



# **FOT<sup>®</sup>** **FIRE CONTROL**

FIRE DETECTION SYSTEMS | FOT-200 GAS SUPPRESSION SYSTEM | FOT-1230 SUPPRESSION SYSTEM  
FOT-INERT IG55, FOT-IG541 | FOT-CO2 SUPPRESSION SYSTEM | AEROFOT FIRE SUPPRESSION | FOT PORTABLE FIRE EXTINGUISHER

...excellence in fire suppression



## FOT-200 (HFC227ea)

FOT 200 (HFC227ea) systems are accepted as providing reliable and effective fire protection solutions for high value assets, processes and locations, as well as the people who work in these protected areas

The FOT-200 Clean Agent is a colorless, odorless, non-contaminating gaseous fire protection agent. Electrically non-conductive, FOT-200 works by removing heat from a fire so that combustion cannot be sustained. The decision to use FOT-200 can be based on a number of key factors: it is the most widely used of the chemical replacements for Halon 1301 and it is an agent that has been used to successfully protect tens of thousands of high-technology facilities in 70 countries around the world.

Extensively tested, FOT-200 systems are proven safe for use in occupied areas. They are designed using bespoke software, which accurately calculates the amount of FOT-200 required for the protected space. The target concentration of FOT-200 in an identified protected volume is matched to international standards, which themselves are the result of extensive and repeated fire tests, to match design to fire protection performance.

The FOT-200 (HFC-227ea) Hydraulic Flow Clean Agent Fire Suppression System is designed to deliver FOT-200 agent. The system consists of a super-pressurized FOT-200 agent in its container to enhance the discharge of the agent. The additional nitrogen supplied prevents a rapid decline of pressure within the FOT-200 container and allows for the FOT-200 agent to travel over a longer distance/pipe length..

Key features of the system include:

Discharges FOT-200 agent in a nominal 10 seconds over distances of more than 100 meters

Protection of multiple hazards from a single container location

Designed to help protect critical assets and processes

Safe to use in occupied areas



**FOT-200**





## FOT-1230 (FK-5-1-12)

*is an environmentally friendly  
clean agent system,  
and the solution of choice for  
protecting people  
and high value assets.*



Almost every aspect of modern life has a direct or indirect effect on the environment. With increasing demand for awareness and action regarding environmental issues, FOT-1230 systems help reduce environmental impact. FOT-1230 has zero ozone depletion potential (ODP) and negligible global warming potential (GWP). The atmospheric lifetime of FOT-1230 is between three and five days making our systems an ideal solution without compromising the environment.

FOT-1230 systems are ideal for use in occupied spaces. Independent toxicity studies have established that FOT-1230 is very low in both acute and chronic toxicity with high safety margins between its normal use concentrations and the No Observable Adverse Effect Level (NOAEL).

FOT-1230 systems work fast and are designed to rapidly absorb heat to the point where combustion ceases. Once actuated, the system deliver the extinguishant within 10 seconds, stopping fires before they have the chance to spread. Most importantly when a fire is suppressed quickly, the result is less damage, lower refurbishment costs and reduced downtime.

Key features of the system include  
Discharges FOT-1230 agent in a nominal 10 seconds  
Protection of multiple hazards from a single container location  
Designed to help protect critical assets and processes  
Safe to use in occupied areas

# FOT1230

# FOT-INERT SYSTEMS – 150-BAR & 200-BAR

The use of FOTinert® gases is a proven method for suppressing fire, using naturally occurring gases (nitrogen, argon, and carbon dioxide) in areas where people may be present or where valuable or sensitive assets could be damaged by conventional agents.

During a typical inert gas system discharge, a peak pressure and flow spike occurs. It is these peaks that are used to determine the pipe size specification and venting requirements.

The FOTinert® flow system eliminates this pressure spike by providing a controlled flow during discharge. This allows for the use of smaller diameter, low pressure piping and reduced pressure relief venting requirements.

FOTinert® agent enters the protected room within the industry required 60 seconds but at a steady flow rate – preventing destructive turbulence from occurring

FOTInert Gas is a colorless, odorless, electrically nonconductive gas with a density approximately the same as air. Inert Gas is stored as pressurized gas within the cylinder assembly. When discharged into a protected space, it is clear and does not obscure vision. It leaves no residue and has zero ozone depleting potential and zero global warming potential.

## FOTinert® Gas Fire Suppression Options

To safely protect applications with inert gas fire suppression solutions, FOTinert® is available in the following configurations:

- FOT-IG-55 Fire Suppression System: 5N2 5Ar
- FOT-IG-541 Fire Suppression System: 5N2 4Ar 1CO2
- FOT-IG-100 Fire Suppression System: 1N2 100 percent
- FOT-IG-01 Fire Suppression System: 1Ar 100 percent

Inergen fire suppression is often used in:

- Laboratories
- Telecommunication rooms
- Computer & server environments
- Control rooms
- Archives

**FOT-INERT**



# FOT-HIGH PRESSURE CO2 FIRE SUPPRESSION SYSTEM



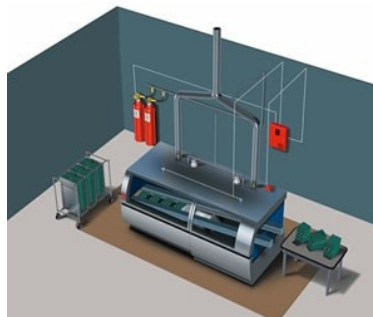
Carbon Dioxide systems have been used in fire protection for over 100 years. FOT- High Pressure Carbon Dioxide (CO2) Systems are especially effective for non-occupied hazards. Whatever the application, from cylinders to nozzle, each system is custom-designed for your specific fire hazards.

High pressure systems use individual storage cylinders that can be manifolded together for rapid simultaneous discharge. Cylinders valves can be operated automatically or manually and either locally or remotely using electric, pneumatic or mechanical actuators.

CO2 is the only gaseous agent where the design rules specifically provide guidance on the protection of deep seated hazards. Total flooding or local application systems are designed to meet the requirements of NFPA 12, BS5306-4, CEA4007 or ISO6183 and are specifically designed using hydraulic flow calculation software.

The system components meet the requirements of EN12094 and Pressure Equipment Directive (PED).

To help ensure safety, all personnel must be trained to the safety and operational aspects of the Co2system.



## Advantages

- Non-corrosive
- Non Conductive
- Zero Ozone Depletion
- Zero Global Warming (as fire suppression CO2 is not taken from a fossil fuel)
- Easily distributed
- CO2 can be used as a common bank arrangement with diverter/distribution valves directing it to multiple enclosures





# AeroFOT<sup>®</sup>

## Fire Suppression



AeroFOT aerosol generators use the same actuation methods as other special hazard fire systems:

- simple manual release,
- automatic thermal release, or
- sophisticated electronic detection and control

Compatibility with many manufacturers' agent release panels means AeroFOT fire suppression can integrate into networks for central reporting or to mass notification systems per NFPA 72 National Fire Alarm and Signaling Code.

## EXCELLENCE IN FIRE SUPPRESSIONS



# FOT-Portable Fire Extinguisher – RANGES



ABC or multipurpose fire extinguishers is the most multi-functional extinguisher capable of extinguishing Class A and B fires as well as those involving gas or electrical equipment. The full range achieved a higher fire rating compared to standard requirements which mean that per extinguisher coverage is wider than a standard extinguisher.

Effective suppression for class A, B, C & E fires

Non-conductive of electricity

Fast Knock out effect

Available in 6kg, 9kg and 50kg (wheel)



It is designed for fixed automatic protection. Suitable for Class A, B, C fire risks and electrical fires. The 6kg automatic extinguisher will protect an area up to 20 cubic meters and 12kg will protect up to 40 cubic meters.

Effective suppression for class A, B, C & E fires.

Non-conductive of electricity.

Fast knock out effect.

Available in 6kg and 12kg.



Carbon Dioxide fire extinguishers are used on or near electrical equipment because they leave no mess and do not cause any damage. They are effective on class B, C and E fires.

Effective suppression for class B,C &E fires  
 Non-conductive of electricity  
 High pressure hardware  
 Used for clean area only  
 Available in 3kg, 5kg, 9kg (wheel) and 50kg (wheel)



Foam Stored Pressure Extinguisher [Cream Color Band]

Eco-friendly foam fire extinguisher utilizes the best foam SC-1 in its class. It is very effective on class A and B fires. SC-1 has an ability to form aqueous film which flows quickly over water insoluble hydrocarbon fuel surfaces causing rapid fire extinguishment and vapor suppression for class B fires.

Effective suppression for class A and B fires (hydrocarbon fires)  
 Not applicable for fires involving live electrical equipment  
 Widely used for class B fires protection such as paint shop, diesel storage, Petrol tank  
 Available in 6kg, 9kg, 25kg (wheel) and 50kg (wheel)



# F<sup>o</sup>T-Detection Systems

## Conventional – Control panels



FOT-IVY is an extinguishing conventional fire control panel. The panel is designed for use together with systems for gas, powder, aerosol, water and other types of active extinguishing.

The panel is divided into two operation sections: extinguishing and fire. IVY has 3 wire zones – 2 for activation of automatic fire detectors and 1 conventional fire zone which supports up to 32 detectors. Automatic and manual operation modes (selectable via 3 positional key lock) and a special button for manual realization of the extinguishing process. The panel is designed for operation with solenoids, pressostats and other kind of actuators. Optional LOG module for reviewing of recorded memory events.



SensoFOT F10 is a fixed temperature detector with digital processing algorithm. The detector is designed to detect temperatures above 60 °C (class A2S, according to EN54-5). SensoFOT F10 is suitable for installing in any conventional fire alarm system designed with fire alarm panel with fire alarm threshold between 10mA and 15mA.

### Functional features:

- Detects temperatures over 60 °C, class A2S
- Digital process algorithm
- Low profile design
- LED indication with 360° visibility
- Sensor status indication on every 8 seconds
- En54 – 5 certified



SensoFOT F10B is a fixed temperature detector with digital processing algorithm. The detector is designed to detect temperatures above 75 °C (class BS, according to EN54-5).

SensoFOT F10B is suitable for installing in any conventional fire alarm system designed with fire alarm panel with fire alarm threshold between 10mA and 15mA.

### Functional features:

- Detects temperatures over 75 °C, class BS
- Digital process algorithm
- Low profile design
- LED indication with 360° visibility
- Sensor status indication on every 8 seconds
- En54 – 5 certified



SensoFOT R20 is a rate-of-rise temperature detector with digital processing algorithm. The detector is designed to detect temperatures above 58 °C (class A1R, according EN54-5).

SensoFOT R20 is suitable for installing in any conventional fire alarm system designed with fire alarm panel with fire alarm threshold between 10mA and 15mA.



SensoFOT S30 is an optical-smoke detector with digital processing algorithm. The detector is designed to detect smoke in the very early stage of the fire situation.

SensoFOT S30 is suitable for installing in any conventional fire alarm system designed with fire alarm panel with fire alarm threshold between 10mA and 15mA.

Functional features:

Auto compensation

Digital process algorithm

Low profile design

LED indication with 360° visibility

Sensor status indication on every 8 seconds

En54 – 7 certified



SensoFOT M40 is a combined (optical-smoke and rate-of-rise) detector with digital processing algorithm. The integrated automatic drift compensation reduced significantly the false alarms.

Functional features:

Auto compensation

Digital process algorithm

Low profile design

LED indication with 360° visibility

Sensor status indication on every 8 seconds

En54 – 5/7 certified

# F<sup>o</sup>T-Detection Systems

## Conventional – Sounders



FOT-SF100 RSST is a conventional wall mount sounder and strobe, designed for installing in conventional fire alarm systems.

Supports 32 different tone types and two sound levels, controlled by jumpers. FOT-SF100 RRST is equipped with two additional separate inputs for Alarm and Evacuation events. The tone sounds of the inputs are different for easy recognition from the users on the protected site. The Evacuation event is with the highest priority.

Certified according to standard EN54, part 3.

### Functional features

Piezo Loudspeaker type

32 tone types

2 sound levels (selectable by jumpers):

High (102dB) and Low (94dB)

Small and compact design



SF 105 is a conventional indoor conventional piezo siren with red flash.

### Functional features:

Piezo sounder

Sound output – 105 dB

LED strobe

Plastic case



FOT-SF100 RSND is a conventional fire alarm sounder, designed for installing in conventional fire alarm systems. The sounder supports 32 different alarm tone types selectable via DIP switches on the PCB.

### Functional features:

Piezo Loudspeaker type

32 tone types

2 sound levels (selectable by jumpers):

High (102dB) and Low (94dB)

Small and compact design

Certified according to standard EN54 – part 3



FOT-SF 200 is an outdoor conventional piezo siren. The siren is equipped with 2 LED flash indicators and 1 status indicator.

Functional features:  
 Sound output – 96 dB  
 LED strobe  
 Status indicator  
 Plastic case  
 Ip54 protection for electronics



SF100 WSST is a conventional fire alarm sounder with a strobe. The sounder supports 32 different alarm tone types selectable via DIP switches on the PCB.

Functional features:  
 32 sound types selectable from the panel  
 Piezo sounder  
 White LED flash  
 Transparent plastic case  
 Certified according to standard  
 EN54 – part 3 and 23



SF 300 is an outdoor conventional piezo siren. It has a flat plastic cover, suitable for logo sticker with dimensions up to 220x160mm. The siren is equipped with 2 LED flash indicators.

Functional features:  
 Sound output – 95 dB/1m  
 LED strobe  
 Plastic case  
 IP54 protection for electronics  
 Flat cover for logo sticker  
 EN 54 – 3 compliant



This yellow manual call point is design to work in conventional fire alarm systems.

Functional features:

- Surface mounting

- LED indication

- Adjustment of the manual call point after alarm triggering

- Second contact with connections for panel control



This manual call point is design to work in conventional fire alarm systems.

Functional features:

- Surface mounting

- LED indication

- Adjustment of the manual call point after alarm triggering

- Second contact with connections for panel control





SensoFOT B24 is a standard base for conventional detectors SensoFOT series: F10, F10B, R20, S30 and M40. The base is with low profile design and reliable contact system. It is possible to lock the detector to the base for extra security.

Functional features:

Compatible with alarm panels alarm state current up to 15 mA



SensoFOT B24D is a standard base with Schottky diode for detection for removed detector from its base. The base is designed for conventional detectors SensoFOT series: F10, F10B, R20, S30 and M40.

The base is with low profile design and reliable contact system. It is possible to lock the detector to the base for extra security.

Functional features:

Detects removal of detector from base

Compatible with fire panels with alarm state current up to 15 mA



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