Xtralis XAS Smoke Detector

The Xtralis XAS Air-sampling Smoke Detection system provides a flexible detection solution to meet unique needs of challenging applications found in typical commercial and industrial sites. The XAS solution is well suited to installations where access to the monitored areas is restricted and provides tamper-proof and unobtrusive detection. The ability to mount the device outside the protected area makes it ideal for use in applications such as correctional facilities, transformer vaults, cable tunnels, elevator machine rooms and HVAC ducts.

The XAS systems actively draw air from the protected area through sampling holes in a pipe network. Sampled air is then filtered before being analyzed by a compatible Advanced Axis AX Series Intelligent Fire Alarm Control Panel SLC smoke detector. The XAS system is available with one inlet pipe (XAS-1) or two inlet pipes (XAS-2), and can be used with one or two analog detectors.

		XAS-1	XAS-2
Two Detector Strategy	Dual Addressable areas		√
	Redundancy	√ (OR)	√ (OR)
	Coincident / Double Knock *	√ (AND)	√ (AND)

* Subject to local codes and standards

Note: (OR / AND) represents the suggested programming logic for combining two analog detectors to achieve detection strategy.

Features

- Compatible with Advanced Axis AX Series SLC Loops
- Single or Dual Inlet Detection
- High Performance Aspirator
- Multiple Programmable Detection Strategies
- Multiple Piping Options
- 164 ft (50 m) Maximum per Unit
- 50 ft (15 m) Maximum per Flexible Tube
- Microprocessor Controlled
- Integral Display and Programmer
- Field Serviceable Air Filter
- Adjustable Aspirator Speed with Airflow Monitoring

Listings and Approvals

- ETL ANSI/UL 864 Listed: 101564744NYM-001
- UL-268
- UL-268A
- ULC-529

The systems may be configured for a number of detection strategies including:

- Single or dual analog addressable area detection
- Redundant analog detection
- Coincident or double-knock detection

Detector Configuration Options:
Several configuration options are available for the XAS-1 and XAS-2 systems:

- XAS-1 system – one or two analog detectors (shared inlet)
- XAS-2 system – two analog detectors (dual inlet)

XAS-1 systems with one analog detector are capable of providing single area detection, but XAS-1 and XAS-2 systems with two analog detectors are able to provide a number of detection strategies. The table below describes the recommended configuration options to fi t the selected detection strategy when two analog detectors are installed into an XAS system.

Specification

Supported Detectors	1 or 2 - analog photoelectric smoke detectors Sensitivity Range: 1.30 %/ft - 3.43 %/ft Air Velocity Range: 0 - 4000 FPM 4 in. mounting base
Supply Voltage	24 VDC nominal
Current:	350 mA maximum In-Rush 680 mA
Dimensions (WHD)	10.2 in x 12.6 in x 6.5 in (259 mm x 321 mm x 166 mm)
Weight	XAS-1: 7.27 lbs (3.3 kg) XAS-2: 7.5 lbs (3.4 kg)
Operating Conditions	Tested to: 14 °F to 131 °F (-10 °C to 55 °C) Recommended Detector Ambient: 32 °F to 100 °F (0 °C to 38 °C) Sample Air: 4 °F to 140oF (-20 °C to 60 °C) Humidity: 10% to 95% RH, non-condensing
Air Inlet Pipe	Accepts both metric and American standard sizes. Metric: 25 mm (1.05 in.) American pipe: 3/4 in. I.D. (21 mm) Flexible tubing: 3/4 in. O.D. (19 mm)
Sampling Network	Pipe length: up to 164 ft (50 m) total per device Flexible tube length: maximum 50 ft (15 m)
IP Rating	IP30 wiring enclosure Detector enclosure: IP65
Filtration	Serviceable filter External filter optional
Flow Monitoring and Reporting	High and low programmable flow limits
Aspirator	Control: 10 programmable speeds Pressure: 250 Pa
Relay Outputs	XAS-1: 1 fault relay output XAS-2: 2 fault relay outputs
Field Wiring	Screw Terminals 18 to 10 AWG (0.9 to 5.5 sq. mm) solid 20 to 12 AWG (0.6 to 3.5 sq. mm) stranded

Order Codes and Options

XAS-1-US	Air-sampling Smoke Detector with 1 Inlet
XAS-2-US	Air-sampling Smoke Detector with 2 Inlets
58000-650	Enhanced Analog Photoelectric Smoke Detector
55000-650	Analog Photoelectric Smoke Detector
45681-234ADS	4 in. Low Profile Base

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As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

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