

Remote Keypad

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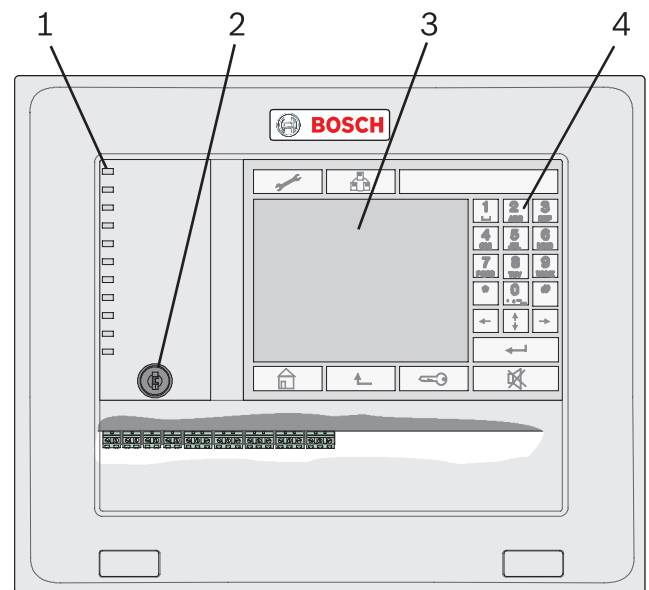
BOSCH
Invented for life



- ▶ Convenient remote operation of fire panel identical to Panel Controller
- ▶ Multi-color display
- ▶ 11 LEDs displaying the operating status of the system
- ▶ Surface and flush mounting

The Remote Keypad is a convenient solution for the remote operation of the FPA-1200 Fire Panel, the FPA-5000 Modular Fire Panel or a complete network. The design of the user interface is identical with that of the FPA-1200 and FPA-5000 Panel Controllers and therefore enables an intuitive and quick operation. In a network of FPA-5000 fire panels, up to 32 Panel Controllers, Remote Keypads and OPC server can be interconnected. The FPA-1200 Fire Panel can be networked with up to three FMR-5000 Remote Keypads.

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. 11 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.

Parts included

Quant.	Component
1	FMR-5000 Remote Keypad, user interface and labeling strips in language of the country
1	Literature pack

Technical specifications

Electrical

Operating voltage	12 V DC to 30 V DC
Max. current consumption	
• Standby	140 mA @ 24 V DC
• Alarm	230 mA @ 24 V DC
Max. resistance	18 Ω
Max. cable length	
• CAN networking	1000 m depending on configuration, topology and cable type
• Ethernet/IP networking with fibre	24 to 40 km

Mechanical

Display element	14.5 cm (5.7") multi-color TFT display with 320 x 240 pixels
Operating elements	Touch screen with 127.5 mm x 170 mm active surface
Fixed operating elements	22 keys, 1 key switch, 1 Reboot button
Fixed display elements	11 LEDs
Interfaces	CAN1, CAN2, ETH1, ETH2, USB, RS232
Signal inputs	IN1/IN2
Dimensions (H x W x T)	280 mm x 340 mm x 87 mm
LCD display (H x W)	86 mm x 116 mm
Housing material and color	ABS plastic, light gray (similar RAL 7035)
Weight	ca. 3 kg

Environmental conditions

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

Ordering information

FMR-5000-C-00 Remote Keypad DE

Remote operation of the panel mimicking the panel controller. German version.
Order number **FMR-5000-C-00**

FMR-5000-C-02 Remote Keypad ES

Remote operation of the panel mimicking the panel controller. Spanish version.
Order number **FMR-5000-C-02**

FMR-5000-C-03 Remote Keypad PL

Remote operation of the panel mimicking the panel controller. Polish version.
Order number **FMR-5000-C-03**

FMR-5000-C-05 Remote Keypad FR NL

Remote operation of the panel mimicking the panel controller. French/Dutch version.
Order number **FMR-5000-C-05**

FMR-5000-C-06 Remote Keypad EL

Remote operation of the panel mimicking the panel controller. Greek version.
Order number **FMR-5000-C-06**

FMR-5000-C-07 Remote Keypad RO EN

Remote operation of the panel mimicking the panel controller. Romanian/English version.
Order number **FMR-5000-C-07**

FMR-5000-C-08 Remote Keypad RU

Remote operation of the panel mimicking the panel controller. Russian version.
Order number **FMR-5000-C-08**

FMR-5000-C-09 Remote Keypad TR

Remote operation of the panel mimicking the panel controller. Turkish version.
Order number **FMR-5000-C-09**

FMR-5000-C-13 Remote Keypad EN

Remote operation of the panel mimicking the panel controller. English version.
Order number **FMR-5000-C-13**

FMR-5000-C-14 Remote Keypad PT

Remote operation of the panel mimicking the panel controller. Portuguese version.
Order number **FMR-5000-C-14**

FMR-5000-C-15 Remote Keypad CS

Remote operation of the panel mimicking the panel controller. Czech version.
Order number **FMR-5000-C-15**

FMR-5000-C-16 Remote Keypad HU

Remote operation of the panel mimicking the panel controller. Hungarian version.
Order number **FMR-5000-C-16**

FMR-5000-C-17 Remote Keypad IT DE

Remote operation of the panel mimicking the panel controller. Italian/German version.
Order number **FMR-5000-C-17**

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