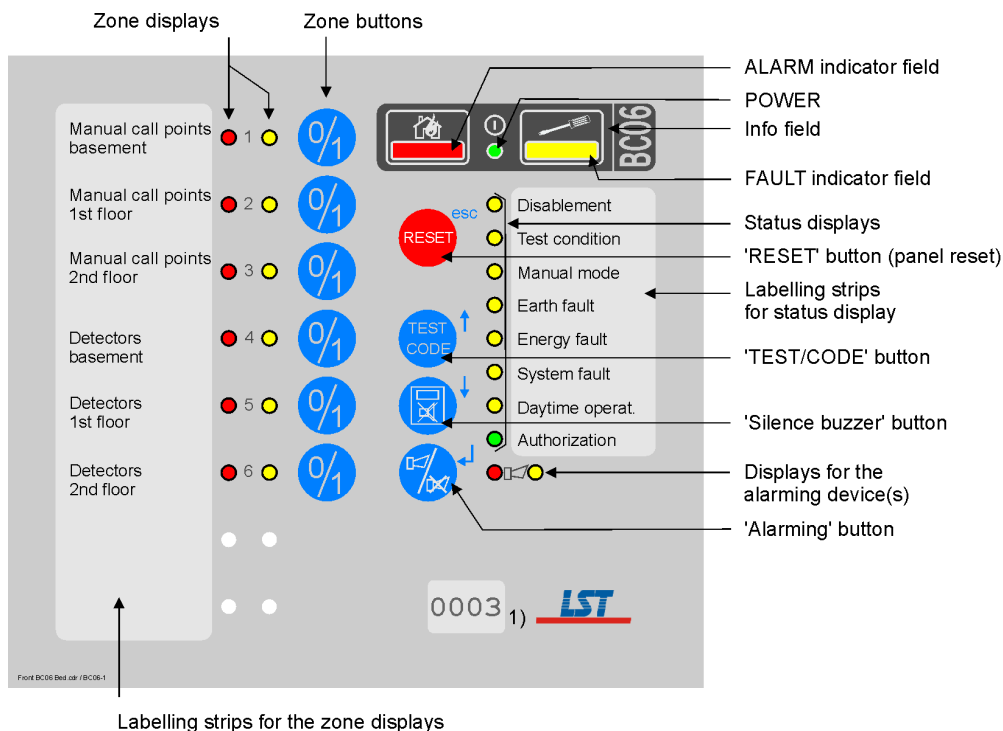


Introduction

This Quick Reference Guide describes the most important operations of the Fire Detection Control Panels Series BC06 with control panel operating firmware PL165 V4.02. This document is intended as quick help for trained users. It does not contain any directions regarding danger to life and health, tips which have to be observed to avoid system malfunctions or damage to property, tips regarding country-specific and/or site-specific requirements of the approvals of the control panel, and it does not point to possible violations of binding European Standards. The tips mentioned above can be found in the User Manuals for the Fire Detection Control Panels Series BC06 ("Part A – Description, Operating Instructions", "Part B – Installation, Connection, Commissioning, Parameterisation, Maintenance").

Displaying and operating elements of the fire detection control panel



1) The four-digit alarm counter is only installed in the Fire Detection Control Panel BC06-2.

Fig. 1: Displaying and operating elements of Fire Detection Control Panels Series BC06


During the normal condition of the fire detection control panel the 'POWER' LED is illuminated. In daytime operation the 'Daytime operation' LED also lights.

Access to authorization level 2

Anyone who has access to the control panel automatically has authorization level 1.

You must enter authorization level 2 to be able to carry out the operations described in this document!

In order to access authorization level 2 from level 1, you must turn a key switch or enter the four-digit numerical code ("user code") on the control panel:

- Enter the user code by means of zone buttons 1 through 4. With the first keystroke, the 'Daytime operation' LED starts flashing. The number of the respective zone button corresponds to the entered digit, each entry is confirmed by a short buzzer sound.
- Complete the code entry by pressing the 'TEST/CODE' button .
- If the code entry was correct, the 'Daytime operation' LED switches back to its initial state before the code entry and the green 'Authorization' LED illuminates.

If you have entered the wrong code, the buzzer will sound a short signal and the 'Daytime operation' LED continues flashing. You can now repeat the code entry.

Press the 'TEST/CODE' button for at least 3 seconds or turn the key switch to exit authorization level 2 and return to level 1.


What to do in the event of a fire alarm


Fire alarm condition

The fire alarm condition is indicated on the control panel as follows:


- ◆ The red ALARM indicator field in the info field is illuminated.
- ◆ In the zone display field, the red LEDs of the alarming detector zones are illuminated. A flashing LED indicates the detector zone in which the first fire alarm occurred. If this detector zone is disabled, the LED of the detector zone with the second oldest alarm flashes, etc.
- ◆ The internal buzzer sounds intermittently.
- ◆ The red LED that indicates the condition of the alarming device will be illuminated from the moment of the actual activation of the connected signalling devices.

The first operations in fire alarm condition


The most important thing in the event of a fire alarm is: keep calm and do not lose control of the situation! Always assume that the fire alarm is "real" and not a deceptive alarm. Therefore, do not press the 'RESET' button (panel reset) , before the alarm operations are completed!

- ◆ Silence the internal buzzer (press the 'Silence buzzer' button ) . The buzzer is reactivated by every additional alarm that is received.
- ◆ Immediately notify the fire brigade!
- ◆ Check if the connected sirens have been activated. If you are within hearing distance of the sirens, this determination is very easy. Otherwise you will have to rely on the displays of the alarming device on the operating field:
 - If the red LED is not illuminated, the sirens have not been actuated.
 - If the yellow LED of the alarming device is illuminated or flashing, it is not clear whether or not the sirens have been actuated.
 In both cases you must initiate appropriate alternative measures to alarm the persons in the dangerous area. Reset the sirens only if you are sure that no evacuation alarm is needed!
- ◆ Find out in which detector zone the fire alarm has occurred. The corresponding LED of the zone display is illuminated; the location of the alarm can be determined from the labelling on the zone display or the list of detector zones. The detector zone where the first fire alarm has occurred is indicated by the corresponding zone LED flashing.
- ◆ If the 'FAULT' indicator field is flashing or the 'Disablement' display is illuminated, you must determine which parts of the system are affected and – if necessary – initiate appropriate alternative measures.
- ◆ Determine, either by yourself or through qualified persons, the actual potential for danger in the locations where a fire alarm has been activated.

Silencing the alarming device



You can silence the activated alarming device (e.g., sounder, strobe) by pressing the 'Alarming' button  . After receiving an additional alarm or after pressing this button again, the alarming device can be reactivated, depending on the parameters set.

Starting and terminating evacuation alarms by means of the Evacuate function

You can start the evacuation alarm of the alarming device by pressing the 'Alarming' button  on the operating field of the Fire Detection Control Panel Series BC06 – provided that the control panel has been parameterised accordingly. Press the 'Alarming' button again to terminate the evacuation alarm.

Starting and terminating evacuation alarms by means of the Evacuation function / NEN 2575

To start the evacuation alarm of the evacuation circuit, simultaneously press the 'Activate EV circuit' button

 and the 'Enable' button  on the operating field of the Fire Detection Control Panel Series BC06 – provided that the control panel has been parameterised accordingly.

Press the 'Silence EV circuit' button  to terminate an evacuation alarm.

Terminating a detector zone alarm

You can terminate the alarm of a detector zone by disabling the respective detector zone. By doing this, all control panel outputs dependent on this alarm are reset as well.


Terminating the fire alarm condition

The fire alarm condition is terminated if the detector zones are no longer reporting fire alarms. One of the following requirements must be met:

- ♦ The characteristics of fire (smoke, temperature, etc.) that caused the fire alarm no longer exist, the fire detectors have been reset and the detector zones in question have been put into normal condition (e.g., by disabling and enabling).
- ♦ The detector zones in question have been disabled.

Automatic fire detectors are usually reset on the control panel by disabling and enabling the detector zone. Manual call points that have been activated must be mechanically reset at the detector itself beforehand.

The fire alarm condition is terminated after you have reset all alarming detector zones.

Press the 'RESET' button (panel reset)  to reset all current fire alarm messages as well as other displays.

What to do in the event of a fault

If the control panel indicates a fault, you must assume that the corresponding part of the system no longer works. Make sure that the system is serviced and put back into operation quickly.

Two special faults must be emphasized:


- ♦ The 'POWER' LED is not illuminated:
It is likely that the power supply, as well as the emergency power supply for the control panel have failed – **the entire fire detection system is out of function!**
- ♦ The 'System fault' LED is illuminated or flashing:
This is a sign that important parts of the control panel Series BC06 have failed; assume that **the entire fire detection system is out of function!**

Fault message condition

The fault message condition is indicated on the control panel as follows:

- ♦ The yellow FAULT indicator field is flashing in the info field.

- ♦ The individual display of the system part that experiences a fault is flashing or the yellow LED of the detector zone for fault messages to which the alarming fault detector is connected is illuminated.
- ♦ The internal buzzer sounds constantly.

You can silence the internal buzzer by pressing the 'Silence buzzer' button . The buzzer is reactivated by every additional fault message that is received and can be reset in the same way.


- ♦ The **yellow LED of a detector zone for fire alarms is flashing** if the respective zone experiences a fault.
- ♦ The **yellow LED of a detector zone for fault messages is flashing** if the respective detector zone experiences a fault. The red LED of such a detector zone illuminates if the respective zone is activated by one of the connected fault detectors.
- ♦ The **yellow LED next to the 'Alarming' button is flashing** in the event of a fault of the alarming device.
- ♦ The **yellow 'Energy fault' status LED is flashing** in the event of a fault in the energy supply.
- ♦ The **yellow 'Earth fault' and 'Energy fault' status LEDs are flashing** in the event of an earth fault.
- ♦ The **yellow 'Energy fault' status LED is flashing** in the event of a fault of the optional Serial Interface Module SIM06-1.
- ♦ The **yellow 'System fault' status LED is flashing or illuminated** in the event of a system fault.
- ♦ The **FAULT indicator field in the info field is flashing** if an auxiliary module that is not supported by the control panel has been connected to the Central Processing Board ZTB06-1.

If the control panel is equipped with the optional Extinguishing Board EXB1-1, faults of the extinguishing system will also be displayed on the control panel.

- ♦ The **flashing yellow 'Summary fault flooding zone' LED** indicates the summary fault message of the extinguishing module.
- ♦ The **yellow 'Extinguishing output fault / Extinguishing module disablement' LED is flashing** in the event of a fault of the extinguishing output (e.g., by a wire breakage or a short circuit in the wiring of the extinguishing valve).
- ♦ The **yellow 'Fault emergency hold device' LED is flashing** in the event of a fault in the wiring of the external emergency hold device (e.g., by wire breakage or short circuit).
- ♦ The **yellow 'Summary fault flooding zone' LED is flashing** in the event of a fault in the wiring of the external activation device. If the system has been installed according to EN 12094-1 (i.e., a special detector zone has been used for the activation devices), the yellow LED of the respective zone flashes as well.
- ♦ The **yellow 'Fault input' LED is illuminated** in the event of a fault of the extinguishing system itself. **The LED is flashing** when a wire breakage or short circuit in the wiring of the external fault detector occurred. If the system has been installed according to EN 12094-1 (i.e., a special detector zone has been used for the fault detectors), the yellow LED of the respective zone flashes.
- ♦ The **yellow 'Output Activated condition fault/Output Released condition fault' LED is flashing** in the event of a wire breakage or short circuit in the wiring of external alarming devices, luminescent warning signs, etc.

Operation of the fire detection control panel


Resetting the fire detection control panel

By means of the 'RESET' button , fire alarms, fault alarms, faults, the activated alarming device, the activated evacuation circuit, etc., all of which are displayed on the Fire Detection Control Panel Series BC06, are simultaneously reset. The displaying of a system fault is not affected by the reset. Disabled parts of the system and parts that are put in the test condition are also not re-enabled by resetting the fire detection control panel!

An activated Extinguishing Board EXB1-1 is also reset by the 'RESET' button, provided that the extinguishing process has advanced to a condition that allows resetting.

Silencing the internal buzzer / display test

You can silence the internal buzzer of the fire detection control panel by using the 'Silence buzzer'


button . The buzzer will be reactivated when an additional fire or fault message is received.

If you press this button when the buzzer is silent, the "Display test" function is activated. When this occurs, the buzzer and all display elements will be activated for approximately 5 seconds; you can check whether all display elements are functional.

Operating the standard version of the alarming device


Silencing / reactivating the alarming device in the event of a fire alarm

If a detector zone that is assigned to the alarming device has been activated, the alarming device is activated either immediately or with a delay, depending on the parameter setup and the daytime/nighttime operation mode of the control panel. The red LED illuminates upon activation of the alarming device.



Press the 'Alarming' button  to silence the activated alarming device in the event of a fire alarm; the assigned red LED goes out. While the control panel is still in the fire alarm condition, the silenced alarming device can be reactivated by pressing the button again, provided that the respective parameters have been set.

The silenced alarming device is activated again when another alarm message arrives – provided that this function has been enabled during parameterisation - and it can be silenced in the same way.

Disabling and enabling the alarming device


By pressing the 'Alarming' button  you can toggle the non-activated alarming device off and on. The "OFF" condition is indicated by the yellow LED of the alarming device and the yellow status display 'Disablement' being illuminated. If the alarming device is in the test condition (test activation), you disable it by pressing the 'Alarming' button and thus terminate the test activation.

Testing the alarming device



If an alarming device is enabled and not in the fault condition, you can switch the alarming device into the test condition and thus activate it by consecutively pressing the 'TEST/CODE'  and the 'Alarming' button . The test condition is indicated by the red LED of the alarming device and the yellow status display 'Test condition' being illuminated. You terminate the test condition of the alarming device by pressing the 'Alarming' button and thus switching the alarming device into the "OFF" condition.

Operating the alarming device with Evacuate function


Activating / silencing / reactivating the alarming device with Evacuate function

To manually activate the alarming device (evacuation alarm without fire alarm), press the 'Alarming' button . The alarming device will be activated without delay and the red LED will illuminate. By pressing the 'Alarming' button once more, you silence the alarming device again, i.e., the evacuation alarm is terminated, no matter whether the evacuation alarm has been activated by a fire alarm or manually. The red LED goes out.

Disabling and enabling the alarming device with Evacuate function

An alarming device with Evacuate function, when it is enabled or in the test condition, is disabled by consecutively pressing the 'TEST/CODE' button  and the 'Alarming' button . The "OFF" condition is indicated by the yellow LED of the alarming device and the yellow status display 'Disablement' being illuminated. You enable the disabled alarming device again by pressing the 'Alarming' button (without pressing the 'TEST/CODE' button before).




Testing the alarming device with Evacuate function

To test the alarming device, activate an evacuation alarm by pressing the 'Alarming' button . Press the 'Alarming' button again to terminate the evacuation alarm.


Operating the alarming device configured as evacuation circuit / NEN 2575

Activating / silencing / reactivating the alarming device configured as evacuation circuit / NEN 2575



For safety reasons, the activation of the alarming device without fire alarm (i.e., the manual start of an evacuation alarm) requires "two-button operation". For this purpose, simultaneously press the 'Activate EV circuit' button

 and the 'Enable' button ; the red LED illuminates. To silence the alarming device (i.e., to terminate the evacuation alarm), press the 'Silence EV circuit' button ; the red LED goes out.

Disabling and enabling the alarming device configured as evacuation circuit / NEN 2575


By pressing the 'Activate EV circuit' button , you can toggle the alarming device off and on. The "OFF" condition is indicated by the yellow LED of the alarming device and the yellow status display 'Disablement' being illuminated. If the alarming device is in the test condition (test activation), you can disable it by pressing the 'Activate EV circuit' button and thus terminate the test activation.

Alarming device with investigation option initiated by 'Silence buzzer' button

In the event of a fire alarm, if you press the 'Silence buzzer' button  while the "pre-alarm" or the "alarm" delay time is running, the delay time will be aborted without the alarming device being activated. Following this abort, the alarming device can only be activated if yet another detector zone is activated in addition to the already activated detector zones. You can reset the alarm delay circuit of the alarming device to standard mode by terminating the fire alarm condition (e.g., by pressing the 'RESET' button ).

Displaying and operating detector zones



Disabling and enabling detector zones

By pressing a zone button  you can toggle the respective detector zone and thus the connected detectors off and on.

If the zone is in the "OFF" or "TEST" condition, pressing the zone button will enable it; however, pressing the button will disable the zone if it is in the "ON" or "ALARM" condition. A disabled zone is indicated by the corresponding yellow zone display being illuminated, in addition the yellow status display 'Disablement' is also illuminated.



When detector zones are enabled, a test lasting 6 seconds in length will be conducted by the control panel in order to verify whether an alarm criterion exists in the zone that is to be enabled. If this is the case (e.g., because a manual call point was not reset following an alarm), the detector zone will not be enabled, several short warning notes will be sounded by the buzzer and the yellow zone display will remain illuminated.

Switching detector zones into the test condition

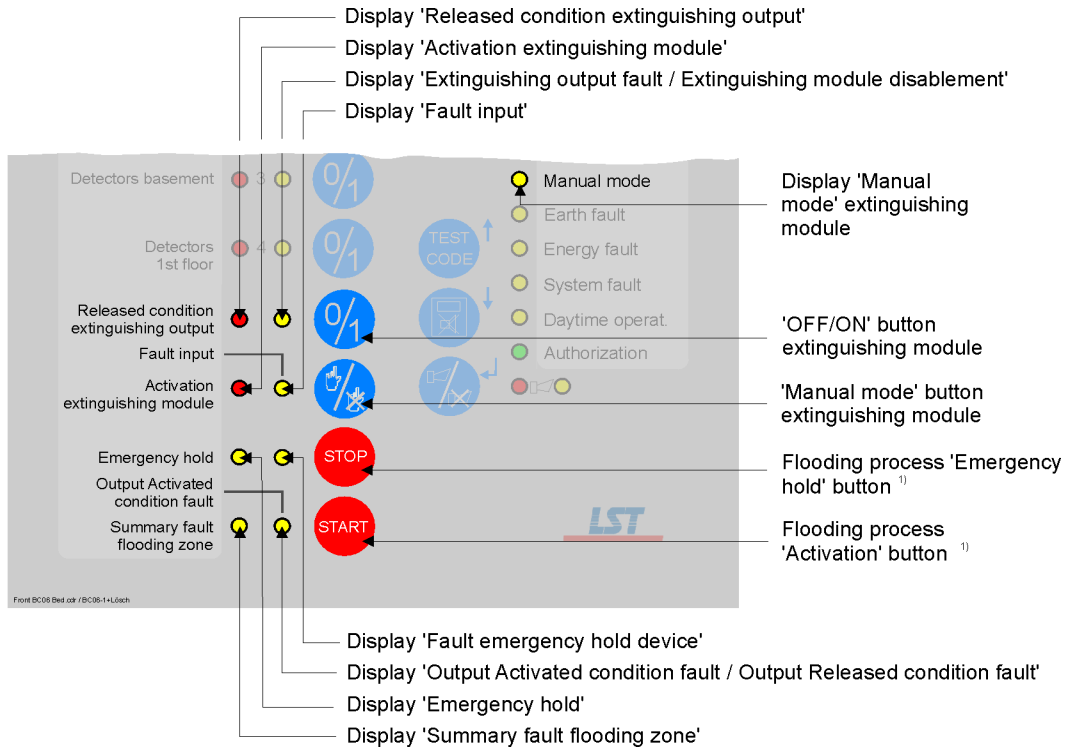
In the test condition of a detector zone you can test the function of the installed fire detectors or fault detectors without activating the alarming device or the fire prevention devices. You can switch the respective zone into the test condition by consecutively pressing the 'TEST/CODE' button  and the zone button . Just like the disablement condition, the test condition is indicated by the yellow 'Zone display' LED being illuminated. In addition, the yellow status display 'Test condition' also illuminates. You can terminate the test condition of a zone by re-enabling the zone.

Determining the status of a detector zone

If several yellow zone display LEDs and both of the status displays 'Disablement' and 'Test condition' are illuminated at the same time, you can not directly determine, which zone has been disabled and which zone has been switched into the test condition. You can, however, determine the status of each zone, by simultaneously pressing






the 'TEST/CODE' button  and the zone button  of the respective zone. For the time the buttons are pressed, one of the two status displays 'Disablement' and 'Test condition' will change from illuminated to flashing and thus indicate the current condition of the selected detector zone.

Display and operating elements of the Extinguishing Board EXB1-1



1) The operating field of an extinguishing control panel, for which the conformity with EN 12094-1 is confirmed, is not equipped with 'Emergency hold' and 'Activation' buttons.

Fig. 2: Detail of the operating field of the Fire Detection Control Panel Series BC06 with the LEDs and buttons that are required for displaying and operating the Extinguishing Board EXB1-1

- ◆ 'OFF/ON' button : You can toggle the entire extinguishing module off and on with this button. Disablement is only possible when the extinguishing module is in the normal condition or in the Pre-activated condition.
- ◆ 'Manual mode' button : This button starts the manual mode of the extinguishing module, if it is pressed again, the manual mode will terminate.
- ◆ 'Emergency hold' button : You can halt the flooding process during the pre-discharge-warning time by pressing this button.
- ◆ 'Activation' button : You can start the flooding process at any time and independently from the alarm situation of the fire detection control panel by pressing this button. The internal buzzer sounds intermittently and can be silenced by pressing the 'Silence buzzer' button.
- ◆ "RESET" button (panel reset) : You can reset the extinguishing module by pressing this button under the following conditions. (ATTENTION: Every time this button is pressed, the fire detection control panel is reset, too!):
 - A reset is only possible prior to the Activated condition or in the Released condition.
 - If the installer did not parameterise a reset blocking time, pressing the 'RESET' button after the beginning of the Released condition will reset the extinguishing module and thus terminate the flooding process.

- If a reset blocking time has been parameterised, a reset by means of the 'RESET' button is not possible until this reset blocking time has elapsed. Only after the reset blocking time has elapsed, pressing the 'RESET' button will reset the extinguishing module and thus terminate the flooding process.