

Farming Application Note



SecuriSmoke SEC-ASD-535-3HD & 4HD / SEC-SSD-535-3CP / SEC-DFU-911S / SEC-ADB-500

The package for farms and greenhouses

The aspirating smoke detectors from Securiton are among the most reliable early warning smoke detection systems available. The SecuriSmoke ASD (Aspirating Smoke Detector) range impresses by its unrivalled performance capability.

Developed in Switzerland and manufactured in Germany, the detectors are particularly reliable and robust.

The SEC-ASD-535-HD versions are specially designed for farms and greenhouses where other detectors are pushed to their performance limits.

New and improved SEC-ASD-535 now available

Tried and tested in agricultural applications over many years, the components of the SEC-ASD-535 were designed with a higher protection class of IP 66 for use in extreme conditions. This makes it possible to deploy the devices also in humid and dusty environments where corrosive elements such as methane and ammonium or even herbicides and pesticides are present. All components have a special protective coating to comprehensively safeguard the electronics. With the addition of the SEC-OPB-911 overvoltage protection board, the SEC-ASD-535 HD can also be used in areas with a higher risk of atmospheric overvoltage (lightning). Besides the new features, the aspirating smoke detector includes the following parts: high-performance fan, air flow sensor, LVSC measuring chamber (large-volume smoke chamber), and high-power LED – all of which have been in use on the market for years.

The SecuriSmoke ASD Heavy Duty is available in two versions.

- SEC-ASD-535-3HD; the robust 1-channel version with level indicator.
- SEC-ASD-535-4HD; the robust 2-channel version with level indicator.

SEC-SSD-535-3CP

Alongside with the filter, a very important link in the chain is the smoke-sensing device you can trust. Over the years we have successfully used a coated print version of the high sensitive smoke sensor.

The product is now readily available as an intrinsic part of fire detection to be used in farms and greenhouses.

SEC-DFU-911S

The SEC-DFU-911 dust filter unit was further developed for use in extreme applications and fitted with a special flap. The new SEC-DFU-911S filter detects whether a filter cartridge is inserted or not. If the filter cartridge is missing, an air flow fault is triggered. While the filter cartridge is being replaced, the flap prevents dirt from entering the sampling pipe and eventually the detector. Thanks to the fact that the filter is external changing the filter cartridge is done without opening the detector housing thus saving your valuable time and protecting the detector.

SEC-ADB-500

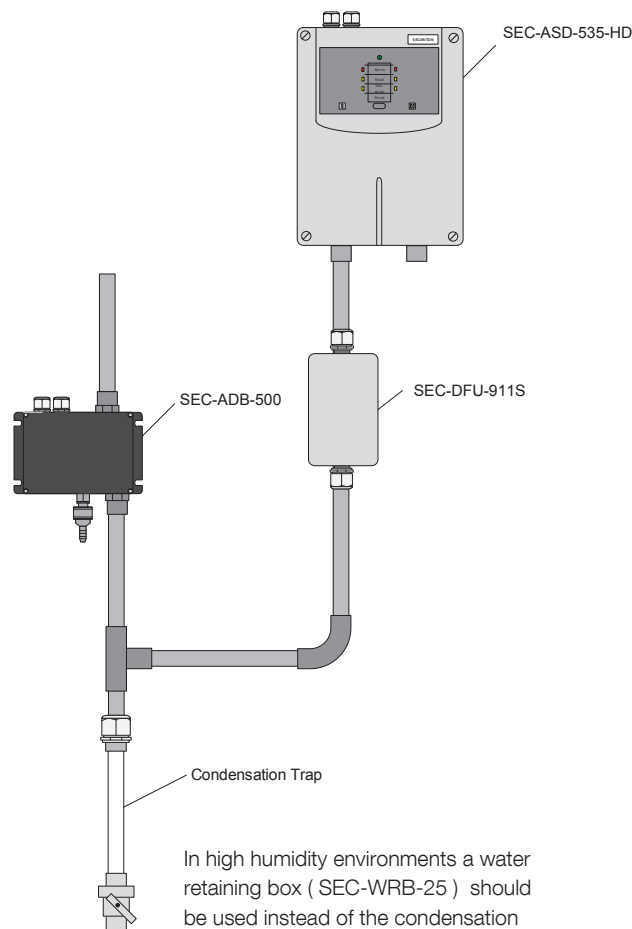
For environments with very high dust exposure, we recommend the SEC-ADB-500 automatic blow-out device is used. Thanks to the automated cleaning of the sampling tubes and sampling holes, faults due to blocked-up sampling holes are significantly reduced. This extends the service life of the smoke sensors and ASDs. Different blowout cycles can be set on the blowout unit. If the compressed air should fail, this is signalled by the ADB 500 automatic blowout device as a fault message to the superordinate fire alarm control panel. Over time the use of an automatic blowout device will result in cost savings.



The right accessories for every application

Your benefits at a glance:

- Approved in accordance with EN 54-20 classes A, B and C
- IP66 enclosure
- Economies of scale: up to 2x 300 metres of sampling tube just with one detector
- Sensitivity settable from 0.002–10%/m
- Highly sensitive yet robust smoke detection thanks to LVSC (large- volume smoke chamber) with measurement resolution < 0.001%/m
- Insensitive to dirt particles thanks to patented particle suppression
- Coated printed circuit boards for protection against corrosive environments
- Up to 5 alarm levels per detector (3 pre-signals and alarm 1 and alarm 2)
- Surge protection up to 8 kV
- Special filter units for extreme conditions
- Compact blow-out unit for very dusty applications
- Different water retention devices available



Range for heavy-duty applications

SEC-ASD-535-3HD / SEC-ASD-535-4HD	Aspirating smoke detector for 1 or 2 SEC-SSD-535-CP smoke sensors, heavy-duty version
SEC-SSD-535-3CP	Highly sensitive smoke sensor for SEC-ASD-535-HD, coated version
SEC-OPB-911CP	Overvoltage protection board for SEC-ASD-535-HD
SEC-DFU-911S	Dust filter unit with integrated protective cap
SEC-MFS-25	Magnet filter system
SEC-ADB-500	Blow-out unit for cleaning the sampling tube
SEC-DTB-25	Dust trap box
ASD-B-VAL-ASSY	Condensation trap
SEC-WRB-25	Water retaining box