

SecuriSmoke SEC-ASD-535-3HD & SEC-ASD-535-4HD

The detection for extreme applications

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.

An even tougher SEC-ASD-535 range for extreme applications

Tried and proven 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, thus enabling the devices to also be deployed in wet and dusty environments. All components have a special protective coating to comprehensively safeguard the electronics. Use in corrosive environments such as agricultural and industrial applications ensures that entire systems are fully monitored. 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 proven parts: high-performance ventilator, air flow sensor, LVSC measuring chamber (large-volume smoke chamber), and high power LED – all of which have been tried and proven in 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-DFU-911S

The SEC-DFU-911 dust filter unit was further developed for use in extreme applications and fitted with a special filter cap. 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 cap prevents dirt from entering the sampling pipe.

SEC-ADB-500

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

SEC-ASD-535-3HD



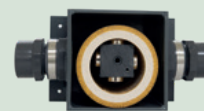
SEC-ASD-535-4HD



SEC-DFU-911S



SEC-MFS-25



SEC-ADB-500

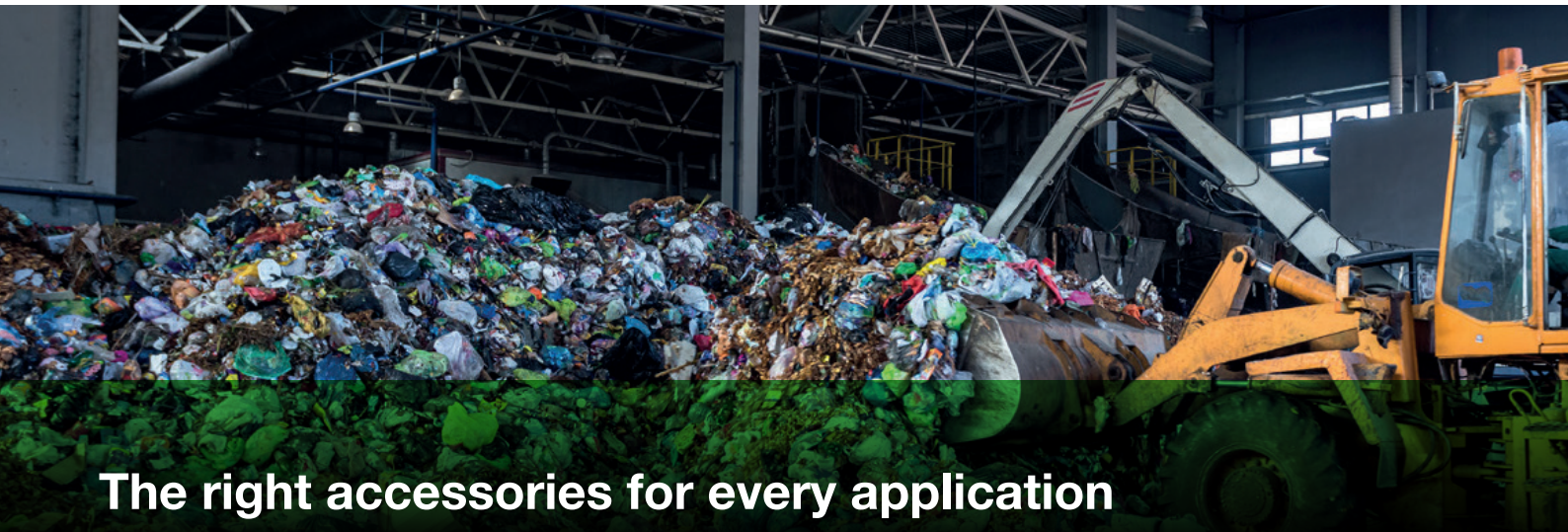


SEC-MFS-25 magnet filter

The magnet filter system (MFS) supplements the range of applications for the conventional filter by accommodating environments with metallic dust. The system thus significantly extends the service life of the smoke detectors used in the aspirating smoke detectors and prevents false alarms caused by metallic dust. A replaceable plastic cartridge protects the strongly magnetic element from dust deposits.

Your benefits at a glance:

- approved in accordance with EN 54-20 classes A, B and C, UL and FM
- IP66 enclosure
- 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 or alarm 2)
- surge protection up to 8 kV
- special filter units for extreme conditions and metallic dust
- compact blow-out unit for very dusty applications



The right accessories for every application

The SEC-MFS-25 magnet filter is used in rail transport systems and industrial applications with metal processing, for example. Metallic dust has a size distribution that overlaps that of smoke particles.

As a result, it is not possible to filter out

metallic dust using conventional dust filter units. Magnet filters must always be used in combination with a dust filter.

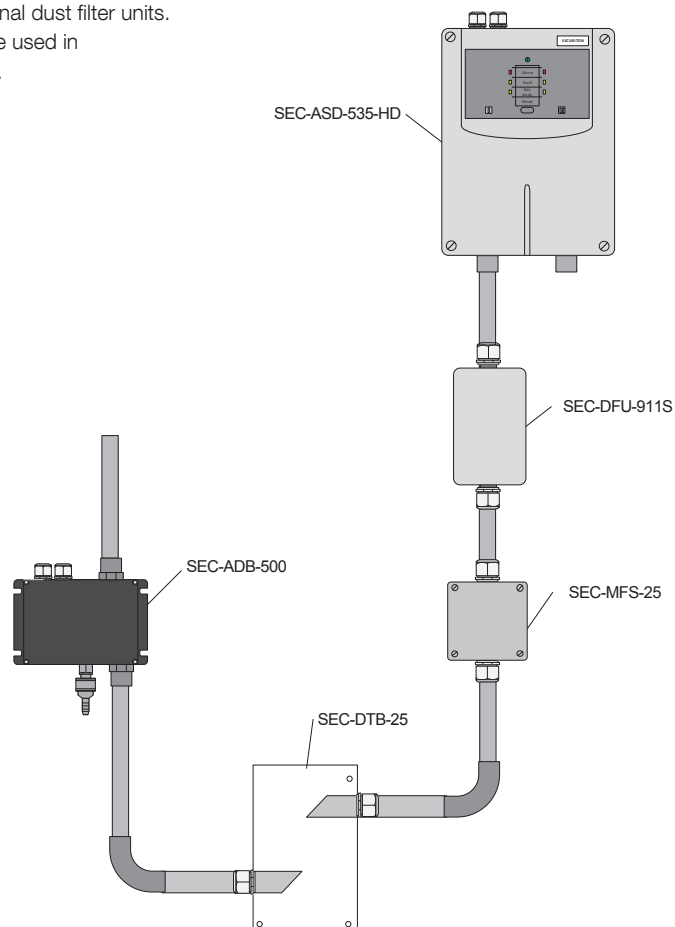
Typical applications

Rail applications: MFS magnet filters are typically used in the event of rail abrasion in metro applications. For heavy dirt accumulation, blow-off units are also recommended in addition to the SEC-DFU-911 filter to prevent faults in the sampling tube network.

Industrial applications: The processing of materials (e.g. grinding and welding) produces different kinds of dust that have to be filtered. In addition to the SEC-DFU-911 dust filter unit, an SEC-ADB-500 should be used, as well as a SEC-DTB-25 and an SEC-MFS-25 depending on the processed material.

Agriculture: Corrosive and dusty environments require the use of the SEC-DFU-911S, the SEC-DTB-25 and the SEC-ADB-500. Coated printed circuit boards protect the ASD from corrosive environments.

Timber processing industry: In carpentry workshops, fine wood fibres can cause disturbances in the smoke sensor. This is why a SEC-DFU-911S dust filter unit and an automatic blow-out device are of tremendous benefit.



Range for heavy-duty applications

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| 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 |