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.

**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

### 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

### 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
FX Ethernet cable (fiber optic)

1. Ethernet network
2. Ethernet switch
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 Professional (64 bit)
- Microsoft Windows 10 Enterprise (64 bit)

Product offerings
- Microsoft Windows Server 2008 R2
- Microsoft Windows Server 2012
- Microsoft Windows Server 2012 R2
- 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 Professional (64 bit)
- Microsoft Windows 10 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

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