XAS-1 & XAS-2

XAS Smoke Detector

NOTIFIER® by Honeywell

Addressable Device

General

The 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 shafts, 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 the analog point detectors incorporated in the systems. The XAS system is available in a single zone (Order as XAS-1-US) or dual zone (Order as XAS-2-US), and can be used with one or two detectors per system. The systems utilize a high performance aspirator and programmable flow monitoring circuitry. Air flow level is displayed on a ten element bar graph that can be adjusted for high and low flow thresholds, and flow failure is reported as a device fault via relays to the monitoring system. Compatible with NOTIFIER ONYX, FireWarden, and CLIP series Fire Alarm Control Panels.

Features

- Single or dual zone fire detection.
- Multiple piping options.
- Multiple detection strategies.
- 164 ft (50 m) max. per unit.
- 50 ft (15 m) max. per flexible tube.
- Microprocessor controlled.
- High performance aspirator.
- Integral display and programmer.
- Field serviceable air filter.
- Adjustable aspirator speed with airflow monitoring.

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

- single or dual addressable area detection.
- redundant detection.
- coincident or double-knock detection.

Specifications

Supported Detectors:

- **FSP-851:** Addressable photo detector.
- **FSA-851A:** Addressable photo detector for use with ULC applications.
- **B501/B501A:** Flangeless mounting base.
- **NP-100:** Addressable photoelectric detector.

FSP-851/FSA-851A/NP-100 ELECTRICAL SPECIFICATIONS

Voltage Range: 15-32 volts DC peak.

Standby Current (max. avg.): 300µA @ 24VDC (one communication every five seconds with LED enabled).



XAS-2

LED Current (max.): 6.5mA @ 24 VDC ("ON").

NOTE: *The spot (point) detectors are powered from the Signaling Line Circuit (SLC).*

XAS Electrical Specifications

Supply Voltage:

24 VDC nominal ULC S527 listed power supply.

UL/ULC S24829 approved.

Current:

- 350 mA (max).
- 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:

Detector Operating Temperature range: 32°F to 120°F (0°C to 49°C).

Sampled Air: 32°F to 120°F (0°C to 49°C).

Humidity: 10% to 93% noncondensing.

Air Inlet Pipe:

Accepts both metric and American standard pipe sizes.

Metric: 25mm (1.05 in.).

American Pipe: ¾ in. I.D (21mm).

Flexible tubing: ¾ in.O.D (19mm).

SAMPLING NETWORK:

Pipe Length: Up to 164 ft (50 m) total per device.

Flexible Tube Length: Maximum 50 ft (15m).

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.

Ordering information

NOTE: *When ordering the XAS, add -US after the part number.*

XAS-1-US: Air-sampling Smoke Detector with single zone.

XAS-2-US Air-sampling Smoke Detector with dual zone.

FSP-851: Addressable photo detector.

FSA-851A: Addressable photo detector for use with ULC applications

B501/B501A: Flangeless mounting base.

NP-100: Addressable photoelectric detector.

LF42241: Single Zone Duct Installation Kit.

LF42243: Dual Zone Duct Installation Kit.

LF42246: 50' Flexible Dual Tube.

LF42247: 25' Flexible Dual Tube.

LF42249: 50' Flexible Single Tube.

LF42250: 25' Flexible Single Tube.

LF42285: 18" Probe Kit (one - 18" sample & one - 8" exhaust).

LF42286: 36" Probe Kit (one - 36" sample & one - 8" exhaust).

LF42287: 60" Probe Kit (one - 60" sample & one - 8" exhaust).

LF42288: 18" Probe Kit (two -18" sample & one - 8" exhaust).

LF42289: 36" Probe Kit (two - 36" sample & one - 8" exhaust).

LF42290: 60" Probe Kit (two - 60" sample & one - 8" exhaust.)

LF42282: Single Zone water trap kit.

LF42283: Dual Zone water trap kit.

06-NF10: Baffles for Spot Detector. (Package of 10).

SPARE PARTS

ISP-001: Replacement Filter Element FT series pack of 10 (Coarse 20 ppi)-Black

ISP-400: IAS-1 Display Kit

ISP-401: IAS-2 Display Kit

ISP-405-01: IAS Aspirator (EN)

ISP-406: IAS Cover removal tool

ISP-407: IAS Corner Studs (Pack of 4)

ISP-408: IAS Flow Sensor Assembly

Listings and Approvals

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- UL/ULC S24829.

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QUALITY SYSTEMS

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