# FAAST XT

## Fire Alarm Aspiration Sensing Technology®


### Description

The FAAST XT aspirating smoke detector combines advanced particle separation with unique dual source optical smoke detection technology to provide highly sensitive Very Early Warning Fire Detection while providing enhanced immunity to false alarms.

This technology enables FAAST XT to accurately detect incipient fire conditions in Classes A and B as early as 60 minutes before a fire actually starts, in applications ranging from mission critical to harsh and extreme environments.

An installed FAAST XT device can protect up to EN54-20, Class A in standard coverage type applications and can be monitored in several different ways, including: Serial or TCP Modbus, Ethernet over a LAN or a direct connection, or via FAAST XT's onboard USB. When connected to a LAN, FAAST XT's email server can provide email event notification to appropriate personnel.

FAAST XT also communicates alarm and notifications via form C relays. PipeIQ® is FAAST XT's intuitive design, configuration, and monitoring software. The all-in-one program can be used to create a pipe network tailored to meet site specific requirements, configure a FAAST XT device, and monitor an installed device - including live trending and reading of historic reports.

FM APPROVED

SIGNALING UL LISTED S911

ULC

VdS Pending

A complimentary download of PipeIQ is available at www.faast-detection.com.

## FEATURES

- Approved to EN 54-20 in Class A, B and C
- Provides Very Early Warning Fire Detection, as precise as 0,00095 %/m
- Five alarm levels and three sensitivity modes provide application flexibility
- User configurable 3-speed fan, allowing for maximum coverage area or minimizing on current consumption
- Ultrasonic flow sensing for each pipe inlet and chamber airflow monitoring for precise system health information
- Dual source optical detection chamber with enhanced algorithms provide high sensitivity with greater immunity to nuisance conditions
- Patented particle separator removes large, non-fire particulate, ensuring chamber health and extending the life of the fieldreplacable filter
- TCP and Serial modbus for easy integration with building management systems
- Easy configuration via USB interface, no external power needed
- Onboard Ethernet interface enables remote monitoring, configuration, web server and e-mail notifications
- Multilingual LCD user interface allows for detailed device information and interaction such as: Active faults, precise airflow monitoring, reset of airflow baseline, test/reset/ isolate, and more
- Configurable air flow fault thresholds and verification period
- Convenient wiring compartment
- Status-at-a-glance provides immediate alarm, fault and airflow status

# **FAAST XT** Architect/Engineer Specifications

| PHYSICAL SPECIFICATION | |
|---|---|
| HEIGHT | 338 mm |
| WIDTH | 333 mm |
| DEPTH | 191 mm |
| CABLE ACCESS | 25.4 mm cable entry holes on top, bottom, and back of the unit |
| WIRE GAUGE | 2.05 mm max. to 0.5 mm min. |
| MAXIMUM SINGLE PIPE LENGTH | 120 m (other three pipes disabled) |
| TOTAL PIPE LENGTH | 480 m (all designs must be verified within PipeIQ software) |
| OUTSIDE PIPE DIAMETER | IPS 25 mm |
| RELAYS | 8 form C, 3 AMP, programmable latching or non-latching |
| **OPERATING SPECIFICATIONS** | |
| OPERATING TEMPERATURE | 0°C to 38°C; Factory Tested to 55°C |
| SAMPLED AIR TEMPERATURE | -20°C to 60°C |
| HUMIDITY RANGE | 10 to 95% non-condensing |
| SENSITIVITY RANGE | 0.00095% Obs/m to 20.5% Obs/m |
| IP RATING | IP30 |
| COVERAGE AREA | Depands on the appropirate national standard |
| AIR MOVEMENT | 0-1,219 m/min. |
| **DIAGNOSTIC SPECIFICATION** | |
| EVENT LOG | 18,000 events stored |
| TREND DATA LOG | Configurable sampling period 1 minute to 1 day |
| SERVICE LOG | 300 customer user entries |
| **NETWORKING SPECIFICATION** | |
| COMMUNICATION NETWORK | Ethernet monitoring, 6 email address alerts, TCP and Serial Modbus |
| NETWORK SERVICES | DHCP, SMTP, HTTP, MODBUS/ TCP, AutoIP, NetBIOS-NS, Serial MODBUS |
| ETHERNET | 10/100Mbps, MDI-X |
| MODBUS | TCP or Serial RS-485 |
| EMAIL | 6 recipients, selectable notifications |
| WEBSERVER | Read Configuration, Live View, Logs |
| **ELECTRICAL SPECIFICATION** | |
| 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. |
| OPERATING CURRENT | Fan High - 465mA, 11.2W; Fan Med - 340mA, 8.2W; Fan Low - 220mA, 5.3W |
| ALARM CURRENT | Fan High - 493mA, 11.85W; Fan Med - 368mA, 8.85W; Fan Low - 248mA, 6W |
| RELAY CONTACT RATINGS | 3.0 A @ 30 VDC, 0.5 A @ 125 VAC 8 form C, 3 AMP, programmable latching or non-latching |

| ENVIRONMENTAO SPECIFICATIONS | |
|---|---|
| OPERATING TEMPERATURE | -10°C to 55°C |
| HUMIDITY RANGE | 10% to 93% (non condensing) |
| IP RATING | 65 |
| **ORDERING INFORMATION** | |
| PART NO. | Description |
| 9400XE | System Sensor Conventional FAAST Fire Alarm Aspiration Sensing Technology |
| ACCESSORIES † | Pipes, Fittings and accessories are available to support the installation |

† Additional accessory information, including part numbers, can be accessed at systemsensor.com/faast

| CONFIGURATION SPECIFICATION | |
|---|---|
| PIPEIQ | USB or Ethernet |
| MODBUS | Ethernet or RS-485 |
| **LISTINGS AND APPROVALS** | |
| FINAL INFORMATION WILL FOLLOW | |
| EN 54-20: MAXIMAL NUMBER OF HOLES: | |
| - CLASS C: 60 | |
| - CLASS B: 40 | |
| - CLASS A: 40 | |

FAAST XT User Interface Display

The User Interface consists of 5 Alarm levels – Alert, Action 1, Action 2, Fire 1, and Fire 2, 10 Particulate levels, 10 Bi-color Flow and Fault graph.

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