# FAAST® 9400X

## Description

The Gamewell-FCI, FAAST XT®, 9400X aspirating smoke detectors deliver highly accurate Very Early Warning Fire Detection over a wide coverage area and offer extensive communication applications. This aspirating smoke detector combines advanced particle separation with a 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 as early as 60 minutes before a fire actually starts when set for Early Warning and Very Early Warning Fire Detection in applications ranging from mission critical to harsh and extreme environments.

An installed FAAST XT device can protect up to 28,800 sq. ft. (2,676 sq. m) in the standard coverage type applications and can be monitored in several different ways, including the following:
- Serial or TCP Modbus
- Direct PC connection
- Ethernet over a LAN
- FAAST XT's onboard USB

When the 9400X is connected to a LAN, FAAST XT's email server can email event notification to the appropriate personnel. FAAST XT also communicates alarm and fault conditions via Form C Relays.

PipeIQ® is FAAST XT's intuitive design, configuration, and monitoring software. The all-in-one program can be used to do the following:
- Create a pipe network tailored to meet site specific requirements.
- Configure a FAAST XT device.
- Monitor an installed device including the following:
  - live trending
  - reading of historic reports

*A complimentary download of PipeIQ is available at systemsensor.com/faast.

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FAAST XT® is a registered trademark of System Sensor Inc.
UL® is a registered trademark of Underwriter's Laboratories, Inc.

## Conventional FAAST Fire Alarm Aspiration Sensing Technology



9400X

## Features

- Provides Very Early Warning Fire Detection, as precise as 0.00046%/ft obscuration.
- Includes five alarm levels and two sensitivity modes to provide application flexibility.
- Has user-configurable 3-speed fan, allowing for maximum coverage area or minimizing current consumption.
- Delivers ultrasonic flow sensing for each pipe inlet and chamber airflow monitoring for precise system health information.
- A single device can cover up to 28,800 square feet.
- Combines a dual source optical detection chamber with enhanced algorithms to provide high sensitivity with greater immunity to nuisance conditions.
- Delivers a patented particle separator to remove large, non-fire particulate, ensuring chamber health and extending the life of the field-replaceable filter.
- Converts TCP and Serial modbus for easy integration with building management systems.
- Offers easy configuration via USB interface, no power needed.
- Supports an on-board Ethernet interface that enables remote monitoring and email notification.
- Displays an LCD user interface that allows for detailed device information and interaction such as the following.
  - Active faults
  - Reset of airflow baseline
  - Test/reset/isolate
  - Precise airflow monitoring
- Produces configurable air flow fault thresholds and verification period.
- Designed with convenient wiring compartment.
- Shows the status-at-a-glance that provides immediate alarm, fault and airflow status.

SIGNALING



LISTED
S1913  7259-1653:0236

# Specifications

**Conventional FAAST XT Specifications**
**Electrical Specifications**

| | |
|---|---|
| **External Supply Voltage** | 18-30 VDC |
| **Remote Reset Time** | External monitor must be pulled low for a minimum of 100 ms |
| **Power Reset** | 1 second |
| **Avg. 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 |

**Environmental Ratings**

| | |
|---|---|
| **Operating Temperature** | 32°F (0°C) to 100°F (38°C); Factory Tested to 133°F (55°C) |
| **Sampled Air Temperature** | -4°F (-20°C) to 140°F (60°C) |
| **Humidity Range** | 10 to 95% (non-condensing) |
| **Sensitivity Range** | 0.00046% Obs/ft to 6.25% Obs/ft (0.0015% Obs/m to 20.5% Obs/m) |
| **IP Rating** | IP30 |
| **Coverage Area** | 28,800 sq.ft. (2,676 sq.m) |
| **Air Movement** | 0-4,000 ft./min. (0-1,219 m/min.) |

**Physical Specifications**

| | |
|---|---|
| **Height** | 13.3 in (338 mm) |
| **Width** | 13.1 in (333 mm) |
| **Depth** | 7.5 in (191 mm) |
| **Cable Access** | 4 1-inch (2.54 cm) cable entry holes located on top, bottom and back of the unit |
| **Wire Gauge** | 12 AWG (2.05 mm) max. to 24 AWG (0.5 mm) min. |
| **Maximum Single Pipe Length** | 400 ft. (123 m) (*other there pipes disabled) |
| **Total Pipe Length** | 1050 ft. (320 m) (*all designs must be verified within PipeIQ software) |
| **Multiple Pipe Network** | 262 ft. per pipe |
| **Network Outside Pipe Diameter** | 1.050 inches, IPS (25 mm) |
| **Internal Pipe Diameter** | 0.591 to 0.827 inches (15-21 mm) |
| **Sensitivity Range** | 0.00046%Obs/ft to 6.25% Obs/ft (0.0015%Obs/m to 20.5%Obs/m) |
| **Relays** | 8 Form C, 3 AMP, programmable latching or non-latching |

**Diagnostic Specifications**

| | |
|---|---|
| **Event Log** | 18,000 events stored |
| **Trend Data Log** | Configurable sampling period (1 minute to 1 day) |
| **Service Log** | 300 custom user entries |

**Networking Specifications**

| | |
|---|---|
| **Communication Network** | Ethernet monitoring, 6 E-mail address alerts, TCP and Serial Modbus |
| **Network Services** | DHCP, SMTP, HTTP, MODBUS/ TCP, AutoIP, NetBIOS-NS, Serial MODBUS |

# Specifications (Continued)

**Networking Specifications (Continued)**

| | |
|---|---|
| **Ethernet** | 10/100Mbps, MDI-X |
| **Modbus** | TCP or Serial RS- |
| **Email** | 6 recipients, sel. notifications |
| **Webserver** | Read Configuration, Live View, Logs |

**Configuration Specifications**

| | |
|---|---|
| **PipeQ** | USB or Ethernet |
| **Modbus** | Ethernet or RS-485 |

Figure 1 illustrates the FAAST XT user interface display.



Figure 1 - 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 and Flow and Fault graph

# Ordering Information

| Part Number | Description |
|---|---|
| **9400X** | System Sensor Conventional FAAST Fire Alarm Aspiration Sensing Technology |

**Accessories**

| | |
|---|---|
| **Various†** | UL®-Approved Pipe and Fittings |

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