

# Fire Monitoring System

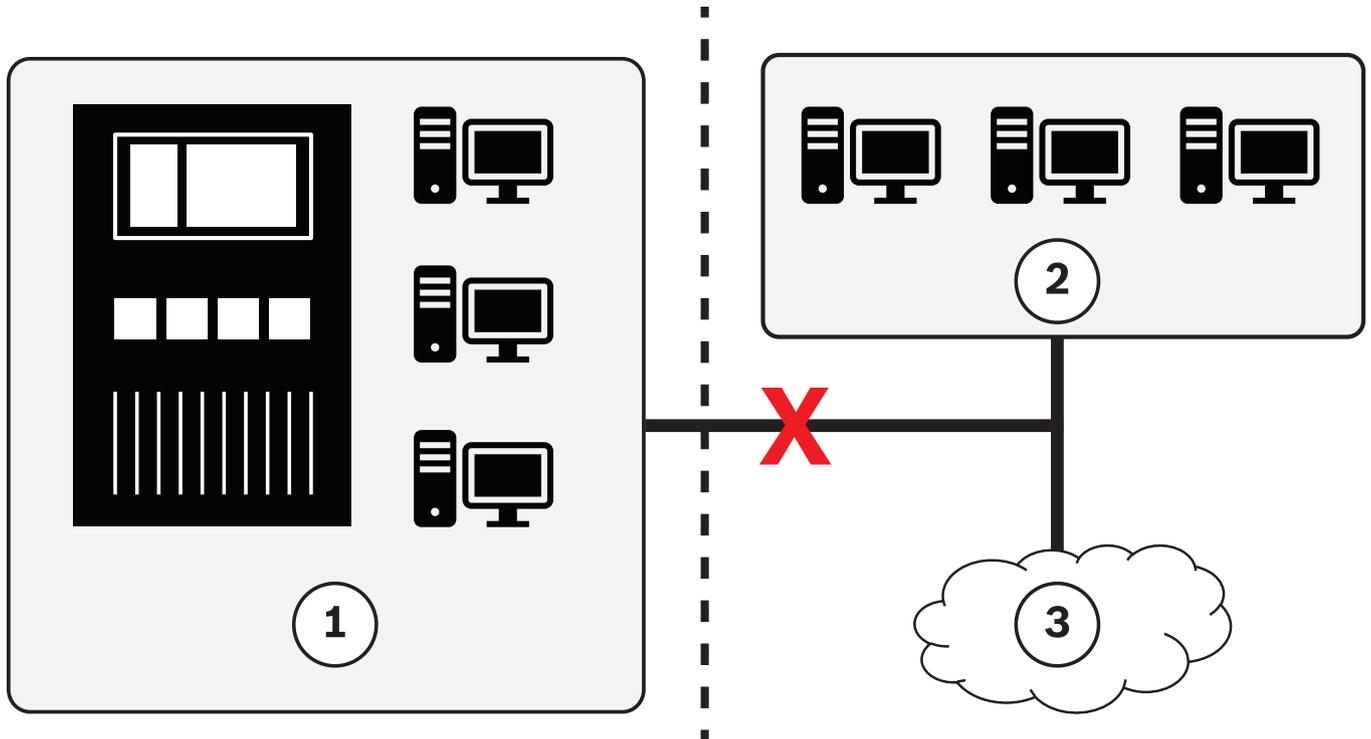


The Fire Monitoring System is a graphical user interface for displaying and monitoring small to medium fire alarm systems with up to 10000 detection points. It is compatible with AVENAR panel 8000, AVENAR panel 2000, FPA-5000 and FPA-1200.

- ▶ Monitoring of single or networked panels
- ▶ Management of up to 10000 detection points
- ▶ Simultaneous connection of up to 10 clients
- ▶ Extensive logging of events and operations
- ▶ User friendly installation and configuration

## System overview

A fire panel can be connected to the Fire Monitoring System via an Ethernet connection.

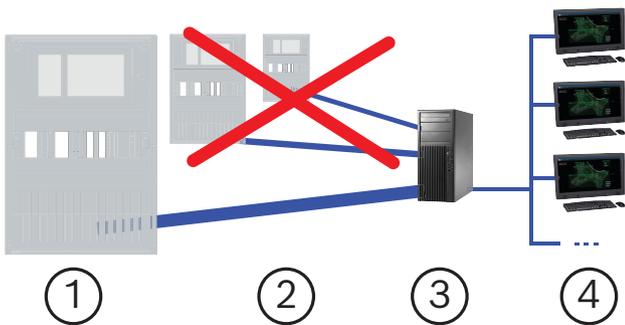


An exclusive Ethernet network in order to set up a central fire alarm network (1) is required. For security and reliability reasons, no networks used for any other purpose (2) may be part of this special

network environment. The Fire Monitoring System has to be part of this exclusive fire alarm Ethernet network without direct access to the Internet (3).

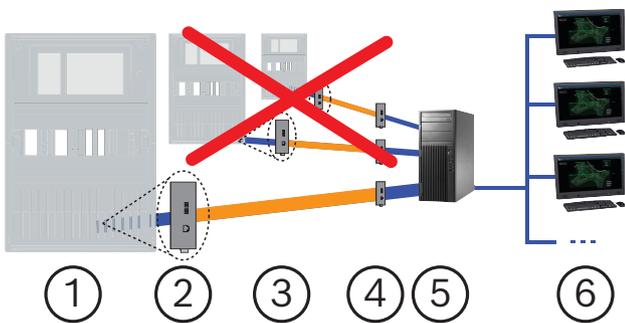
If an internet connection is established to receive the Fire Monitoring System license, this internet connection must be removed before the fire alarm network is put into operation. Only recommended accessories may be used.

**Single panel connection**  
TX Ethernet cable (copper)



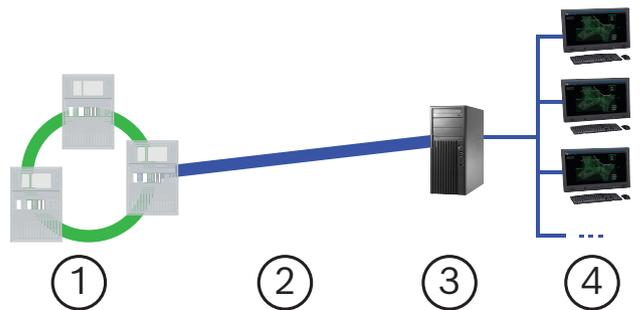
|   |                                      |
|---|--------------------------------------|
| 1 | Fire Alarm Panel                     |
| 2 | Peer-to-Peer connection (100 m max.) |
| 3 | Fire Monitoring System: server       |
| 4 | Fire Monitoring System: clients      |

**Single panel connection**  
FX Ethernet cable (fiber optic)



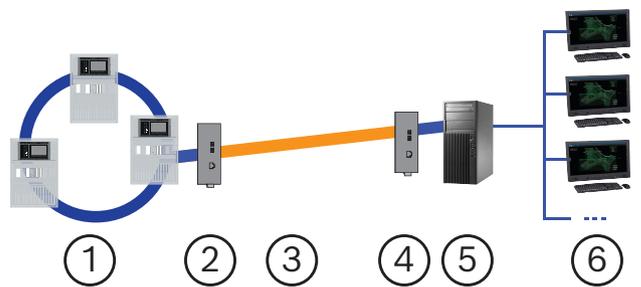
|   |  |
|---|--|
| 1 | Fire Alarm Panel                                       |
| 2 | Media converter  |
| 3 | Singlemode (SM)/Multimode (MM) Fiber (40 km/2 km max.) |
| 4 | Media converter  |
| 5 | Fire Monitoring System: server                         |
| 6 | Fire Monitoring System: clients                        |

**Panel network connection**  
TX Ethernet cable (copper)



|   |                                      |
|---|--------------------------------------|
| 1 | CAN Network                          |
| 2 | Peer-to-Peer connection (100 m max.) |
| 3 | Fire Monitoring System: server       |
| 4 | Fire Monitoring System: clients      |

**Panel network connection**  
FX Ethernet cable (fiber optic)



|   |  |
|---|--|
| 1 | Ethernet network                                       |
| 2 | Media Converter  |
| 3 | Singlemode (SM)/Multimode (MM) Fiber (40 km/2 km max.) |
| 4 | Media Converter  |
| 5 | Fire Monitoring System: server                         |
| 6 | Fire Monitoring System: clients                        |

**Functions**

**User friendly installation and operation**

A wizard guides through the installation as well as the configuration in a few steps. Automatic transfer of the panel configuration to the software allows comfortable object management (e.g. predefined sensors). To add an object, the operator simply clicks on the desired position on the map. System devices can be allocated to objects through a drop down menu.

### Importing floor plans

The Fire Monitoring System supports an easy import of various file formats, including dwg and dxf.

### Extended map management

In each map, specific areas can be defined to create sub-maps. In case of event there is an automatic zoom into the relevant sub-map. The operator can manually zoom into maps or sub-map and a pan function allows to move the map in any direction.

### Object management on the map

A single sensor or a group of devices can be selected and be moved into another map by a simple Drag & Drop operation. Copy and paste of objects in different maps is supported as well.

A summary of all objects errors is shown in a dashboard and detailed information is provided in a separate list. Also a view on the last 10 events/alarms of an object can be displayed quickly.

### User rights management

The authorizations are based on customizable groups. The rights to access to e.g. different sources, maps, alarm zones and devices are managed at group level. Each user can be part of one or more groups. A list of allowed commands and mandatory actions (e.g. notes) can be configured for each user.

### Event logging

In the event log all procedures and actions are recorded. You can search according to various criteria, cluster and generate statistics, make backups or print the event log. The reports can be exported to Excel.

### Connectivity

A standalone fire alarm panel or a panel network can be connected to the Fire Monitoring System.

### Language versions

The Fire Monitoring System is available in following languages: Chinese, Danish, Dutch, English, French, German, Italian, Polish, Portuguese, Romanian, Russian, Spanish, Turkish.

The user interface language can be individually defined by the user.

## Installation/configuration notes

### Hardware preconditions

- Processor: Core i5
- RAM: Minimum 8 GB
- Free Disk Space: Minimum 1 GB
- Gigabit Network card
- Monitor resolution: Minimum 1366x768 pixel
- The hardware must be dedicated specifically to the use of the software.

### Software preconditions

Server (operating system)

- Microsoft Windows 10/11 Professional (64 bit)
- Microsoft Windows 10/11 Enterprise (64 bit)

- Microsoft Windows Server 2019

Server (database server)

- Microsoft SQL Server 2014 Express (included)
- Microsoft SQL Server 2014 Standard
- Microsoft SQL Server 2016 Standard
- Microsoft SQL Server 2017 Standard

Client (operating system)

- Microsoft Windows 10/11 Professional (64 bit)
- Microsoft Windows 10/11 Enterprise (64 bit)

### Graphic card preconditions

- GPU Intel 530/Nvidia Quadro P400
- Direct3D 9 compatible
- Graphic card driver installed (latest available version)
- DirectX Runtime installed

## Technical specifications

The Fire Monitoring System is a graphical user interface for displaying and monitoring small to medium fire alarm systems.

## Ordering information

### FSM-2500 Fire monitoring system

Monitoring Software to manage up to 2500 detection points.

Order number **FSM-2500 | F.01U.314.990 F.01U.374.694**

### FSM-5000 Fire monitoring system

Monitoring Software to manage up to 5000 detection points.

Order number **FSM-5000 | F.01U.314.991 F.01U.374.695**

### FSM-10K Fire monitoring system

Monitoring Software to manage up to 10000 detection points.

Order number **FSM-10K | F.01U.374.278**

### FSM-2500-EP Fire monitoring system, evolution pack

Yearly maintenance agreement for upgrades of FSM-2500.

Order number **FSM-2500-EP | F.01U.315.067**

### FSM-5000-EP Fire monitoring system, evolution pack

Yearly maintenance agreement for upgrades of FSM-5000.

Order number **FSM-5000-EP | F.01U.314.992**

## Accessories

### BPA-ESWEX-RSR20 ESW 2040 ethernet switch - EX

8 port fast ethernet switch managed, for DIN rail store-and-forward-switching, with fanless design.

Order number **BPA-ESWEX-RSR20 | F.01U.258.203**

### RSR20-0800S2S2T Ethernet switch

8 Port Fast Ethernet Switch managed, for DIN rail store-and-forward-switching, with fanless design.

Order number **RSR20-0800S2S2T | F.01U.267.019**

**EL1141-10B-BH Media converter, multi-mode**

Ethernet Fibre Optics Converter for electric utility automation and acceptance of 10/100 Mbps-Full/Half-duplex, Auto-Negotiation and Auto-MDI/MDIX. Transmission via multimode fibre (MM).  
Order number **EL1141-10B-BH | F.01U.265.641**

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**EL1141-B0B-BH Media converter, single-mode**

Ethernet Fibre Optics Converter for electric utility automation and acceptance of 10/100 Mbps-Full/Half-duplex, Auto-Negotiation and Auto-MDI/MDIX. Transmission via singlemode fibre (SM).  
Order number **EL1141-B0B-BH | F.01U.265.643**

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