



FPA-5000 with functional modules



- ▶ Modular configuration allowing for easy extension
- ▶ Easy adaptation to country-specific regulations and conditions
- ▶ Complete set-up with up to 46 modules
- ▶ Up to 4096 addresses can be controlled
- ▶ The functional modules are installed and automatically detected simply by inserting them into the panel rail
- ▶ Large LCD display with touch screen

Due to its modular configuration, the innovative FPA-5000 Modular fire panel is easily adapted to local circumstances and regulations. Due to the different functional modules, country-specific characteristics are accommodated in the connection just as quickly as the respective alarm handling.

The fire panel is available with two different housings:

- Housing for mounting directly on the wall
- Frame installation housings, which are fitted to the mounting frame and can be swiveled.

With the aid of special mounting kits, the flush-mounted housings with variable installation depths can be installed completely flush with the wall or in 19" cabinets.

All housings can be extended with various additional housings for all conceivable applications.

The entire fire detection system is configured via a laptop using the new programming software [RPS].

Functions

Modular fire panel

Due to its modular structure, the FPA-5000 Modular fire panel provides complete flexibility and thus customized solutions for any application.

Depending on the requirements, the following selection can be made when planning:

1. Housing type: Frame installation or wall-mount
 - Selection of a basic housing
 - Optional additional extension housing
 - Optional additional power supply housing
 - Optional installation kits for flush mounting or installation in 19" racks
2. Operating and display unit with panel controller
 - Selection from the various language variants
3. Panel rail
 - Selection according to housing type and/or number of required functional modules
4. Functional modules
 - Selection based on planning and country-specific requirements
5. Power supply
 - Batteries
 - Additional power supply facilities
 - Power supply brackets are preinstalled ex-works for frame installation housings
 - For wall-mount housings, power supply brackets are selected as needed
6. Additional accessories
 - Front doors
 - Printer with frame installation housing
 - Cable sets for special applications

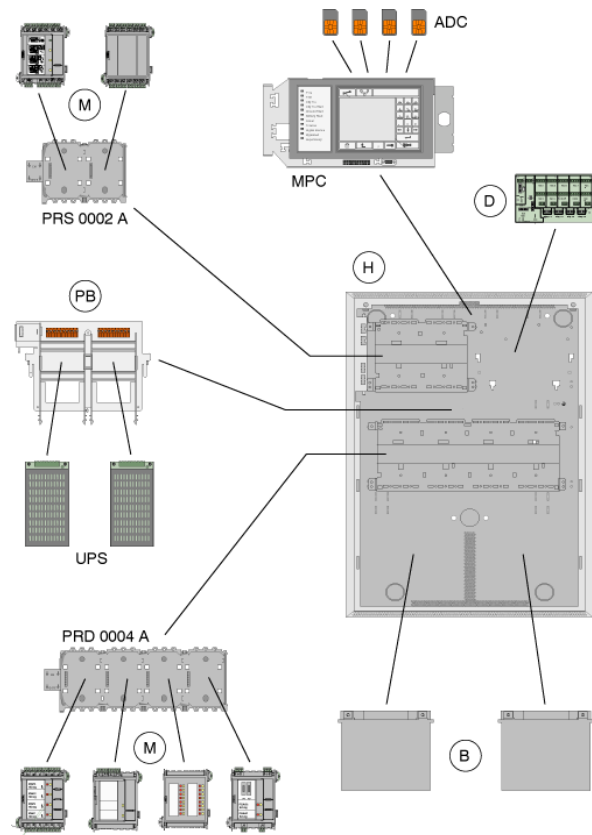
Modular structure of the FPA-5000 Modular fire panel

Housing
+
Operating and display unit with panel controller
+
Panel rail
+
Functional modules
+
Power supply
+
Accessories
=
Fire panel

Modules

The functional modules are autonomous, encapsulated units that can be inserted into any control panel slot using "plug-and-play" technology. Thus, the power supply and the data traffic to the control panel are indicated automatically without any additional settings. The module is automatically identified by the control panel and functions in the default operating mode. Wiring to external components is performed using compact connector/screw terminals. After a replacement, only the connectors need to be reinserted; extensive rewiring is no longer required.

System Overview



Pos.	Description
M	Functional modules
D	Distributor, optional (RLE/RLU/HPD)
H	Housing (in this case: MPC 0006 A)
B	Batteries
PB	Power supply bracket (installed in frame installation housings ex-works)
UPS	Power supply
ADC	Address cards
MPC	Operating and display unit with panel controller
PRS 0002 A	Panel rail short
PRD 0004 A	Panel rail long

Certifications and Approvals

For the entire FPA-5000 Modular fire panel:
 CE compliant
 VdS approval number: **G 205 106**
 UL: Applied for

Installation/Configuration Notes

- Country-specific standards and guidelines must be considered during planning.
- Connection conditions for the regional authorities and institutions (police, fire service) must be maintained.
- It is preferable to use the loop formation owing to the greater security of loop lines compared with stub lines.
- It is possible to combine LSN interface modules and LSN detectors on one loop or stub line.
- If connecting classic and improved LSN elements within one loop, observe the following:
 - All LSN improved elements must be set to "classic mode".
 - The maximum number of elements within one mixed loop is limited to 127.
- Existing conventional detectors can be connected to a CZM 0004 A module. A CZM 0004 A module provides four DC primary lines (zones).
- In accordance with EN 54 Part 2, panels with more than 512 LSN elements must be connected redundantly. To that end, a second basic housing with a second MPC operating and display unit with panel controller is used.

General system limits

	Max. number
Addresses	4096
Detection points / detector zones	1024
Total number of detectors	4064
Sets, e.g. bypass group	128
Total number of modules, per fire panel	46
Printer	4
Alarm counter (external, internal, revision)	3
Number of entries in the event database	1000
RPS programming interface	1
Time control channel	20
Time control programs	19
Programming special days	365
User	10
Access level	4

System limits functional modules

Funktionsmodul	Max. number
ANI 0016 A	32
BCM 0000 A	8
CTM 0002 A	8
CZM 0004 A	32
ENO 0000 A	8

LSN 0300 A	32
NZM 0002 A	8
RMH 0002 A	32
RML 0008 A	32
IOP 0008 A	32
IOS 0020 A	4
IOS 0232 A	4

System limits for each LSN 0300 A module

- Up to 254 LSN improved version elements or 127 classic LSN elements can be connected
- Up to 300 mA output current
- Up to 1000 m cable length
- Unshielded cable can be used

Installation Notes

- Fire panels can only be installed in dry, clean interior rooms.
- To ensure optimum battery service life, the control panel should only be operated at sites with normal room temperatures.
- The following environmental conditions must be noted:
 - Permissible ambient temperature: -5 °C - +50 °C (23 °F - 122 °F)
 - Permissible relative humidity: Max. 95%, non-condensing
- Operating and display elements should be located at eye level.
- Frame installation housings require at least 230 mm free space on the right next to the last housing; this space is for swiveling out the attached housing for connection, maintenance, and service.
- Sufficient space should be left underneath and next to the control panel for any possible extensions, e.g. for an additional power supply or an extension housing.
- Do not operate devices showing condensation.
- Only use the mounting materials specified by BOSCH ST. Interference resistance cannot otherwise be guaranteed.

Ordering Information

BCM 0000 A Battery controller module	BCM 0000 A
ANI 0016 A Annunciator module	ANI 0016 A
ANE 0016 A Remote display panel	ANE 0016 A
ANC 0032 A Annunciator open collector	ANC 0032 A
LSN 0300 A LSNi module 300 mA	LSN 0300 A
LSN 1500 A LSNi module 1500 mA	LSN 1500 A
Expected to be ready for delivery starting at the end of 2005	
CZM 0004 A 4 Zone conventional module	CZM 0004 A

Ordering Information

IOS 0020 A 20 mA Communication module	IOS 0020 A
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IOS 0232 A RS232 Communication module	IOS 0232 A
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IOP 0008 A Input/output module	IOP 0008 A
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CTM 0002 A City tie module	CTM 0002 A
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UIO 0000 A Universal I/O module	UIO 0000 A
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ENO 0000 A Fire service interface module	ENO 0000 A
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RML 0008 A Relay module low voltage	RML 0008 A
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RMH 0002 A Relay module high voltage	RMH 0002 A
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NZM 0002 A Notification appliance zone module	NZM 0002 A
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Hardware Accessories

FDP 0001 A Dummy cover plate For available module slots	FDP 0001 A
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PSK 0001 A Labelling strips for modules 20 sheets each with 6 strips, printable, for the functional modules BCM 0000 A, LSN 0300 A, LSN 1500 A, CZM 0004 A, NZM0002 A, RMH 0002 A, CTM 0002 A and ENO 0000 A	PSK 0001 A
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PSL 0001 A Labelling strips for the ANI0016 A module 20 sheets each with 10 strips, printable, for the ANI I0016 A annunciator module	PSL 0001 A
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