



### Features

- 4 or 6 pipe addressable air sampling
- 0.001% to 20% obscuration/m (0.0003% to 6.10% obscuration/ft)
- 4 Alarms - Alert, Action, Fire 1, Fire 2
- 4 x 100 m (4 x 328 ft) or 6 x 100 m (6 x 328 ft) large bore sampling pipe
- Enhanced performance aspirator
- Ethernet TCP/IP
- Modbus over RS232 and RS485
- 5 relay outputs and expandable
- Optional relay module and 4 to 20 mA analog output module
- Area coverage of up to 2000 m<sup>2</sup> (21 500 ft<sup>2</sup>)
- Event Log

### Listings/Approvals

- UL
- ULC
- FM
- CCC
- CE
- VdS
- NF
- EN 54-20

#### *Limits for IFT-4:*

- Class A (20 holes / 0.05% obs/m)
- Class B (48 holes / 0.06% obs/m)
- Class C (72 holes / 0.1% obs/m)

#### *Limits for IFT-6:*

- Class A (30 holes / 0.05% obs/m)
- Class B (72 holes / 0.06% obs/m)
- Class C (72 holes / 0.08% obs/m)

*Classification of any configuration is determined using ASPIRE2.*

Regional approvals listings and regulatory compliance vary between ICAM models.

The ICAM IFT-4 and IFT-6 detectors are multi-channel large bore air-sampling systems with an alarm sensitivity range from 0.001% to 20% obscuration/m (0.0003% to 6.10% obscuration/ft). These detectors are classified as a Very Early Warning Smoke Detectors and can reliably detect fire at an early stage, and low to high concentrations of smoke. As a multi-channel system, the IFT detector is able to divide a protected space into sampling sectors, enabling the localization of a fire for faster incident response.

The detectors are configurable for a variety of environments, providing ideal fire detection solutions for power stations, telecommunications and IT facilities, clean rooms, warehouses, cold storage, harsh and hazardous areas, historic buildings, museums, prison cells and technical cabinets.

### How it works

The IFT detector draws a combined air sample from a network of large bore pipes from all sectors in the protected area, then filters and analyzes the sample in a laser detection chamber. When smoke particles are detected and the smoke level reaches a TRACE alarm threshold, the system will sequentially scan the sectors via the rotary valve to identify the sector, or sectors, with the smoke condition. Alarm states (Alert, Action, Fire 1 and Fire 2) are shown on the display, when fitted, and communicated to a host fire alarm control panel.

### Product Features

#### Programming and Configuration

The four alarm levels are available for each channel and the sensitivity thresholds and delays for each of these alarms can be individually programmed per sector. The IFT detectors provide an option with a simple and comprehensive display that includes an LED array to show the measured smoke level for the currently selected pipe, and an on-board programmer for local configuration.

RS232, RS485 and TCP/IP communication interfaces are available to connect to Xtralis Configuration and Fire System Management software packages: Xtralis VSC and Xtralis VSM4. RS485 interfaces also allow connections to remote displays.

#### Inputs and Outputs

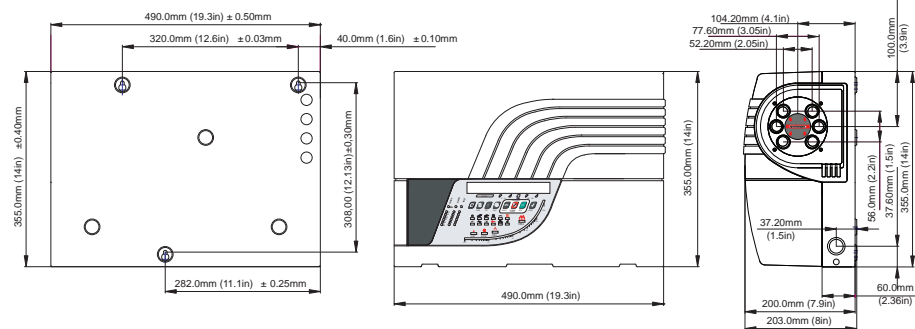
The systems support a range of optional modules, which provide the detector with additional programmable output relay interfaces and 4 to 20 mA analog outputs.

### Aspiration and Flow Sensing

The aspirator is a 2000 Pa high pressure and high volume fan, which provides superior detection times over long pipe lengths and reliable detection in high air flow environments. Airflow in each pipe is monitored by a dual element thermal sensing system, with airflow faults indicated on the display and to monitoring equipment.

### Dimensions

Note: Only the IFT-6 is shown below



### Ordering Information

IFT-4 24 VDC with Beacon and TCP/IP	IFT-4T
IFT-4 24 VDC with Display and TCP/IP	IFT-4DT
IFT-6 24VDC with Beacon and TCP/IP	IFT-6T
IFT-6 24VDC with Display and TCP/IP	IFT-6DT
4 Channel Relay Module <sup>1</sup>	01-E606-01
8 Channel Analog Output Module (4 to 20 mA) <sup>1</sup>	01-E624-00
IFT-4 Remote Display	01-E921-04
IFT-6 Remote Display	01-E921-06

#### Notes:

1. Please contact your nearest Xtralis office for approvals status.

### Specifications

#### Supply Voltage:

Nominal 24 VDC

#### Supply Current:

500 mA (min) to 1.2 A (max)

#### Capacitive Loading:

Nominal 10,000 uF

#### Aspirator:

2000 Pa Centrifugal air pump

#### Dimensions (WHD):

490 mm x 355 mm x 200 mm  
(19.3 in. x 14.0 in. x 7.9 in.)

#### Operating Conditions:

Ambient:

0 to 39°C (32 to 103°F) \*

Tested to:

-10 to 55°C (14 to 131°F)

Sampled Air:

-20 to 60 °C (-4 to 140°F)

Humidity:

10 to 95% RH (non-condensing)

#### Sampling Pipe Size:

Outer Diameter:

25 mm, or;

1.05 in (3/4" pipe) with adaptor

#### Sampling Network:

Sectors:

4 Fire sectors (IFT-4)

6 Fire sectors (IFT-6)

Pipe Length:

4 x 100 m (4 x 328 ft) for IFT-4 or

6 x 100 m (6 x 328 ft) for IFT-6

#### Alarm Sensitivity Range:

0.001% to 20% obs/m

(0.0003% to 6.10% obs.ft)

#### Alarm Settings:

Alarm levels: Alert, Action, Fire 1 and Fire 2

*Individually programmable for each level*

#### IP Rating:

IP30

#### Filtration:

Field exchangeable dual stage filter

#### Flow Monitoring:

Twin thermal element per input pipe

#### Relay Outputs:

4 alarm relays, 1 fault relay, 1 Amp changeover

Rating 1A @ 30 VDC, NO/NC

#### Communication:

RS232, RS485 Modbus

Ethernet TCP/IP

#### Event Log:

Up to 20,000 events stored

\* UL Listed Detector Installed Ambient conditions  
0 °C to 38 °C (32 °F to 100 °F)

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