

**ESSER**

by Honeywell



Fire Alarm Aspiration Sensing Technology

# FAAST Product Line



## Invest into your safe future

Today's organizations depend on multiple complex systems. From the business systems that manage data to the building systems that manage facilities to the fire systems that protect people and property, all must work together to ensure the successful operation of an organization.

### **Simple installation and management**

As the world leader in smoke detection technology, we know how important it is for Early and Very Early Warning Fire Detection to work seamlessly with existing systems. That's why we designed the **FAAST aspirating smoke detector** line with features and flexibility that reduce the cost and complexity of integration, simplify installation and management, and greatly enhance the safety, continuity and ongoing operations of the facilities, processes and systems it protects.

### **Easy and fast integration**

FAAST easily integrates with existing fire systems and building management systems with no extra hardware or software required. Its patented filtering and sensing technologies provide the earliest and most accurate detection available. And its enhanced communication capabilities and customizable settings provide the functionality and flexibility to meet the needs of a wide variety of applications and detection strategies.

If you have an application that requires highly accurate, highly sensitive, and highly customizable aspirating smoke detection without all the complexity, look inside and learn how FAAST can be one of the most valuable investments you make for any business or organization.

# FAAST in challenging applications



## Mission critical

For some environments, there is no downtime. Every second lost, every transaction missed, any data or equipment destroyed can mean huge financial losses. FAAST alerts facility managers to the faintest traces of smoke – the first indication of system trouble – helping them keep their mission critical facilities up and running 24/7 and preventing unnecessary activation of suppression systems.

## First impressions

When aesthetics matter, such as in museums, churches, or mansions, FAAST provides a discreet smoke detection solution that is nearly invisible to the public. At the same time, it provides the earliest and most accurate smoke detection available to protect high-value items from fire.



## Access denied

Some fire systems must protect areas, such as prisons and public spaces, where there is a concern for tampering. The FAAST device can be mounted in a secure area while air sampling points are located in the protected environment – considerably minimizing the potential for tampering.

## The great indoors

In large public areas like shopping malls, airports, or stadiums, evacuations can be difficult. FAAST provides highly accurate fire detection for these areas to avoid nuisance alarms, and various levels of alert to mount an appropriate, informed response to any situation.

## The extremes

Areas with extreme temperatures and environments which have high amounts of airborne particulate or chemicals present may preclude the use of traditional detection technologies. FAAST's ability to filter out nuisance particles, and the ability to mount the device remotely, enables superior detection in difficult environments.

# Discover the added value

## Intelligence and integration

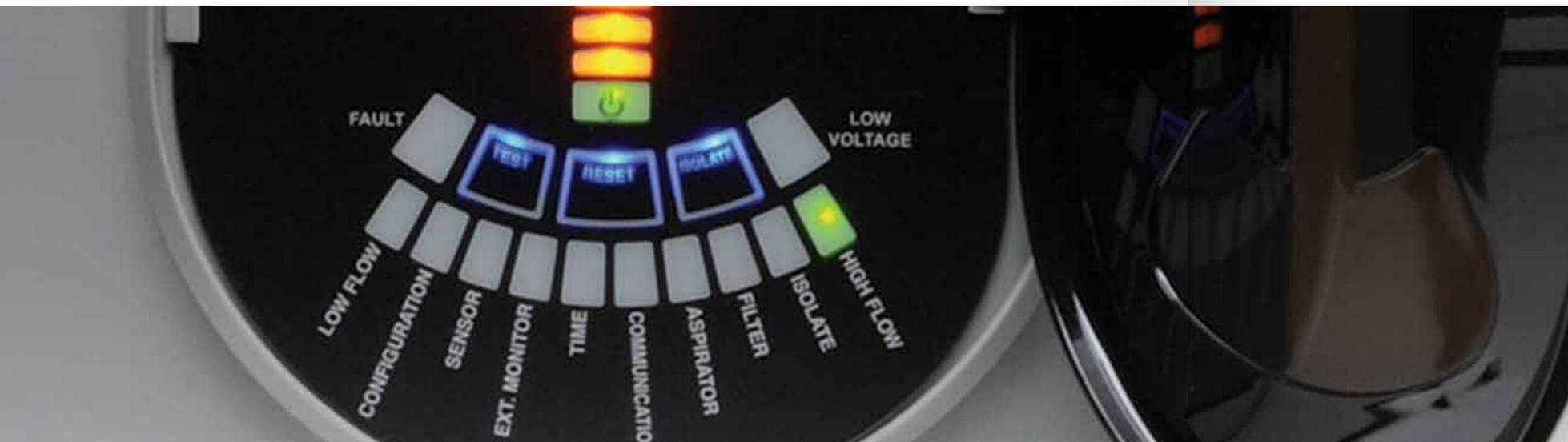
Intelligent FAAST detectors communicate with the fire alarm system via transponders connected directly on the loop. All FAAST detectors also come standard with Modbus/TCP communication, allowing seamless integration with building management systems. These integration capabilities greatly simplify the design, purchase, and installation of the FAAST aspirating smoke detection system.

## All In One

FAAST's all-in-one system configuration and monitoring software, PipeIQ, guides you through initial pipe layout and system configuration. And once the system is installed, it enables ongoing configuration and system monitoring from anywhere in the world via the Internet using FAAST's onboard Ethernet connection.



# Dual vision + one focus = FFAST 8100E



## Performance features FFAST 8100E

- Detection as precise as 0.0015 % obs/m
- Five alarm levels and two sensitivity modes provide application flexibility
- Dual flow detection including both ultrasonic and electronic sensing for pipe and chamber air flow measurement
- A single device protects up to 2,000 m<sup>2</sup>
- Advanced detection algorithms reject common nuisance conditions
- Patented particle separator and field-replaceable filter remove contaminants from the system
- PipeIQ software provides intuitive system layout, configuration and monitoring all in one package
- Integral Ethernet interface enables remote monitoring and e-mail status updates
- Fault indicators provide a broad spectrum of events
- Unique air flow pendulum graph verifies pipe network functionality
- Particulate graph displays subtle environmental changes for early problem indications

### When very early warning fire detection is essential

FFAST is a ground breaking aspiration solution designed to deliver highly accurate and discrete early warning fire detection. Using unique dual vision technology and intuitive features that allow access to data from anywhere in the world, the product outperforms other aspiration systems on the market.

FFAST not only delivers zero false alarms, zero downtime and 100% business confidence, also the integration into the main fire system reduces the overall cost of maintenance.

### Dual vision. Single focus.

FFAST's dual vision sensing technology uses a blue LED to detect a wide variety of fires with extremely low concentrations of smoke and an infrared laser to identify nuisances (like dust) which can cause false alarms and downtime. Advanced algorithms interpret signals from both sources to meet one single focus — to protect your facility, people and assets with the earliest and most accurate smoke detection available.

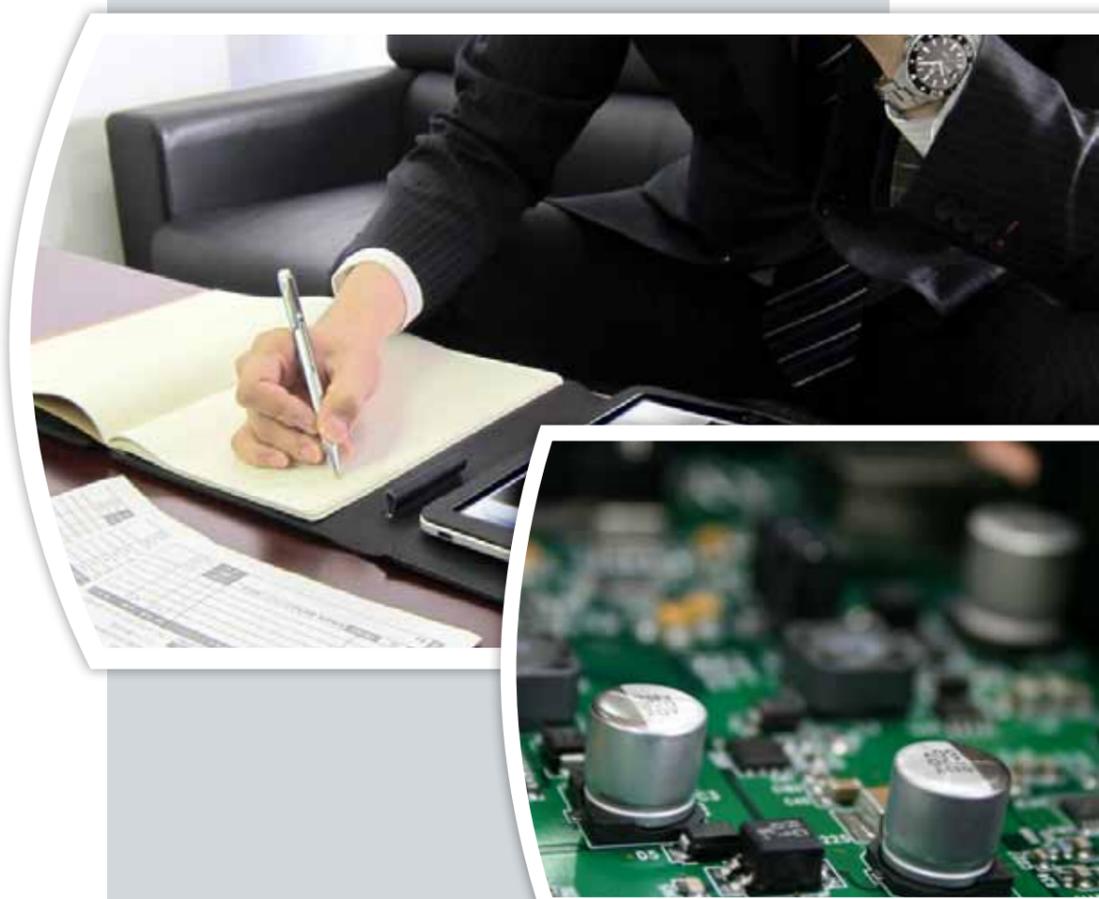
### Intuitive data

FFAST provides you with the data you need to manage your environment. It includes 5 alarm levels, 10 pre-alarm particulate levels and a 10-level airflow pendulum which verifies that air is flowing effectively through the pipe network. It also includes a full range of fault indications. All of this information can be read quickly and easily on the device's intuitive integral display\* or through a variety of remote devices.

\*Multiple language cards available. Indicate correct one when ordering.

### Stay connected

There are situations at your facility, you need to know about instantly. FFAST's unique onboard Ethernet interface enables you to monitor the detector from any Internet browser, smart phone or mobile device with VPN capability. You can also configure the detector to deliver e-mail status updates to appropriate personnel. This means you will be advised of whatever you need to know to protect your facility — no matter where you are.



# Beyond standard methods of detection - FAAST LT

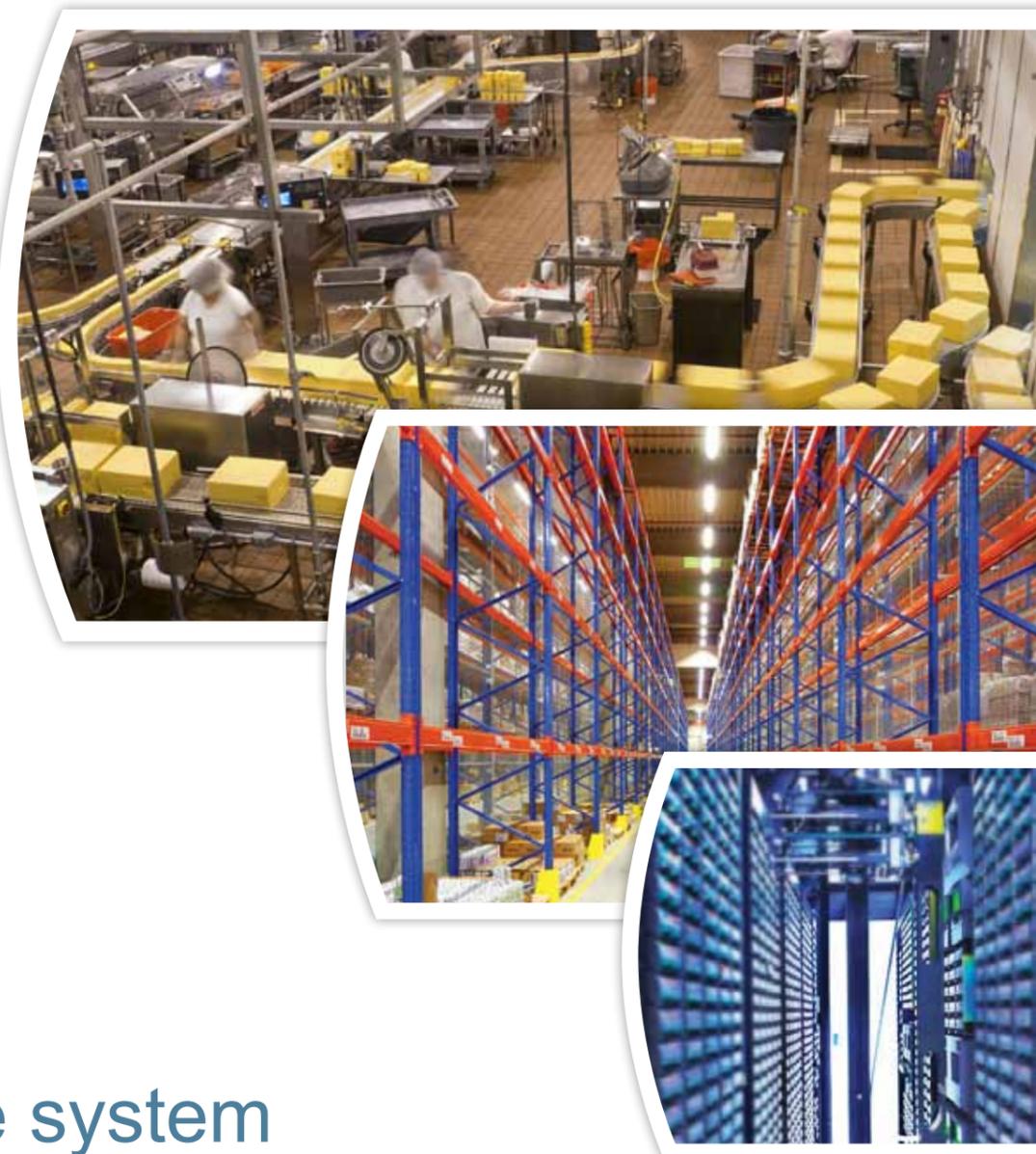


FAAST LT delivers a flexible solution for applications where standard detection methods are prone to failure or false alarm. Designed with the installer and end user in mind, the device serves a wide variety of EN54-20 Class C applications where maintenance is difficult, other smoke detection methods are inappropriate, due to harsh environments, or areas where aesthetics matters.

FAAST LT detectors offer ultimate flexibility in terms of connectivity with the overall fire system. The device is fast to install, easy to configure and includes installation and commissioning software PipeIQ LT.

## Best for:

- small server rooms - where only a couple of detection points are required
- warehouses - where access and maintenance is difficult and standard detection is not appropriate
- as an alternative to beam detection - where smoke stratification may occur



## All in one system

### Performance features FAAST LT

- For different detection strategies choose from single, dual channel or double knock detectors
- 9 sensitivity levels from 0.06% to 6% obs/m
- A single device protects up to 2,000 m<sup>2</sup>
- High sensitivity laser optics
- Microprocessor controlled laser based optics delivering highest stability
- Ultrasonic flow detection for pipe flow measurement
- PipeIQ LT software provides intuitive system layout and configuration, all in one package
- Fault indicators provide a broad spectrum of events
- Dual channel units have two completely independent chambers with individual fans, filters, sensors and monitors
- Unique air flow pendulum graph verifies pipe network functionality
- USB interface
- IP65 rating
- Efficient maintenance - filters and optics
- Interface in 12 languages

### Technology for the toughest applications

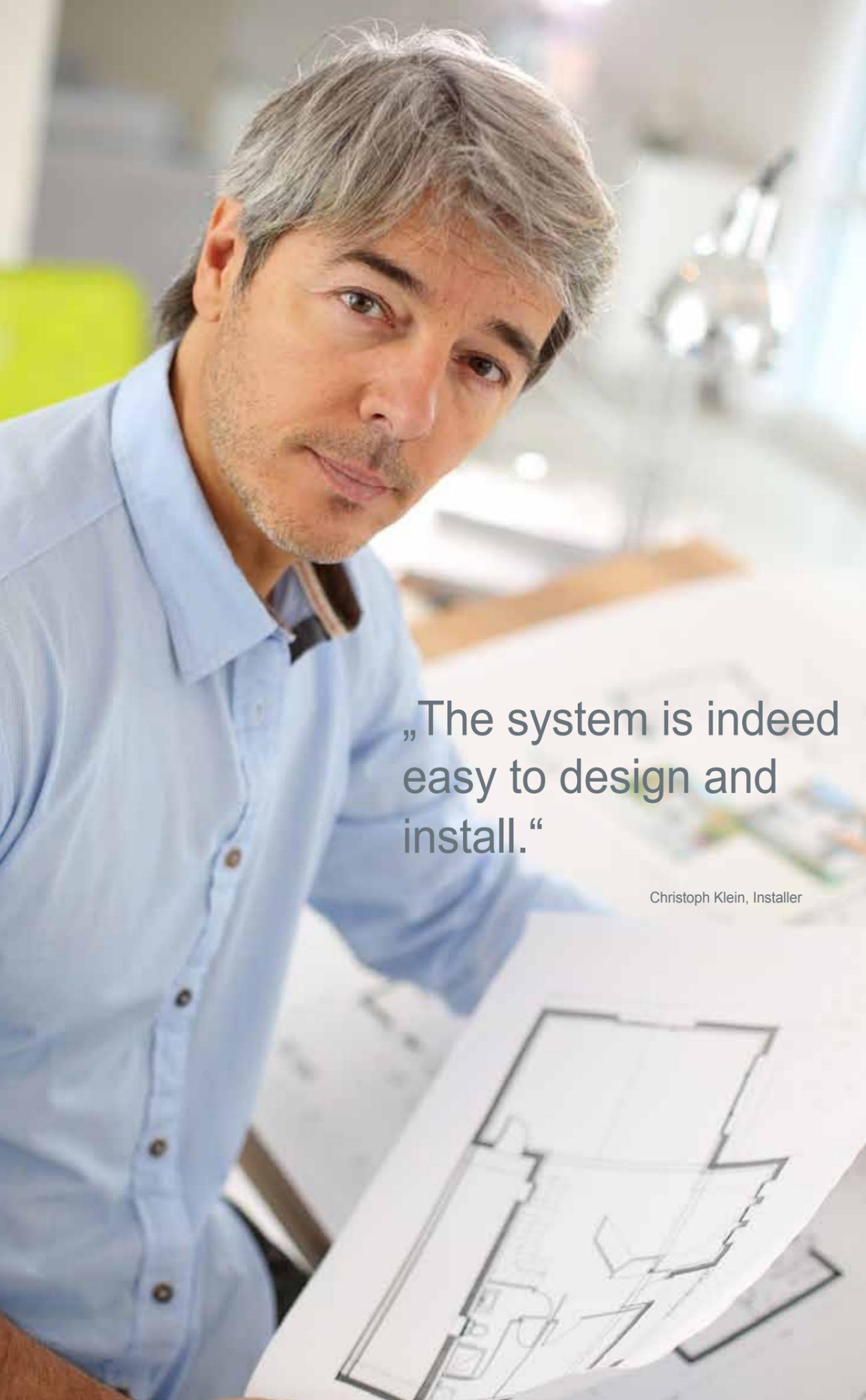
FAAST LT combines proven aspiration detection technologies and technical design excellence to deliver reliable smoke detection for the toughest environments. The device includes high sensitivity laser detectors, ultrasonic flow sensors, protected electronics and fully independent chambers to enable the device to reach the highest sensitivity required for Class C applications, up to 2,000 m<sup>2</sup> and Class A applications up to 150 m<sup>2</sup>.

### Ease of installation and maintenance

FAAST LT is designed for efficient installation and maintenance. You do not have to worry about additional items such as brackets, relays or local language interfaces since all of this is provided with the unit as standard. Sensors and filters are easily accessible for routine maintenance and an intuitive fault pendulum display allows rapid problem identification and solving.

### Intuitive data

FAAST LT provides you with the data you need to manage your environment. It includes alarm and pre-alarm levels that can be set between 9 sensitivity levels. A 9-level airflow pendulum verifies that air flow meets EN54-20 requirements. All of this information can be read quickly and easily on the device's intuitive user interface or via USB connectivity.



„The system is indeed easy to design and install.“

Christoph Klein, Installer

# PipeIQ design, configuration and monitoring software

## What is PipeIQ?

PipeIQ is the all-in-one system design, configuration and monitoring software for the FAAST aspirating smoke detector. Once the system is installed, PipeIQ enables continual configuration and system monitoring from anywhere in the world via internet using FAAST's onboard Ethernet connection.

## Network and connectivity

The FAAST series of aspirating smoke detectors are equipped with an onboard Ethernet port for network connectivity. This interface permits a number of intriguing remote monitoring possibilities, including the ability to receive alarm and fault notifications via e-mail. The detector has been designed to operate with common network technologies, including Modbus.

## Ease of design

Using PipeIQ, a designer can complete the pipe network layout, verify hole sizes and detection sensitivity, and obtain a Bill of Material and Layout Report.

The software also includes a Pipe Wizard that can guide users through the pipe network design process. The wizard asks a series of questions about the area under protection and designs a pipe network tailored to the space. A great tool for inexperienced designers, the Pipe Wizard is also suitable for quickly designing a pipe network for less complex rectangular spaces and to create an initial layout for more complex spaces that will require additional design.

## Ease of use

After the system is commissioned, PipeIQ supports FAAST systems with trend graphs, reports, and data storage options. It also includes a robust built-in help guide that makes troubleshooting quick and easy.



**Honeywell Life Safety Austria GmbH**

Lemböckgasse 49

1230 Vienna, Austria

Phone: +43 1 600 60 30

Fax: +43 1 600 60 30-900

internet: [www.hls-austria.com](http://www.hls-austria.com)

e-mail: [hls-austria@honeywell.com](mailto:hls-austria@honeywell.com)

Part No D800025.G0

July 2014

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