

Fire Suppression System **Case Report**

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Project Name: - Defence projects





Description of Solution:-

Room Type:- Server Room

Room Area: - 13m³

Challenge:

The Customer needed a solution with the following characteristics;

- A non-toxic material, harmless to humans
- An Environmental friendly material
- •Fixed fire suppression system with absence of pipe network
- Central Monitoring compatibility

Introduction

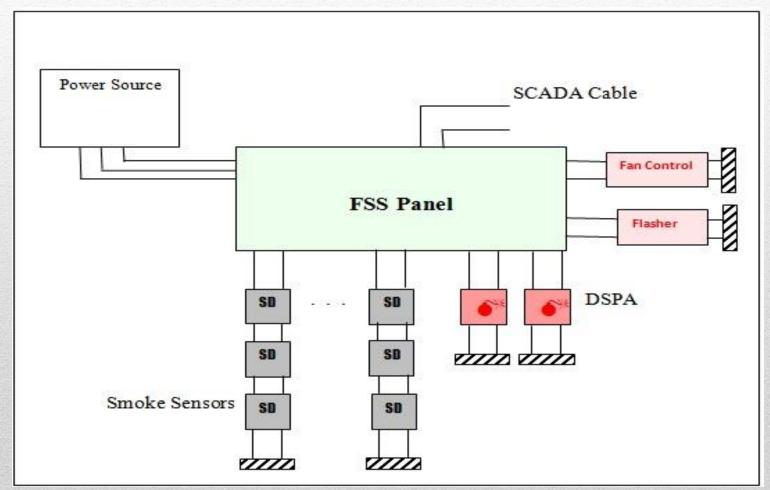


An automatic fire alarm system—typically made up of smoke detectors, heat detectors, manual pull stations, audible warning devices, and a fire alarm control panel with remote notification capability—can provide early

warning of a developing fire. Such a system, however, does not assure protection against property damage or loss of life resulting from a fire. The Manufacturer recommends that smoke and/or heat detectors be located throughout a protected premise following the recommendations of the National Fire Protection Association Standard 72 (NFPA72), EN54 Standards, and manufacturer's recommendations. Smoke detectors may not sense fire where smoke cannot reach the detectors such as in chimneys, in or behind walls, on roofs, or on the other side of closed doors. Smoke detectors also may not sense a fire on another level or floor of a building. A second-floor detector, for example, may not sense a firstfloor or basement fire.

System Block Diagram For FSS-021D/042D

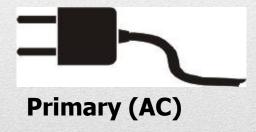




Elements of a Control Panel



Requires two Power Sources







Input Elements of a Control Panel



Inputs

A fire Suppression system can have a variety of input devices.



Heat Detector

Inputs



Initiating Device: A system component that originates transmission of a change of state condition, such as a smoke detector, Heat Detector, manual fire alarm box, etc...

Output Elements of a Control Panel







DSPA

Outputs

Outputs



Notification Appliance:

- 1) A fire alarm system component such as a bell, horn, speaker, light, or text display that provides audible, tactile, or visible output, or any combination thereof.
- 2) DSPA:- (Dry Sprinkler Powder Aerosol)

 When the smoke is detected by both Zones that time using DSPA, fire should be suppressed.

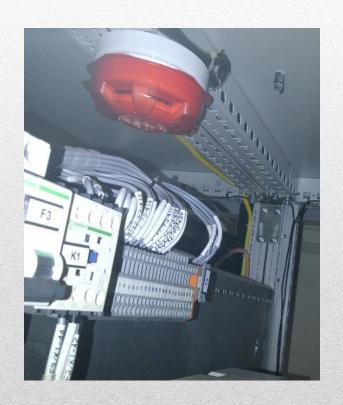


Why did the customer chose Our DSPA base **Suppression System?**

- Company's reliable product
- Company's well specialized in Fire Suppression system R&D, Production and installation team
- Before and after sale's service of the company support

Reference photograph







Reference photograph









Thank You

Automation | Safety | Security | Surveillance A3S