The ICAM IFT-P detector is an air-sampling system with an alarm sensitivity range from 0.0003% to 6.10% obscuration/ft (0.001% to 20% obscuration/m). This detector is classified as a Very Early Warning Smoke Detector that can reliably detect fire at an early stage, and low to high concentrations of smoke over an area of up to 21,500 ft^2 (2000 m^2).

The detector is configurable for a variety of environments, providing an ideal fire detection solution for telecommunications and IT facilities, and heavy industrial environments such as chemical plants, factories, warehouses and mining facilities.

How it works

The IFT-P detector draws air through sample holes in a pipe network, then filters and analyzes the sample in a laser detection chamber. Individually programmable alarm states (Alert, Action, Fire 1 and Fire 2) are shown on the display, which contains four alarm LEDs and an OK/Fault LED. Dedicated output relays also provide interfaces for each alarm state and device faults.

Product Features

Programming and Configuration

RS232, RS485 and optional 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, and the TCP/IP Ethernet interface can provide access to an email messaging service.

Inputs and Outputs

The IFT-P detector supports a maximum of three 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.
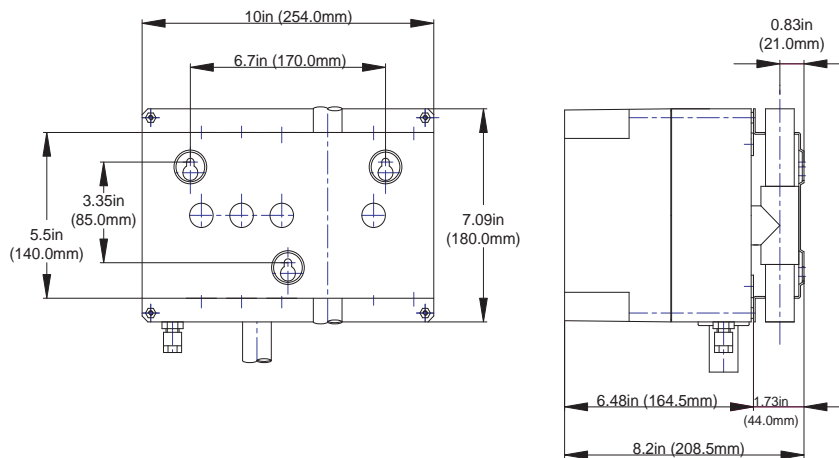
Features

- Single zone
- Dual pipe air sampling
- 0.0003 % to 6.10 % obs/ft (0.001% to 20% obscuration/m)
- 4 Alarms - Alert, Action, Fire 1, Fire 2
- 2 x 328 ft (2 x 100 m) sampling pipe
- Enhanced performance aspirator
- Ethernet TCP/IP
- RS232 and RS485 Modbus
- 5 relay outputs and expandable
- Optional relay module and 4 to 20 mA analog output module
- Event Log
- Area coverage of up to:
  - 21,500 ft^2 (2000 m^2) for VdS installations
  - 9150 ft^2 (850 m^2) for UL installations

Listings/Approvals

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

Regional approvals listings and regulatory compliance vary between ICAM models.

ICAM™
by ◆ **xtralis**®

Dimensions

Ordering Information

IFT-P 24 VDC with TCP/IP	IFT-PT
4 Channel Relay module[1]	01-E606-02
8 Channel Analog Output module (4 to 20 mA)[1]	01-E624-01

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 5.000 uF

Aspirator:
2000 Pa Centrifugal air pump

Dimensions (WHD):
10.0 in. x 7.1 in. x 6.5 in.
(254 mm x 180 mm x 165 mm)

Operating Conditions:
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)

Sampling Pipe Size:
Outer Diameter:
  1.05 in (3/4" pipe) with adaptor, or;
  25 mm

Sampling Network:
Zones: 1 Fire detection zone
Pipe Length: 2 x 328 ft. (2 x 100 m)

Alarm Sensitivity Range:
0.0003% to 6.10% obs/ft
(0.001% to 20% obs/m)

Alarm Settings:
Alarm levels: Alert, Action, Fire 1 and Fire 2
Alarm delays: 0 to 60 seconds

Individually programmable for each level

IP Rating:
IP65

Filtration:
Field exchangeable dual stage filter

Flow Monitoring:
Twin thermal element

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
  32°F to 100°F (0°C to 38°C)