

# Don't get trapped – choose the Modular Fire Panel from Bosch



Fire Systems



The FPA-5000 Modular Fire Panel is the new system that can be flexibly scaled for every application, thanks to a large range of frames, enclosures, modules and power supplies. The modular design greatly facilitates every aspect of use: installation, operation, programming, ordering, maintenance, expansion, training... resulting in enormous cost and time savings.

**BOSCH**

# Bosch significant innovations in recent years

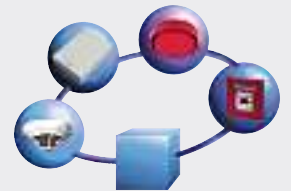
Over 80 years of experience in fire alarm

Our development efforts place top priority on meeting your needs with state-of-the-art flexibility and capabilities. Drawing on over 80 years of experience in fire alarm systems, over the last decade and a half Bosch has powerfully driven this sector with a steady stream of new innovations. Our milestone achievements include:

1992

### An internationally acknowledged technology leader

We were one of the first to introduce loop technology to the fire detection market: with the 1992 launch of our LocalSecurityNetwork (LSN), which has defined a new standard of flexibility and cost-effectiveness in security systems.



1996

### Charting new paths in fire detection

In 1996, we introduced multisensor technology with intelligent algorithm-based signal processing to reduce false alarms.



1999

In 1999, we became the first vendor to offer multi-sensor technology with fire gas detection: with MAGIC.SENS, which uses optical, thermal, and gas sensors to spot three different fire characteristics and ensure exceptionally reliable protection.



2004

### Defining new dimensions of esthetics

We were the first, in 2004, to market an invisible detector that blends in perfectly with its surroundings: the 500 Series smoke detectors.



### Now: yet another outstanding innovation

For every application, no matter how large your site is, the new Modular Fire Panel FPA-5000 is sure to meet your needs.





## The modular system that does it all

### **Unbeatable flexibility**

The core of a fire alarm system is the fire alarm panel. Bosch has introduced a revolution with the new FPA-5000. The “Swiss army knife of fire panels”, it grows with your requirements. You only buy what you need, because it can be perfectly matched to any size or type of application. This is because it is modular, offering a wide choice of flexibly deployable, interchangeable click-and-go modules and housings.

A practical rail mounting concept lets you place modules wherever you like while eliminating any chance of internal wiring mistakes. The system can even be expanded without interrupting operation. Only the newly installed modules need to be tested. A “hot plug” feature lets modules be exchanged without powering down the system.

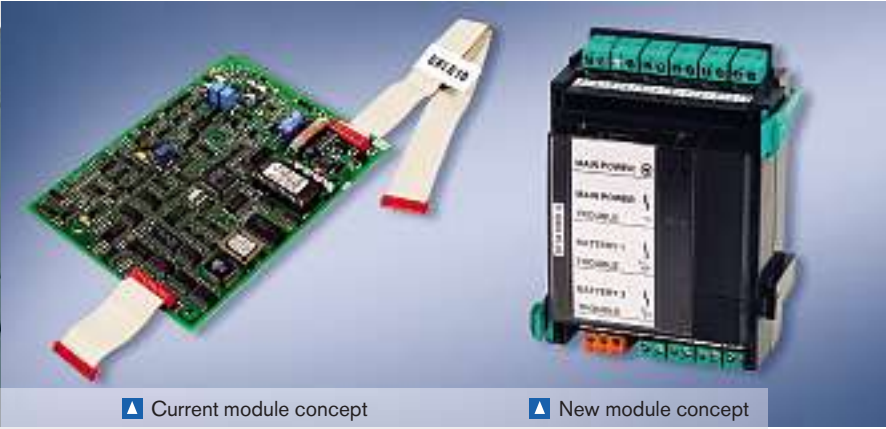
### **Outstanding user-friendliness**

The panel is designed to make installation and operation exceptionally easy. It’s a snap to intuitively operate the system with the newly created, exceptionally ergonomic user interface, which features a large display. All indicators

and buttons are located right on each module to additionally facilitate use. The system can be remotely programmed, and configurations are uploadable to a laptop.

### **An exceptionally high standard of reliability**

The system will continue operating reliably in the unlikely event of a short or open circuit. This is ensured by a redundant loop configuration, panel controller redundancy, and continuous self-checks. This failsafe design eliminates worry – aided by automatic detection of ground faults and automatic diagnostics during installation and operation. The modules are protected by plastic housings for use in rough environments.



▲ Current module concept

▲ New module concept

## Designed to save you time and money

### Pay only for what you need

The system's modularity means that it can be easily adapted to customer needs – and flexibly expanded at any time. This makes custom-tailored system design a reality! And it grows effortlessly with requirements.

### Fast, reliable and easy to install

“Click and go” encapsulated modules simply snap into place – so there is no wiring to deal with when installing or exchanging units; the cables for inter-module communication are conveniently integrated in the rail. Modules are clearly labeled to prevent confusion, and they can be tested prior to configuration. Individual detectors can be replaced without having to reprogram the system, and already installed conventional detectors are connectable via interface modules.

### Lower service costs

The same parts work for systems of all sizes. This means that new modules are also spare parts. Easy maintenance is an added plus, with remote programming, diagnostics and one-person maintenance. The panels include diagnostic features for failure localization and troubleshooting, which reduces dependence on external specialists.

### Reduce your training investment

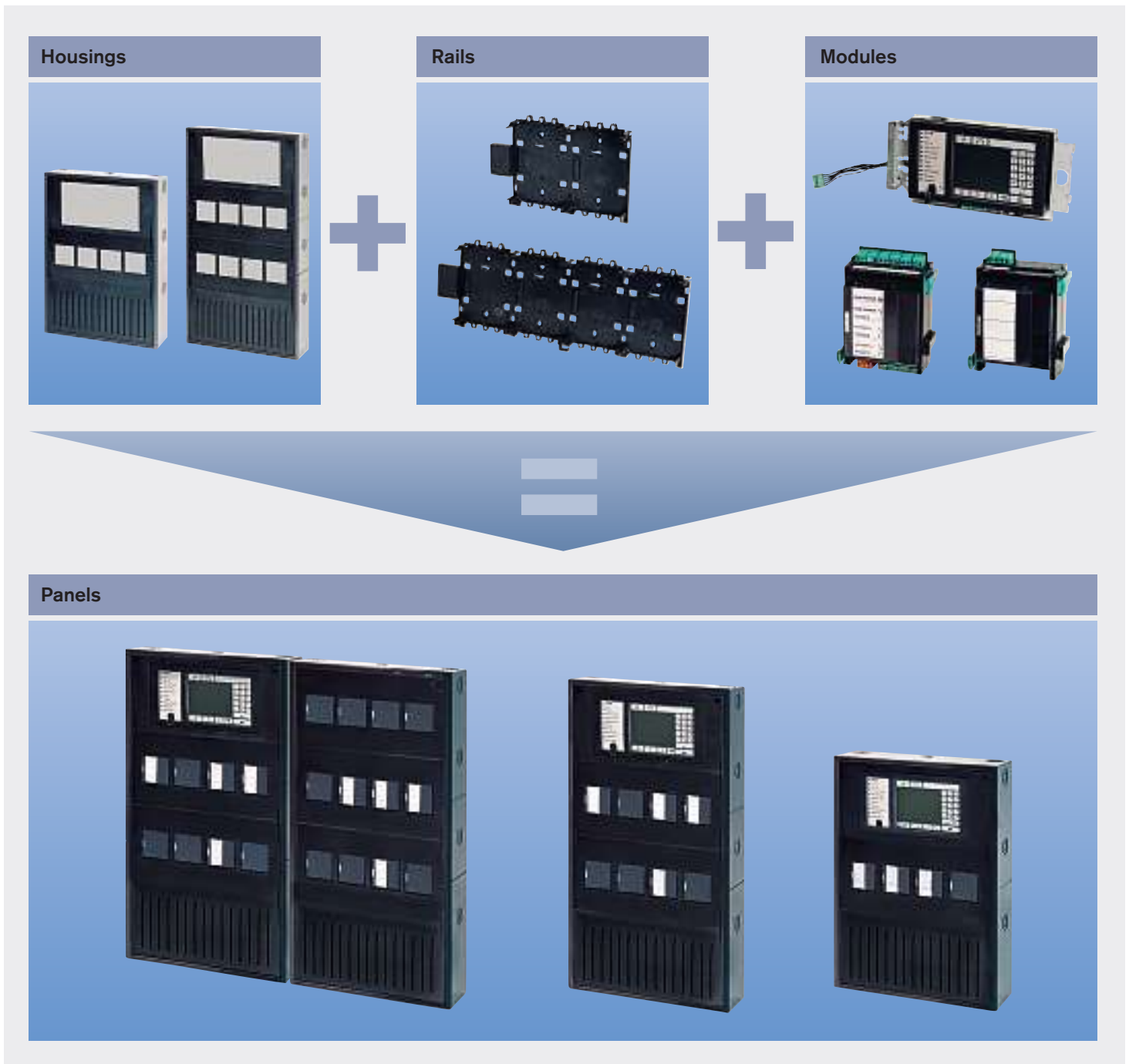
The same platform serves for all sizes of panels, from medium to large. Mechanically they are intuitively organized – for example, terminal blocks are logically grouped. Functions are self-explanatory. Computer-based training is available to speed the learning curve.

### High product availability and low storage costs

Any size system can be built from the same small set of module and housing types, which cuts down on storage costs and the amount of required space. All parts can be used either to replace installed units or to expand the system, which enables fast responses to customer needs. Full compatibility is ensured with existing LSN and conventional systems.



# Unbeatable flexibility with modularity




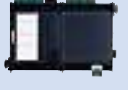












## Five good reasons to choose the Modular Fire Panel

- You get exactly what you need
- It grows with your requirements
- Modules for unbeatable flexibility
- Reduced installation and service costs
- Minimized storage costs and space

# All the modules you'll need

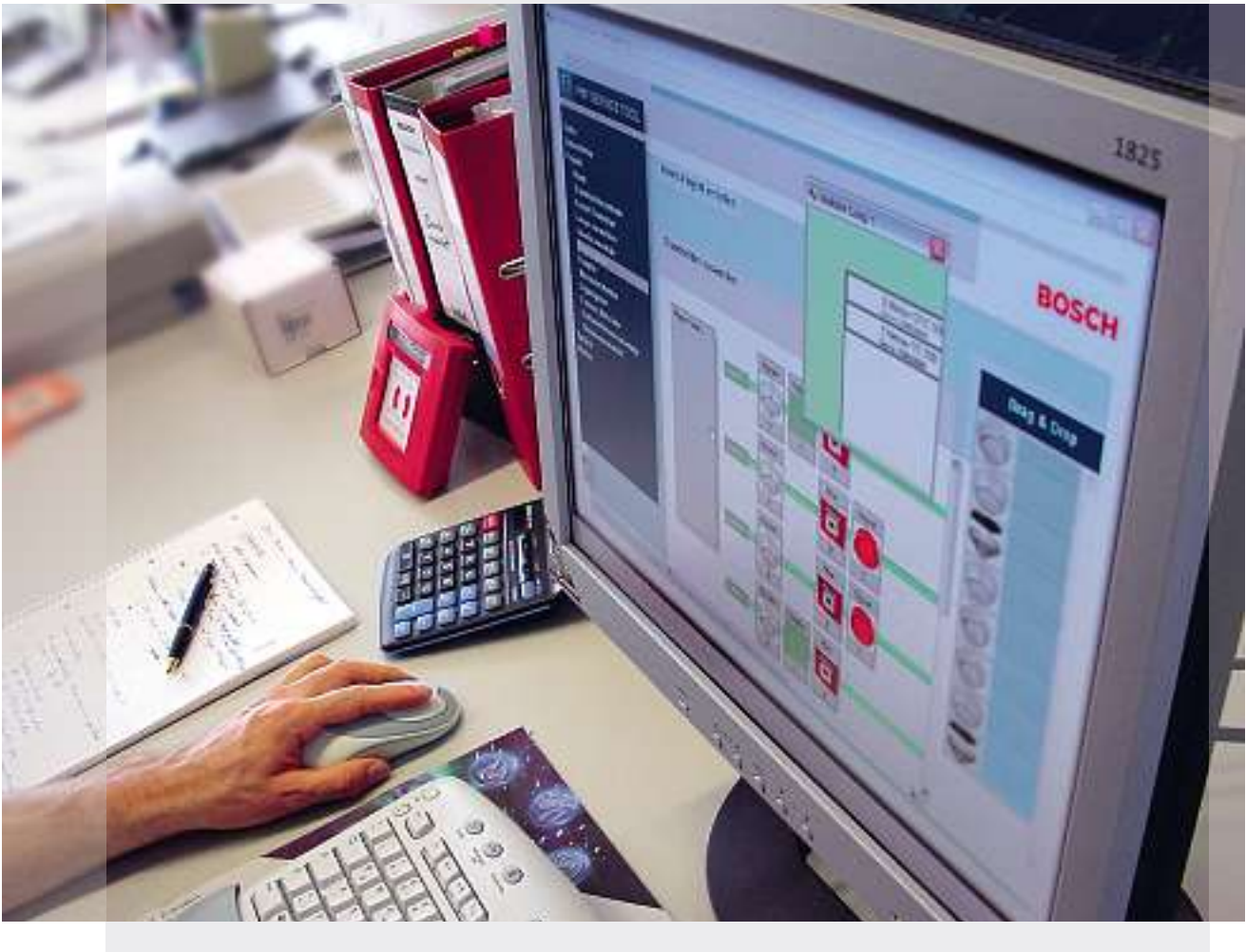
Simplicity and scalability are the name of the game: you can freely combine a set of modules and enclosures to create exactly the right system for your application.

<b>Basic modules</b>		
Panel controller MPC X000 A		Central control unit with 5.7-inch touchscreen and keypad, different languages available
Battery controller BCM 0000 A		Monitoring and gentle recharging of up to 4 batteries
<b>Standard modules</b>		
Analog addressable line module LSN 0300 A		LSN line module for 254 elements, line length up to 1000 m and a 300 mA power supply. Loop, stub and T-Tap topologies possible
Analog addressable line module LSN 1500 A		LSN line module for 254 elements, line length up to 3000 m and a 1,500 mA power supply. Loop, stub and T-Tap topologies possible
Conventional zone module CZM 0004 A		4 zone conventional line module
Annunciator module ANI 0016 A		Indicator module with 16 red and 16 yellow freely programmable LEDs
NAC/sounder module NZM 0002 A		Monitored signal generator with up to 3A power supply for each line. Control modes: reverse polarity, Wheelock, Gentex
Low-voltage relay module RML 0008 A		Relay module with 8 relays (each with one 30V/1A change-over contact)
High-voltage relay module RMH 0002 A		Relay module with 2 relays for switching 230V/10A, fan control, or VdS standard interface for extinguishing systems
I/O module IOP 0008 A		Interface with 8 Inputs and 8 open collector outputs
RS 20mA module IOS 0020 A		20mA serial Interface
RS 232 module IOS 0232 A		RS 232 serial Interface for connecting printers etc.
<b>Country-specific modules</b>		
City Tie CTM 0002 A		2-zone direct connect city tie (for UL markets)
Combination module ENO 0004 A		Direct connection to 1 German "ÜbertragungssystemÜE", controls 1 key safe, 4 free programmable relays (for German applications)

## Design tool for easy customization

The new FPA-5000 Modular Fire Panel could hardly be easier and more intuitive to use, requiring minimal training. It comes with configuration and specification tools that make it simple to design the system to meet

your particular needs. Through drag and drop the software calculates power consumption, monitors the batteries and generates bills of material and A&E specifications.



## Driven by innovation: Fire Alarm Systems from Bosch

While developing and designing our fire alarm systems, we take everything into account that matters to you. This commitment has inspired us to come up with forward-looking innovations

characterized by outstanding flexibility and versatility. From individual detectors and voice evacuation systems all the way to complete fire alarm systems, everything we do is tailored to your needs.

Bosch Security Systems

For more information please visit  
[www.boschsecuritysystems.com](http://www.boschsecuritysystems.com)

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**Tradition of quality and innovation.**

For over 100 years, the Bosch name has stood for quality and reliability. Bosch Security Systems proudly offers a wide range of fire, intrusion, social alarm, CCTV, management and communication systems and components to help you find the solution for any application. We are the global supplier of choice for innovative technology backed by the highest level of service and support. When you need solutions you can rely on, choose Bosch.

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