Fast, reliable fire detection in demanding environments

FAAST 8100E aspirating smoke detection
No room for compromise

Data centres, museums, correctional facilities and shopping centres are just some of the many environments that present special requirements for a fire detection system. The FAAST 8100E, Honeywell’s aspirating smoke detector, meets the highest demands.

**The ideal solution for large spaces**

As an aspirating smoke detector, FAAST can cover very large spaces (up to 320 m of pipeline network and 2000 square metres of surface area per system). It provides fire detection that is faster and more reliable than most alternative solutions.
Typical areas of application

Data centres and IT environments with company-critical data systems where even the slightest failure or loss causes significant damage.

Expansive indoor spaces such as stadiums, airports, shopping centres or concert arenas, where large numbers of people congregate.

Buildings at risk of vandalism or malicious tampering, such as prisons or forensic facilities.

Historical buildings such as churches or castles, where the original character of the building must be retained as far as possible and where the fire detection system must be discreet.

Ambitious modern architecture, where fire detection systems must be hidden for aesthetic reasons.

Environments such as steelworks, refrigerated warehouses or logistics centres which deal with a large amount of dust, dirt, drafts, humidity or temperature fluctuations.

A flexible, adjustable and configurable system, the FAAST 8100E aspirating smoke detection can be used for all fire detection classes as defined in EN 54-20:

- Class A
- Class B
- Class C
FAAST has three dual safety features

A fire that is either not detected or discovered too late is no less acceptable than a false alarm. For this reason the FAAST 8100E is designed to provide maximum reliability and safety. A combination of two filter systems, a dual optical system and intelligent electronics offers maximum safety and reliability in fire detection.
Dual filtering

The aspirating smoke detector uses two filters to clean the air of all particles that cannot be affected by sources of fire, including very heavy as well as very coarse particles.

Both types of particle are filtered out through the dual filtration process so that the measuring chamber only takes in smoke particles that may indicate a potential fire.

Dual optical system

This system analyses itself more accurately; a blue LED and an infrared laser are positioned opposite each other in the measuring chamber. They work at different wavelengths and provide increased accuracy as a result. That's why the FAAST 8100E can detect even very fine smoke particles – an advantage in fast fire detection.

Dual intelligence

State-of-the-art algorithms evaluate the measurement results using known particle models. The measuring chamber’s sensitivity can be smoothly adjusted from 0.0015 to 20.5 obs/m to suit the ambient conditions.

The adjustment mode of the electronics automatically tailors the device to the ambient conditions. In the first 24 hours, the device monitors its environment and subsequently adjusts the alarm threshold every hour using measurements. This occurs within freely configurable alarm threshold ranges and greatly decreases the chance of false alarms.

Exact categorisation

The registered particles or probabilities of fire are communicated in five individually definable alarm levels. The display also shows the air flow and any faults across ten levels. False alarms and faults can therefore be detected and categorised in time.

Particle separator  Dust filter  Infrared laser  Blue LED  Algorithms  Adaptive intelligence  Alarm

FAAST 8100E aspirating smoke detection  5
The system is very easy to integrate into existing infrastructures because it is IP-based. An onboard Ethernet interface, Modbus communication and a pre-installed web server make fast, easy networking with other alarm systems possible.

The standardised web server interface provides user-friendly configuration. The operator can communicate with FAAST easily either locally on the device or via the connected network. Monitoring the system is also easier as it can be accessed from anywhere on the network.
Decidedly informative

The device display itself already shows the most important status information and can open a report of past events. However, the FAAST 8100E brings even more possibilities: it can be accessed from anywhere on the network, where reports, status information and trend forecasts can be opened. The system therefore saves unnecessary trips back and forth in the building and aids central monitoring.

Supports mobile devices at home as well

The remote maintenance display for messages can also be set up via the integrated web server, so you can receive email notifications on your smartphone about a fault or event within seconds of its occurrence. Up to six email addresses can be used for notifications. The task of alarm management can then be shared by multiple people and adjusted to your needs, ensuring safety even at weekends, during holidays and at night.
FAAST is quick to install

The planning, project engineering and installation processes are supported by powerful software, an integral part of the approved system.

**PipelQ – three functions in one**

With the FAAST 8100E, the entire pipework can be as long as 320 m. Depending on the type of space and its geometry, there are lots of different routes. The Pipe Design Wizard from PipelQ calculates all of the options and quickly provides the optimal pipeline route.

As a result, existing pipeline systems can be connected to the FAAST 8100E.

The installed system can be easily and reliably configured via the approved PipelQ software.

PipelQ also features a monitoring mode, in which the most important information is shown directly on the device display.
Integration with other alarm systems

Modbus communication makes it very easy to establish connections between the FAAST 8100E and alarm management or building management systems.
FAAST provides long-term satisfaction

**Low servicing costs**

The FAAST 8100E has lower maintenance and servicing costs compared to alternative systems. The monitored particle filter only has to be replaced every five years or so, depending on the ambient conditions. One system monitors up to 2000 square metres, and having one system means just one measuring chamber to service.

**Remote monitoring**

The FAAST 8100E can also be monitored from your smartphone. Service personnel can be used more effectively as there are no longer unnecessary trips back and forth to the device itself.

**Servicing with foresight**

The system saves up to 18,000 events in an event memory. These reports, in combination with additional analysis and trend forecasts, aid technical personnel during regular maintenance and servicing.
For fire detection in large spaces and building complexes with special requirements, the FAAST 8100E is the system of choice:

- Fast, safe fire detection thanks to unique technology
- Adaptable, self-adjusting system
- Reliable prevention of false alarms even in the most challenging environments
- Flexible installation and configuration using approved software
- Integration in network infrastructures with its own web server
- Modbus communication with other alarm management systems
- Remote monitoring and status notifications via email on your smartphone
- Low-maintenance, easy-to-service system design
- Automatic reports, trend forecasts and data backup

FAAST – safely the right choice