



«Smoke means an immediate alarm.»

SecuriRAS® ASD 535 aspirating smoke detector with HD sensor

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«Sensitivity is good – but only in the right measure.»

Being responsible for protecting human lives and major property assets means having to remain alert – with the ability to differentiate between real and false threats. Presenting Securiton's ASD 535, the new generation of SecuriRAS® aspirating smoke detectors is designed to meet these demands. The ASD 535 is the most far-reaching development to emerge from an instance of fire detection technology that has been reliably and successfully deployed over the last 40 years.

The ASD 535 continuously aspirates air through a sampling pipe installed in the monitored rooms or premises and conveys it to the smoke sensor. This sensor – equipped with new HD (High Dynamic) technology – checks the air for smoke particles with an unsurpassed level of precision. If the preset particle threshold is exceeded, the detector immediately sends an alarm signal to the fire alarm system and the fire brigade. Thanks to this early warning system, an incipient fire is nipped in the bud before it has time to develop any heat.

«Plus points that keep you out of the red.»

A single spark can be enough to start a fire and cause a company or institution severe financial hardship. To stop this happening, we conducted extensive research to bring our proven aspirating smoke detection system to perfection: HD (High Dynamic) technology. HD technology signifies that the smoke sensor of the ASD 535 sports dynamic temperature and impurity compensation (particle suppression), and that the system supports a virtually unlimited range of applications due to the new LVSC (large volume smoke chamber). This is because the sensor combines maximum and scalable sensitivity with optimum resistance – it detects even the smallest quantity of smoke. Moreover, the LVSC has been optimised aerodynamically to boost detection reliability and improve the service life of the detector.

Superb aspiration: the aspirating smoke detector can also be relied on to monitor large areas. This is due to the improved aspiration performance of the fan, thanks to which the system is able to accommodate two long sampling pipes. Moreover, performance can be precisely adjusted, a feature that reduces power consumption and improves the fan's service life.

Quiet and discreet: with its ultra-low noise (32 dBA) and installation that blends effortlessly with any surroundings, the ASD 535 is an unbeatable proposition. Since the sampling pipe can be laid out asymmetrically, the system offers a virtually unlimited range of applications.

The ASD 535 – because performance counts:

- Split-second, highly sensitive response to incipient fires
- Sophisticated smoke detection due to HD sensors (High Dynamic technology)
- Eliminates disturbance variables such as air contamination thanks to new, patented particle suppression
- Autolearning function: adapts automatically to ambient conditions during the commissioning process
- Wide area monitoring owing to enhanced aspiration performance
- Quiet operation, low power consumption
- Straightforward, virtually undetectable installation
- Asymmetrically arranged sampling pipes for maximum flexibility



«The detector – sensitivity that adapts to any environment.»

The brain of the SecurIRAS® ASD 535 is the newly developed SSD 535 smoke sensor equipped with HD technology. Air from one or two independent sampling pipes flows into this scattered light detector; the HD sensor continuously monitors the airflow in the LVSC (large volume smoke chamber) for minuscule increases in particulates, pipe breakages and contamination around the sampling apertures.

The immunity of the SSD 535 smoke sensor to false alarms is legendary: its sensitivity can be fine-tuned to the specific conditions of the monitoring area. Three pre-alarms and one main alarm can be programmed per sampling pipe, with measuring sensitivity ranging from smoke concentrations of 0.002%/m to 10%/m. The smoke level display on the ASD 535 shows the smoke concentration of the sampled air as well as alarm, fault and status messages. Alarm signals are sent within seconds to superordinate fire alarm and security management systems, and from there to the fire brigade and police.

«Sampling pipe system – wide area coverage and undetectable.»

The ASD 535 represents a step change in premises monitoring, with one single system incorporating two separate sampling pipes. Each pipe can have up to 48 sampling apertures and be up to 240 metres in length. To cope with these dimensions, Securiton has deployed the most powerful fan available on the market: boasting a suction pressure of 400 Pa, the fan boosts the volume of monitored air to the maximum, which increases the speed and dependability of detection.

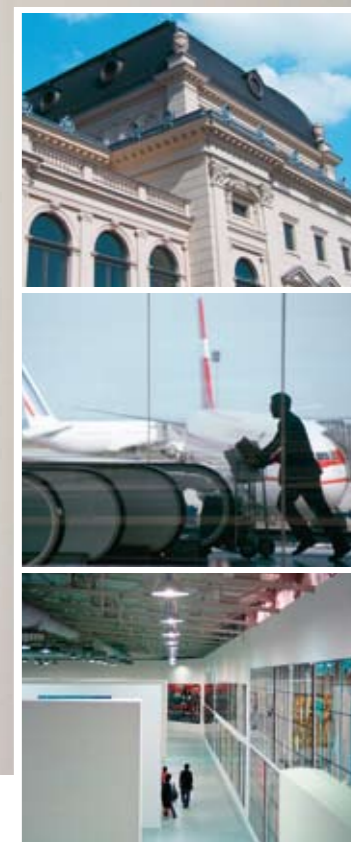
Unparalleled efficiency and discreet presence put the ASD 535 in a class of its own. It can even be made invisible if desired: the sampling pipes and detection units can be elegantly concealed in architecturally sensitive buildings such as theatres, museums and opera houses. Virtually silent operation ensures that no one is disturbed.

The ASD 535 – tested and approved.

VdS-approved

Hardware, planning software and accessory components certified to EN 54-20, class A, B, C

Certified to ISO 11690-1 (for low-noise workplaces)



«Quick installation, tailored programming – convenient precision.»

Effective fire detection is no longer an arcane issue. The Securiton ASD 535 offers both user-friendly operation and straightforward installation, even where the spaces to be monitored are subject to planning constraints. Complex installations requiring asymmetrical sampling pipes benefit from the use of the ASD PipeFlow layout calculation software. Just a few operations with a computer plus ASD Config is all it takes for you to extract maximum value from the system – you will also be complying with applicable standards.

There's no need even for a computer if commissioning a standard installation: the settings can be configured at the device itself using EasyConfig.

Want to record and evaluate monitoring data? No problem – use the optional MCM memory module to make comprehensive, long-term smoke level recordings directly onto an SD card, and then evaluate the data later using a computer. We have a large selection of accessories for special applications: alternative pipes and sampling points, filters, water separators, explosion protection, etc. qualify the ASD 535 as a genuine all-rounder even under extreme conditions.

«Fires stand no chance – no matter where.»

The ASD 535 is a true all-rounder that can be deployed practically anywhere. The highly developed sensitivity and precision of the ASD 535's early warning system is inert to challenging lighting conditions, temperature fluctuations and humidity: when the ASD is commissioned, the Autolearning function automatically adapts the system to challenging ambient conditions and keeps it fully operational around the clock. The Autolearning facility takes on board disturbance variables and scales the device within applicable safety standards. The ASD 535 is your perfect fire guardian for numerous applications.

Space monitoring: high-rack warehouses and distribution centres, archive rooms, intermediate ceilings and raised floors, large halls, museums, galleries, theatres, cinemas, cultural artefact collections, historical buildings, airports, information technology and computer centres, telecommunication centres, laboratory and research centres, electronic measuring rooms, transformer rooms, clean rooms

Property monitoring: telecommunication facilities, high and low voltage distribution cabinets, display cases, IT installations, electricity distribution cabinets, CNC control systems

Invisible applications: protection of cultural assets, prison cells, aesthetically sensitive architecture

One for all – the ASD 535:

High-precision definition of alarm thresholds

Wide detection sensitivity bandwidth

Autolearning function: automatic detection-sensitivity scaling adapts to ambient conditions during commissioning

Immunity to impurities

Continuous self-checking with airflow monitoring

Minimum false alarms