Where sensitivity meets reliability

SecuriRAS ASD 535 aspirating smoke detector

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Detecting danger with reliable precision

Performance and quality make all the difference.

The SecuriRAS ASD 535 aspirating smoke detector stands out by virtue of its unrivalled performance capability, which allows it to monitor vast areas with the utmost reliability. More than 400 Pa of aspirating underpressure generates the necessary power, which means the ASD 535 has one of the most powerful fans on the market.

The ever-alert early warning system against fires is capable of monitoring surface areas of up to 5000 m². Available as a single-sensor and two-sensor device it analyses the airflow from two sampling pipes independently.

Up to 400 metres of sampling pipe can be connected up to each smoke sensor, providing a maximum total of 120 sampling points. When it comes to the quality of the ASD 535, Securiton is uncompromising: in accordance with MIL-HDBK-217 F the aspirating smoke detector is designed for a very long service life, even when operating under difficult ambient conditions. Developed in Switzerland and manufactured in Germany the detector is particularly reliable and robust.

A combination of sensitivity and speed.

In terms of smoke concentration the alarm sensitivity of the HD (high dynamic) smoke sensor SSD 535 ranges from 0.002%/m to 10%/m. This is equivalent to the sensitivity spectrum of a laser-based detector. In the extra-large LVSC (large-volume smoke chamber) measuring chamber the sensor permanently analyses the airflow with a high-power LED using tried-and-tested scattered light technology. It meticulously detects even the slightest increases in smoke concentration. Each smoke sensor monitors an airflow so it is able to spot any deviation in the airflow and detect any pipe breakages or any blockages of the sampling holes.

Five alarm levels can be programmed within the sensitivity range of 0.002%/m to 10%/m, so you have the peace of mind that each monitored zone obtains precisely the right level of protection for the prevailing ambient conditions. With dangers and hazards detected this precisely, any necessary intervention is totally focused and extremely swift.

The ASD 535 – because performance counts:

- Split-second, highly sensitive reaction to incipient fires
- Allows superfast intervention
- Up to 5000 m² of monitored area thanks to high sampling performance and two independent sampling tube networks
- Designed and developed in Switzerland, made in Germany
- Robust and with a very long service life

The ASD 535 – because sensitivity counts:

- Alarm sensitivity from 0.002%/m (measurement resolution < 0.001%/m)
- Scattered light technology with high-power LED
- As sensitive as a laser – but with a longer service life and a greater temperature range
- Five alarm levels for environment-based detection

Immune to disruptive factors

Robust and reliable, even in the toughest environments.

Frosty conditions? The SecuriRAS ASD 535 won't even sneeze. Hot conditions? No sweat – the ASD 535 carries on working without complaining. These robust aspirating smoke detectors can be deployed at temperatures ranging between –30 °C and +60 °C – retaining their full functional efficiency at all times. The device is mounted directly in the deep-freeze zone, with the sampling points automatically heated if required to thaw out any sampling points that may become iced up. If you're not willing to put on a thick anorak to configure the ASD 535, you can carry out the configuration remotely and conveniently using the optional network link.

Dusty, steamy or dirty conditions? It makes no difference to the ASD 535. The extensive range of accessories includes various dust filters, water-retaining boxes and other aids. And with its patented lint filter it suppresses even the finest dust particles otherwise likely to hamper the detection process. Thanks to its optimised aerodynamic measuring chamber, the detector is also immune to dust deposits. It cleans its tubes itself using automatic blow-out devices. And the choice of tube material is determined by the individual requirements on site.

The ASD 535 is a tough customer:

- –30 °C to +60 °C: permissible temperature range
- Immune to disruptive factors such as dust, lint, steam or dirt
- Reliable detection in difficult environments
- Protection against false alarms

Quiet and discreet – the perfect sentinel.

Although the ASD 535 is equipped with a high-performance fan, it is whisper quiet. In fact, it's one of the quietest aspirating smoke detectors on the market. It stands out by virtue of its extremely low noise levels (32 dBA), making it compliant with ISO standard 11690-1 for the design of low-noise workplaces containing machinery.

Aesthetically the ASD 535 is also very subtle and discreet. Once installed in hollow spaces the sampling tubes are completely invisible, and flush-mounted sampling points are often 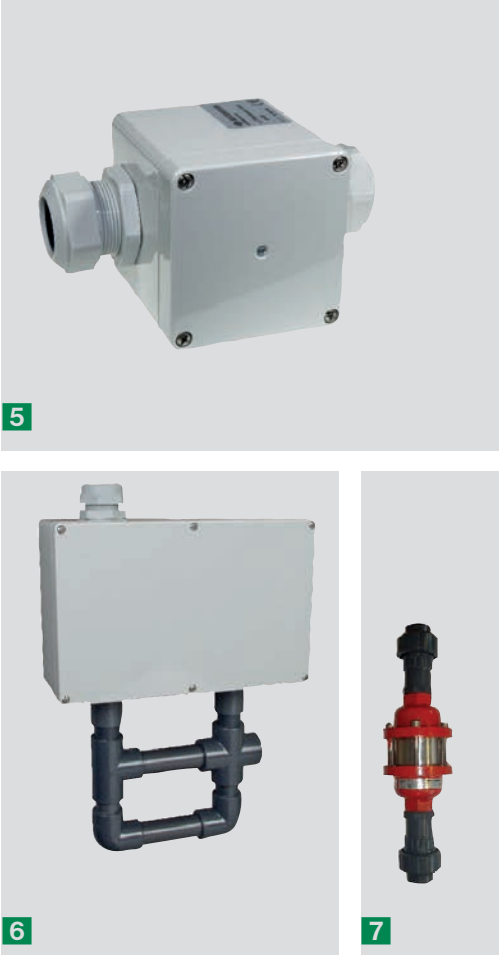imperceptible. The installation is carried out with the highest possible level of adaptation to the surroundings in question. The sampling pipe can be laid out asymmetrically, which means it blends seamlessly into the structure of the building, eliminating the need for long sampling tubes and reducing your costs, too.

The ASD 535 – never an eyesore (or an earsore):

- 32 dBA: extremely low noise levels
- No soundproofing measures required
- Practically invisible installation
- Simple to integrate into existing architecture

Project planning in simple and logical steps

Efficient and optimised – complete control over complexity.

The ASD PipeFlow calculation software is there to assist you with complex installations requiring, for example, asymmetrical sampling tube networks. It lets you plan your system in simple and logical steps to offer you maximum benefits while complying with the relevant standards. With its practical optimisation function the ASD PipeFlow software always looks for the ideal balance for the sampling tube network so each sampling point has the same sensitivity. What's more, all the accessories for the sampling pipe are integrated in the sampling pipe. The parts lists are compiled automatically, and all the project data for the installation and configuration is printed out simply by clicking a button.

If you're configuring and commissioning a simple system, EasyConfig ideally assists you directly on the device. All you need to do is enter the parameters defined according to the planning specifications. No PC is required.

For application-specific adaptations use the practical ASD Config software tool. Its extensive analysis functions and setting options provide you with valuable information for the safe, cost-effective operation of your system.

Tried-and-tested and comprehensive – the range of accessories.

Quality down to the very last detail: Securiton excels at security technology – with more than 60 years of experience backed up by unique know-how. For you this consistent approach certainly pays dividends, particularly when it comes to the extensive range of accessories. Every article has VdS approval.

Additional modules
- For data logging (analogue values and event memory expansion)
- For connecting to the SecuriLine addressable loop
- For RS-485 networking
- For additional relay outputs (up to 10 items)

Different types of sampling tubes
- PVC, ABS, stainless steel, copper, flex hose, capillary tubes

Application-specific sampling points
- Clips of different diameters
- False-ceiling kit
- Sampling funnel for property monitoring
- For laying in concrete

Aids for use in soiled or damp environments
- Various dust filters and dirt trap boxes
- Water-retaining box
- Automatic blow-out devices
- Air cooler/heater

Accessory for explosion-proof applications
- Flame arresters
- Auxiliary housing for personal protection

The ASD 535 – making what's complex simple:

- ASD PipeFlow software for efficient planning
- VdS-approved software for optimised solutions
- EasyConfig for simple commissioning without PC
- ASD Config software tool for complete device setup and analysis functions

1	PVC (standard application)
2	ABS (halogen free)
3	Stainless steel (for the food industry)
4	Copper (high temperatures and explosion-proof application)
5	Various dust filters and dirt trap boxes
6	Water-retaining box
7	Flame arresters