



## **Fire Alarm Aspirating Sensing Technology**

# The FFAST range



## FAAST 8100e

### Next Generation Aspiration Detection

FAAST Fire Alarm Aspiration Sensing Technology® is a new Very Early Warning Fire Detection solution with ground breaking immunity to false alarms.

- **False alarm immunity with very early warning**, achieving sensitivity of 0.0015% obs/m. Multiple sensitivity levels available
- **Dual source sensing technology** (blue LED & red IR laser) to identify and eliminate nuisance particulates from the detection equation
- **Unique three-stage filtration** includes an aerospace-designed and patented wing filter to prevent particles larger than 20 microns from entering the detection chamber, a replaceable filter to remove particles which have escaped and multi-angle and multi-wavelength optics to filter nuisance particles
- **Internet / IP connectivity** enables remote monitoring and management of the full system from anywhere in the world through internet browser, smart phone or mobile device. The detector can also e-mail status notifications to multiple addresses
- **All-in-one Pipe IQ software** provides an integrated solution for pipe network layout, system configuration and monitoring



## FAAST LT

### Detection for Challenging Environments

FAAST LT extends detection coverage into areas where standard detection methods are prone to failure or false alarm, or where maintenance is difficult.

- **Field-proven laser smoke detection** providing sensitivity up to 0.06% obs/m
- **Achieve full management** and control from the panel
- **Ultrasonic airflow monitoring** to reliably detect blocked sampling pipes in changing environmental conditions
- **Fast and easy configuration and maintenance** in areas where maintenance is costly or challenging
- **All-in-one Pipe IQ LT software** provides an integrated solution for pipe network layout, system configuration and monitoring



## PipeIQ®

### 3 in 1 Design, Configuration and Monitoring

PipeIQ® – the all-in-one pipe design, configuration and monitoring software – guides users through system design and provides full device configuration and ongoing system monitoring. PipeIQ® is included free of charge with FFAST devices.

- Create simple pipe designs in only a couple of minutes using Pipe Wizard
- Use the Pipe by Pipe Design tool for more complex pipe networks requiring full customization
- Real-time event monitoring and configuration via device's onboard Ethernet connection
- Access to full current, live device status and historic logs
- Provides flexible trend graphs, reports and data storage options
- Translates device status into graphical format for analysis (model dependent)
- Incorporates a full built-in help guide for quick and easy troubleshooting

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





# FAAST Delivers

When very early warning fire detection is essential



FAAST is a ground breaking aspirating solution designed to deliver highly accurate and discreet 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 aspirating systems on the market.



Dual Vision.  
One Focus

# FAAST puts you in control

The Information You Need To Protect Your Most Critical Business Assets

FAAST has one focus. To protect people, mission critical facilities and high value assets by sensing the faintest traces of smoke, in a wide range of challenging environments.



## Intuitive Data

FAAST 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. See Ordering Information.

## Stay Connected

If there is a situation at your facility, you need to know about it instantly. FAAST'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.

## Dual Vision. One Focus.

FAAST'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.

## Quick Set-Up

FAAST's all-in-one system configuration and monitoring software, PipeIQ®, guides you through initial pipe layout and system configuration. 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. The PipeIQ® software is included with FAAST.



# Key Features

- Detection as precise as 0.0015 %/m obs.
- 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 square metres
- Advanced detection algorithms reject common nuisance conditions
- Patented particle separator and fieldreplaceable filter remove contaminants from the system
- PipelQ® 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



# Stay Connected

If there is a situation at your facility, you need to know about it instantly. FFAST's unique onboard Ethernet interface enables you to monitor the detector from anywhere.

# FFAST LT Fire detection for the toughest applications



FFAST 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 applications where maintenance is difficult, other smoke detection methods are inappropriate due to harsh environments, or areas where aesthetics matters.





# FAAST LT Delivers

## Beyond standard methods of detection

### FAAST Applications

FAAST LT's main focus is applications where standard detection is not appropriate due to harsh environments, difficult access, tamper proofing or complex spaces.

### Great Indoors

FAAST LT is a reliable and flexible solution for large public areas like shopping centres, airports, or stadia where evacuations are complex. It is also ideal for warehouses where access and maintenance is difficult and standard detection is not appropriate. The device allows access to these areas, reducing the cost of maintenance. FAAST LT also provides an alternative to beam detection where smoke stratification may occur.

### Restricted Access

For areas such as prisons and public spaces where devices can be tampered with, FAAST LT can be installed outside of the protected area while air sampling points are located discreetly within.

### Extreme Environments

FAAST LT is suitable for areas such as cold storage facilities or spaces with high-airflow, and environmental conditions outside the tolerance of typical fire detection technologies. The device can be installed in a temperate, easy-to-access location while sampling points are in the extreme environment.

### Discreet Detection

When aesthetics matter, such as in museums, churches or mansions, FAAST LT provides a flexible, discreet smoke detection solution that is nearly invisible to the public. At the same time, it provides early smoke detection giving more time to protect high-value items from fire.

### Mission Critical \*

For environments such as small server rooms, where only a couple of detection points are required and the loss of downtime is extremely important, FAAST is the ideal solution. It provides early smoke detection to help facilities stay up and running 24/7 and prevents unnecessary activation of suppression systems.

\*For larger mission critical applications consider using our FAAST product.



### Quick Set-Up

PipeIQ® LT the all-in-one system design and configuration software, guides you through initial pipe layout and system configuration. Once the system is installed, it enables ongoing configuration and system monitoring via a USB connection.

### Technology for the Toughest Applications

FAAST LT combines proven aspirating 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 2000m² and Class A applications up to 150m².

### 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 or relays 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.



# Features

- For different detection strategies choose from single, dual channel or co-operative detectors
- A single device protects up to 2,000 m²
- 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





# Tec Specification

The FFAST Solution  
for Aspirating Detection



## Physical Specification

Height	33.7 cm
Width	33 cm
Depth	12.7 cm
Cable Access	2.54 cm cable entry holes on top and bottom of unit
Wire Gauge	0.5-2.0mm <sup>2</sup> (12-24 AWG)
Maximum Single Pipe Length	120m
Maximum Total Branched Pipe Length	320m
Maximum Air Inlet Holes	36 holes
Network Outside Pipe Diameter	25 mm
Internal Pipe Diameter	15-21 mm
Sensitivity Range	0.0015 %/m. obs – 20.5 %/m. obscuration
Relays	8 Changeover contacts, 3 AMP, programmable latching or non-latching
Event Log	18,000 events stored
Communication Network	Ethernet monitoring, 6 E-mail address alerts
Shipping Weight	5.26kg includes packing material

## Electrical Specification's

External Supply Voltage	18-30 VDC
Remote Reset Time	External monitor must be pulled low for a minimum of 100 ms
Power Reset	1 sec.
Avg. Operating Current	500 mA @ 24 VDC
Alarm	650 mA – All relays active, all alarm levels displayed. Voltage @ 24 VDC
Maximum Current Draw	650 mA Voltage at 18 VDC

## Environmental Specification's

Operating Temperature	0°C to 38°C
Sampled Air Temperature	-20°C to 60°C
Humidity Range	10 to 95% (non-condensing)
IP Rating	IP30
Coverage Area	Up to 2000sq. m
Air Movement	0-1,219 m/min. (20m s-1)

# Tec Specification

The FFAST LT Solution  
for Aspirating Detection



## Physical Specification

Height	403mm (including inlets and outlets)
Depth	135mm
Width	356mm
Maximum Single Pipe Length	100m
Maximum Total Branched Pipe Length	160m per channel
Maximum Air Inlet Holes	18 per channel
Coverage Area	up to 2000m <sup>2</sup>
Sensitivity Range	0.07% obs/m
Sounder outputs	1 per channel
Interfaces	Terminal blocks: power supply, relays, sounder outputs, external input; USB port; buttons (test, reset, disable)
USB	Standard USB cable for Type B USB connection
Filtration	Replaceable filter
Fan control	10 programmable speeds

## Electrical Specification's

Smoke Sensor (s)	Optical laser point type
External Supply Voltage	18.5-31.5 V
Remote Reset Time	2s
Power Reset	0.5s
Avg. Operating Current	1 Channel Device: 170mA @ 24 VDC (excluding sounders) 2 Channel Device: 270mA @ 24 VDC (excluding sounders)
Max. Average Operating Current	1 Channel Device: 360mA @ 24 VDC (excluding sounders) 2 Channel Device: 570mA @ 24 VDC (excluding sounders)
Relay Contact Ratings	2.0 A @ 30 VDC, 0.5 A @ 30 VAC
Operating Temperature	Optical laser point type
Humidity Range	10% to 93% (non condensing)
IP Rating	65

## Product Variants

FL0111E	Stand Alone	1 Channel 1 Detector
FL0112E	Stand Alone	1 Channel 2 Detector
FL0122E	Stand Alone	2 Channel 2 Detector

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