



# FAAST XM Conventional Aspirating Smoke Detector

*FAAST aspirating smoke detectors deliver highly accurate Very Early Warning Fire Detection and extensive communication capabilities to provide maximum protection in challenging environments.*

## Product Overview:

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The **FAAST XM Conventional Aspirating Smoke Detector (8100)** combines **Dual Vision** (blue LED and infrared laser) optical smoke detection with a superior air sampling system and advanced detection algorithms.

The detector provides class A, B or C smoke detection, using an air sampling system that continuously draws air from the controlled environment into the detector chamber through a sampling pipe.

The three-stage filtering and particle rejection system ensures high sensitivity to smoke with excellent immunity to nuisance particles. The particle separator ensures that heavy particles bypass the detection chamber, extending filter life and preventing detection chamber contamination. An easily replaceable filter protects the chamber from other large particles. The shape of the detection chamber is designed to resist the build-up of nuisance particles. The **Dual Vision** sensing system employs advanced software to combine the signals from two separate light sensors for maximum smoke sensitivity while rejecting signals from nuisance particles.

The detector can be monitored through its integral display, from a computer connected to the device, or remotely through a web browser. When suitably connected, the detector can e-mail status updates to appropriate personnel.

Users are guided through pipe layout design and detector configuration by the FAAST PipeIQ®\* design, configuration and monitoring software.



**FAAST 8100 Conventional Aspirating Smoke Detector**

## Features:

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- » Draws air through a network of sampling pipes
- » High sensitivity for extremely early smoke detection
- » Five alarm levels and three modes (Standard, Day/Night/Weekend & Acclimate™) for application flexibility
- » Day/Night/Weekend mode enables pre-set thresholds based on routine changes in the environment's usage
- » In Acclimate™ mode the detector automatically adjusts thresholds to current environmental conditions
- » Dual flow detection including ultrasonic and electronic sensing for pipe and chamber airflow measurement
- » 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
- » Onboard Ethernet interface enables remote monitoring and e-mail status updates
- » Ethernet interface for remote monitoring and configuration
- » Unique air flow pendulum graph verifies pipe network functionality
- » Particulate graph displays subtle environmental changes for early problem indications

## Specifications:

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» Smoke Sensor	Optical <b>Dual Vision:</b> blue LED and infrared laser
» Sensitivity Range	0.00095 % obs/m to 20.5 % obscuration/m
» Air Inlet	One. Optional top or bottom entry
» Maximum Coverage Area	1000 m <sup>2</sup> †
» Air Movement	0 - 1200 m/min
» Single Pipe Length ‡	Up to 80 m (Indicative) †
» Aggregate Pipe Length	Up to 137 m (Indicative) †
» Maximum Air Inlet Holes	36 holes †
» Pipe Outside Diameter	25 mm
» Pipe Internal Diameter	21 mm
» External Supply Voltage	18 VDC to 30 VDC
» Operating Current	Average 415 mA @ 24 VDC Alarm 465 mA @ 24 VDC – All relays active, all alarm levels displayed
» Relays	Eight, programmable latching or non-latching
» Relay Contacts	Changeover (NC-C-NO), 3.0 A @ 30 VDC, 0.5 A @ 125 VAC
» Communication Network	Ethernet monitoring; 6 email address alerts; TCP
» Event Log	18,000 events stored
» Cable Access	Four 25 mm Ø cable entry holes on top and bottom of unit
» Wire Size	0.2 mm <sup>2</sup> min. to 2.5 mm <sup>2</sup> max.
» Operating Temperature	-10 °C to 55 °C
» Sampled Air Temperature	-20 °C to 60 °C
» Humidity	10 to 95% RH, non-condensing
» IP Rating	IP30
» Dimensions	337 mm x 330 mm x 127 mm      H x W x D
» Shipping Weight	5.3 kg including packaging

## Listings and Approvals:

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ActivFire: AFP - 2763

## Ordering Information:

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Product Code	Description
8100	FAAST XM Stand Alone Aspirating Smoke Detector (1,000 m <sup>2</sup> )
FAAST-FILTER30MICRON	FAAST 8000 & 9000 Series 30 Micron Air Filter

\* PipelQ® can be downloaded from [www.pertronic.com.au](http://www.pertronic.com.au)

† Indicative maximum pipe lengths for standard fire detection (SFD) to UL Standards. Designs to AS1670 or NZS4512 may allow longer pipe lengths. Designs for Early Warning Fire Detection (EWFD) and Very Early Warning Fire Detection (VEWFD) may require shorter pipe lengths. **All sampling pipe system designs must be verified using PipelQ.**

‡ Single pipe length: The length of pipe in a single branch system.

FAAST Fire Alarm Aspiration Sensing Technology® is a trademark of System Sensor, 3852 Ohio Avenue, St. Charles, IL.