# **Xtralis ICAM IAS**



The Xtralis ICAM IAS Air-sampling Smoke Detection systems provide a flexible solution to meet the unique needs of numerous applications including industrial spaces such as cable tunnels, the tamper-proof and unobtrusive requirements of special accommodation, or can simply be used to replace spot (point) detectors in office environments.

#### **How it Works**

The IAS systems actively draw air from the protected area through sampling holes in a pipe network. Sampled air is then filtered before being analyzed by conventional or analog point detectors incorporated in the systems. The IAS system is available with one inlet pipe (IAS-1) or two inlet pipes (IAS-2), and can be fitted with one or two detectors per system. A number of detector technology types (photoelectric, ionization, heat, CO etc.) from a range of leading technology providers may be used.

The systems utilize a high performance aspirator and software configurable 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 loop.

# **Detection Strategies**

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

- · single or dual addressable area detection
- redundant detection
- multi-criteria detection
- coincident or double-knock detection

Installer-specifiable point detectors offer benefits in simplicity of configuration and cost effectiveness. In circumstances where the premises are already protected by point detectors, the IAS system is easily introduced onto the existing fire alarm control panel signaling circuit by fitting equivalent detectors into the system.

# IAS-1 & IAS-2

### **Features**

- · Single or dual channel fire detection
- Multiple configuration options
- · Multiple detection strategies
- Up to 100 m (328 ft) per sampling pipe
- Microprocessor controlled
- · Highest fan capacity in its class
- Integral display and programmer
- · Field serviceable air filter
- Adjustable aspirator speed with airflow monitoring
- IP65 enclosure

# Listings/Approvals

- EN54-20 (VdS) (Sensitivity Class dependant upon point detector used)
- CE EMC
- CPD
- ActivFire



<sup>\*</sup> Subject to IAS system approval for the fitted spot (point) detector

# **Detector Configuration Options**

Several configuration options are available for the IAS-1 and IAS-2 systems:

- IAS-1 system one or two spot (point) detectors
- IAS-2 system two spot (point) detectors

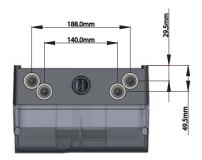
IAS-1 systems fitted with one spot (point) detector are capable of providing single area detection, but IAS-1 and IAS-2 systems fitted with two detectors are able to provide a number of detection strategies. The table below describes the recommended configuration options to fit the selected detection strategy when two spot (point) detectors are fitted into an IAS system.

		IAS-1	IAS-2
Two Detector Strategy	Dual Addressable Areas		✓
	Redundancy	✓ (OR)	✓ (OR)
	Multi-criteria	✓ (OR / AND)	✓ (OR / AND)
	Coincident / Double-Knock †	✓ (AND)	✓ (AND)

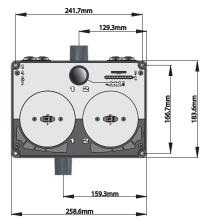
<sup>†</sup> Subject to local codes and standards

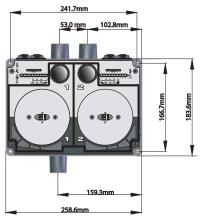
Note: (OR / AND) represents the suggested boolean logic for combining two detectors to achieve detection strategy

### **Dimensions**









# **Ordering Information**

Air-sampling Smoke Detector with 1 inlet Air-sampling Smoke Detector with 2 inlets

Baffles for Spot (Point) Detector (variety available) and for the use of IAS-1 system with one detector

IAS-1

IAS-2

Enquire with Xtralis representative

# **Specifications**

#### Supported detectors:

- 1 or 2 analog addressable or conventional spot (point) detectors
- a variety of detector technology types (photoelectric, ionization, heat, CO
- spot (point) detectors with universal screw mounting

#### Supply Voltage:

24 VDC nominal (18 to 30 VDC)

Note that spot (point) detectors are powered from the signaling circuit

#### Current:

300 mA (max)

#### Dimensions (WHD):

259 mm x 184 mm x 166 mm (10.2 in. x 7.2 in. x 6.5 in.)

# **Operating Conditions:**

Temperature: -10 to 60 °C (14 to 140 °F) Humidity: 10 to 95% RH (noncondensing)

### Inlet Pipe Size:

Outer Diameter: 25 mm (0.98 in.) Inner Diameter: 21 mm (0.83 in.)

#### Sampling Network:

Pipe Length:

Up to 100 m (328 ft) per inlet

Pipe length may vary subject to specifications by local codes and standards, please refer to your regional IAS product guide for further detail.

### IP Rating:

**IP65** 

#### Filtration:

Serviceable filter External filter optional

# Flow Monitoring and Reporting:

High and Low adjustable

#### Fan:

Control: 10 programmable speeds

Pressure: 250 Pa

# Relay outputs:

IAS-1 - 1 fault relay IAS-2 - 2 fault relays

#### www.xtralis.com

The Americas +1 781 740 2223 Asia +852 2916 8894 Australia and New Zealand +61 3 9936 7000 Europe, Middle East & Africa +44 1442 242 330

The contents of this document are provided on an "as is" basis. No representation or warranty (either express or implied) is made as to the completeness, accuracy or reliability of the contents of this document. The manufacturer reserves the right to change designs or specification without obligation and without further notice. Except as otherwise provided, all warranties, express in rimplied, including without limitation any implied warranties of merchantability and fitness for a particular purpose are expressly excluded.

This document includes registered and unregistered trademarks. All trademarks allogalyed are the trademarks of their respective owners. Your use of this document does not constitute or create a licence or any other right to use the name and/or trademark and/or label.

This document is subject to copyright owned by Xtralis AG ("Xtralis"). You agree not to copy, communicate to the public, adapt, distribute, transfer, sell, modify or publish any contents of this document without the express prior written consent of Xtralis.

Doc. no. 16299 01

