Frequently Asked Questions | FAAST FLEX™

LEARN MORE: XTRALIS.COM

Table of Contents

1. General FAQs 2
2. ASPIRE FAAST FLEX FAQs 6
3. FAAST FLEX Bluetooth App FAQs 7

1. General FAQs

Q 1: What is the technical specification of FAAST FLEX?

A: The table below lists key technical specification of FAAST FLEX

General Specifications:

Flow Sensor Number	1 per channel		
Level of Alarm	Pre-Alarm & Alarm per channel		
Area Coverage	Single Chamber: 1,600m² (17,200 sq.ft) Dual Chamber: 2,000m² (21,527 sq.ft)		
Pipe Network Layout	**Single Pipe**	Linear pipe length:	1 x 105m (344 ft)
		Branch pipe length:	2 x 105m (344 ft)
			4 x 68m (223 ft)
	Dual Pipe	Linear pipe length:	2 x 105m (344 ft)
		Branch pipe length:	4 x 105m (344 ft)
			8 x 49m (161 ft)
Sampling Holes	**Single Chamber**	A, B, C: 5, 15, 32	
	Dual Chamber	A, B, C: 8, 28, 56	
General Purpose Input (GPI)	Reset, Disable, External Fault		
Out-of-Box Configuration	DIP Switches		
Field Replaceable Components	Sensing Module, Metal Filter, Front Cover, Aspirator, Internal Covers and Adaptor Set		
Data Loggings	Device Info, Device Configuration, Device Status Logged Events and Data		
Communication	USB & Bluetooth		

Electrical Specifications:

Detector Dynamic Sensitivity	
Supply Voltage	24 V DC (18 - 30 V DC)
Maximum Power Consumption	Single Pipe: 400mA @24Vdc Dual Pipe: 450mA @24Vdc
Relays	3 per channel, Action, Alarm and Fault 2A @30V
Detector Sensitivity Range	0.05%obs/m to 6.56%obs/m (0.164%obs/ft – 21.5%obs/ft)

Environmental Specifications:

Operating Conditions	
Operating Temperature	-40 °C to 55 °C
Sampled Air Temperature	-40 °C to 55 °C
Humidity	10-93% RH
Ingress Protection Rating	IP40

For comprehensive specifications, please refer to the technical datasheet on the Xtralis website (Doc. no. 36502).

Q 2: Does FAAST FLEX have filters? If so, how many and can they be cleaned?

A: Each pipe inlet of the detector has 1 mesh type field replaceable filter. The FAAST FLEX filter mesh can be washed and cleaned.

Q 3: Can FAAST FLEX be mounted without a mounting bracket?

A. Yes, FAAST FLEX can be mounted directly on a surface via key holes on the back of the enclosure.

Q 4: What are the different mounting options for FAAST FLEX?

A. 2 mounting options (Upright & Inverted).

Q 5: Would FAAST FLEX be able to give an indication if there is a blockage in a single hole on a pipe?

A: Can detect 20% flow change in the pipe (ultrasonic flow sensing technology).

Q 6: Is the FAAST FLEX Aspirator adjustable?

A: Yes, to suit various environments.

Q 7: What approvals does the FAAST FLEX have?

A: VdS, EN 54-20, NF and ActivFire. It is not UL certified.

Q 8: Is the FAAST FLEX compatible with VESDA Pipe Clips?

A: Yes, FAAST FLEX can work with the VESDA Pipe Clips.

Q 9: Are there pipe packages available for FAAST FLEX?

A: Yes, package options are available depending on the region and application.

Q 10: I have an old ICAM IAS/ILS or FAAST LT unit on the wall; what do I need to do to replace it?

A: The existing pipe network design shall be verified using pre–engineered network tables or ASPIRE with an appropriate FAAST FLEX model.

Q 11: How are the optics protected in FAAST FLEX?

A: Metallic mesh filters at the inlet and exhaust to protect detector optics and improve detector longevity.

Q 12: What are the configuration modes of FAAST FLEX?

A: Two configuration modes:

- Out-of-box with built in user-friendly DIP switch configuration for speedy commissioning
- Extended configuration via Bluetooth phone App for enhanced user experience.

Q 13: What are the field replaceable components of FAAST FLEX?

A:

- Sensing Module (FLX-SP-01)
- Metal Filter (FLX-SP-02)
- Aspirator (FLX-SP-04)
- Front Cover (FLX-SP-03-EN)
- Internal Covers (FLX-SP-05-EN)
- FAAST FLEX Adaptor Set (FLX-SP-06)

Q 14: Is FAAST FLEX suitable for cold storage environments?

A: Yes, FAAST FLEX is suitable for cold storage environments with -40 °C (-40°F) operating temperature. The detector has been tested and approved by VdS to operate at such low temperature inside freezer applications. For properly operated and maintained cold storage environments, the detector IP40 rating provides sufficient protection against ingress of crystallized water vapour.

Q 15: How much does a FAAST FLEX detector cost?

A: Please refer to your Regional Sales Director for pricing information.

Q16: Does the two-pipe version have two aspirators or only one?

A: One fan.

Q 17: Is the branding Xtralis or System sensor?

A: Xtralis.

Q 18: Does two pipes mean two sectors or one sector?

A: FAAST FLEX 2CH model has 2 sectors (i.e., 2 detection chambers).

Q 19: Are Pre-engineered pipe tables and ASPIRE available for FAAST FLEX?

A: Yes, ASPIRE will be available after the launch.

Q 20: Which inline filter will be used with FAAST FLEX?

A: The Xtralis in-line filter VSP-850 and System Sensor F-INF-25.

Q 21: How can FAAST FLEX be integrated with 3rd parties?

A: The first release supports relays only, whereas future releases will support Modbus interface, System Sensor and Notifier Advanced protocol, Clip for Chinese market and ESSER interfaces.

Q 22: How to configure the GPI settings?

A: Currently you cannot. The default GPI setting out of the box is Reset. The option of configuring the GPI settings will be available when the FAAST FLEX Bluetooth app is available.

Q 23: How to change the date and time of the detector?

A: The factory set the GMT for the detector before shipping to the customer. You can change the time from GMT to the local time by increasing or decreasing the current values with 30 minutes interval. The maximum adjustment is +/= 14 hours. The commands are as follow:

Long press on the ENTER button (5 seconds), LEDs 1, 2, 3 and 4 blink steady yellow to confirm the command. After passcode is entered correctly, the POWER LED slow blinks green and FAULT LED blinks steady yellow.

The unit monitors the dipswitches and buttons until timeout expires (120 seconds) and returns to WAIT mode. You can change dipswitches settings. Push SILENCE and TEST buttons to change the time from GMT to the local increasing or decreasing the current value with steps of 30 minutes for a max of +/-14 hours. The date is automatically updated if needed. The Alarm 2 LED blinks green for every increment while the Action 2 LED blinks green for every decrement.

Q 24: What are the recommendations for cold storage applications?

A: We recommend installing a water trap and inverting the detector when the detector is installed inside a cold storage. Whether the detector is installed inside or outside the cold storage, if there is a frequent opening for entry and exit of the cold storage, the condensation cannot be avoided, However, installing the detector inside the cold storage can have the following advantages comparing installing it outside:

- No drilling holes through the wall of the cold storage for pipes.
- No need to pipe back the exhaust air to the same cold storage to avoid pressure different.
- Lesser condensation and hence, less frequent in emptying the water trap.

Cold storage will eventually be defrosted at some stage (maybe once a month, 6 or 12 months) for cleaning. Inverting the detector and installing a water trap would minimize nuisance alarms and faults during the defrosting process.

Q 25: What are FAAST FLEX ordering codes?

A: Refer to the Datasheet (Doc. No. 36502) for ordering codes.

Q 26: What support material is available for FAAST FLEX?

A:

Document Title	Document No.
FAAST FLEX TDS	36502
FAAST FLEX Product Brochure	36622
FAAST FLEX Product Guide	36639
FAAST FLEX Product Bulletin	36642
FAAST FLEX Engineering Specs	36885
FAAST FLEX Lift/Shaft Application Note	36745
FAAST FLEX Double Knock Application Note	36811
FAAST FLEX Refrigerated Design Guide	36701

2. ASPIRE FAAST FLEX FAQs

Q 1: What's the maximum transport time for Classes A, B and C?

A:

- Class A: 90 seconds
- Class B: 90 seconds
- Class C: 110 seconds

Q 2: What's the minimum system balance?

A: The target system balance is currently as follows:

- Class A: 70%
- Class B: 70%
- Class C: 65%

However, it will be fixed in the next version to be >= 70%.

Q 3: What is the minimum accepted flow?

A: The recommended minimum flow should not be less than 2.0 l/min

3. FAAST FLEX Bluetooth App FAQs

Q 1: What does the Bluetooth app offer for Detectors?

A: The Bluetooth app offers a simplified user experience that enables additional configuration options beyond the dip switch.

Features include:

- Configuration of Fan speeds and Alarm settings
- Alarm status and smoke levels per channel
- Log view for events
- Flow Normalisation settings

Q 2: Do I need the Bluetooth app to achieve the performances listed in the TDS?

A: No, the Bluetooth app offers only additional configuration options but doesn't change the maximum performance the detector can achieve. For designs requiring the full-length pipe length as specified in the TDS, this can be generated via the FAAST FLEX ASPIRE modelling tool that calculates the necessary configuration. The configuration recommended via ASPIRE is in a format that can be implemented via Dipswitches or the Bluetooth app.