ICAM IFT

The ICAM IFT-1 detector is an air-sampling system with an alarm sensitivity range from 0.001% to 20% obscuration/m (0.0003% to 6.10% obscuration/ft). This detector is classified as a Very Early Warning Smoke Detector and can reliably detect fire at an early stage, and low to high concentrations of smoke over an area of 2000 m^2 (21 500 ft^2).

The detector is configurable for a variety of environments, providing an ideal fire detection solution for power stations, telecommunications and IT facilities, clean rooms, warehouses, cold storage, harsh and hazardous areas, historic buildings and museums.

How it works

The IFT detector draws a combined air sample into its inlet manifold from a pipe network, then filters and analyzes the sample in a laser detection chamber. 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 after a preprogrammed time delay.

Product Features

Programming and Configuration
The four alarm sensitivity thresholds and delays can be individually programmed. The IFT-1 detector provides 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 programming devices and remote displays, and the TCP/IP Ethernet interface can provide access to an email messaging service.
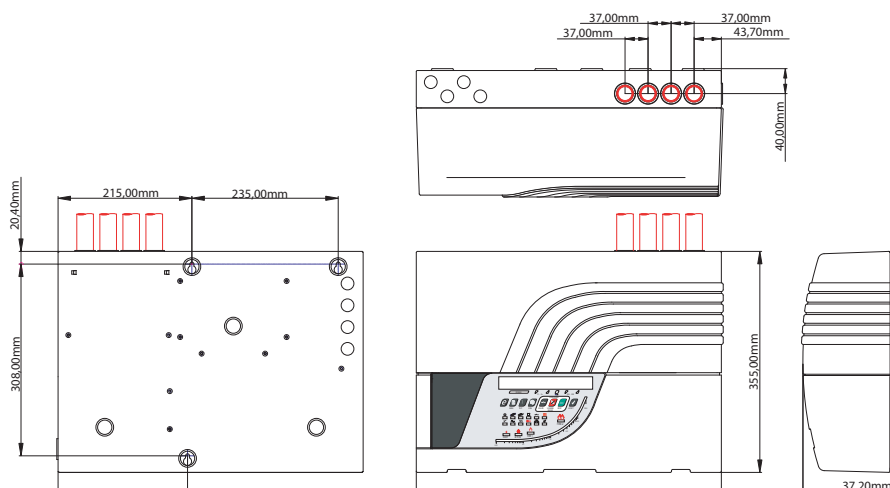
Inputs and Outputs
The IFT detector supports a number of optional modules, which provide the detector with additional programmable output relay interfaces, and 4 to 20 mA analog outputs.

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.

Features

- Single zone
- Four pipe 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) sampling pipes
- 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
- Area coverage of up to 2000 m^2 (21 500 ft^2)

Listings/Approvals

- FM
- UL
- ULC
- VdS
- CFE
- CE - EMC, LVD and CPD
- EN54-20
  - Class A (16 holes / 0.04% obs/m)
  - Class B (72 holes / 0.04% obs/m)
  - Class C (72 holes / 0.1% obs/m)

  Classification of any configuration is determined using ASPIRE2.

  Regional approvals listings and regulatory compliance vary between ICAM models.

ICAM
by xtralis

Dimensions

Ordering Information

IFT-1 24 VDC with Beacon and TCP/IP	IFT-1T
IFT-1 24 VDC with Display/Programmer and TCP/IP	IFT-1DT
4 Channel Relay Module[1]	01-E606-01
8 Channel Analog Output Module (4 to 20 mA)[1]	01-E624

Specifications

Supply Voltage:
Nominal 24 VDC

Supply Current:
500 mA (min) to 1.2 A (max)

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 (1 in.)

Sampling Network:
Zones: 1 Fire detection zone
Pipe Length: 4 x 100 m (4 x 328 ft)

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
Alarm delays: 0 to 60 seconds
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

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

* Product UL listed for use from
  0 °C to 38 °C (32 °F to 100 °F)

ICAM™
by ◆ **xtralis**™