Panel Controller

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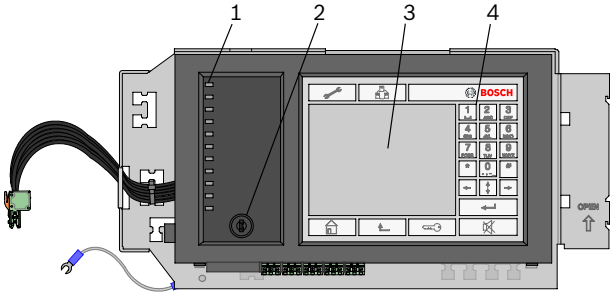
Invented for life

- Interconnection of up to 32 Panel Controllers, Remote Keypads and OPC server
- Ethernet interfaces for networking and OPC connection
- Multi-color TFT touch-screen of 14.5 cm (5.7”) with 22 fixed keys for standard input
- High ease of use thanks to easy menu structures
- Large number of language variants and country-specific designs

The Panel Controller is the central element of the system, which shows all messages on the display. The complete system is operated via a touch panel above the display. The user-friendly user interface adapts to the various situations. This allows correct operation that is simple, targeted and intuitive.
The FSP-5000-RPS programming software enables adaptation to country-specific circumstances.

System overview



Pos.	Description
1	Status LEDs
2	Key switch
3	LCD touch display
4	Membrane keys

Functions

Networking
Up to 32 Panel Controllers, Remote Keypads and OPC server can be interconnected within a network. Depending on the application requirements, Panel Controllers and Remote Keypads can be grouped, defined as network node or local node. Within a group, only panel conditions of the same group can be displayed. Regardless of the groups, network nodes allow for the display and handling of all panel conditions. Local nodes display the conditions of the related panel.
When networking via CAN and/or Ethernet interfaces, the following connection topologies are optional:

- Redundant loop via CAN1 and CAN2 (max. 32 nodes)
- Ethernet loop (max. 32 nodes)
- Multiple CAN loops with Ethernet backbone and up to 32 nodes

For networking with optical fibers, you can use various converters. For detailed information on suitable converter types and maximum line lengths, refer to the FPA-5000 Networking Guide (available for download).

Alarm indication
The indication element is a high-resolution TFT touch-screen (320 x 240 px) with automatically activated backlight. 12 LEDs provide continuous information about the operating status of the control panel and / or system. Additional LED annunciator modules, each containing 16 detection points, can be used to visually display alarms or faults.

Operation / processing of messages
The operation and the processing of all messages are easy and intuitive thanks to the ergonomically-designed control panel with its TFT touch-screen offering a menu-driven handling and multi-color display. To that end, there are permanently located keys on the right, bottom, and upper edge of the display as well as variably located virtual keys in the touch-screen area.
There is a key switch underneath the status LEDs; the key switch has two programmable switch positions, e. g.:
- For switching back and forth between day and night operation
- Local alarm ON / OFF (internal / external alarm)

Interfaces
The 2 port Ethernet interface allows for the IP panel networking or the implementation of the BIS software to the local network. There is also a USB interface which allows, in addition to the Ethernet interface, to load the desired configuration.

Saving and printing messages
Messages and events are saved internally and can be viewed on the display at any time. A log printer for printing incoming messages can be connected.

Language variants
The language of the menu can be selected arbitrarily.

Installation/configuration notes

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 Panel Controller is used.
Cable Set CRP 0000 A is required for the redundant connection.

Technical specifications

Electrical

Operating voltage	20 V DC to 30 V DC
Max. current consumption	
• Standby operation	136 mA @ 24 V DC
• In the event of an alarm	226 mA @ 24 V DC
Max. cable length	
• CAN networking	1000 m depending on configuration, topology and cable type
• Ethernet/IP networking with fibre	24 to 40 km

Mechanics

Display element	14.5 cm (5.7") multi-color TFT display with 320 x 240 pixels
Operating element	Touch screen
Permanent operating elements	22 keys, 1 key switch, 1 reboot button
Permanent display elements	12 LEDs
Interfaces	CAN1, CAN2, ETH1, ETH2, USB, RS232
Signal inputs	IN1/IN2
Dimensions (H x W x D)	190 mm x 404 mm x 60 mm
Active surface (H x W)	127.5 mm x 170 mm
Weight	ca. 2 kg

Environmental conditions

Permissible operating temperature	-5 °C to 50 °C
Permissible storage temperature	-20 °C to 70 °C

Ordering information

MPC-0000-C Panel controller, German
Central control element of the system with multi-color LCD touch-screen. German version.
Order number **MPC-0000-C**

MPC-1300-C Panel controller, English
Central control element of the system with multi-color LCD touch-screen. English version.
Order number **MPC-1300-C**

MPC-1400-C Panel controller, Portuguese
Central control element of the system with multi-color LCD touch-screen. Portuguese version.
Order number **MPC-1400-C**

MPC-1500-C Panel controller, Czech
Central control element of the system with multi-color LCD touch-screen. Czech version.
Order number **MPC-1500-C**

MPC-1600-C Panel controller, Hungarian
Central control element of the system with multi-color LCD touch-screen. Hungarian version.
Order number **MPC-1600-C**

MPC-1700-C Panel controller, Italian/German
Central control element of the system with multi-color LCD touch-screen. Italian/German version.
Order number **MPC-1700-C**

MPC-2000-C Panel controller, Spanish
Central control element of the system with multi-color LCD touch-screen. Spanish version.
Order number **MPC-2000-C**

MPC-3000-C Panel controller, Polish
Central control element of the system with multi-color LCD touch-screen. Polish version.
Order number **MPC-3000-C**

MPC-5000-C Panel controller, Dutch/French
Central control element of the system with multi-color LCD touch-screen. French/Dutch version.
Order number **MPC-5000-C**

MPC-6000-C Panel controller, Greek
Central control element of the system with multi-color LCD touch-screen. Greek version.
Order number **MPC-6000-C**

MPC-7000-C Panel controller, Romanian/English
Central control element of the system with multi-color LCD touch-screen. Romanian/English version.
Order number **MPC-7000-C**

MPC-8000-C Panel controller, Russian
Central control element of the system with multi-color LCD touch-screen. Russian version.
Order number **MPC-8000-C**

MPC-9000-C Panel controller, Turkish
Central control element of the system with multi-color LCD touch-screen. Turkish version.
Order number **MPC-9000-C**

Accessories

ADC 0064 A Address card, 64 detection points
for MPC Panel Controller
Order number **ADC 0064 A**

ADC 0128 A Address card, 128 detection points
for MPC Panel Controller
Order number **ADC 0128 A**

ADC 0512 A Address card, 512 detection points
for MPC Panel Controller
Order number **ADC 0512 A**

ADC 1024 A Address card, 1024 detection points
for MPC Panel Controller
Order number **ADC 1024 A**

ADC-2048-A Address card, 2048 detection points
for MPC Panel Controller
Order number **ADC-2048-A**

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