

## Head Office

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ISO 9001: 2008

International  
Standards  
Certifications  
QAC/R64/0012

*FAAST analogue addressable aspirating smoke detectors deliver highly accurate Very Early Warning Fire Detection directly over the analogue addressable loop to a fire alarm panel, enabling maximum protection in mission-critical and challenging environments.*

## Product Overview:

The **FAAST XT Intelligent Aspirating Smoke Detector (9251BPI)** combines **Dual Vision** (blue LED and infrared laser) optical smoke detection with advanced detection algorithms, a wide-area sampling system, and intelligent fire alarm panel connectivity using an analogue addressable loop.

The detector incorporates 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 smaller particles. The shape of the detection chamber is also 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. FAAST XT 9251BPI can accurately detect incipient fire conditions before a fire actually starts.

The detector can be connected to an analogue addressable loop for direct communication with a fire alarm panel. The FAAST XT 9251BPI detector is uniquely identified at the panel as a FAAST detector. FAAST's PipeIQ®\* software allows the detector's sensitivity levels to be configured to match the panel's pre-alarm and alarm settings. The device can also be monitored through its integral display, from a computer connected to the device, or remotely through a web browser. When suitably connected, FAAST XT 9251BPI can send out status updates by email.

The FAAST XT 9251BPI is fully compatible with the Pertronic F120A fire alarm panel and the F100A fire alarm panel, the Pertronic network system and Pertronic FireMap™ Graphics System.

## Features:

- ▶ Analogue addressable loop connectivity
- ▶ Protects up to 2650 m<sup>2</sup> in standard coverage applications
- ▶ High sensitivity for extremely early smoke detection
- ▶ Five alarm levels: Alert, Action 1, Action 2, Fire 1 and Fire 2
- ▶ Two operating modes (Day/Night/Weekend and 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
- ▶ Configurable 3-speed fan allows for maximum coverage area or minimum current consumption
- ▶ Easy configuration via USB or Ethernet
- ▶ Ethernet interface enables remote monitoring, configuration, web server and e-mail
- ▶ LCD display provides interactive access to detailed information and user control functions
- ▶ Configurable air flow fault thresholds and verification period
- ▶ Unique air flow pendulum graph verifies pipe network functionality
- ▶ Particulate graph displays subtle environmental changes for early indication of problems



**FAAST 9251BPI Intelligent Aspirating Smoke Detector**

## Specifications:

▶ 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	Four. Optional top or bottom entry
▶ Maximum Coverage Area	2650 m <sup>2</sup> †
▶ Air Movement	0 – 1200 m/min
▶ Single Pipe Length	Up to 123 m (Indicative) (The length of pipe in a single branch system) ‡
▶ Aggregate Pipe Length	Up to 320 m (Indicative) ‡
▶ Pipe Outside Diameter	25 mm
▶ Pipe Internal Diameter	21 mm
▶ External Supply Voltage	18 Vdc to 30 Vdc
▶ Operating Current	Fan Low – 220 mA; Fan Med – 340 mA; Fan High – 465 mA: @ 24 Vdc
▶ Alarm Current	Fan Low – 248 mA; Fan Med – 368 mA; Fan High – 493 mA: @ 24 Vdc
▶ Average Loop Current	700 µA
▶ Loop Voltage Range	15 Vdc to 32 Vdc
▶ Relays	Six, 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; serial Modbus
▶ Event Log	18,000 events stored
▶ Trend Data Log	Configurable sampling period 1 minute to 1 day
▶ Service Log	300 custom user entries
▶ Ethernet	10/100 Mbps, MDI-X
▶ Network Services	DHCP, SMTP, HTTP, Auto IP, NetBIOS-NS
▶ Email	6 recipients, selectable notifications
▶ Web Server	Read Configuration, Live View, Logs
▶ Configuration	PipelQ® *, via USB or Ethernet
▶ Cable Access	Four 25 mm Ø cable entry holes on top (2), bottom and back of unit
▶ Wire Size	0.2 mm <sup>2</sup> min. to 2.5 mm <sup>2</sup> max.
▶ Operating Temperature	0 °C to 38 °C; Factory tested to 55 °C
▶ Sampled Air Temperature	-20 °C to 60 °C
▶ Humidity	10 % to 95 % RH, non-condensing
▶ IP Rating	IP30
▶ Dimensions	338 mm x 333 mm x 191 mm                      H x W x D
▶ Shipping Weight	6.9 kg including packaging

## Ordering Information:

Product Code	Description	NZFPFA Listing No:
9251BPI	FAAST XT AA Loop Based 4 Pipe Aspirating Smoke Detector (2,000 m <sup>2</sup> )	PI/362
FAAST-FILTER30MICRON	FAAST 8000 & 9000 Series 30 Micron Air Filter	

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

† The maximum permissible zone area for a particular installation may be limited by applicable codes, standards, and/or specifications. AS1670.1-2004 and NZS4512:2010 restrict the zone area to 2000m<sup>2</sup> or less, depending on site details.

‡ 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.

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

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