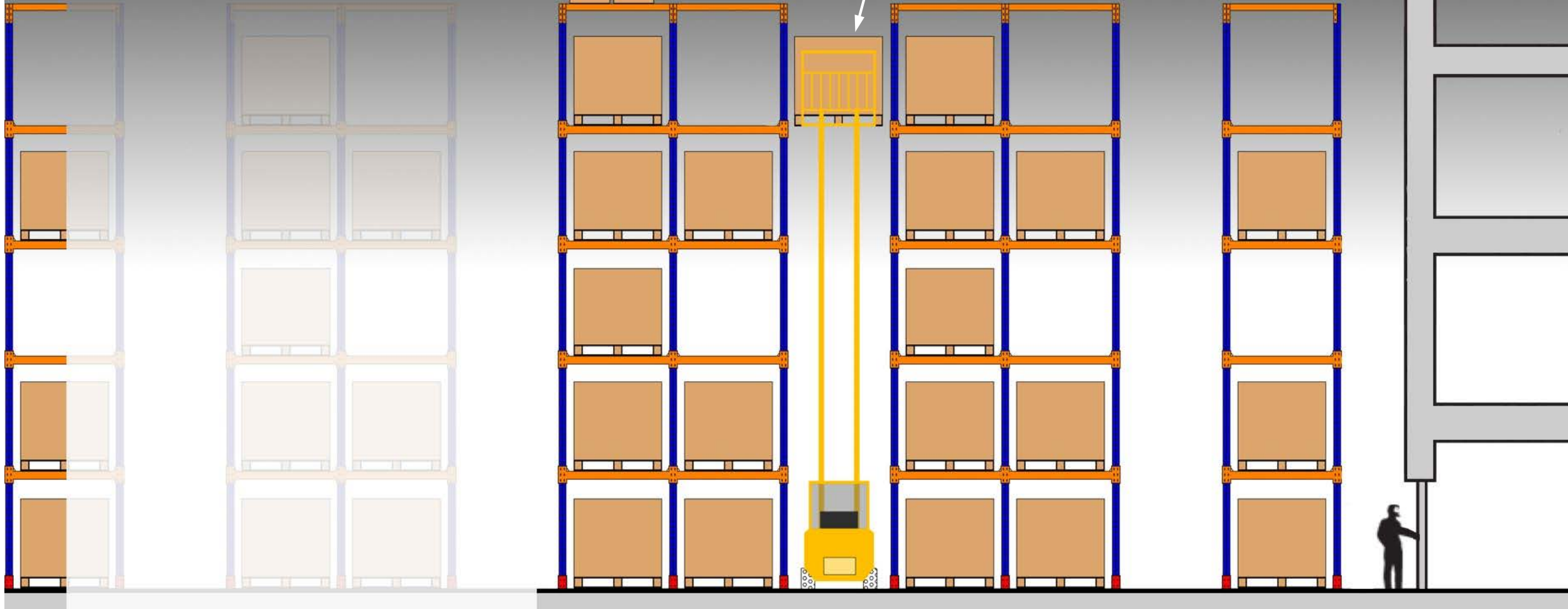
Sampling pipe runs vertical to detect smoke at any level





Rapid ***air circulation*** plus ***fresh air*** added will dilute the smoke to a level way below the alarm level of a point or beam detector.

Moving forklifts or misplaced goods make use of beam detectors impossible.



Aspiration Technology

... is simplifying
maintenance.



Aspiration Technology

... is eliminating the need to access the restricted area for maintenance.

- ✓ **Elevator Shafts**
- ✓ **High Voltage Gears**
- ✓ **Prison Cells**



Filtered Aspiration Technology

Often the only
reliable solution.

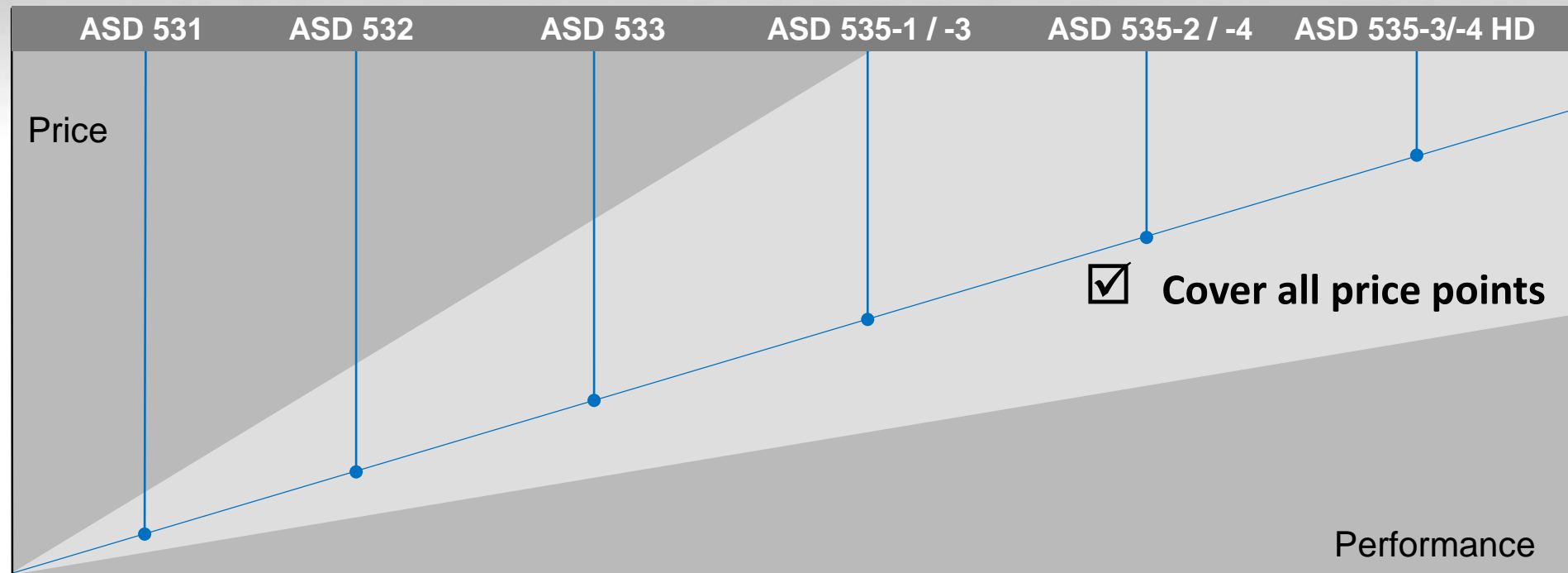
- ☑ **Recycling Plants**
- ☑ **Mills**
- ☑ **Farming**







		ASD 531	ASD 532	ASD 533	ASD 535-1 / -3	ASD 535-2 / -4	ASD 535-3 / -4 HD
Sensors per Unit		1	1	1	1	2	1 or 2
Sensitivity	%Obs./m	0.006	0.002	0.002	0.002	0.002	0.002
Sampling Points	Per Class A / B / C	6 / 8 / 12	8 / 12 / 16	16 / 50 / 50	18 / 56 / 120	36 / 112 / 240	36 / 112 / 240
Sampl. Pts/Branch	Per Class A / B / C	6 / 8 / 12	8 / 12 / 16	12 / 24 / 30	18 / 50 / 50	18 / 50 / 50	18 / 50 / 50
Aggr. Tube Length	m	75	120	200	300	300	300
Single Tube Length	m	40	70	80	110	110	110
Max. Area	m ²	720	1280	1920	2880	5760	5760
Oper. Temp. Range	°C	-10 ... +55	-20 ... +60	-20 ... +60	-30 ... +60	-30 ... +60	-30 ... +60
IP Rating		IP54	IP54	IP54	IP54	IP54	IP66
Smoke Level Display		no	yes	no	no / yes	no / yes	yes



Throughout the entire product range

- ✓ **Class A** (Very Early Warning)
- ✓ **5 Racks per Unit** (Local Code of Practice)



☑ Suitable for Museums, Hospitals, Spas ...

ASD 531/532 27dB

ASD 533/535 32dB

Protection Class
Standard: IP54
Heavy Duty: IP66



Splashes

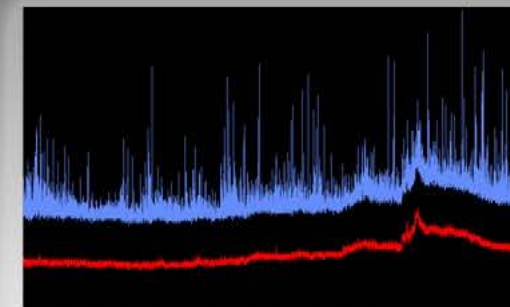
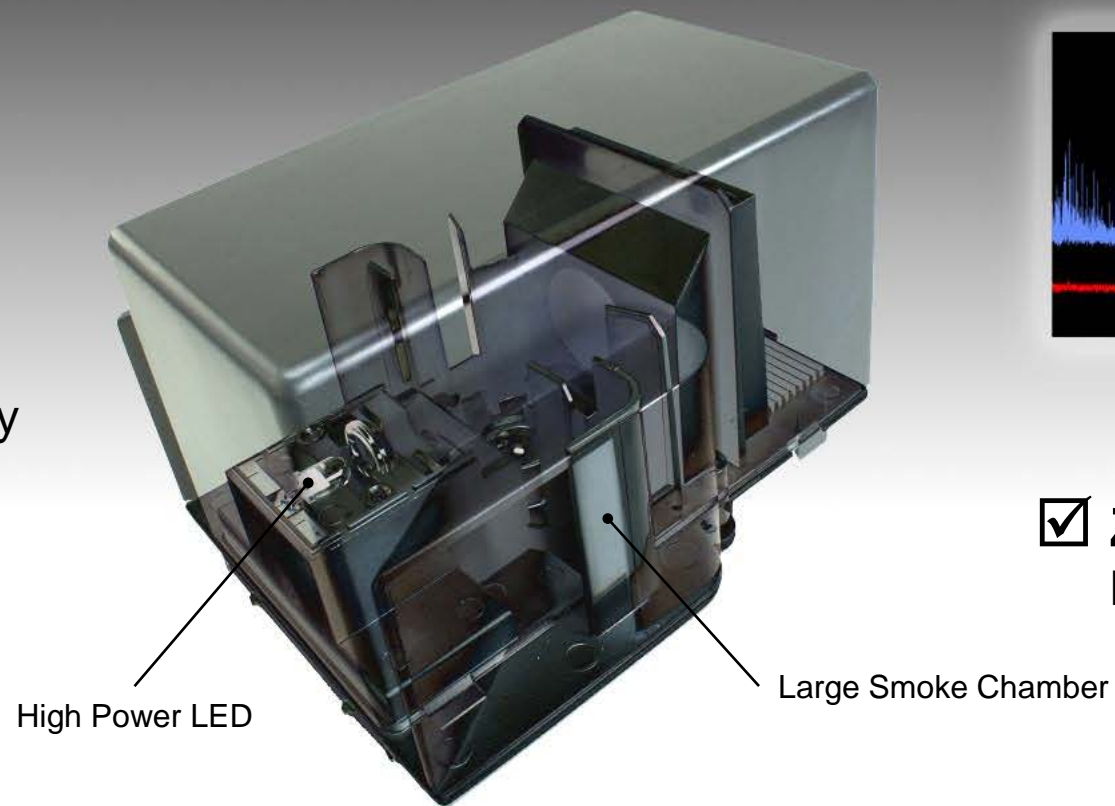
LED: Robust & durable

Large Chamber

Dust Discrimination

☑ **Very Long Life**
Robust / Durable Technology

☑ **Very High Sensitivity**
Senses smoke in densities
as low as 0.002% Obs./m



☑ **Zero Nuisance Alarms**
High Dust Immunity

Operating Temperature
Range

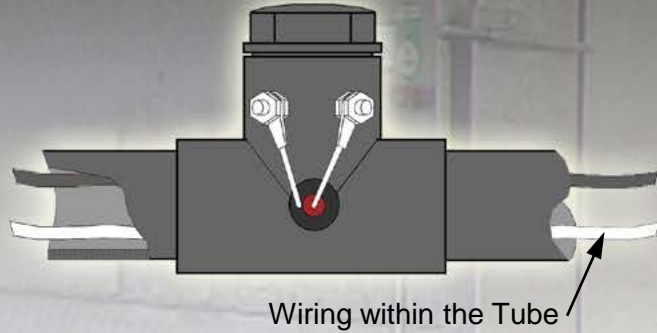
-30°C to +60°C



Can be mounted inside
deepfreeze storage.



Heated Sampling Points



Airflow controlled

Activates the heating only if airflow decreases due to icing of the sampling points.

Powered by the ASD

No separate power supply needed.



German Aspiration Engine [420Pa]



Larger Tube system

300m aggregate tube length per detector

Larger Area Coverage

2 x 2'880m²

Excellent Lifetime

MTBF > 10Years

Chemically Resistant

- Ammonia (Farming)
- Chlorides
- Acids





Shocks up to 5G

Shock Resistance
to rail requirements



M SET (Sydney suburban lines)

2 Sensors for twice the performance!

Sampling Points x 2

Two sensors per unit simply means 2 x the number of sampling points.

Pipe Length x 2

Two sensors per unit combined with high aspiration power simply means doubling the maximum aggregate pipe length (2 x 300m)

2 Sensors: Twice the detection power at

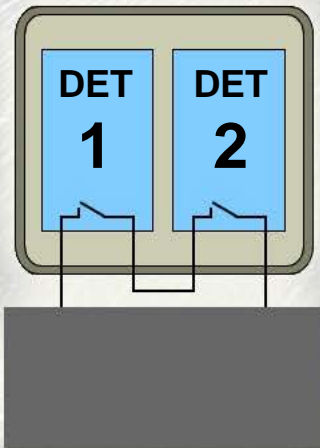
- ✓ Less cost than 2 separate units
- ✓ Less installation effort for units and cabling
- ✓ Less power consumption ... less capacity required for backup



Two detector dependency

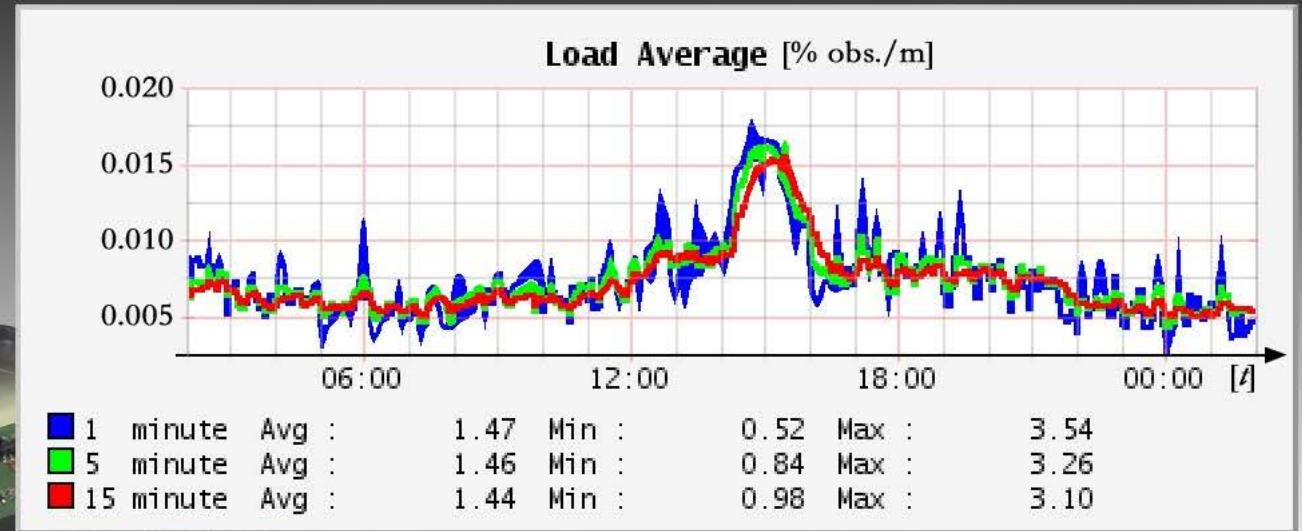
for double knock triggering of extinguishing controls.

- Two sensors in 1 unit
- Reduced installation

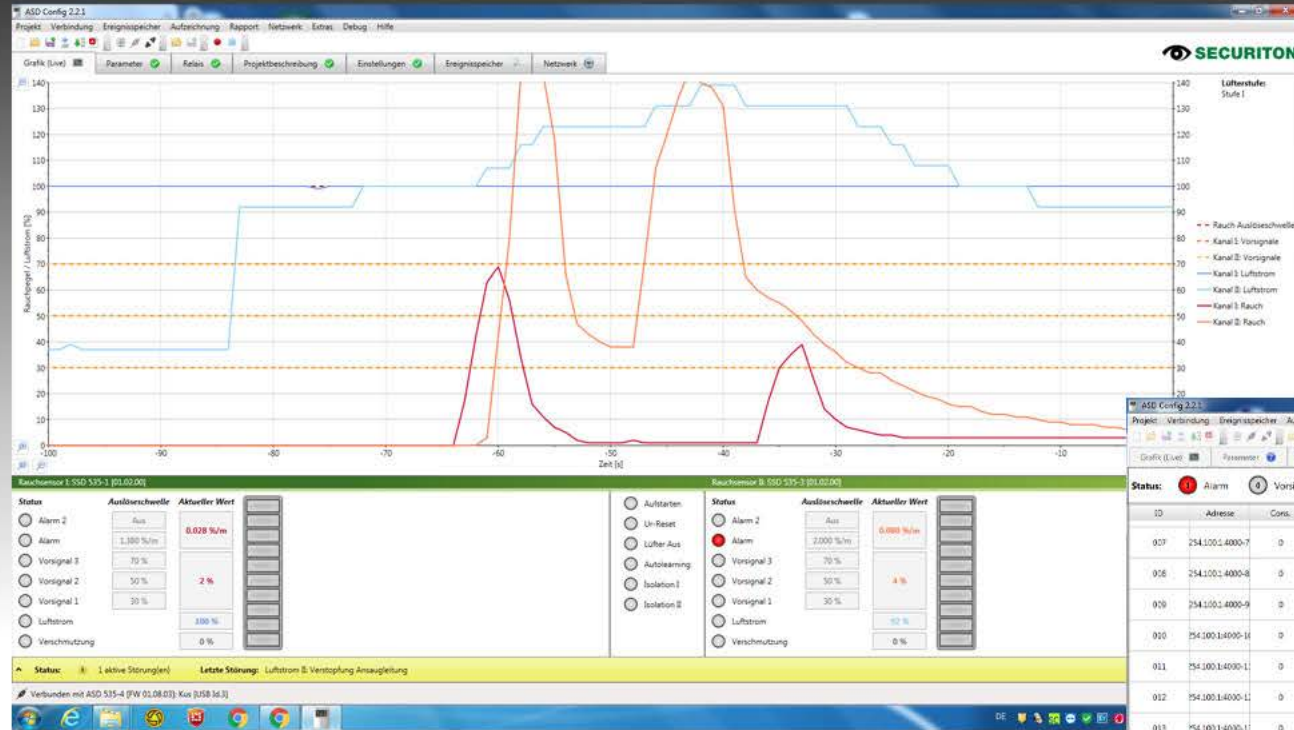


- 5 Alarm 2** Initiate pre-action sprinkler
- 4 Alarm** Actuate clean agent suppression; initiate fire alarm; call fire brigade
- 3 Pre-signal 3** Auto shutdown of HVAC & related BMS; evacuate the site
- 2 Pre-signal 2** Manual shutdown of HVAC if required; call emergency team
- 1 Pre-signal 1** Notify constantly attended location; verify & control

Reads the background pollution load and adjusts the sensitivity to the optimum level.



☑ Best possible sensitivity at low risk for nuisance alarms



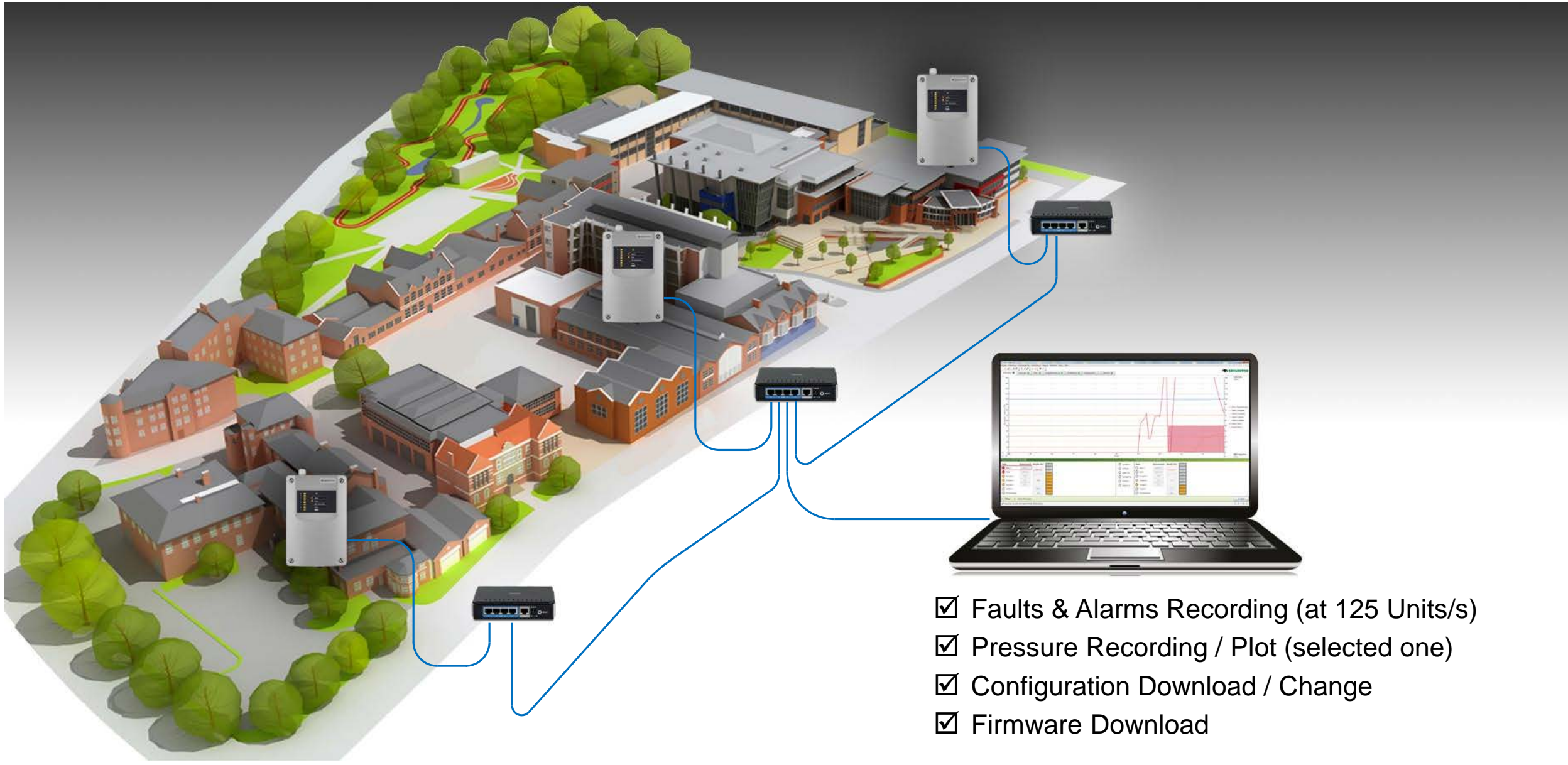
- ✓ Setup to PipeFlow or individual parameters
- ✓ FW Update
- ✓ SD Card Download
- ✓ Charting of Smoke & Airflow

ID	Adresse	Cons.	Total	Hard Fault	Typ	Firmware	Grafik	Alarm	Störung	Rauch	Luftstrom	Verschmutzung	Sensor	AMB Spannung [V]	AMB Temperatur [°C]	Kommentar
007	254.1001.4000-7	0	1	+	ASD 535-4	01.08.03	I	+	Störung	0%	98%	0%	SSD 535-1 (01.02.00)	24.1V	28.2°C	
008	254.1001.4000-8	0	1	+	ASD 535-4	01.08.03	I	+	Störung	0%	98%	0%	SSD 535-3 (01.02.00)	24.1V	28.2°C	
009	254.1001.4000-9	0	0	+	ASD 535-4	01.08.01	I	+	Störung	0%	98%	0%	SSD 535-3 (01.02.00)	24.1V	28.2°C	
010	254.1001.4000-10	0	0	+	ASD 535-4	01.08.01	I	+	Störung	0%	98%	0%	SSD 535-3 (01.02.00)	24.1V	28.2°C	
011	254.1001.4000-11	0	0	+	ASD 535-4	01.08.01	I	+	Störung	0%	98%	0%	SSD 535-1 (01.02.00)	24.1V	28.2°C	
012	254.1001.4000-12	0	0	+	ASD 535-4	01.08.03	I	+	Störung	0%	98%	0%	SSD 535-3 (01.02.00)	24.1V	28.2°C	
013	254.1001.4000-13	0	0	+	ASD 535-4	01.08.01	I	+	Störung	0%	98%	0%	SSD 535-1 (01.02.00)	24.1V	28.2°C	
014	254.1001.4000-14	0	0	+	ASD 535-4	01.08.03	I	+	Störung	0%	98%	0%	SSD 535-3 (01.02.00)	24.1V	28.2°C	
015	254.1001.4000-15	0	0	+	ASD 535-4	01.08.03	I	+	Störung	0%	98%	0%	SSD 535-3 (01.02.00)	24.1V	28.2°C	
016	254.1001.4000-16	0	0	+	ASD 535-4	01.08.01	I	+	Störung	0%	98%	0%	SSD 535-1 (01.02.00)	24.1V	28.2°C	
017	254.1001.4000-17	0	0	+	ASD 535-4	01.08.03	I	+	Störung	0%	98%	0%	SSD 535-3 (01.02.00)	24.1V	28.2°C	
018	254.1001.4000-18	0	0	+	ASD 535-4	01.08.03	I	+	Störung	0%	98%	0%	SSD 535-3 (01.02.00)	24.1V	28.2°C	
019	254.1001.4000-19	0	0	+	ASD 535-4	01.08.01	I	+	Störung	0%	98%	0%	SSD 535-3 (01.02.00)	24.1V	28.2°C	
020	254.1001.4000-20	0	0	+	ASD 535-4	01.08.01	I	+	Störung	0%	98%	0%	SSD 535-1 (01.02.00)	24.1V	28.2°C	
021	254.1001.4000-21	0	0	+	ASD 532	01.02.09	I	+	Störung	0%	97%	0%	SSD 532-3 (01.02.00)	24.1V	23.2°C	



License / Dongle

- ✓ Handling of networked units
- ✓ Control of manipulations



- ✓ Faults & Alarms Recording (at 125 Units/s)
- ✓ Pressure Recording / Plot (selected one)
- ✓ Configuration Download / Change
- ✓ Firmware Download

SecuriLine



XLM 35

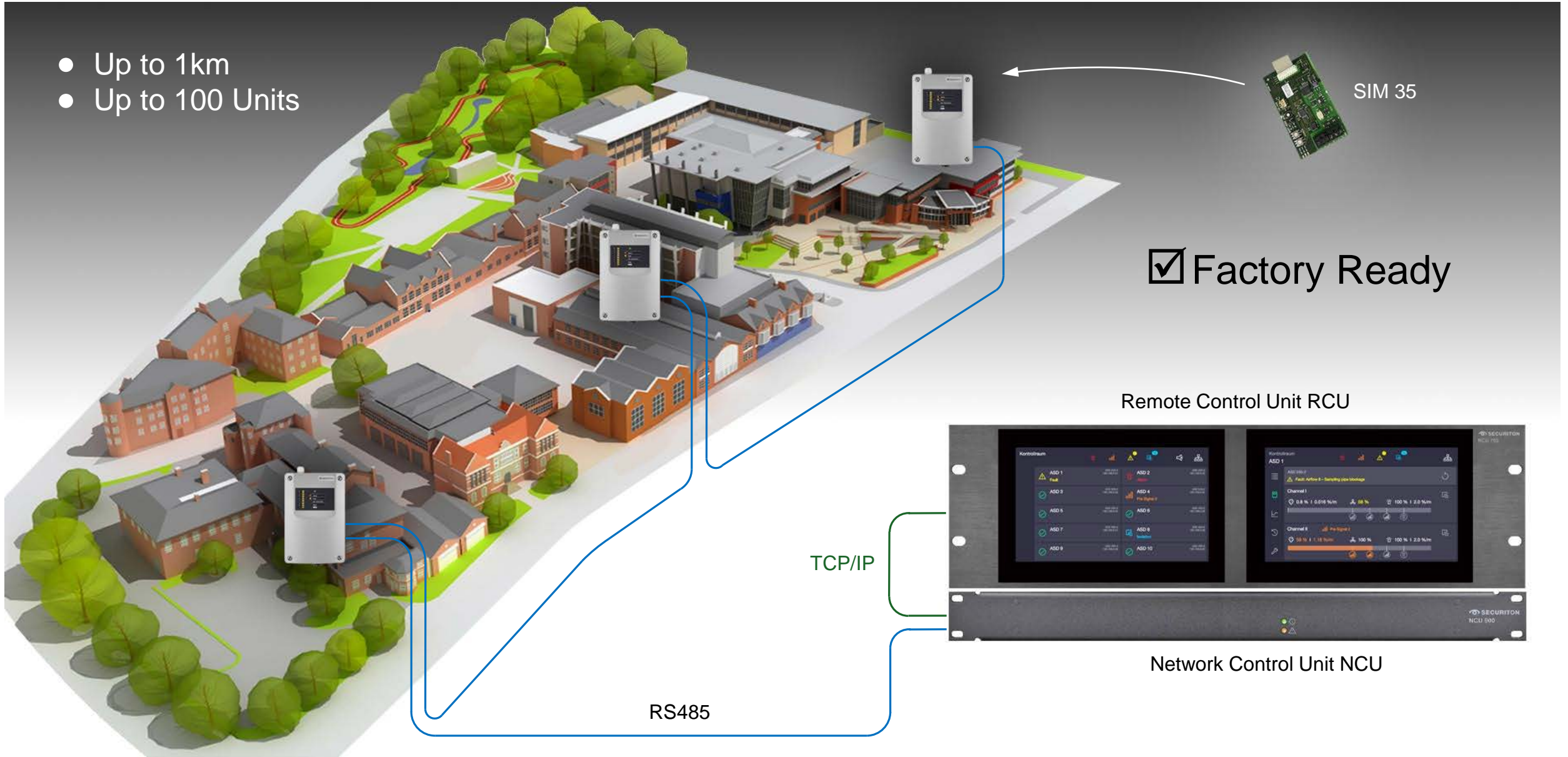
ASD Configuration Download / Change

- Faults & Alarms (per incident)
- Smoke level read (one-by-one)

STRENGTH [532, 535]

RS485 Networking

- Up to 1km
- Up to 100 Units



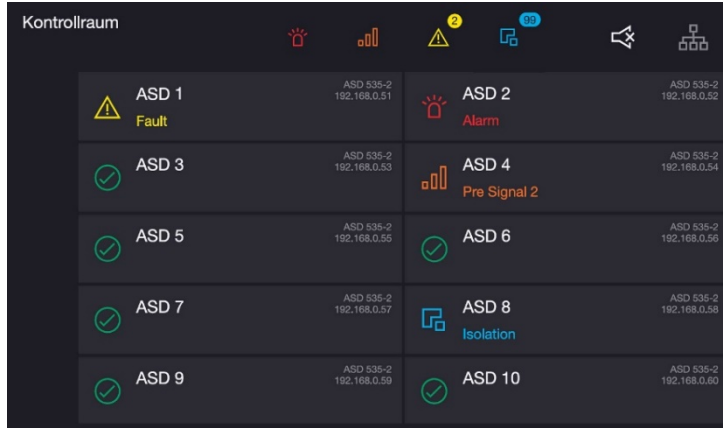
Factory Ready

Remote Control Unit RCU

TCP/IP

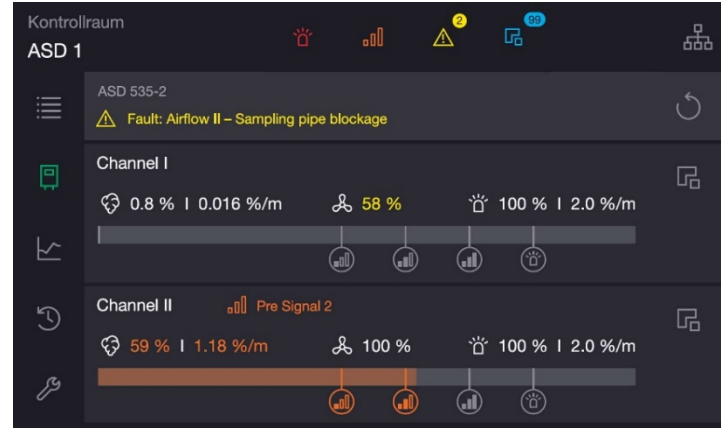
RS485

Network Control Unit NCU



Device List

Status overview of all ASDs in the network. The ID of each unit (here "ASD 1" to "ASD 10") can be named individually (Example: "Server Room 1 / Rack 4")



Dashboard

Details smoke level and airflow; and offers reset and isolate function per channel / sensor



Trending of Smoke and Airflow

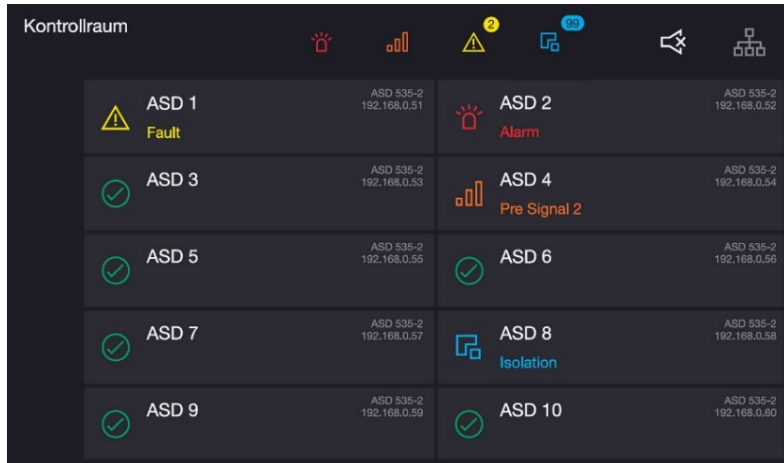
Realtime trace displaying the analog values of a 5 min. FIFO Buffer hosted on the NCU for each ASD connected

Type	Date	Time	Origin	Event
Warning	04.08.2018	16:36:01	System	Fan: Tacho signal lacking
Info	04.08.2018	16:35:32	System	Test triggering via PC program: Test pre-signal 3
Warning	03.08.2018	11:22:37	Channel I	Smoke sensor I: Pre-Signal 2
Warning	03.08.2018	11:22:01	Channel I	Smoke sensor I: Pre-Signal 1
Info	03.08.2018	11:17:16	Channel I	Smoke sensor I: Isolate switched off
Warning	03.08.2018	11:15:19	Channel I	Smoke sensor I: Isolate switched on
Info	31.07.2018	16:31:48	Channel I	Test triggering via PC program: Test pre-signal 2
Info	30.07.2018	14:02:16	Channel I	Smoke sensor I: Isolate switched off

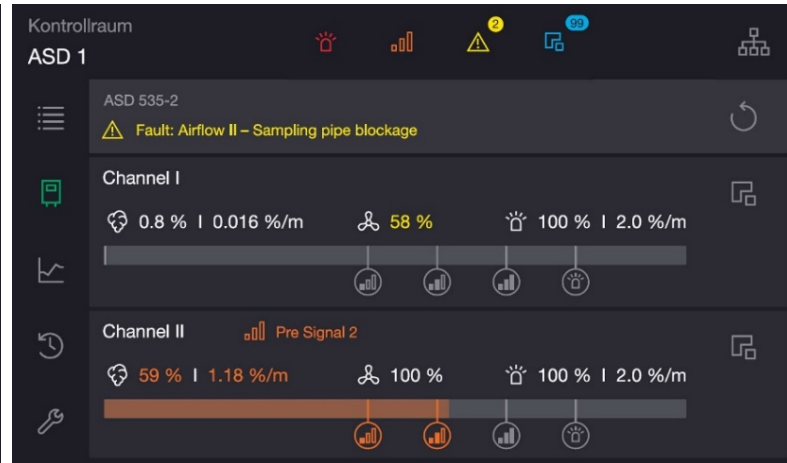
Events

The 50 most recent events of each ASD are buffered on the NCU: Alerts, Alarms, Faults, Interventions, Tests, ...

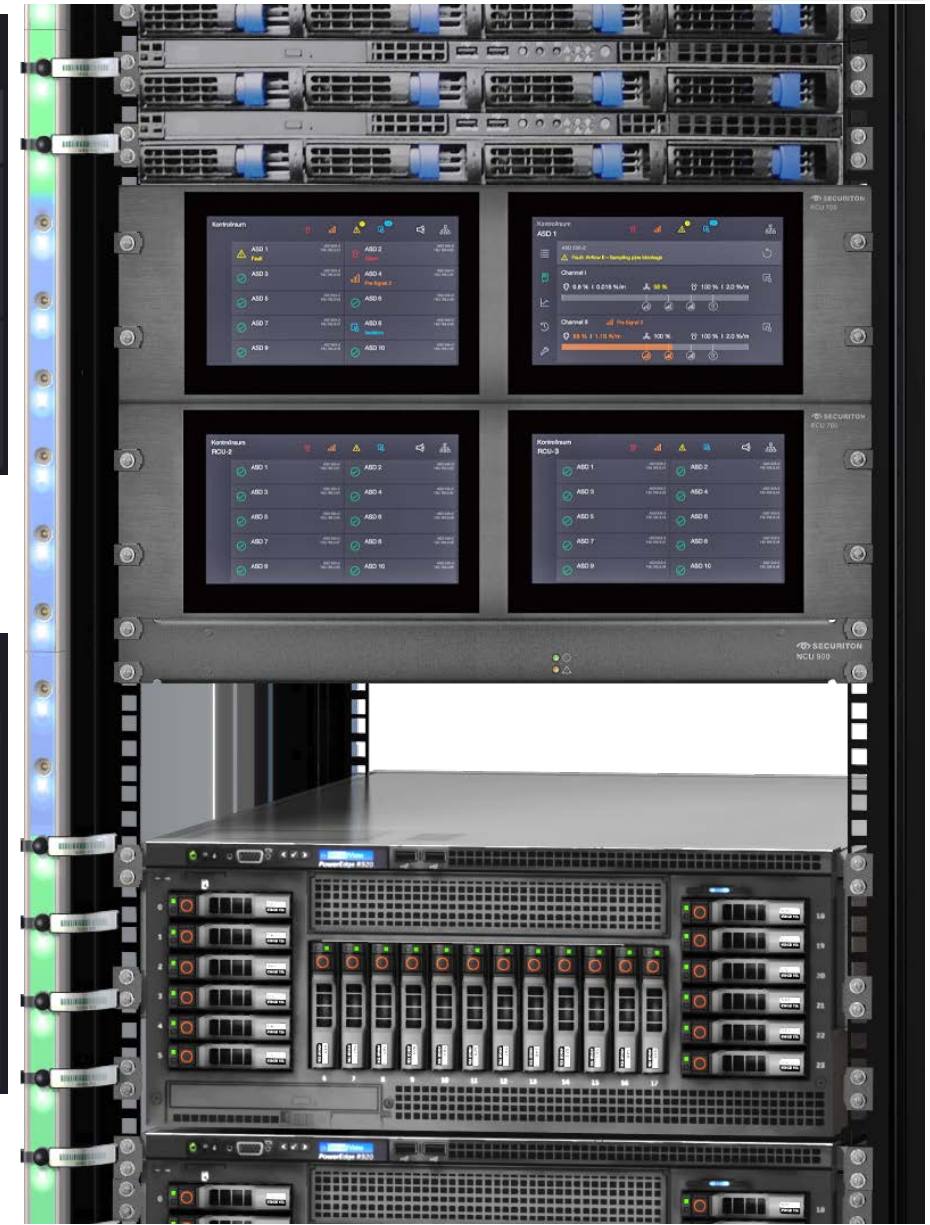




Device List



Dashboard



Trending of Smoke and Airflow

Type	Date	Time	Origin	Event
Warning	04.08.2018	16:36:01	System	Fan: Tacho signal lacking
Info	04.08.2018	16:35:32	System	Test triggering via PC program: Test pre-signal 3
Warning	03.08.2018	11:22:37	Channel I	Smoke sensor I: Pre-Signal 2
Warning	03.08.2018	11:22:01	Channel I	Smoke sensor I: Pre-Signal 1
Info	03.08.2018	11:17:16	Channel I	Smoke sensor I: Isolate switched off
Warning	03.08.2018	11:15:19	Channel I	Smoke sensor I: Isolate switched on
Info	31.07.2018	16:31:48	Channel I	Test triggering via PC program: Test pre-signal 2
Info	30.07.2018	14:02:16	Channel I	Smoke sensor I: Isolate switched off

Events

ASD Pipeflow 2.2.1

File Edit View Project Part / branch Report Misc Help

Material filter: All

Integrated Parts Catalogue

- Tubes & flexible hoses
 - (TU 25 PVC) Sampling tube D=25 mm
 - (FT 21 PA) Flexible tube D=21.2 mm P...
 - (FH 25 PVC) Flexible hose D=25 mm P...
 - (TU 25 ABS) Sampling tube D=25 mm
 - (TU ID 24) Sampling tube inner diamete...
 - (TU 3/4 ABS) Sampling tube D=3/4" (C...
 - (TU 3/4 PVC) Sampling tube D=3/4" (C...
- Bend / angle
 - (BE 25 PVC) Bend 90° D=25 mm PVC
 - (BE 25 ABS) Bend 90° D=25 mm ABS
 - (BE ID 19) Bend 90° inner diameter = 1...
 - (AN 25-90 PVC) Angle 90° D=25 mm P...
 - (AN 25-90 ABS) Angle 90° D=25 mm A...
 - (BE 3/4 PVC) Bend 90° D=3/4" (27mm...
 - (AN 3/4-90 ABS) Angle 90° D=3/4" (2...
- T-piece
 - (TP 25 PVC) T-piece D=25 mm PVC
 - (TP 25 ABS) T-piece D=25 mm ABS

Sensor Settings

Necessary smoke sensor sensitivity [%/m] to fulfill EN 54-20 class:

Sensor I Class C: 1.331 B: 0.232 A: 0.079 Sensor II Class C: 0.952 B: 0.166 A: 0.056

Fan level: III

Smoke sensor I / II:

Overall sampling tube length:	19.10	11.50
Longest sampling branch:	19.10	7.50
Number of sampling points:	5	7
Max transport time:	38	18

Key parameters of the System

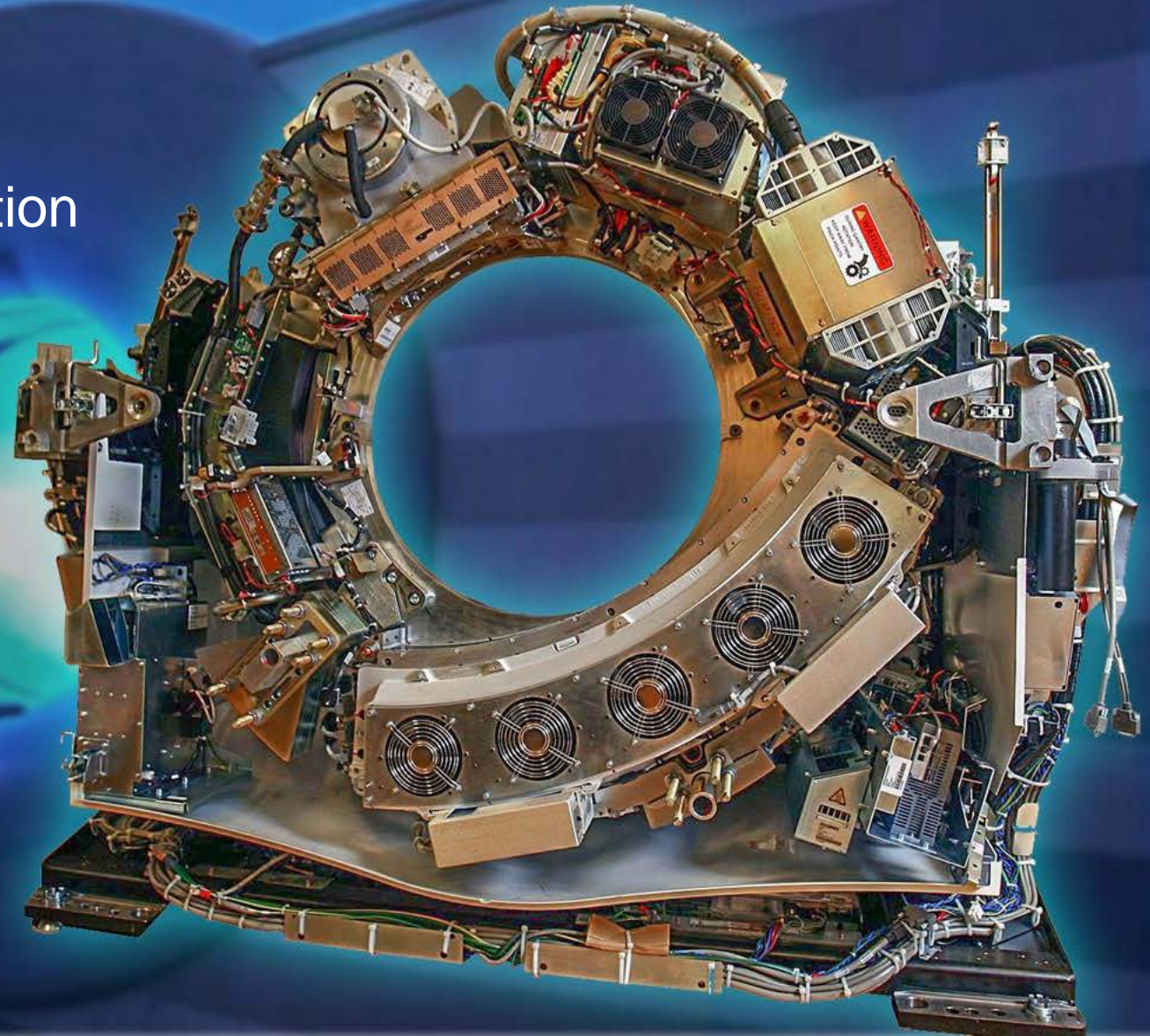
Parameters per Sampling Point

Tube Elements

1	2	3	4	5	*	Part	Description	Rel. length	Total length	class C [%/m]	class B [%/m]	class A [%/m]	P [Pa]	ø	t [s]	Airflow [l/s]	SP type	Cap. length	Comment
						A12 - 2	-2- Sampling point /	2.40	11.70	6.650	1.160	0.390	233	2.00	14	0.07	Clip		
						A12 - 3	-3- Sampling point /	2.40	14.10	6.660	1.160	0.400	232	2.00	19	0.07	Clip		
						A12 - 4	-4- Sampling point /	2.40	16.50	6.670	1.160	0.400	232	2.00	25	0.07	Clip		
						A12 - 5	-5- Sampling point /	2.40	18.90	6.670	1.160	0.400	231	2.50	38	0.07	Clip		
						B1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.50	0.50						0	0.46			
						B2	(BE 25 PVC) Bend 90° D=25 mm PVC	0.50	0.50										
						B3	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	0.60	1.10										
						B4	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	2.40	3.50										
						B5	(TP 25 PVC) T-piece D=25 mm PVC	3.50	3.50										
						B5.A1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	4.00	7.50										
						B5.A1 - 1	-1- Sampling point /	0.20	3.70	6.650	1.160	0.390	237	2.00	4	0.07	Clip		
						B5.A1 - 2	-2- Sampling point /	1.20	4.90	6.660	1.160	0.400	236	2.00	6	0.07	Clip		
						B5.A1 - 3	-3- Sampling point /	1.20	6.10	6.670	1.160	0.400	236	2.00	9	0.07	Clip		
						B5.A1 - 4	-4- Sampling point /	1.20	7.30	6.670	1.160	0.400	236	2.50	15	0.07	Clip		
						B5.B1	(TU 25 PVC) Sampling tube D=25 mm PVC, l=5 m	4.00	7.50										

Screen width: 14.06 m Units: metre / millimeter

✓ Easier Integration



83 days event recording

- ✓ Smoke Level
- ✓ Airflow Values
- ✓ 1 Sample per Second

640'000 Events

- ✓ **Pre-Alarms & Alarms**
- ✓ **Faults**
(Sensor, Airflow, Tube, Interface, SD Card, ...)
- ✓ **Interventions**
(ON, OFF, Reset, Test, Config. Changes, ...)
- ✓ **Time Stamp**

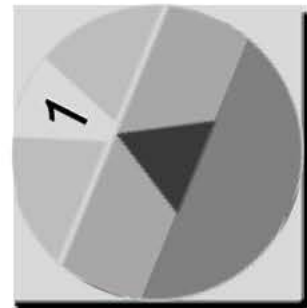




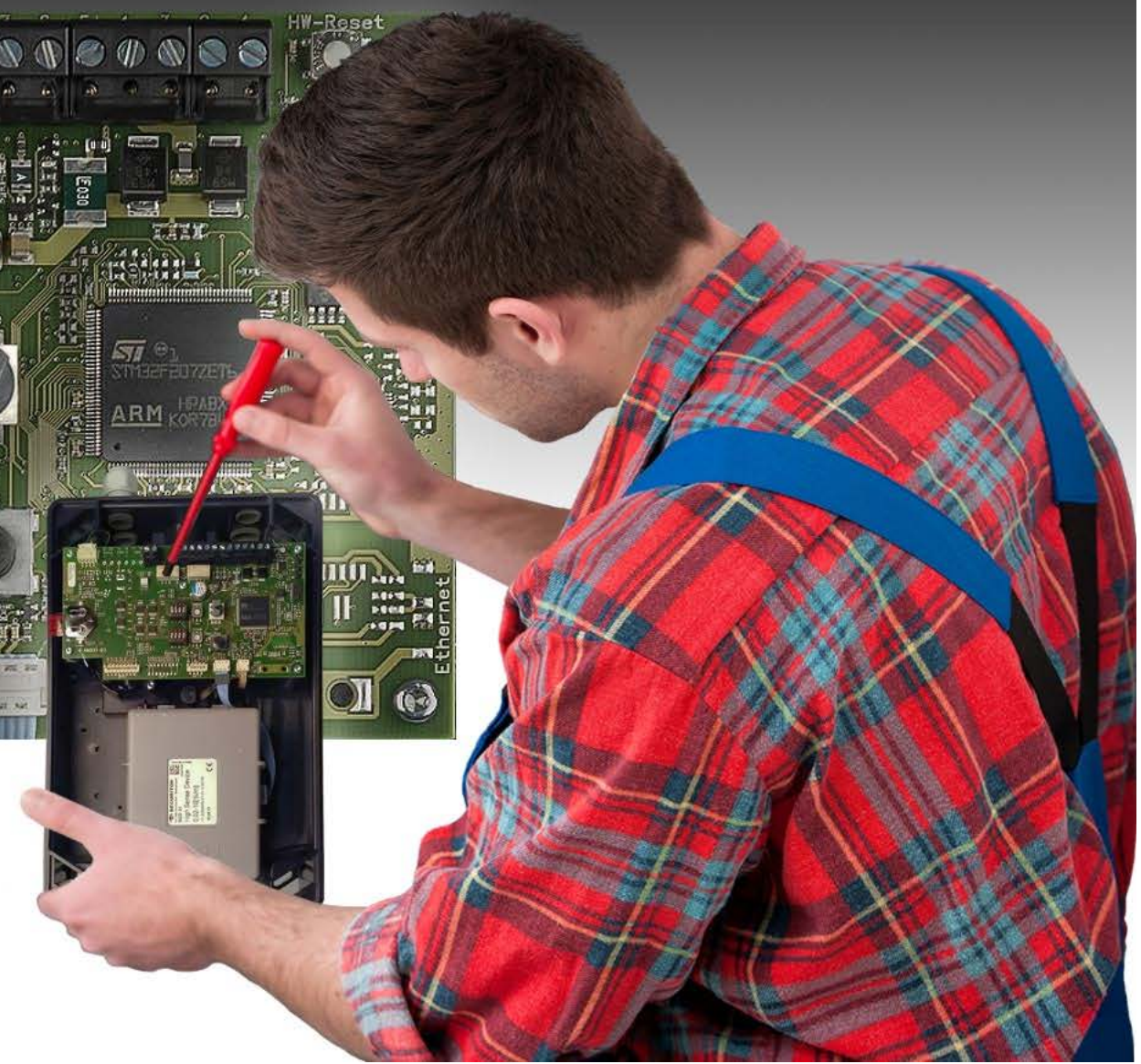
① Select Holes



② Select Class



③ Select Mode



The sticker says it all ...



Commissioning

without PipeFlow calculation

(symmetric tube networks only)

1. Set number of holes (**Holes** switch)
2. Set standard/class (**Class** switch)
3. Initial reset (**Mode** switch on Pos. 0 + *confirm with **Set/Res** button)
4. Set ASD into normal operation (**Mode** switch on Pos. 1 + *confirm)
5. Function control (alarm & fault test)

Optional

6. Set airflow tolerance and delay
7. Set relay latching

with PipeFlow calculation

(asymmetric tube networks also)

1. Carry out PipeFlow calculation of planned project
2. Set sensitivity acc. calculation with **Holes** and **Class** switch (see table)
3. Initial reset (**Mode** switch on Pos. 0 + *confirm with **Set/Res** button)
4. Set ASD into normal operation + *confirm
5. Function control (alarm & fault test)

Optional

6. Set airflow tolerance and delay
7. Set relay latching



<https://www.securiton.com/en/manuals/>

Control elements

Holes



Switch settings

- Set number of holes
- Pos. 0 Default (no function)
- Pos. 1–C Positions according no. of holes (A=10, B=11, C=12)

Class



Switch settings

- Set standard & class
- Pos. 0: Default (no function)
- Pos. 1: Sensitivity range 1
- Pos. 2: Sensitivity range 2
- Pos. 3: Sensitivity range 3
- Pos. A: EN54-20 A/NFPA 75+76 v.e.w. (max. 6 holes)
- Pos. B: EN54-20 B/NFPA 75+76 e.w. (max. 8 holes)
- Pos. C: EN54-20 C/NFPA 72 (max. 12 holes)

Mode



Switch settings

- Set operation mode
- Pos. 0: Initial reset (delivery status)
- Pos. 1: Normal operation
- Pos. 2: Isolate (all outputs blocked for tests)
- Pos. 3: Fault test (3 × Set/Res button)
- Pos. 4: Presignal test (3 × Set/Res button)
- Pos. 5: Alarm test (3 × Set/Res button)
- Pos. 6: Log off extension module
- Pos. 7: ASD off (fan/smoke detector)

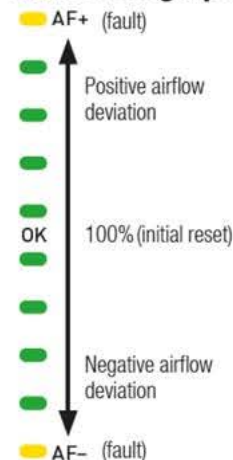
Set/Res



Button function

- Confirmation of position/function on mode switch
- Reset fault/alarm events

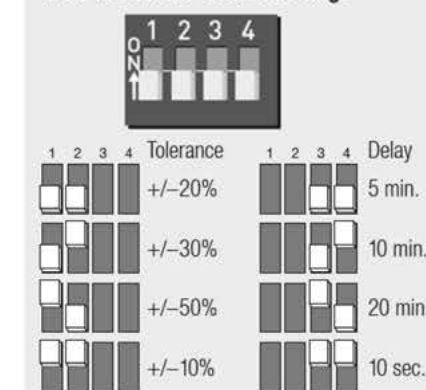
Airflow Bargraph



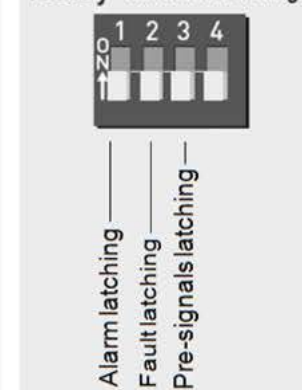
Alarm Sensitivity Table

Holes switch, Pos. 1–F	Set sensitivity Holes & Class switch	Sensitivity range 1 (Class switch pos. 1)	Sensitivity range 2 (Class switch pos. 2)	Sensitivity range 3 (Class switch pos. 3)
	1	10.000	1.202	0.144
2	8.683	1.044	0.125	
3	7.539	0.906	0.109	
4	6.546	0.787	0.095	
5	5.684	0.683	0.082	
6	4.935	0.593	0.071	
7	4.285	0.515	0.082	
8	3.721	0.447	0.054	
9	3.231	0.388	0.047	
A	2.805	0.337	0.041	
B	2.436	0.293	0.035	
C	2.115	0.254	0.031	
D	1.836	0.221	0.027	
E	1.594	0.192	0.023	
F	1.384	0.166	0.020	

Airflow DIP switch settings



Relay DIP switch settings



Commissioning
without Pipeflow calculation
(symmetric tube networks only)

1. Set number of holes (#holes switch)
2. Set standard class (#class switch)
3. Initial reset **Mode** switch on Pos. 0 + "confirm" with **Set/Res** button
4. Set ASD into normal operation **Mode** switch on Pos. 1 + "confirm"
5. Function control (alarm & fault test)

Optional

6. Set airflow tolerance and delay
7. Set relay latching

with Pipeflow calculation
(symmetric tube networks also)

1. Carry out Pipeflow calculation of planned project
2. Set sensitivity acc. calculation with **Holes** and **Class** switch (see table)
3. Initial reset **Mode** switch on Pos. 0 + "confirm" with **Set/Res** button
4. Set ASD into normal operation + "confirm"
5. Function control (alarm & fault test)

Optional

6. Set airflow tolerance and delay
7. Set relay latching

<http://www.securiton.com/en/manual/>

Control elements

Holes
Switch settings
Pos. 0: Default (delivery status, no function)
Pos. 1-C: Position, according no. of holes (A=10, B=11, C=12)

Class
Switch settings
Pos. 0: Default (no function)
Pos. 1: Sensitivity range 1
Pos. 2: Sensitivity range 2
Pos. 3: Sensitivity range 3
Pos. A: EN54-20 A/NFPA 75-76 via w. (max. 6 holes)
Pos. B: EN54-20 B/NFPA 75-76 via w. (max. 8 holes)
Pos. C: EN54-20 C/NFPA 72 (max. 12 holes)

Mode
Switch settings
Pos. 0: Set operation mode
Pos. 0: Initial reset (delivery status)
Pos. 1: Normal operation
Pos. 2: Isolate (all outputs blocked, for tests)
Pos. 3: Fault test (3 x Set/Res button)
Pos. 4: Pre-alarm test (3 x Set/Res button)
Pos. 5: Alarm test (3 x Set/Res button)
Pos. 6: Log off extension module
Pos. 7: ASD off (fire/smoke detector)

Button function
- Confirmation of position/
- function on mode switch
- Reset fault/alarm events

Alarm Sensitivity Table

Holes & Class switch	Sensitivity range 1 (Class switch pos. 1)	Sensitivity range 2 (Class switch pos. 2)	Sensitivity range 3 (Class switch pos. 3)
1	10.000	1.200	0.144
2	8.683	1.044	0.125
3	7.539	0.906	0.109
4	6.546	0.787	0.095
5	5.684	0.683	0.082
6	4.935	0.593	0.071
7	4.285	0.515	0.062
8	3.727	0.447	0.054
9	3.251	0.388	0.047
A	2.855	0.337	0.041
B	2.436	0.293	0.035
C	2.113	0.254	0.031
D	1.858	0.221	0.027
E	1.594	0.192	0.023
F	1.364	0.166	0.020

Airflow Bargraph
AF+ (fault)
Positive airflow deviation
100% (initial reset)
OK
Negative airflow deviation
AF- (fault)

Airflow DIP switch settings

Sw. 1	Sw. 2	Sw. 3	Sw. 4	Sw. 5	Sw. 6	Sw. 7	Sw. 8
0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12

Relay DIP switch settings

Sw. 1	Sw. 2	Sw. 3	Sw. 4	Sw. 5	Sw. 6	Sw. 7	Sw. 8
0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12

Alarm latching
Fault latching
Pre-alarm latching



<http://www.Securiton.com/en/manuals>



Simple 3-Step Setup

Web Manual



Ready for Distribution

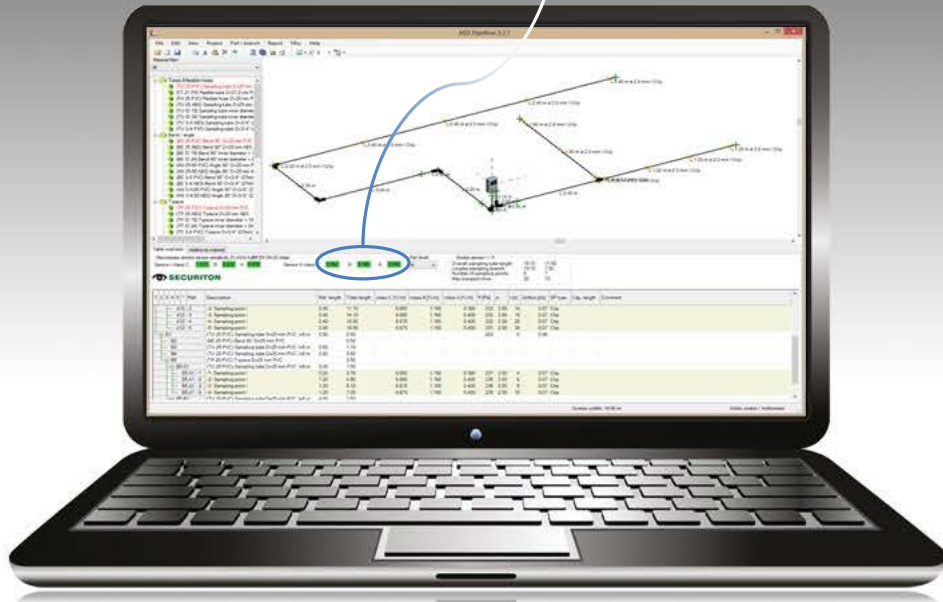


Cover Guide



A: 0.079 B: 0.232 C: 1.331

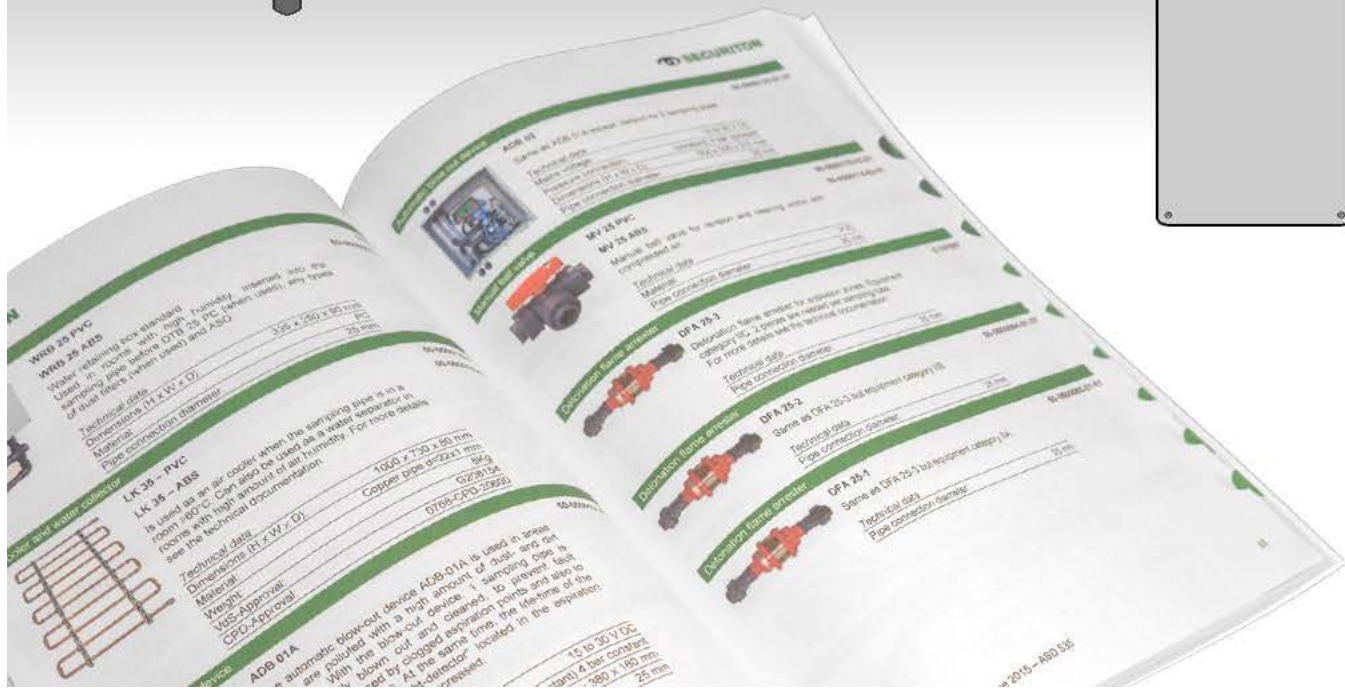
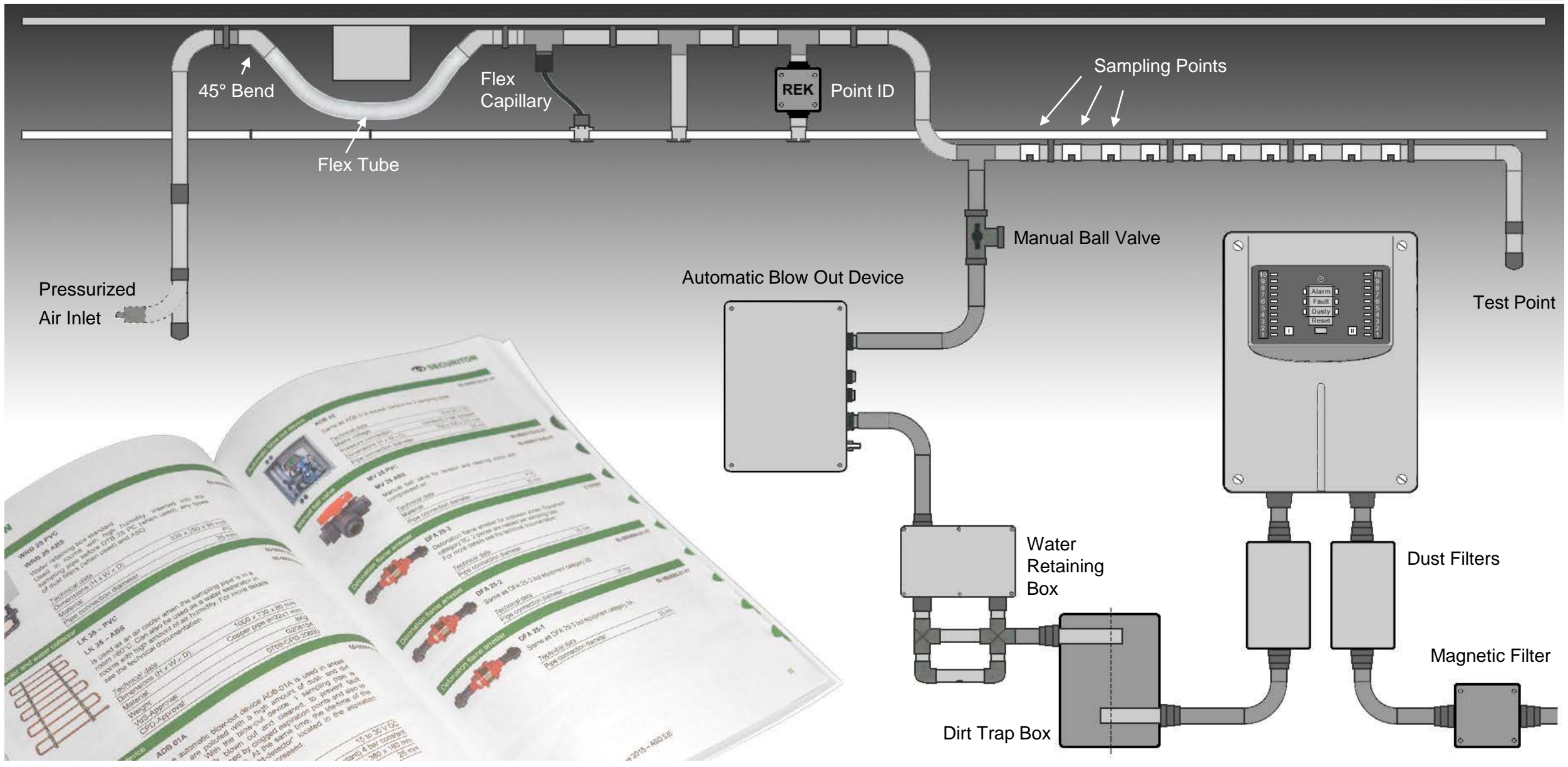
Engineering: ASD PipeFlow



Holes switch	Class switch pos. 1	Class switch pos. 2	Class switch pos. 3
1	10.000	1.202	0.144
2	8.683	1.044	0.125
3	7.539	0.906	0.109
4	6.546	0.787	0.095
5	5.684	0.683	0.082
6	4.935	0.593	0.071
7	4.285	0.515	0.082
8	3.721	0.447	0.054
9	3.231	0.388	0.047
A	2.805	0.337	0.041
B	2.436	0.293	0.035
C	2.115	0.254	0.031
D	1.836	0.221	0.027
E	1.594	0.192	0.023
F	1.384	0.166	0.020



☑ 40% longer Tubes



- Class A Sensitivity
- Relay Output
- Indicator

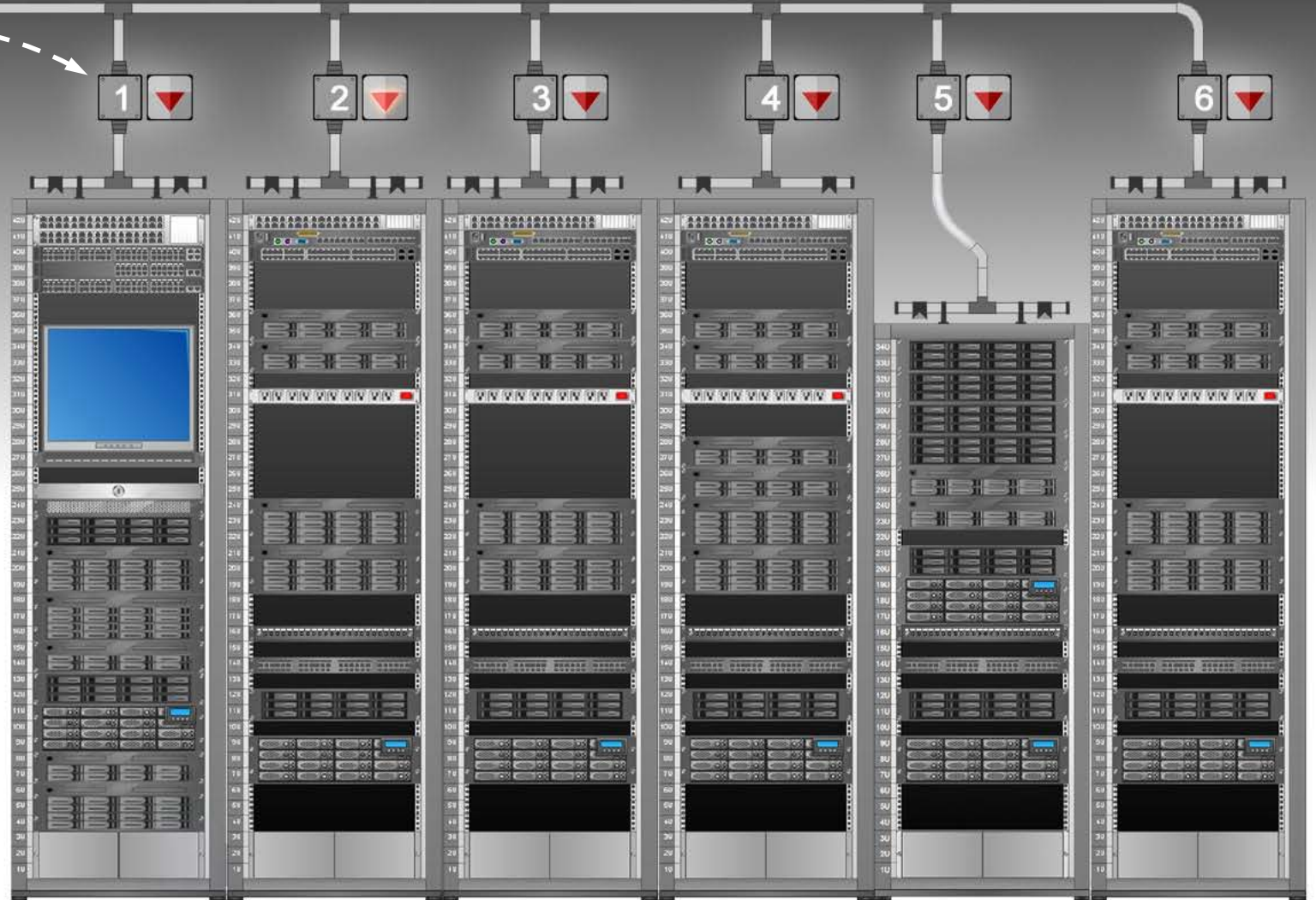


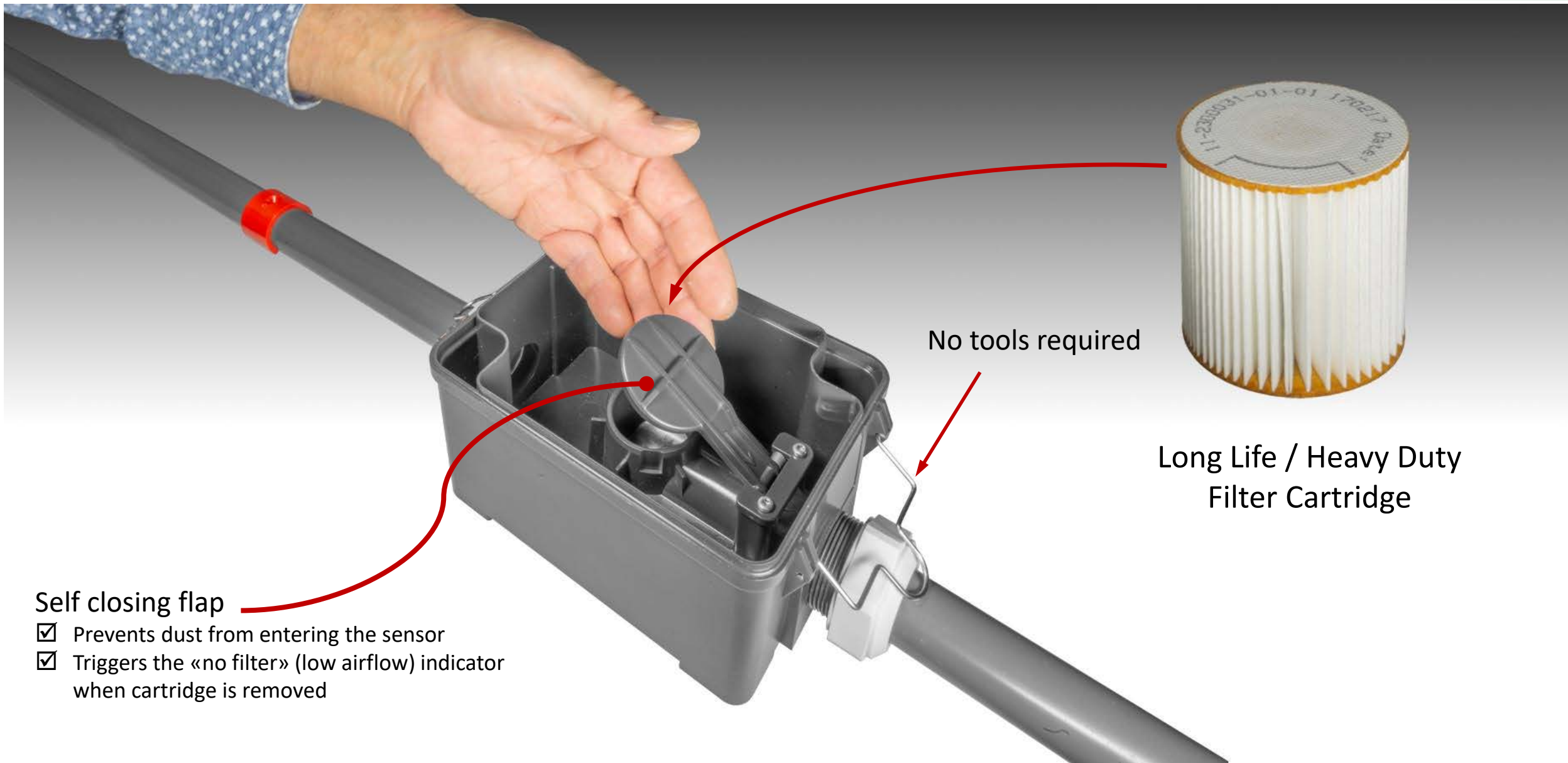
REK 511



Detector Choice

- SSD 515-1S 1.2%
- SSD 515-3S 0.3%





No tools required

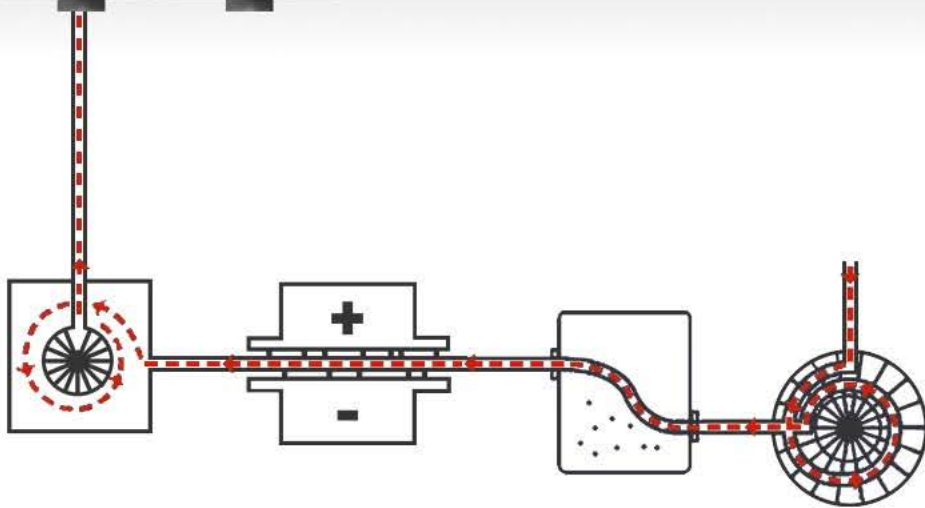
Long Life / Heavy Duty
Filter Cartridge

Self closing flap

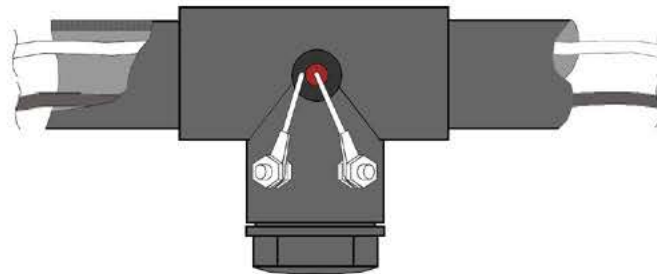
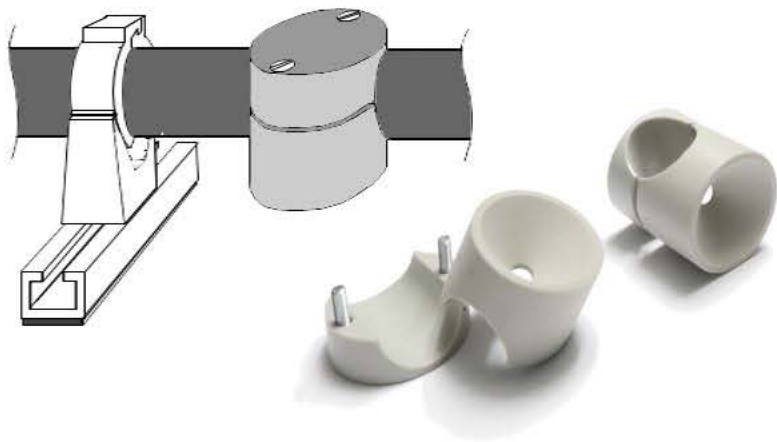
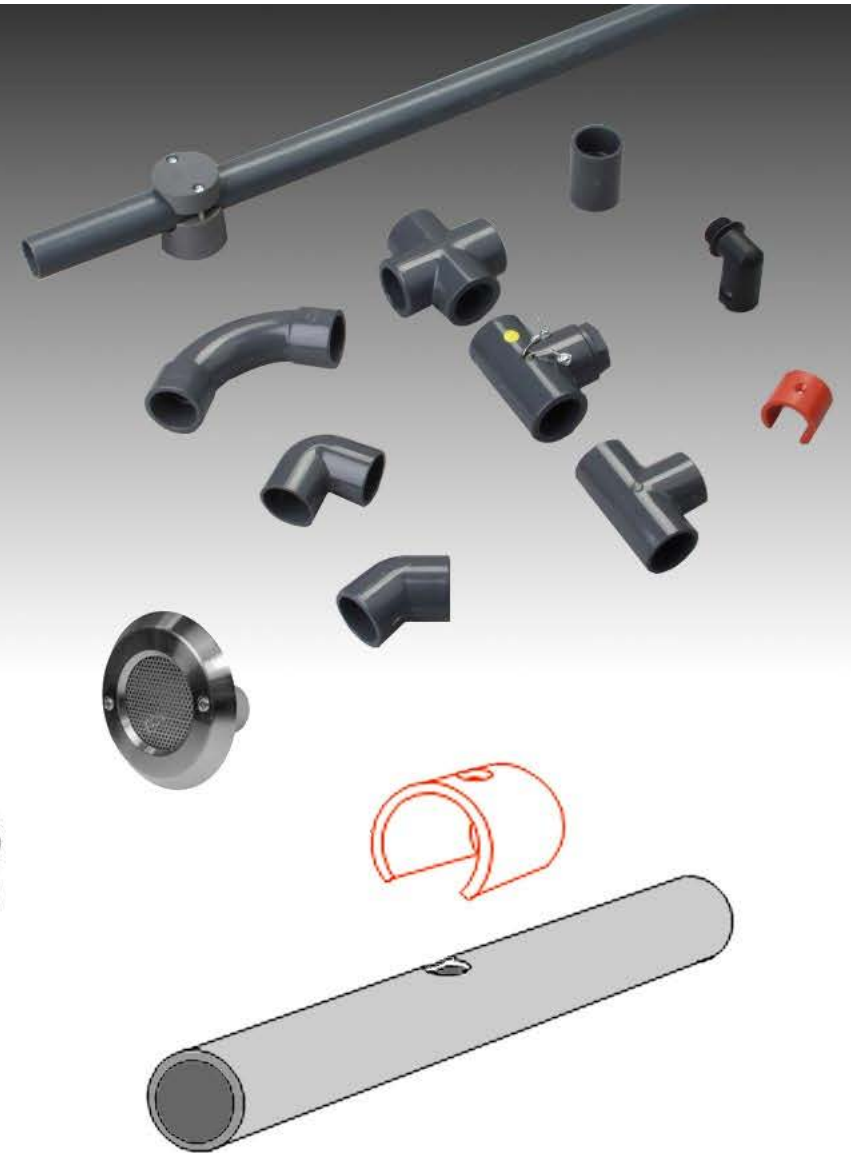
- ☑ Prevents dust from entering the sensor
- ☑ Triggers the «no filter» (low airflow) indicator when cartridge is removed



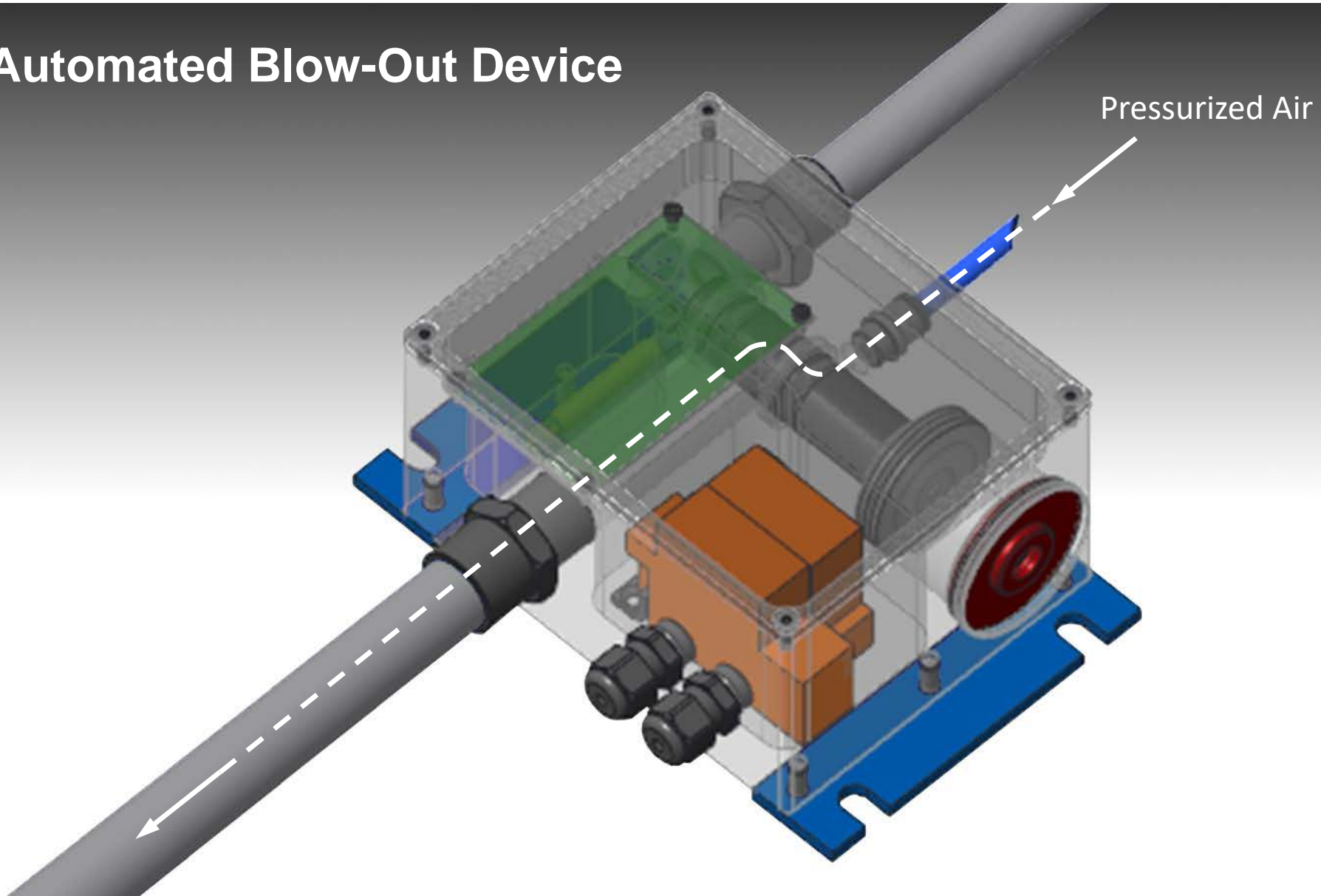
- ✓ Dirt
- ✓ Moisture
- ✓ Dust
- ✓ Sparks



- ✓ Optimized Performance
- ✓ Easy Maintenance
- ✓ Simplified Modification



Automated Blow-Out Device

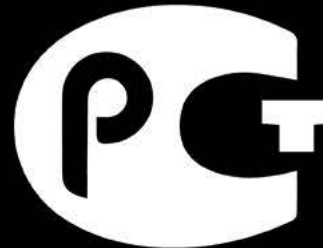




		ASD 531	ASD 532	ASD 533	ASD 535-1 / -3	ASD 535-2 / -4	ASD 535-HD
Ethernet (on board)	TCP/IP	n/a	included	n/a	n/a	n/a	n/a
Serial (SLM 35)	RS 485	n/a	optional	n/a	optional	optional	optional
Loop (XLM 35)	SecuriLine	optional	optional	optional	optional	optional	optional
Relay Output (RIM 3x)	5 Relays	optional	optional	optional	optional	optional	optional
Data Logger (MCM 35)	SD I/F	included	included	optional	optional	optional	optional

Quality Assurance On all levels

- Product
- Production
- Company





BIM components

- ✓ 3D: Autodesk Revit RFA
- ✓ 2D: Autodesk AutoCAD DWG



Photorealistic Rendering

BIM and digitization in the construction industry



The term Building Information Modelling (BIM) describes a method whereby the entire life cycle of a building is conducted in the digital domain. An important aspect under BIM is the creation of a digital twin of the building to be constructed. Under a BIM scenario, the physical construction process begins only when the virtual building (i.e. its digital twin) meets all the expectations and specifications. It follows that the digital twin also requires BIM equivalents of all the components used in the building. These include not only structural components such as doors and windows, but also systems such as heating and ventilation, and safety/security equipment.

BIM @ Securiton

Engineers and architects in large parts of the world are making increasing use of BIM. Since 2016, the EU Commission has recommended that the EU's 28 member states use BIM for public-sector construction projects. The issue of BIM and digitisation in the construction process is growing in importance in Switzerland, too. Securiton offers digitisation support by providing downloadable BIM components for its products: a corresponding online platform has been provided for our customers for this purpose. Our BIM components help architects, planners, system integrators, building owners and facility managers to optimise their work processes.



Strength	Benefit	Proof
Large Area Coverage	Less units, less installations and less battery backup, less maintenance ... for same achievement	Strong Aspirator + High Sensitivity
High Sensitivity	<ul style="list-style-type: none"> ● Maximum number of sampling points ● Earliest possible warning 	0.002%Obs./m is top in tis industry!
Operating Temperature	<ul style="list-style-type: none"> ● Less installation costs ● No heating of sampled air and the related mains or battery power 	Operates at a temperature as low as -30°C
Robustness	<ul style="list-style-type: none"> ● Zero downtime ● Resists moisture / splashes 	<ul style="list-style-type: none"> ● IP 54 ● Shocks of 5G ● MTBF > 10 Years
Silent	No noise wherever installed	Less than 43dBA
Networking	<ul style="list-style-type: none"> ● Easy to do maintenance ● Computer based tracking 	<ul style="list-style-type: none"> ● Up to 250 units ● Up to 1km
Engineering	<ul style="list-style-type: none"> ● Less units for same achievement ● Free choice of tube topology 	3D design software using scientific formulas for airflow calculations

Challenges:

Early Warning Fire Detection
at highest possible level of
sensitivity and false alarm
immunity

Solution:

102 SecuriFire 3000
redundant / failsafe hardware

1500 ASD 535
Aspirating Smoke Detectors

... in a redundant network



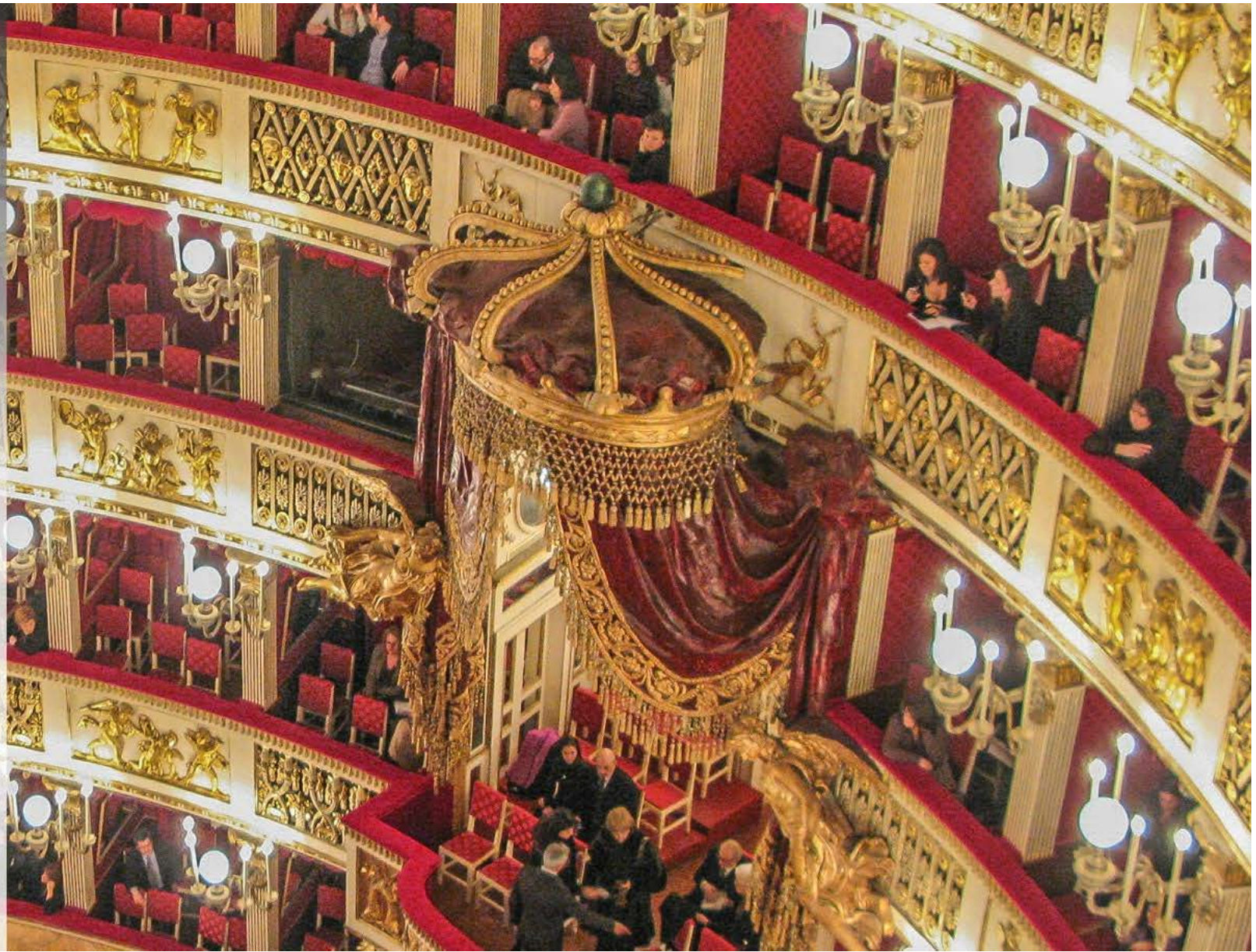
Challenge:
Very high pollution

Solution:
12 Aspirating Systems
24 High Sensitivity Sensors
24 Extra Large Filters



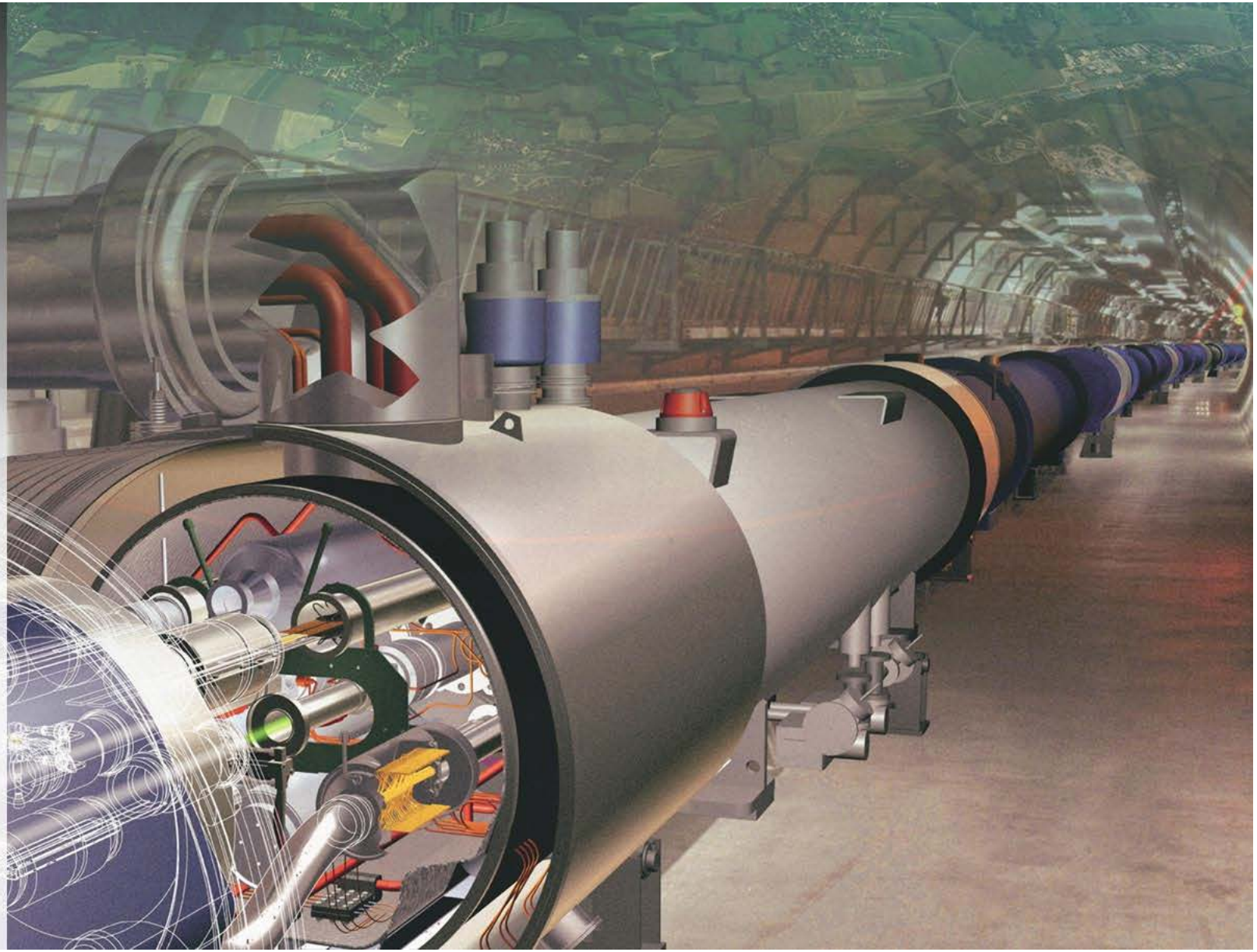
Challenge:
Stratification
(Large Open Space)

Solution:
Aspirating systems with
vertical tubing



Challenges:
Early Warning and
large area (Long Tubes)

Solution:
Aspirating systems
featuring high aspiration
power combined with
high sensitivity sensors



Challenges:
Low Temperature (-30°C)
Stratification (Large open space)

Solution:
Aspirating system
placed within the deep-
freeze zone featuring
vertical tubing and de-
icing (heated sampling points)



Challenges:

- Stratification (Large open space)
- Early Warning
- Large Area of 50'000m²

Solution:

30 Aspirating Systems
60 High Sensitivity Sensors
Vertical Tubing
High Aspiration Power



Challenges:
Aggressive Gases (Ammonia)
Polluted Air
Large Area

Solution:
Aspirating system
featuring coated
components, large filters
and high aspiration
power



Challenges:
Maintenance Cycle
Shocks
Flammability
Interfacing

Solution:
2 Aspirating systems per
coach fixed on a frame
for easy maintenance

