

SecuriSmoke ASD 535 HD / DFU 911S / ADB 500 / MFS 25
The package for extreme applications

The aspirating smoke detectors from Securiton are among the most reliable early warning systems against fires available. The SecuriSmoke ASD (Aspirating Smoke Detector) range impresses by virtue of its unrivalled performance capability. Developed in Switzerland and manufactured in Germany, the detectors are particularly reliable and robust. The ASD 535 HD version is specially designed for extreme environments where other detectors are pushed to their performance limits.

An even tougher ASD 535 for extreme applications

Tried and proven over many years, the components of the 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 OPB 911 overvoltage protection board, the 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.

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

DFU 911S

The DFU 911 dust filter unit was further developed for use in extreme applications and fitted with a special filter cap. The new 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.

ADB 500

For environments with very high dust exposure, the ADB 500 automatic blow-out 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 blow-out unit. If the compressed air should fail, this is signalled by the ADB 500 automatic blow-out device as a fault message to the superordinate fire alarm control panel.

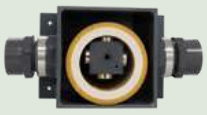
ASD 535 HD



DFU 911S



MFS 25



ADB 500



MFS 25 magnet filter

The magnet filter system (MFS) supplements the range of applications for the conventional filter by adding 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:

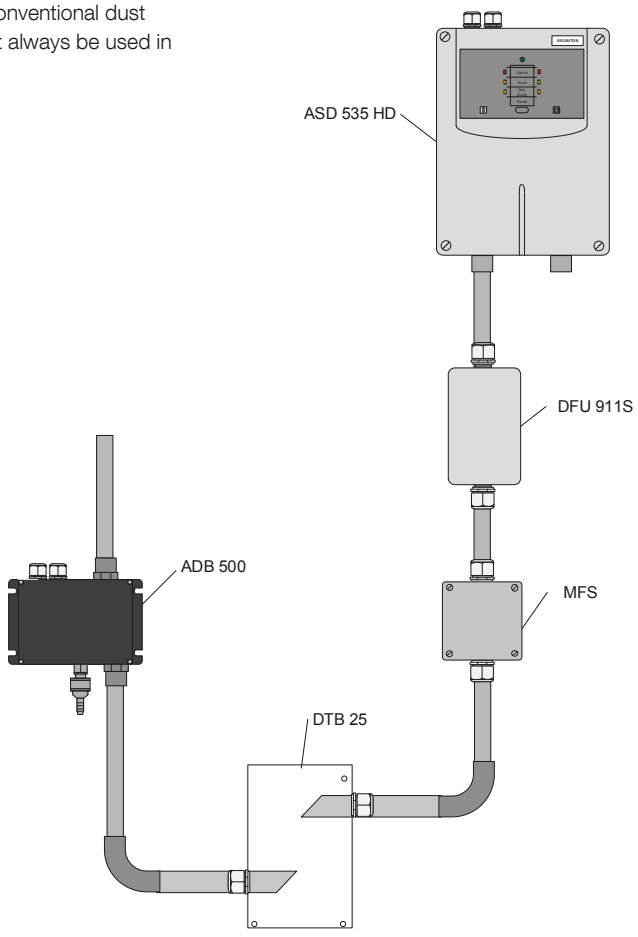
- approved in accordance with EN 54-20 classes A, B and C, UL and FM
- sensitivity settable from 0.002–10%/m
- highly sensitive yet robust smoke detection thanks to LVSC (large-volume smoke chamber) with measurement resolution < 0.001%/m
- complete integration into the SecuriLine addressable loop, including Config over Line
- 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 1 or 2 alarms)
- surge protection up to 8 kV
- special filter units for extreme conditions and metallic dust
- compact blow-out unit for very dusty applications

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The right accessories for every application

The MFS 25 magnet filter is used in rail-mounted 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 areas: 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 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 DFU 911 dust filter unit, an ADB 500 should be used, as well as a DTB 25 and an MFS 25 depending on the processed material.

Agriculture: Corrosive and dusty environments require the use of the DFU 911S, the DTB 25 and the 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 DFU 911S dust filter unit and an automatic blow-out device are of tremendous benefit.

Range for heavy-duty applications

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

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