

FMZ 5000 fire detection and extinguishing control panels – modular systems that can be linked for any application

*Cool down.  
Fire Protection by*

**MINIMAX**

# OPTIMUM PR

## **FMZ 5000 fire detection and extinguishing control panels – round-the-clock safety**

Fire detection control panels are at the heart of any responsible safety management system, with different sites and applications each presenting their own unique challenges and risks. Minimax FMZ 5000 fire detection and extinguishing control panels provide optimum fire detection, work together perfectly and harmonise with all other components required to protect your building – for safety you can rely on.

## **One range to meet any challenge – optimised and straightforward**

All FMZ 5000 models are state-of-the-art combined fire detection and extinguishing control panels. Thanks to their completely modular design and freely programmable controls, they are sure to meet the requirements of just about any project. As different buildings and applications pose their own challenges, we have developed FMZ 5000 control panels for a range of usage types and system sizes – meaning you will always be able to find the one that is right for you.

The same hardware modules in three separate core versions are always used for mounting the fire detection control panels and extinguishing control units to the wall or in 19" stand-alone cabinets. This means that the FMZ 5000 can be easily modified by replacing, adding or removing function modules should any changes occur to the building's usage concept, the procedure in the event of a fire or the overall protection concept.





# PROTECTION

## around the clock

### A wealth of features

All FMZ 5000 models combine innovative functionality with pioneering fire detection and extinguishing control panels – and can of course be networked with each other.

### Outstanding features include:

- ▶ A large graphical display with ergonomic menu-based user interface for clear alerts and ease of use in all situations
- ▶ Ring bus technology featuring a comprehensive range of cutting-edge characteristics and any number of branches to facilitate notifying, controlling and monitoring – even in explosion hazard areas.
- ▶ The operation of detectors for purely industrial environments for fire characteristics such as heat, smoke, flames and CO combustion gas – can of course be directly connected to the detector loop.
- ▶ Up to 32 control panels and parallel indicator panels – can be linked redundantly in a ring network.
- ▶ Freely programmable graphical controls that meet all requirements in terms of displaying alerts and executing commands in your chosen logical and chronological order.
- ▶ Redundant layout for fire detection and the selection of any number of multi-zone extinguishing systems.
- ▶ Simple adjustment to new parameters and requirements thanks to functional modules and graphical configuration.



# NETWORKING

The WinGuard control station and facility management system



Industrial detectors

Standard detectors

UniVario WMX  
high-temperature  
heat detector

UniVario FMX  
UV or IR  
flame detector

Flashing light

Horn

## Extinguishing system control

Conventional technology, example:  
control of an inert gas extinguishing system

Control of the  
extinguishing system



FMZ 5000  
mod S  
additional  
control panel

## Mx

Ring-shaped  
control



FMZ 5000  
mod 4 parallel  
indicating  
panel

Electronic control  
cabinet ESS 5000



Acoustic alarm

Manual release

## Ring bus

Analogue addressable extinguishing  
system monitoring

Limit switch

Input module

Pressure switch

Float switch

# TECHNOLOGY

at a glance



Remote diagnosis using the web browser



FMX 5000  
mod XL  
combined  
master/slave  
control panel

**Net**  
linking of  
panels

FMX 5000 mod 12  
slave control  
panel



Fault message transmission



Alarm transmission



Fire service control field

Fire service display panel

**Alert forwarding**

UniVario WMX  
high-temperature  
heat detector

UniVario FMX  
UV or IR  
flame detector

Input module

Aspirating smoke  
detector

Manual call point

**Ring bus**

Analogue addressable alert technology

Acoustic  
alarm

Optical smoke detector

Output module

Loop coupler

Fire detection

FUX spark detector

Extinguishing

Connection of  
conventional  
technology  
to the loop

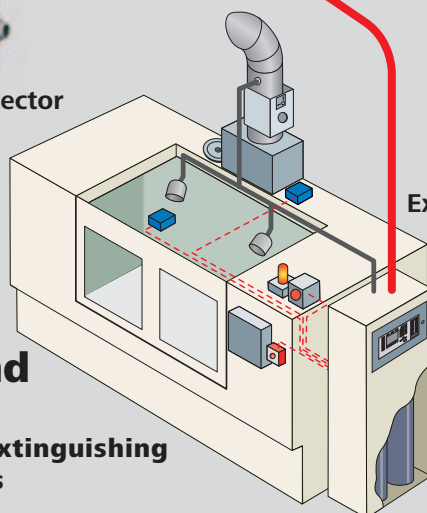
Flashing light

IMX ionisation smoke detector

GMX combustion gas detector

**Instantaneous  
fire detection and  
extinguishing**

Example: control of an extinguishing  
system for machine tools



# A COORDINATE

## **Non-modular control panels for small sites and systems covering a single area**

The FMZ 5000 mod S compact control panel is used in small projects and extinguishing systems covering a single extinguishing zone.

### **FMZ 5000 mod S**

Compact control panel from the FMX 5000 range designed for operating conventional detectors in standard or industry-suitable design. Perfectly suited to fire detection, monitoring and alarm control, and ideal for systems covering a single extinguishing zone.



## **Modular control panels for medium-sized sites and small systems covering multiple areas**

As the smallest versions in the modular range, the **FMZ 5000 mod 4** and **FMZ 5000 mod 12** are used in smaller to medium-sized projects. They are particularly suited to larger-scale site protection and small systems covering multiple extinguishing zones.

### **FMZ 5000 mod 4**

The smallest modular core version of the FMZ 5000. The wall housing is also suited to flush-fitting and control desks.



### **FMZ 5000 mod 12**

Medium-sized core version of the FMZ 5000. Elegant 19" wall cabinet with glass in the front door and coloured, stainless steel border.



## **Application**

Every version of the **FMZ 5000** can be used as a pure fire detection control panel or as a combined fire detection and extinguishing control panel in water and gas-based extinguishing systems, as a spark detection and spark extinguishing control panel and for all other applications involving

instantaneous fire protection, such as machine protection or painting systems. Thanks to their optional redundant hardware, all modular versions can be used to control and monitor multi-zone extinguishing systems and are equally suited to monitoring sprinkler systems.



# D SYSTEM

for every challenge – the FMZ 5000 control panel range

## Modular control panels for large sites and multifunctional systems

The FMZ 5000 XL 21 HE, FMZ 5000 XL 31 HE and FMZ 5000 XL 40 HE large modular control panels come in 19" wall-mounted or stand-alone cabinets, meet the challenges of major projects and are suitable for the complex management and monitoring of large-scale extinguishing systems.

### FMZ 5000 XL 21 HE

Larger core version of the FMZ 5000 in a 19" wall-mounted cabinet with a height of 21 RU.



### FMZ 5000 XL 31 HE und 40 HE

The largest core version of the FMZ 5000. Comes in a 19" stand-alone cabinet with a height of either 31 or 41 RU and variable depth, width and base dimensions.



### The following applies to all modular control panels:

- ▶ They are suitable for connecting standard and industry-suitable fire detectors with addressable or conventional technology
- ▶ Open protocols are used to transfer data, fire alarms and fault messages to management systems and control stations
- ▶ Alerts displayed on a large LC display and LEDs, menu-based user interface with soft keys
- ▶ Identical function modules and components for all versions to keep operating costs down and facilitate expansion

### Linked systems

All FMZ 5000 fire detection and extinguishing control panels can be connected using the ring-shaped, redundant **MxNet** system. Existing systems can be retrospectively networked or expanded to form a network by adding control panels. For this reason, the system can always be adapted to

architectural modifications or changes in manufacturing processes. Central units such as fire detection information systems, site plan boards and log printers can also be incorporated into the network – giving a more rapid overview of the conditions in the areas being protected.

# BENEFITS

at a glance

▶ **Increased functionality**

Linking components such as fire detection control panels, extinguishing control panels and display panels significantly increases the functionality and value of the fire protection concept.

▶ **Extended message forwarding**

All or selected alerts can be displayed to multiple recipients and centrally sent to control stations responsible for managing aspects of the building's safety – such as building access.

▶ **Communication via open protocols**

Communication between linked fire detection systems and the next stage up in the hierarchy takes place via open protocols; no special adjustments are required.

▶ **Comprehensive fire control**

Enables centralised management should a fire occur – events in one place can trigger responses in any number of other locations.

▶ **Facilitated maintenance**

Maintenance of the entire system is made significantly easier by on-site access points or remote access.

▶ **International certifications**

Minimax fire detectors and fire detection and extinguishing control panels boast besides VdS (German Association of Property Insurers) certification numerous relevant international certifications.

▶ **Further information**

A complete overview along with technical documentation for all fire detectors and fire detection and extinguishing control panels and related products can be found in the "Product catalogue Fire Detection Systems" on our website at [www.minimax.de](http://www.minimax.de)

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