



ALL YOUR FIRE AND SAFETY NEEDS



Accredited by:



Member IN :





Fire Extinguishers

a range of sizes and types to keep you safe

We offer an extensive range of extinguishers, from general purpose fire extinguishers to specific applications e.g. electrical fire, in a variety of sizes and finishes to meet your specifications and needs.

Each extinguisher is checked and approved before installation and is regularly inspected by our experienced technicians to ensure it is still in good working condition. We also offer training in the use of fire extinguishers, for more details, please see the fire and safety training section of this brochure.

To find out more about our Fire Extinguisher range and services
call freephone :**89405 44464**,
89405 44634

Our Extinguishers

a comprehensive range

Our range of fire extinguishers are suitable for both domestic and commercial use and are available as either traditional or prestige (which has a higher quality finish and is a slightly higher specification).

Types of Extinguishers and Agents

Prestige Range Fire Extinguishers

Can be supplied in Water, Foam, CO2 and MultiChem



MultiChem /CO2
Gold Effect



MultiChem /CO2
Silver Effect



MultiChem /CO2
Copper Effect



Water Spray
Extinguisher - Class A



Powder Extinguisher
(Multi-Purpose) -
Class A, B & C



Foam Extinguisher
(AFFF) - Class A, B & C



Carbon Dioxide
Extinguisher - Class B
/ Electrical Hazard



Wet Chemical - Class
A & F

Fire Stands and Signs

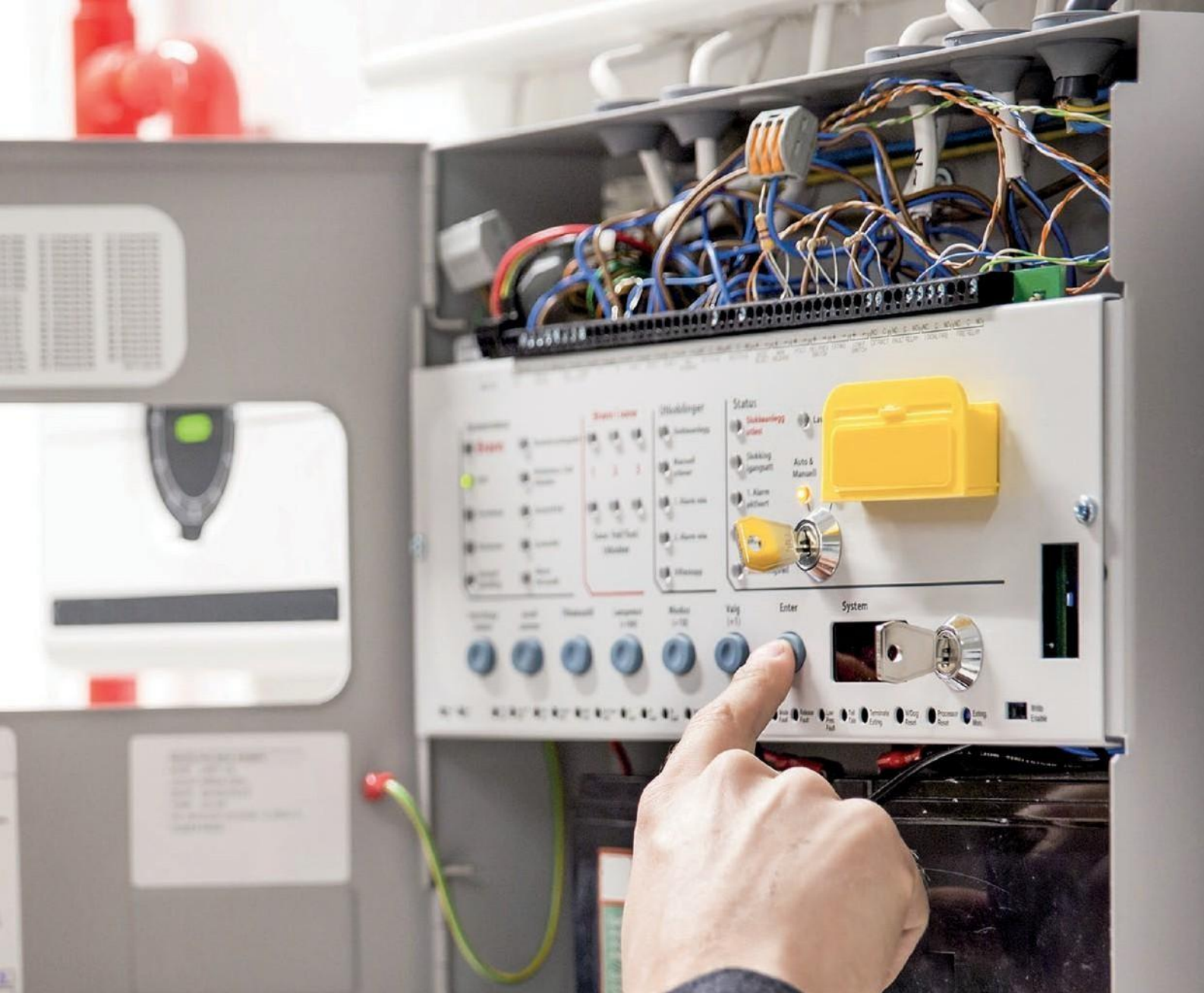
Rather than just having your extinguishers standing in the corner of the room we are able to supply high quality extinguisher stands finished in a polished chrome effect with a clear, changeable sign affixed to the top.

This allows you to ensure they are easy to access and clearly visible. Please contact us for more details.



Specifications

Each Fire Extinguisher has its own unique specifications according to size and extinguisher agent selected. Further details can be found on our website www.sseengineeringfps.com. Alternatively please call us on our freephone number, **+91 89405 44464 , 89405 44634** to discuss your requirements, we would be happy to advise you.



Fire Alarms

a range of systems for all building types

The danger posed by fire is constant. It makes no distinction between the time of day or day of the year. Therefore you need a system that is always on watch, constantly alert and always ready to react instantly to a fire.

Our fire alarm systems cover all types of buildings with a range of alarms from basic wired detection through to complex multizone and wireless alarms.

To find out more about our Fire Alarm services
call freephone **+91 89405 44464,**
89405 44634

Our Fire Alarm Systems

protecting you from fire

Fire and Safety Solutions offer a range of fire alarms, from conventional addressable alarms, to the very latest in wireless technology. We offer the following Fire Alarm services:

- ✓ Supply and/or Installation
- ✓ Servicing (either ad hoc or maintenance contract)
- ✓ Fault Finding
- ✓ Survey/System Advice

Typically, most fire alarms are either 'non addressable', 'addressable' or 'wireless'.

Conventional alarm system

Typically installed in smaller businesses or properties, devices are connected directly into a control panel using fire proof cables. Devices are connected in Zones, e.g. Zone 1 ground floor, Zone 2 first floor. If a device activates the system makes it possible to identify approximately where in your premises the fire is within the zone. Conventional fire alarms are also more cost effective to install than other alarm types.

Addressable alarm system

Every device connected to an addressable system has a unique address so that when a fire is detected, the address is highlighted on the main control panel indicating which device has been activated. This indicates the exact location of a fire and enables a relevant fast safe response, potentially reducing possible fire damage. An addressable system can also reduce the number of false alarms, which can be chargeable by some fire services.

Wireless alarm system

Our wireless range of fire alarms, smoke detector and heat detector products are the most technically advanced and innovative hybrid fire solutions currently available. The system seamlessly integrates wired and wireless devices with industry standard control equipment (all conforming to European Standard EN54-25) to provide a cost effective solution for almost any application.

As the system does not have to have the devices connected by wire, this makes installation flexible and unobtrusive to a building's fabric. In addition, the modular nature of wireless systems means they can be scaled up or down, or moved to a new location quickly and efficiently.



At FASS we're not restricted to any one manufacturer. As an independent Fire Safety specialist, we can supply, install and service all types and manufacturers of alarms. However, we work closely with EMS FireCell and recommend this system as being an excellent quality, reliable and cost effective solution for wireless systems, especially for retrofit and historic buildings.

Specifications

For full alarm details or to arrange a free fire safety survey to assess which alarm would be correct for your needs, please call us on our freephone number, **+91 89405 44464 , 89405 44634** or visit our website www.ssengineeringfps.com

FIRE ALARM SYSTEM MULTI PANEL INTEGRATION.

(Master-Slave Architecture with OFC-Based IT Integration)

System Overview

Our advanced Fire Alarm System is designed with a Master-Slave configuration, ensuring centralized monitoring and distributed control across large facilities. Integrated with Optical Fiber Cable (OFC) IT network, the system delivers high-speed, interference-free communication for critical fire safety operations.

Key Features

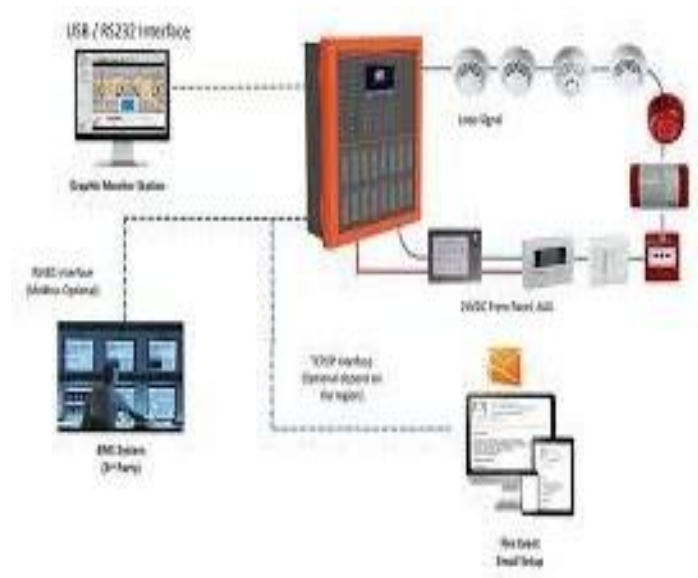
- Centralized control through Master Fire Alarm Panel
- Multiple Slave Panels for zone-wise monitoring
- High-speed communication using OFC network
- Real-time alarm status and fault monitoring
- Integration with IT systems for remote access
- Loop-based intelligent detection system
- Expandable architecture for large-scale projects

System Architecture

- **Master Panel:**
Installed at main control room for complete system supervision
- **Slave Panels:**
Installed at different buildings/areas for localized control
- **OFC Communication Network:**
Ensures long-distance, noise-free, and reliable data transmission
- **IT Integration:**
Enables monitoring through software, servers, and remote systems

Components Included

- Intelligent Fire Alarm Control Panel (Master & Slave)
- Smoke Detectors (Photoelectric Type)
- Heat Detectors (Fixed/Rate of Rise)
- Manual Call Points (Break Glass Units)
- Hooters / Sounders with Strobe
- Control Modules & Monitor Modules
- Optical Fiber Cable (OFC) Network System
- Fire Alarm Management Software (IT-based)



Working Principle

- Detectors continuously monitor environmental conditions
- Upon detection of smoke/heat, signal is sent to Slave Panel
- Slave Panel communicates with Master Panel via OFC
- Master Panel triggers alarms, displays exact location
- IT system logs events and enables remote monitoring

Advantages

- High reliability and fast response time
- No signal loss over long distances (OFC advantage)
- Scalable for industries, malls, and large campuses
- Reduced false alarms with intelligent detection
- Easy maintenance and fault identification

Applications

- Industrial Plants
- Commercial Buildings
- Warehouses & Godowns
- IT Parks & Data Centers
- Hospitals & Educational Institutions

Compliance & Standards

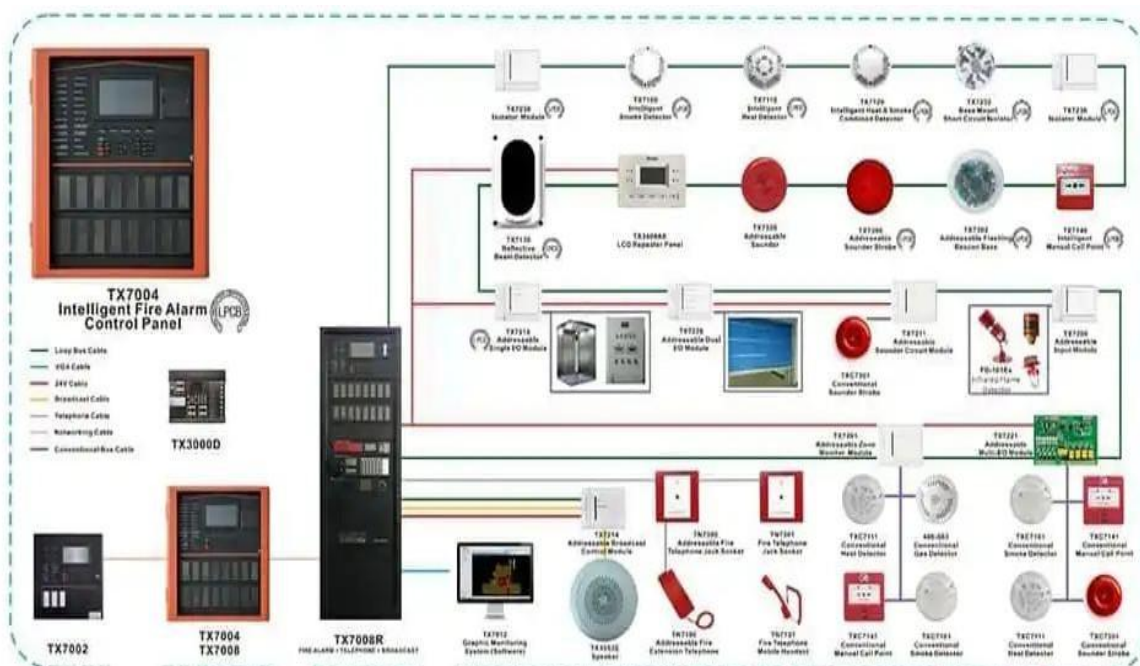
- Designed as per NBC & IS Fire Safety Standards
- Compatible with international standards like NFPA guidelines

Optional Integrations

- Public Address System (PA System)
- Fire Sprinkler System Integration
- Building Management System (BMS)
- SMS/Email Alert System

Our Scope

- System Design & Engineering
- Supply & Installation
- Testing & Commissioning
- Documentation & Training
- AMC & Service Support



Wet riser



WET Riser Servicing

keep your building legal and safe from fire

A dry riser is a network of pipes running inside tall buildings (or those with restricted access) to enable the fire service to pump water to areas within the building when tackling fires high up.

Each installation must then be serviced and maintained regularly in order to not only be safe but to comply with current regulations.

To find out more about our Dry Riser Servicing service call
freephone **+91 89405 44464, 89405 44634** or visit
www.sseengineeringfps.com

FIRE HYDRANT & SPRINKLER SYSTEM CATALOGUE

(Wet Riser System)

1. System Overview

The Fire Hydrant & Sprinkler Wet Riser System is a pressurized firefighting system designed to provide immediate water supply during fire emergencies. The system maintains water-filled pipelines at all times, ensuring instant response through hydrants and automatic sprinklers.

2. Key Features

- Always pressurized **wet riser pipeline system**
- Quick response during fire emergencies
- Combined **hydrant + sprinkler protection**
- Suitable for **multi-storey buildings & industries**
- High reliability with **automatic pump operation**
- Easy operation for fire personnel

3. System Components

- Fire Hydrant Valves (Landing Valves)
- Hose Reel Drum with Hose Pipe
- Branch Pipe & Nozzle
- Fire Brigade Inlet (FBI)
- Sprinkler Heads (Pendant / Upright / Sidewall)
- Wet Riser Pipelines (MS / GI)
- Fire Pumps (Main Pump, Jockey Pump, Diesel Pump)
- Pump Control Panel
- Yard Hydrant System

4. System Configuration

- **Wet Riser:** Vertical riser pipe filled with water under pressure
- **Hydrant Points:** Installed at each floor for manual firefighting
- **Sprinkler System:** Automatically activates upon heat detection
- **Pump Room:** Maintains pressure and ensures continuous water supply

Working Principle

- System remains filled with water under pressure
- **Jockey pump** maintains system pressure
- In case of pressure drop or fire detection:
 - Main pump automatically starts
 - Sprinklers activate when temperature rises
 - Hydrant system can be manually operated
- Continuous water supply is ensured during firefighting

Advantages Immediate water availability (no delay)

- Automatic & manual firefighting options
- Suitable for large buildings and factories
- High efficiency in fire control
- Low maintenance and long service life

Applications

- High-rise buildings
- Industrial plants
- Warehouses & godowns
- Commercial complexes & malls
- Hospitals & educational institutions

Standards & Compliance

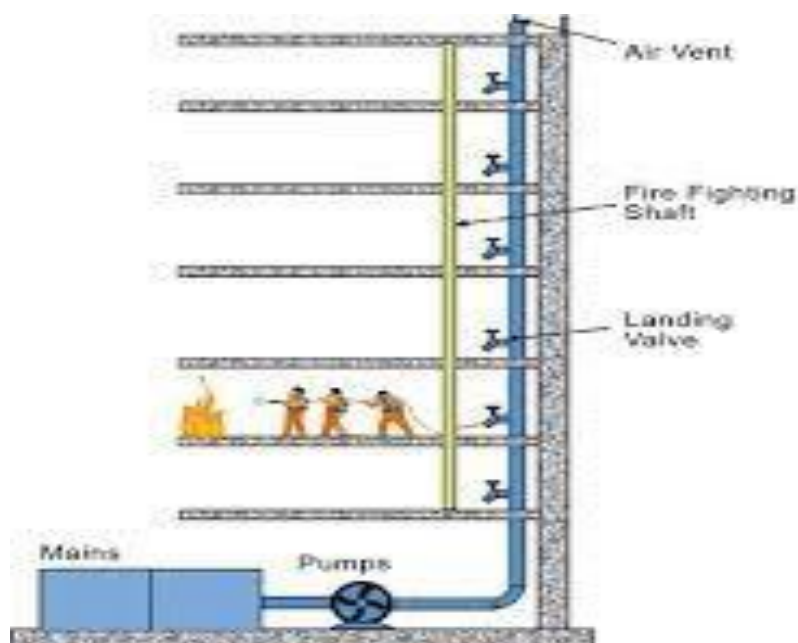
- Designed as per **NBC (National Building Code of India)**
- IS Standards (IS 3844, IS 13039, IS 15105)
- Compatible with **NFPA guidelines**

Optional Features

- Fire Alarm System Integration
- Public Address System
- Remote Monitoring through BMS
- Water Level Indicator System

Our Scope (SS Engineering)

- System Design & Hydraulic Calculation
- Supply & Installation
- Testing & Commissioning
- Approval Assistance (Fire NOC Support)
- AMC & Maintenance Services



Our dry riser service

a complete solution for all dry risers

The building's Responsible Person (or RP) is legally required to ensure the system is maintained to **the Bureau of Indian Standards (BIS) IS 13039/IS 3844**

which means a full annual pressure test plus a six monthly visual check for dry risers in buildings between 18 and 60 metres (anything over 60 metres or 18 stories must have wet risers).

Maintenance

Dry risers are designed to quickly deliver a lot of water high up in the building. Like all equipment, it needs to be maintained, not only for wear or age related failure, but also vandalism. It is essential to have them regularly maintained and serviced, which is why it is a **legal requirement**. FASS carry out a full annual pressure test plus a

6 monthly visual check to ensure the equipment is serviceable and adhere to Standards (BIS) IS 13039/IS 3844

Yearly Pressure Test

Dry risers need to be pressure tested once a year up to 12 bar for a minimum of 15 minutes. This is the only effective way of testing the equipment. The breeching connector at ground floor or at Fire Service Access Level, along with landing valves and outlets are checked for leaks or faults. If any of the parts require replacement, we will re-test the system before it is signed off as safe and the certificate issued.

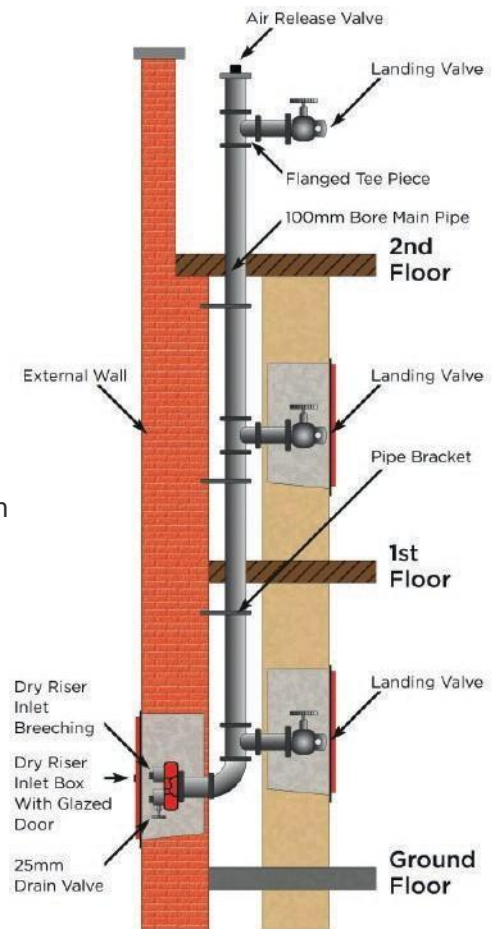
Six Monthly Visual Test

To ensure there is not a long period of time between tests, there is a requirement by the Bureau of Indian Standards (BIS) IS 13039/IS 3844

that the dry riser system is visually inspected every 6 months. This is completed by a trained and

qualified fire safety technician to check for any obvious damage,

missing parts or faults which would need to be replaced in order to make the dry riser safe and effective.



Typical Dry Riser Installation

✓ Key Points	📅 How often?	👤 Who will do my test?
✓ Correct inspection and maintenance of dry risers is a legal requirement ✓ Dry risers require an annual pressure test ✓ In addition a 6 monthly visual inspection must be performed ✓ Dry risers are vital for fire fighting in tall buildings, correct maintenance is essential	Dry risers need to be pressure tested once a year up to 12 bar for a minimum of 15 minutes in order to comply with the Bureau of Indian Standards (BIS) IS 13039/IS 3844 In addition, a 6 monthly visual inspection is carried out to ensure that there is no obvious damage, leaks or missing items of equipment.	Your Dry Riser maintenance and inspections will be carried out by a qualified and experienced technician, who is familiar with the various requirements set out by the Bureau of Indian Standards (BIS) IS 13039/IS 3844 . Each member of the FASS team has been fully DBS Enhanced cleared and is externally certified and trained. We only employ personnel who respect and adhere to our high standards.



Fire Suppression Systems

innovation, engineering & fire prevention

Automatic fire suppression systems control and extinguish fires without the need for human intervention. We install, service and maintain a variety of fire suppression systems, both standalone and system integrated.

We supply, install and service FIREDETEC Compact Fire Suppression Systems as we feel it is the superior product of choice within the fire suppression market. However, we also can service and maintain other fire suppression systems upon request.

To find out more about our Fire Suppression System range and services
call freephone **+91 89405 44464, 89405 44634** or visit
www.sseengineeringfps.com

What is fire suppression?

how does it work?

DIMS

Continually monitors cylinder pressure with 99% accuracy ensuring the system is always properly charged and ready for use in the event of a fire.



Extinguish at Source

Because the sensor tubing is flexible, it can easily be installed directly inside machines and enclosures – directly among circuitry and mechanics.



Instant Suppression

The sudden tube de-pressurisation actuates a valve, flooding the enclosed area with extinguishing agent - reaching 95% agent concentration level within less than 10 seconds.



Early Detection

The heat from the fire causes the pressurised sensor tube to burst at the hottest spot (approx. 230° F / 110° C) and discharge the extinguisher.



Standard or bespoke solutions

Fire suppression systems are available as a range of either industry targeted solutions, as shown below, or as a fully bespoke system to suit your exact requirements.



**CNC Machine
Suppression**



**Kitchen
Suppression**



**Electrical
Cabinets
Suppression**



**Fume Cupboard
Suppression**

Servicing and Maintenance

keeping your fire safety equipment in working order

Fire and Safety Solutions Ltd offer a range of service and maintenance options from a one-off service or maintenance through to annual service contract plans. We can also provide a 24hr a day, 365 days a year emergency call out service.

To find out more about our Servicing and Maintenance Services
call freephone **+91 :89405 44464 ,89405 44634** or visit
www.ssengineeringfps.com

Our fire safety servicing giving you peace of mind

From single fire extinguishers to complex multi-zone fire alarm systems, regular servicing ensures your fire safety equipment is fully functioning should you need it.

As well as prolonging the serviceable life of the equipment, many commercial insurance companies insist that your alarm is serviced on an annual basis. Failure to do so could invalidate your insurance. We can provide a range of different service and maintenance options but typically these are:

- ✓ 24hrs a day, 7 days a week emergency call out service
- ✓ Ad-hoc service, maintenance or repair work
- ✓ Annual service contracts

Every business is different so we tailor our service to suit your requirements and business needs.

We service & maintain all types of fire safety equipment, typical items are:

- ✓ Fire extinguishers (recommended a minimum of once a year, to IS 2190:2024)
- ✓ Fire alarm systems (recommended a minimum of twice a year, to IS 2190:2024)
- ✓ Dry riser systems (recommended a minimum of twice a year, to IS 2190:2024)
- ✓ Fire suppression systems (recommended a minimum of once a year) (to LPCB standards for kitchens)
- ✓ Emergency lighting (recommended a minimum of once a year to IS 2190:2024, subject to additional monthly inspections)

One of the key differences between our service technicians and that of many other fire safety companies, is that our staff are all salaried and **are not on any form of commission** to sell additional services or products to you. Therefore, you can be fully confident that any recommendations or new parts required are genuinely needed for your system rather than because it will provide additional income to the technician.



In addition to servicing your fire safety equipment, we also provide a site information card which details the location of all the fire safety equipment within your building and also the service record of each item. This means that, at a glance, you can get a complete overview of all your fire safety systems and the work carried out on them.

✓ Key Points	📅 How often?	👤 Who will do my service?
✓ Our technicians are salaried and not on commission ✓ An annual service may be a condition of your commercial insurance ✓ Servicing can prolong the life of the equipment as well as offering you peace of mind it is working correctly	Each item of fire detection or safety equipment varies depending on what it is and its location. We can advise you on the correct service and maintenance intervals or schedule for your specific equipment.	Our Technicians not only have practical experience, but also have the correct equipment to carry out servicing and more importantly - the knowledge and understanding to correctly maintain and replace any items that require renewing. Plus, they are all ISO and BAFE externally certified to carry out the work.

OUR CLIENTS:



VOLTAS



Get in touch

we'd love to hear from you

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