# Conventional fire panel

FPC-500


**en** Operation manual

# Table of contents

# 1 Safety Instructions

**Caution!**
Only silence alarms once you have ensured that no persons will be endangered by the deactivation of the sirens.

**Caution!**
Only switch zones to test mode for brief periods of time. Zones in test mode will not trigger an alarm in the event of a fire.

**Caution!**
Only deactivate zones for brief periods of time. Deactivated zones will not trigger an alarm in the event of a fire.

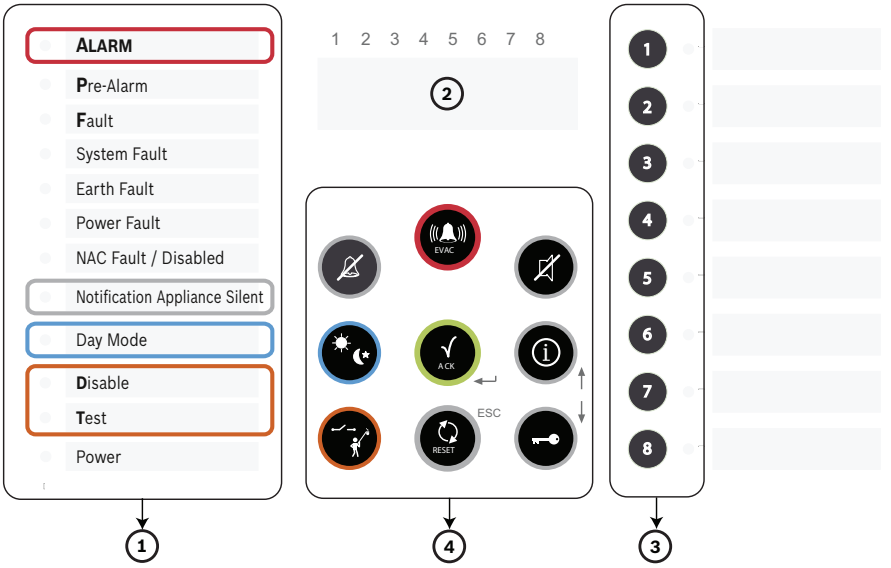
**Notice!**
Your fire detection system and all connected components must be subjected to professional maintenance on a regular basis. Observe all local regulations.

**Danger!**
The housing must only be opened by a specialist. There is a danger of electric shock.

**Caution!**
Do not deactivate the power supply to the fire detection system. After using up the emergency power supply, the fire detection system will be unable to trigger a fire alarm.

**Notice!**
If you encounter any irregularities during the operation of your fire detection system (fault messages etc.), contact your specialist immediately.

# 2 Brief Overview


| | |
|---|---|
| 1 | LED display |

| | |
|---|---|
| 2 | LCD display with zone numbers |
| 3 | Zone keys and zone status LEDs |
| 4 | Operating panel |

# 3 System Overview

## 3.1 Functionality

The FPC-500 Fire Panel is the main component of your fire detection system. As the central control unit, the FPC-500 manages all information received from the detectors. Depending on the relevant programming, the FPC-500 Fire Panel relays all alarms to the connected notification appliances and outputs. As the user, you can control the behavior of the entire system. You can silence and reset triggered alarms, change alarm triggering delays (day/night mode), test zones and much more. However, the system can only be programmed by persons with advanced user rights. Therefore, any faults etc. must be reported to your on-site specialist.

## 3.2 Display on Central Unit

Your fire panel features a number of LEDs to indicate operating states and faults.

| **Zone LED** | | **Meaning** |
|---|---|---|
| Red | Constant | The relevant zone is in alarm state. |
| Red | Flashing, 0.5 Hz | The zone has triggered a pre-alarm. |
| Yellow | Flashing, 0.5 Hz | The zone has a fault. |
| Yellow | Constant | The zone is deactivated. |

| Zone LED | | Meaning |
|---|---|---|
| Yellow | Flashing, 2 Hz | The zone is in test mode. |

| Notification appliance fault/ disabled – LED | | Meaning |
|---|---|---|
| Yellow | Constant | Notification appliances are disabled. |
| Yellow | Flashing, 2 Hz | There is a fault in the notification appliance. |

| LED | Meaning |
|---|---|
| Fire | At least one zone has triggered a fire alarm. The LEDs of the triggering zones are illuminated red. |
| Pre-Alarm | At least one zone has triggered a pre-alarm. The LED flashes every 2 seconds. The LEDs of the zones that have triggered the pre-alarm flash red. |
| Fault | At least one component in the system has a fault. |
| System fault | The system is or was not working correctly. Perform a reset to check whether the fault persists. |
| Ground fault | The fire detection system continuously checks for an earth connection (a panel wire is connected to the ground). There is a ground fault. |
| Power supply fault | There is a fault in the power supply (battery or power supply unit). |

| LED | Meaning |
|---|---|
| NAC fault/ disabled | There is a fault on the notification appliance lines or at least one notification appliance line is switched off. |
| Notification Appliance Silent | The notification appliances have been silenced. |
| Day mode | The system is in daytime mode. Zones that are programmed as alarm verification trigger an alarm. You are prompted by the panel to verify the alarm. |
| Disablements | At least one system component is disabled. (Zone, notification appliance, relay) |
| Test | At least one zone is in test mode. The relevant zone LEDs flash at 2 Hz. |
| Power | Lit continuously in green when the system is supplied with power. |

## 3.3 The LCD Display

1 2 3 4 5 6 7 8

**Normal, Night Mode**

1 2 3 4 5 6 7 8

| **Normal** |
|---|
| 01/01/11 01:00 |

Normal display with current time and date.

**Normal, Daytime Mode**

1 2 3 4 5 6 7 8

| |
|---|
| **Normal Day** |
| 01/01/11 01:00 |

Normal display with current time and date in daytime mode.

**Fault displays**

1 2 3 4 5 6 7 8

| |
|---|
| \|F\|D\| \| \|T\| \| |
| **NAC Open** |

Used to display faults. Zones where there is a fault are flagged with corresponding letters.

In addition, fault messages are displayed in plain text in the bottom line. If there is more than one fault, the display changes every 1.5 seconds.

The following abbreviations are used:

– F = Fault (short-circuit/open/creeping short-circuit/creeping open)
– D =**Disabled**
– T = **Test**

**Pre-Alarms**

1 2 3 4 5 6 7 8

| |
|---|
| \|P\|P\| \| \|P\| \| |
| **PreAlarms:** 3 |

Display of pre-alarms. Zones that have triggered a pre-alarm are flagged

In addition, the total number of pre-alarms is displayed in the bottom line. The pre-alarms are then displayed one after another in order of their appearance.

**Alarms**

1 2 3 4 5 6 7 8

| |
|---|
| \|■\| \| \| \| \| \| |
| **Fire Alarms:** 1 |

Display of alarms. Zones that have triggered an alarm are flagged.
In addition, the total number of alarms is displayed in the bottom line, along with the sequence of the triggered alarms.

## 3.4 Operating Levels

This fire panel has three operating levels. You can only perform certain actions on certain operating levels.

Level 1
- Display information
- Read out event memory
- Display faults and deactivations
- Perform display test

Level 2
- Change language and time/date
- Switch key tones on/off
- Put zones in test mode and take zones out of test mode
- Switch off/on zones, notification appliances, relays and transistor outputs
- Trigger evacuations
- Reset panel
- Switch between day/night mode
- All actions of level 1

Level 3
- All settings for installing and programming the system.

Code inputs are necessary for accessing operating levels 2 and 3.
Operating level 2 can be accessed using the optional key or an input with the appropriate configuration.

## 3.5 Menu Structure

| | Submenu | | | | | |
|---|---|---|---|---|---|---|
| | 1 | | 2 | | 3 | |
| **Menu operating level 1 and 2** | | | | | | |
| | 1 | **Current Events** | 1 | **Faults** | - | - |
| | | | 2 | **Disablements** | - | - |
| | | | 3 | **Test** | - | - |
| | | | 4 | **PreAlarm** | - | - |
| | 2 | **History** | 1 | **Event History** | - | - |
| | | | 2 | **Test History** | - | - |
| | 3 | **Alarm Counter** | - | - | - | - |
| | 4 | **System Info** | 1 | **SW Release** | - | - |
| | | | 2 | **Operation Days** | - | - |
| **Menu operating level 2** – code required | | | | | | |
| | 5 | **View Config** | - | - | - | - |
| | 6 | **System Config** | 1 | **Date/Time** | - | - |
| | | | 2 | **Keypad Tone** | 1 | **On** |
| | | | | | 2 | **Off** |
| | | | 3 | **Language** | 1 | 1-A - L |
| | | | | | 2 | 2-M - Z |
| **Test menu** | | | | | | |
| | 1 | **Test MMI** | - | - | - | - |
| | 2 | **Test Zones** | - | - | - | - |
| | 3 | **Dis/Enable** | 1 | **Zones** | - | - |

| | **Submenu** | | |
|---|---|---|---|
| | **1** | **2** | **3** |
| | | 2 **NAC** | ACK **=YES**<br>**ESC=No** |
| | | 3 **Relays** | ACK **=YES**<br>**ESC=No** |
| | | 4 **All** | ACK **=YES**<br>**ESC=No** |

### 3.5.1 Shortcuts in Operating Level 1

| | |
|---|---|
| Deactivate internal buzzer (*Switching off the internal buzzer, page 17*) |  |
| Perform display test (*Perform display test, page 17*) |  |
| Display zone status (*Checking the zone status, page 17*) |  |
| Check current faults (*Displaying faults, page 18*) |  |
| Display current disablements (*Displaying disablements, page 18*) |  |
| Display current tests (*Displaying zones in test mode, page 19*) |  |
| Check current pre-alarms (*Displaying pre-alarms, page 19*) |  |
| Check event history (*Displaying the event log, page 19*) |  |
| Display test history (*Displaying the test log, page 19*) |  |
| Check alarm counter (*Displaying alarm counters, page 20*) |  |
| Display software version (*Displaying SW Release, page 20*) |  |
| Check operating days (*Displaying the operation days, page 20*) |  |

### 3.5.2 Shortcuts in Operating Level 2

| | |
|---|---|
| Call up operating level 2 (*Calling up operating level 2 via a code, page 21*) |  |
| Exit operating level 2 (*Exiting operating level 2, page 21*) |  |
| Switch between day/night mode (*Switching between day and night mode, page 22*) |  |
| Perform reset (*Performing a reset, page 22*) |  |
| Evacuation (*Trigger evacuation, test alarm, page 23*) |  |
| Silence alarm devices (*Silencing notification appliances, page 24*) |  |
| Display configuration (*Displaying the configuration, page 28*) |  |
| Set date/time (*Setting the date/time, page 29*) |  |
| Switch key tones on/off (*Setting the buzzer beep, page 29*) |  |
| Select language (*Setting the language, page 30*) |  |

### 3.5.3 Shortcuts in Test Menu of Operating Level 2

| | |
|---|---|
| Call up test menu (*Calling up the test menu, page 24*) |  |
| Test MMI |  |

| | |
|---|---|
| Zones in test mode (*Switching zones to test mode, page 25*) |  |
| Disable/enable zones (*Disabling zones, page 26*) |  |
| Disable/enable notification appliance |  |
| Disable/enable relay (*Disabling notification appliances, page 27*) |  |
| Disable/enable all (*Disabling/enabling All (zones, relays, notification appliances), page 28*) |  |

# 4 Operation

You have different options for navigating in the menu of the fire panel.

**Using autoscrolling**

| | |
|---|---|
|  | The menus scroll automatically every 2.5 seconds to the next menu item. If you would like to select the menu item currently shown, simply confirm with the ACK key. |

**Navigating with the zone keys**

| | |
|---|---|
|  | In the menu, each menu item has a number from 1 to 8 preceding it. Use the zone keys to select the desired menu item in the menu. The desired menu item does not have to be shown in the display. |

**Navigating with the arrow keys**

| | |
|---|---|
|  | Use the arrow keys to navigate in the menu. Using the arrow keys stops autoscrolling in the menus. |

| | |
|---|---|
|  | |
|   | Confirm your selection in the menu with the ACK key. |

**Exiting submenus**

| | |
|---|---|
|   | In the menu and in the submenus, you can jump to a higher level or cancel the setting using the RESET (ESC) key.<br>Hold the RESET (ESC) key down for 2 seconds to jump to the uppermost level. |

# 4.1 Operating Level 1

## 4.1.1 Actions

The following actions can be performed in level 1:

**Alarm verification (if programmed)**

**Notice!**
This procedure only applies to zones that are programmed as alarm verification.
Note that the delay settings are only effective in day mode. In night mode, the alarm is triggered immediately.

A zone programmed as alarm verification triggers an alarm, which you must confirm manually.

| | |
|---|---|
|   | Press the ACK button within the programmed confirmation time. |
| | The programmed verification time begins.<br>Check the area of the zone triggering the fire alarm to see if there is really any fire. |

| | |
|---|---|
| | If you have discovered a real fire, use either a manual call point or the EVAC button to trigger the alarm. |
|   | In the event of a false alarm, you can reset the panel within the programmed verification time using the RESET (ESC) button. |

**Notice!**
Once the confirmation time and verification time have elapsed an alarm is triggered automatically.

**Switching off the internal buzzer**

| | |
|---|---|
|  | Press the "Buzzer off" key.<br>The buzzer is now deactivated. |

**Perform display test**

| | |
|---|---|
|   | Press the "Test" key and then zone key 1.<br>All LEDs light up for three seconds and the buzzer sounds. |

**Checking the zone status**

| | |
|---|---|
|   | To check the status of a zone, press the relevant zone key (1 to 8).<br>The LCD display shows the status of the selected zone. |

## 4.1.2 Menu

The following options are available in the menu:

- 1-**Current Events**
  - 1-**Faults**
  - 2-**Disablements**
  - 3-**Test**

  - 4-**PreAlarm**
- 2-**History**
  - 1-**Event History**
  - 2-**Test History**
- 3-**Alarm Counter**
- 4-**System Info**
  - 1-**SW Release**
  - 2-**Operation Days**

**Opening the menu**

| | |
|---|---|
|  | Press the "Menu" key.<br>You are now in the menu. |

**Exiting the menu/submenus**

| | |
|---|---|
|  | Press the "Reset" key.<br>You have now moved up one level. |

**Displaying faults**

Displays a list of all current faults with the corresponding time stamps.

| | |
|---|---|
|  | Press the "Menu" key and then zone key 1.<br>This takes you to the **Current Events** submenu. |
|  | Press zone key 1.<br>The LCD shows the current fault messages. |

**Displaying disablements**

Displays a list of all current disablements with the corresponding time stamps.

| | |
|---|---|
|  | Press the "Menu" key and then zone key 1.<br>This takes you to the **Current Events** submenu. |
|  | Press zone key 2. |

| | |
|---|---|
| | The LCD display shows the current disablements. |

**Displaying zones in test mode**

Shows a list of all current zones in test mode, including the time stamp.

| | |
|---|---|
|  | Press the "Menu" key and then zone key 1.<br>This takes you to the **Current Events** submenu. |
|  | Press zone key 3.<br>The LCD display shows the current tests. |

**Displaying pre-alarms**

Displays a list of all current pre-alarms with the corresponding time stamps.

| | |
|---|---|
|  | Press the "Menu" key and then zone key 1.<br>This takes you to the **Current Events** submenu. |
|  | Press zone key 4.<br>The LCD display shows the current pre-alarms. |

**Displaying the event log**

Displays a list of all events with the corresponding time stamps. A list of events can be found in *Event Memory, page 32*

| | |
|---|---|
|  | Press the "Menu" key and then zone key 2.<br>This takes you to the **History** submenu. |
|  | Press zone key 1.<br>The messages in the event memory are displayed. |

You can use the arrow keys to switch between the individual entries. If you press and hold an arrow key, the display moves 10 steps in the corresponding direction. A description of the displayed events can be found on *Event Memory, page 32* ff.

**Displaying the test log**

Call up the menu; see *Opening the menu, page 18*

| | |
|---|---|
|  | Press the "Menu" key and then zone key 2.<br>This takes you to the **History** submenu. |
|  | Press zone key 2.<br>The messages in the test memory are displayed. |

You can use the arrow keys to switch between the individual entries. If you press and hold an arrow key, the display moves 10 steps in the corresponding direction. A description of the displayed events can be found on *Test Memory Messages, page 35*.

If the test log should be disabled, "**No Entry**" appears on the LCD.

**Displaying alarm counters**

Call up the menu; see *Opening the menu, page 18*

| | |
|---|---|
|  | Press the "Menu" key and then zone key 3.<br>The LCD shows the number of alarms since the initial start-up. |

The alarm counter cannot be deleted. It only counts alarms triggered by zones up to 999. It does not count pre-alarms or evacuations triggered manually via the panel or the inputs.

**Displaying SW Release**

Call up the menu; see *Opening the menu, page 18*.

| | |
|---|---|
|  | Press the "Menu" key and then zone key 4.<br>This takes you to the **System Info** submenu. |
|  | Press zone key 1.<br>The software version is displayed. |

**Displaying the operation days**

Call up the menu; see *Opening the menu, page 18*

| | |
|---|---|
|  | Press the "Menu" key and then zone key 4.<br>This takes you to the **System Info** submenu. |

| | |
|---|---|
|  | Press zone key 2.<br>The number of operation days is displayed |

## 4.2 Operating Level 2

To be able to perform the actions in operating level 2, you will need a code you can enter with the zone keys.

**Calling up operating level 2 via a code**

| | |
|---|---|
|  | Press the "Code input" key.<br>You will be prompted to enter a code. |
| CODE/  | Enter the code with zone keys 1 to 8. The preset code is 1234. The code can be changed in operating level 3. |

If you are in level 2, a small 2 is displayed in the top right corner of the display.

**Calling up operating level 2 via a key (optional)**
Use the key to open operating level 2. Leave the key turned in the lock while you are working in operating level 2.

**Automatic exit of level 2**
If you are in level 2 and a key has not been pressed for 10 minutes, the system will exit level 2 automatically. This also applies if you are using a key.
One minute before exiting level 2, a pulse tone from the internal buzzer indicates the passing time, while a countdown is shown in the LCD display.

**Exiting operating level 2**
If you are in operating level 2, proceed as follows.

| | |
|---|---|
|  | Press the "Code input" key. |
|  | – Press the ACK key.<br>You exit operating level 2.<br>– Press the "Reset" key.<br>You remain in operating level 2. |

If you accessed operating level 2 using the optional key, turn the key back and remove it from the lock to exit operating level 2.

## 4.2.1 Actions

**Switching between day and night mode**

| | |
|---|---|
|  | Press the "Day/night mode" key.<br>The "Day mode" LED is illuminated in day mode and deactivated in night mode. The LCD shows **Normal** in night mode and **Normal Day** in day mode. |

In day mode, delay times are activated in zones that are programmed as alarm verification.

**Performing a reset**

| | |
|---|---|
|  | Press the "Reset" key. |
|  | – Press the ACK key.<br>The fire panel performs a reset if it is not in a normal state.<br>– Press the "Reset" key.<br>No reset is performed. |

### Trigger evacuation, test alarm

**Notice!**
Only trigger an evacuation if you want to trigger a test alarm. You can only trigger a test alarm when the fire panel is in the normal state.

**Notice!**
As standard, the EVAC button only activates the notification appliances.

**Caution!**
If you have discovered a real fire, use a manual call point to trigger the alarm.

| | |
|---|---|
|   | Press the "Evacuation" key. |
|   | – Press the ACK key.<br>The fire panel activates all notification appliances and relays as programmed.<br>– Press the "Reset" key.<br>No evacuation is triggered. |

**EVAC button functions**
The EVAC button has various functions, depending on the status of the fire panel:
– Panel in normal state
  You can trigger a test alarm using the EVAC button.
– Panel in alarm state
  If you have silenced the notification appliances, you can reactivate them using the EVAC button.

– Panel in alarm verification, dual-zone dependency, or dual-detector dependency state
  The delay for the alarm notification appliances is ended.
  The notification appliances are triggered immediately.

**Silencing notification appliances**

**Notice!**
Only silence an alarm once you have made sure that there is not actually a fire.
You can reactivate silenced alarm devices using the EVAC button.

| | |
|---|---|
|  | Press the "Silence notification appliance" key.<br>The fire panel deactivates all notification appliances and relays as programmed. A new alarm reactivates the notification appliances and relays, if programmed. |

## 4.2.2 Test/Disablements Menu

The following options are available in the test menu:

– 1-**Test MMI**
– 2-**Test Zones**
– 3-**Dis/Enable**
  – 1-**Zones**
  – 2-**NAC**
  – 3-**Relays**
  – 4-**All**

**Calling up the test menu**

| | |
|---|---|
|  | Press the "Test" key.<br>You are now in the test menu. |

**Performing an MMI test**

See *Perform display test, page 17*.

### Switching zones to test mode

**Caution!**
Only switch zones to test mode for brief periods of time. Zones in test mode will not trigger an alarm in the event of a fire.

| | |
|---|---|
|  | Press the "Test" key and then zone key 2.<br>This takes you to the **Test Zones** submenu |
|  | Select the zones to be set to test mode. To do this, press the relevant zone keys 1 to 8. A code appears below the selected zone(s) in the LCD. Multiple zones can be switched to test mode at the same time. |
|  | Confirm your selection with the ACK key.<br>The "Test" LED and the LEDs for the selected zones are illuminated yellow. |

**Notice!**
Only zones that are in a normal state can be set to test mode. Selecting a zone again removes it from test mode.

### Testing the zones

**Notice!**
The fire panel features a test memory, which stores all the panel's testing procedures. All memory entries are assigned a date and time stamp and cannot be deleted.
The test memory can be called in operating levels 1 and 2.

Use a manufacturer-approved test device to test each individual detector in the zones currently in test mode. In each case, use the test device to trigger an alarm.

**Notice!**
The fire panel test function is designed for operation by a single person:
The fire panel automatically resets the alarm 15 seconds after an alarm is triggered in a zone in test mode. This is followed by the set time for disabling the zone and the stabilization time for the detectors. The next detector can then be tested.

**Removing individual zones from test mode**

Access the Zones menu in test mode as described above. Use the zone keys to cancel test mode for the relevant zones. The code below the selected zone in the LCD disappears.

**Disabling zones**

**Caution!**
Only disable zones for brief periods of time. Disabled zones will not trigger an alarm in the event of a fire.

| | |
|---|---|
|  | Press the "Test" key and then zone key 3.<br>This takes you to the **Dis/Enable** submenu |
|  | Press zone key 1.<br>This takes you to the **Zones** submenu |
|  | Select the zones to be disabled. To do so, press the relevant zone keys (1 to 8).<br>A code appears below the selected zone(s) in the LCD. |
|  | Confirm your selection with the ACK key.<br>The "Disable" LED and the LEDs for the selected zones are illuminated yellow. |

**Re-enabling zones**

Go to the Disable **Zones** menu as described above. Use the zone keys to cancel existing disablements. The code below the selected zone in the LCD disappears.

**Disabling notification appliances**

| | |
|---|---|
|  | Press the "Test" key and then zone key 3.<br>This takes you to the **Dis/Enable** submenu |
|  | Press zone key 2.<br>You are prompted to confirm the disablement. |
|  | – Press the ACK key.<br>The notification appliances are now disabled.<br>– Press the "Reset" key.<br>The notification appliances are not disabled. |

When you disable the notification appliances, a message confirming the disablement appears on the LCD after exiting the menu.

**Re-enabling notification appliances**

Go to the Disable **NAC** menu as described above. You are prompted to confirm the re-enablement. Press the ACK key. The notification appliances are re-enabled.

**Disabling relays**

| | |
|---|---|
|  | Press the "Test" key and then zone key 3.<br>This takes you to the **Dis/Enable** submenu |
|  | Press zone key 3.<br>You are prompted to confirm the disablement. |
|  | – Press the ACK key.<br>The relays are now disabled.<br>– Press the "Reset" key.<br>The relays are not disabled. |

When you disable the relays, a message confirming the disablement appears on the LCD after exiting the menu.

**Re-enabling relays**

Go to the Disable **Relays** menu as described above. You are prompted to confirm the re-enablement. Press the ACK key. The relays are re-enabled.

**Disabling/enabling All (zones, relays, notification appliances)**

| | |
|---|---|
|  | Press the "Test" key and then zone key 3.<br>This takes you to the **Dis/Enable** submenu. |
|  | Press zone key 4.<br>This takes you to the **All** submenu. |
|  | Upon confirmation via the ACK key, all zones, relays and notification appliances will be disabled/re-enabled. |

You can use the "Enable **All**" function if only one relay, one zone or one notification appliance has been disabled.

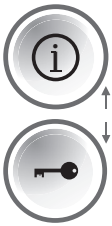
## 4.2.3 Menu

In addition to the functions in level 1, the menu provides the following options:

- 5-**View Config**
- 6-**System Config**
  - 1-**Date/Time**
  - 2-**Keypad Tone**
  - 3-**Language**
    - 1- A–L
    - 2- M–Z

**Displaying the configuration**

| | |
|---|---|
|  | Press the "Menu" key and then zone key 5.<br>This takes you to the **View Config** submenu. |

| | |
|---|---|
|  | The set configuration is automatically shown in the LCD display. The individual settings are displayed successively at 2.5-second intervals. If you use the arrow keys to navigate manually through the configuration display, the automatic process is cancelled. |
|   | Press the "Reset" key.<br>You exit the configuration display. |

**Setting the date/time**

| | |
|---|---|
|   | Press the "Menu" key and then zone key 6.<br>This takes you to the **System Config** submenu. |
|   | Press zone key 1.<br>You can now set the date and time. |
|  | The current entry is displayed.<br>Use the arrow keys to change the flashing value. |
|   | To save the currently displayed value, press the ACK key. |

Repeat the steps to set the month, year, hour and minute.

**Setting the buzzer beep**

| | |
|---|---|
|   | Press the "Menu" key and then zone key 6.<br>This takes you to the **System Config** submenu. |

| | |
|---|---|
|  | Press zone key 2.<br>You can now set the buzzer beep. |
|  | Press the zone keys to set the buzzer beeps:<br>– 1=**On** (default setting)<br>– 2 **Off** |

**Setting the language**

| | |
|---|---|
|  | Press the "Menu" key and then zone key 6.<br>This takes you to the **System Config** submenu. |
|  | Press zone key 3.<br>This takes you to the **Language** submenu. |
|  | Press zone key 1 to select a language in the A - L range. |
|  | Use the zone keys to set the relevant language.<br>– 1 čeština<br>– 2 Dansk<br>– 3 Deutsch<br>– 4 English<br>– 5 Español<br>– 6 Français<br>– 7 Italiano |
|  | Press zone key 2 to select a language in the M - Z range. |
|  | Use the zone keys to set the relevant language.<br>– 1 Magyar<br>– 2 Nederlands<br>– 3 Polski<br>– 4 Português<br>– 5 Român<br>– 6 Svenska<br>– 7 Turkçe |

**Notice!**
If you have selected the incorrect language, you can select the language again when restarting by using a cold start (disconnect power from system).

# 5 Troubleshooting

**"Fault" LED lit**
Check the fault message memory
Perform a system reset. If you cannot resolve the fault, please contact your specialist.

**"System fault" LED lit**
The system is or was not working correctly. In the event of a system fault, the system performs an automatic reset. The fault display is retained for safety reasons.
Perform a reset. If this does not resolve the fault, please contact your specialist immediately.

**"Ground fault" LED lit**
There is a fault in the cabling (one line in the panel is connected to earth). Perform a system reset. If you cannot resolve the fault, please contact your specialist immediately.

**"Power supply fault" LED lit**
There is a fault with the power supply (mains or battery). Perform a system reset. If you cannot resolve the fault, please contact your specialist immediately.

**"Notification appliance fault/disabled" LED flashing**
There is a fault with the notification appliances. Perform a system reset. If you cannot resolve the fault, please contact your specialist immediately.

# 6 Maintenance

Keep a log book that includes the following data as a minimum:
- Information on the monitored object
- Contact details of the maintenance company
- Events

Record all events, such as alarms, faults and services, in this log book.
Ensure that an inspection is carried out on your fire detection system four times a year at roughly regular intervals.
Ensure that the following function checks are carried out during the inspection:

- Trigger an automatic detector for each zone to check the transmission lines and notification appliances
- Test the condition of the batteries and the function of the power supply unit
- Check the log book

Record the inspection and the results in the log book.
Carry out the following additional checks at least once a year:

- Check all elements of the fire panel
- Trigger all detectors that can be tested without being damaged
- Visually check all cabling and elements

**Notice!**
Have maintenance and inspection work carried out regularly by trained, qualified personnel
Please observe the appropriate requirements stipulated by the local authorities (e.g. fire service)

**Notice!**
Replace the batteries regularly. Please observe the appropriate requirements stipulated by the local authorities etc.

# 7 Appendix

## 7.1 Event Memory

| Message | Meaning |
|---|---|
| **Drill/Evacuate** | A manual alarm has been triggered on the panel. |

| Message | Meaning |
|---|---|
| **Zone Alarm** | Zone # has triggered an alarm. |
| **Zone PreAlarm** | Zone # has triggered a pre-alarm. |
| **Zone Open** | Zone # is interrupted. |
| **Zone C-Open** | Zone # has a creeping interruption.. |
| **Zone Short** | Zone # has a short-circuit. |
| **Zone C-Short** | Zone # has a creeping short. |
| **Zone Normal** | Zone # is in the normal state. (Fault or alarm eliminated) |
| **Zone Disabled** | Zone # is disabled. |
| **Zone Enabled** | Zone # was enabled. |
| **Input Open** | Input # interrupted. |
| **Input C-Open** | Input # has a creeping interruption. |
| **Input Short** | Input # short-circuit. |
| **Input C-Short** | Input # has a creeping short. |
| **Input Normal** | Input # normal. |
| **Aux Power Short** | Short-circuit in the AUX power supply |
| **Aux C-Short** | Creeping short in the AUX power supply. |
| **Aux Power Normal** | Fault in the AUX power supply rectified. |
| **NAC Open** | Notification appliance #, line interrupted |
| **NAC C-Open** | Notification appliance #, creeping interruption on line. |
| **NAC Short** | Notification appliance #, short-circuit on line. |

| Message | Meaning |
|---|---|
| **NAC C-Short** | Notification appliance #, creeping short on line. |
| **NAC Normal** | Notification appliance # normal. (Fault was eliminated) |
| **NAC Enabled** | Notification appliances re-enabled. |
| **NAC Disabled** | Notification appliances disabled. |
| **Relays Enabled** | Relays re-enabled. |
| **Relays Disabled** | Relays disabled. |
| **Battery Fault** | Fault in the battery power supply. |
| **Battery Restore** | Battery power supply was restored. |
| **Mains Fault** | Fault in the 230 V power supply. |
| **Mains Restore** | 230 V power supply was restored. |
| **Ext PS Fault** | Fault in external power supply unit. |
| **Ext PS Normal** | Fault in external power supply unit resolved. |
| **Ext BATT Fault** | Fault in external battery. |
| **Ext BATT Normal** | Fault in external battery resolved. |
| **Sys Load Fault** | Current consumption of panel and all connected peripherals is above 3.5 A. |
| **Sys Load Normal** | Current consumption is back in permitted range. |
| **System Fault** | System fault |
| **Panel boot-up** | Panel has been restarted. |
| **Reset Panel** | Panel has been reset. |
| **Night Mode** | Panel has switched to night mode. |

| Message | Meaning |
|---|---|
| **Day Mode** | Panel has switched to day mode. |
| **Earth Fault** | Grounding fault. |
| **Earth Normal** | Fault in grounding resolved. |
| **Level Enter** | Operating level # entered. |
| **Level Exit** | Operating level # exited. |
| **Silenced** | An alarm has been silenced. |
| **Unsilenced** | A silenced alarm has been reactivated. |

## 7.2 Test Memory Messages

| Message | Meaning |
|---|---|
| **Zone Start** | Zone # set to test mode. |
| **Zone Test** | Zone # successfully tested. |
| **Zone End** | Zone # test mode exited. |

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