



The ICAM IFT-15 detectors are multi-channel microbore air-sampling systems with an alarm sensitivity range from 0.0003% to 6.10% obscuration/ft (0.001% to 20% obscuration/m). 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 cabinets, EDP rooms, prisons, historic houses, custody suites, museums and art galleries.

### How it works

The IFT detector draws a combined air sample from a network of microbore flexible tubing 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 and communicated to a host fire alarm control panel.

### Product Features

#### Programming and Configuration

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

RS232, RS485 and TCP/IP communication interfaces are provided as standard 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

IFT detectors support a number of additional modules. These provide the detector with programmable output relay interfaces and 4 to 20 mA analog outputs.

### Features

- 15 pipe addressable air sampling
- 0.0003% to 6.10% obscuration/ft (0.001% to 20% obscuration/m)
- 4 Alarms - Alert, Action, Fire 1, Fire 2
- 15 x 164 ft (15 x 50 m) microbore sampling pipe
- Reliable linear pump technology
- Ethernet TCP/IP
- RS232 and RS485 Modbus
- 5 relay outputs and expandable
- Optional relay module and 4 to 20 mA analog output module
- Area coverage of up to 13,500 ft<sup>2</sup> (1500 m<sup>2</sup>)
- Event Log

### Listings/Approvals

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

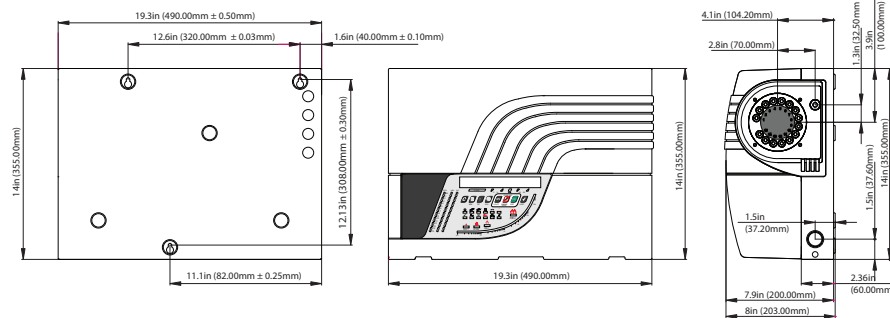
Regional approvals listings and regulatory compliance vary between ICAM models.

## Aspiration and Flow Sensing

The aspirator is a linear vacuum pump, which provides superior detection times over long tube lengths and reliable detection in high air flow environments.

Airflow in each tube is monitored by a differential pressure sensor, with airflow faults indicated on the display and to monitoring equipment.

## Dimensions



## Ordering Information

IFT-15 24 VDC, Display/Programmer, TCP/IP, Class A/B/C

4 Channel Relay Module<sup>1</sup>

8 Channel Analog Output Module (4 to 20 mA)<sup>1</sup>

IFT-15 Remote Display<sup>1</sup>

IFT-15DT

01-E606-01

01-E624-00

01-E921-15

### Notes:

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

## Specifications

### Supply Voltage:

Nominal 24 VDC

### Supply Current at 24 VDC:

Power:

31.2 W Quiescent, 32.0 W Scanning

Current:

1.30 A Quiescent, 1.33 A Scanning

Capacitive Loading:

Nominal 10,000 uF

### Aspirator:

Linear vacuum pump

### Dimensions (WHD):

19.3 in. x 14.0 in. x 7.9 in.

(490 mm x 355 mm x 200 mm)

### Operating Conditions:

Recommended Detector Ambient:

32 to 103 °F (0 to 39 °C) \*

Tested to:

14 to 131 °F (-10 to 55 °C)

Sampled Air:

4 to 140 °F (-20 to 60 °C)

Humidity:

10 to 95% RH (non-condensing)

*Please consult your Xtralis office for operation outside these parameters or where sampled air is continually above 0.015% obs/ft (0.05% obs/m) under normal operating conditions.*

### Microbore Tube Size:

Outer Diameter: 0.24 in. (6 mm)

Inner Diameter: 0.16 in. (4 mm)

### Microbore Tube Length:

15 x 164 ft (15 x 50m)

Pipe Length: 164 ft (50m)

### Alarm Sensitivity Range:

0.0003 to 6.10 % obs/ft (0.001 to 20 % obs/m)

### Alarm Settings:

Alert, Action, Fire 1 and Fire 2

*Individually programmable for each level*

### IP Rating:

IP30

### Filtration:

Field exchangeable dual stage filter

### Flow Monitoring:

Differential pressure sensor

### Relay Outputs:

4 alarm relays, 1 fault relay

Rated 2 A @ 30 VDC NO/NC Contacts

### Communication:

RS232, RS485 Modbus, Ethernet TCP/IP

### Event Log:

Up to 20,000 events stored

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

www.xtralis.com

UK and Europe +44 1442 242 330 D-A-CH +49 431 23284 1 The Americas +1 781 740 2223

Middle East +962 6 588 5622 Asia +86 21 5240 0077 Australia and New Zealand +61 3 9936 7000

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 specifications without obligation and without further notice. Except as otherwise provided, all warranties, express or implied, including without limitation any implied warranties of merchantability and fitness for a particular purpose are expressly excluded.

Xtralis, Xtralis logo, The Sooner You Know, VESDA, ICAM, ECO, OSID, HeiTel, ADPRO, IntrusionTrace, and LoiterTrace are trademarks and/or registered trademarks of Xtralis and/or its subsidiaries in the United States and/or other countries. Other brand names mentioned herein are for identification purposes only and may be trademarks of their respective holder(s). Your use of this document does not constitute or create a license or any other right to use the name and/or trademark and/or label.

This document is subject to copyright owned by 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. 17537\_10

Part no. 29618

