Honeywell

Operating Instructions

Control panel MB-Secure
via
LED Operating unit for MB-Secure
item no. 013000, 013011, 013013, 013015

LED/LCD Operating unit for MB-Secure
item no. 013001, 013021, 013023, 013025

	P00462-03-0G0-03 2018-08-14	VdS G114025	EMBSC.00.0V07	Subject to change without notice

Contents

Symbols

The following symbols are used to refer you to sections of particular importance in this manual:

Indicates important information on a topic, a procedure and other important information.

Introduction

The information in this manual may be changed at any time without prior notice and does not commit Novar GmbH in any way. Novar GmbH is not liable for possible errors or inaccuracies in this manual.

1. General

This manual shows how to work with the MB-Secure control unit at user level. This manual can only provide a general description of possible controls due to the variety of operating unit combinations as well as the ability to customize operating unit features to meet individual requirements.

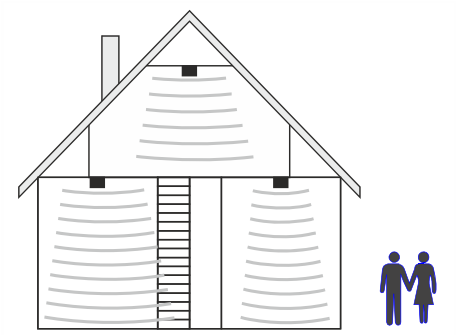
Programming affecting the system is reserved for the installer. Please contact the installer for troubleshooting, system enhancements, etc.

Only a few operations are required for normal, everyday operation. As a result, knowledge gained pertaining to operation and general handling may be quickly forgotten. This manual should therefore be placed close to the device for quick reference as required.

1.1 Function description

Arming/disarming - these terms mean practically the same thing as switching the system on and off.
To switch on means to arm the system. This can either be the “internally armed” status for presence security or the “externally armed” status for absence security.
To switch off means to disarm the system.
Arming and disarming is performed using appropriate operating elements.
Depending on the version and components of your system, these elements can be IDENT-KEY operating units, operating units or card readers. Alternatively, the arming / disarming can also be performed via a macro.

1.2 Absence security



Absence security refers to external arming using a suitable operating element e.g. an IDENT-KEY operating unit. This means that you assume that the zone to be secured has been vacated and cannot be entered even accidentally through an unlocked door, for example.

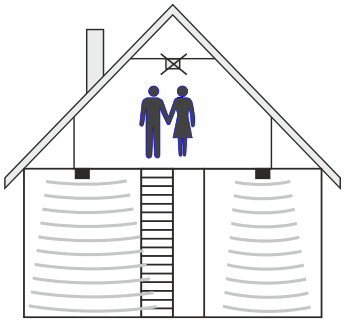
The control panel can only be externally armed if there is no fault in the mains or the accumulator. In addition, no detector group or lock group may be actuated. Also, no uncleared alarm or fault of the AWUG (transmission device) may be pending.
Detector groups which were externally disabled are automatically reactivated by external arming. However, after disarming disabling is active again.

Arming is acknowledged by an audible signal which lasts approx. 3 seconds.
Every pending alarm criterion now releases a main alarm. Depending on the system configuration, the alarm is transmitted on-site visually (flashing lamp) and/or audibly (loudspeaker). This alarm can also be reported to a security service via AWUG (transmission device), if installed.

Absence security status can only be lifted by disarming using an operating element such as an IDENT-KEY operating unit or a correspondingly programmed macro. After disarming, an actuated alarm is displayed on the corresponding displays of the operating units and on any parallel display boards installed. The first detector group to be actuated is indicated by a flashing LED. Other actuated detector groups are indicated via a constantly lit LED. After disarming, a reminder signal sounds from the control panel buzzer or a connected operating unit.

The described functions stand for programming with standard parameters. Due to the various programming possibilities offered by the installer, considerable differences can occur with your system. Please consult your installer.

1.3 Presence security



Presence security does not require that the secured zone be vacated. Partial zone arming is possible with this form of security, i.e you can disable detector groups. It is then possible to move about within these detector groups without releasing an alarm by actuating a motion detector or a window contact, for example. Internal arming is carried out using operating units or a correspondingly programmed macro.
A pending alarm criterion releases an internal alarm. The displays of operating units and parallel boards are not blanked - this means that the system status is immediately recognizable.

Presence security can be canceled by disarming using operating units/macro or, if programmed, by briefly locking and unlocking the external arming element. The latter function is intended for persons who return home late and who must deactivate internal arming before entering the internally armed zone.
This disarming simultaneously switches off the internal acoustic signal transmitters.

The described functions stand for programming with standard parameters. Due to the various programming possibilities offered by the installer, considerable differences can occur with your system. Please consult your installer.

1.4 Operation in conjunction with the "MB" RF system

On operating the control panel in conjunction with the "MB" RF system please pay attention to the following.

- Between electronical devices e.g. fax machines, computers, TVs, etc. and the MB RF devices there must be space of min. 1 m. A min. space of 2 m is recommended.

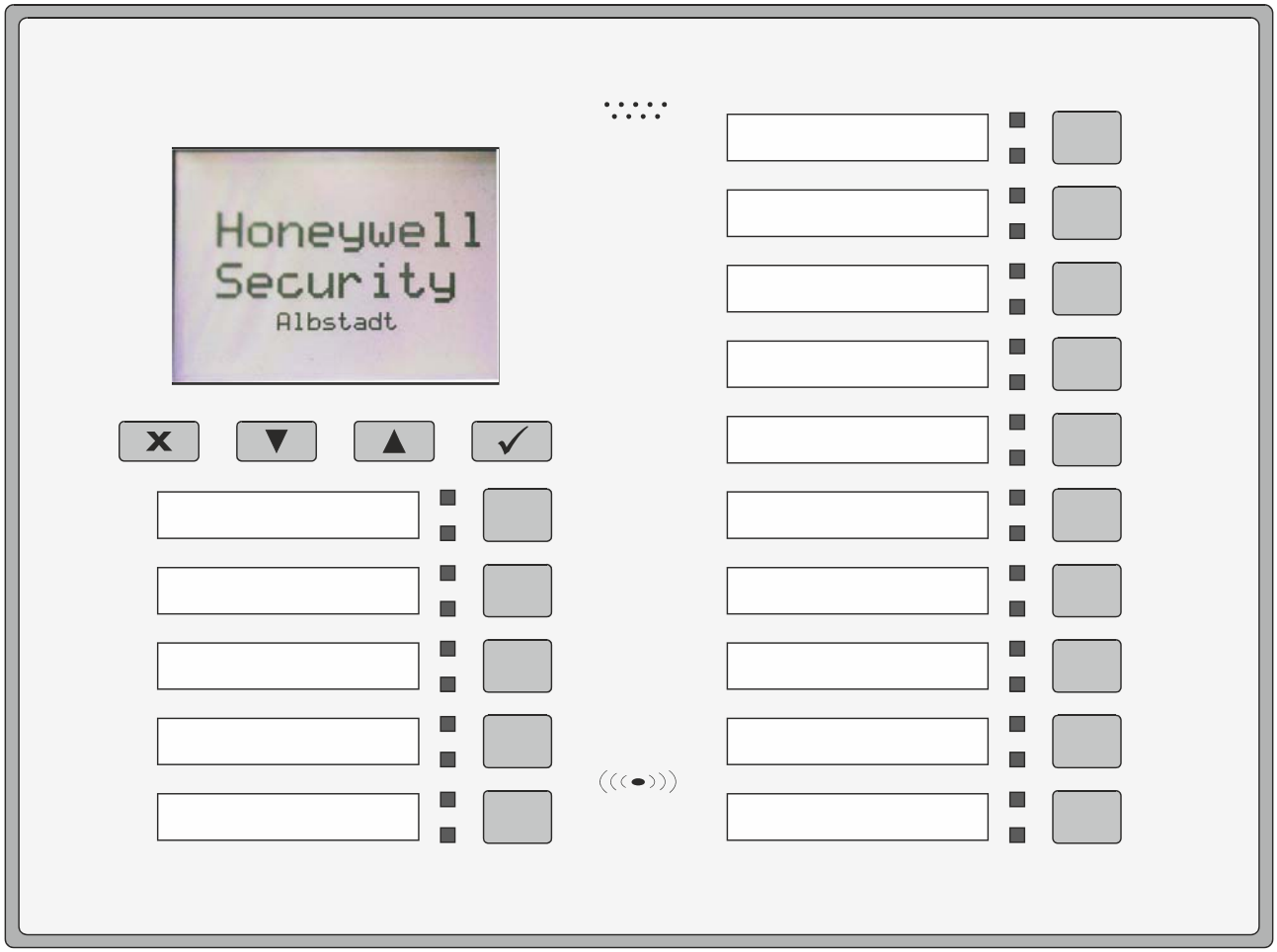
- Radio transmission quality interference due to:
  - constructional changes as e.g. partitions made of stone or also light weight construction materials
  - subsequently placed metal cabinets near by RF devices (space <2 m)
  - placing metallic objects (wall clocks, cups, etc.) close to the RF devices (space <1 m)
  - papering of metallic wallpapers or metallic laminated wallpapers as well as adding metallic laminated insulation material

All these items can have subsequent negative effect on the quality of the RF transmission path. Under circumstances it can happen, that the radio system must be newly calibrated by the installer.

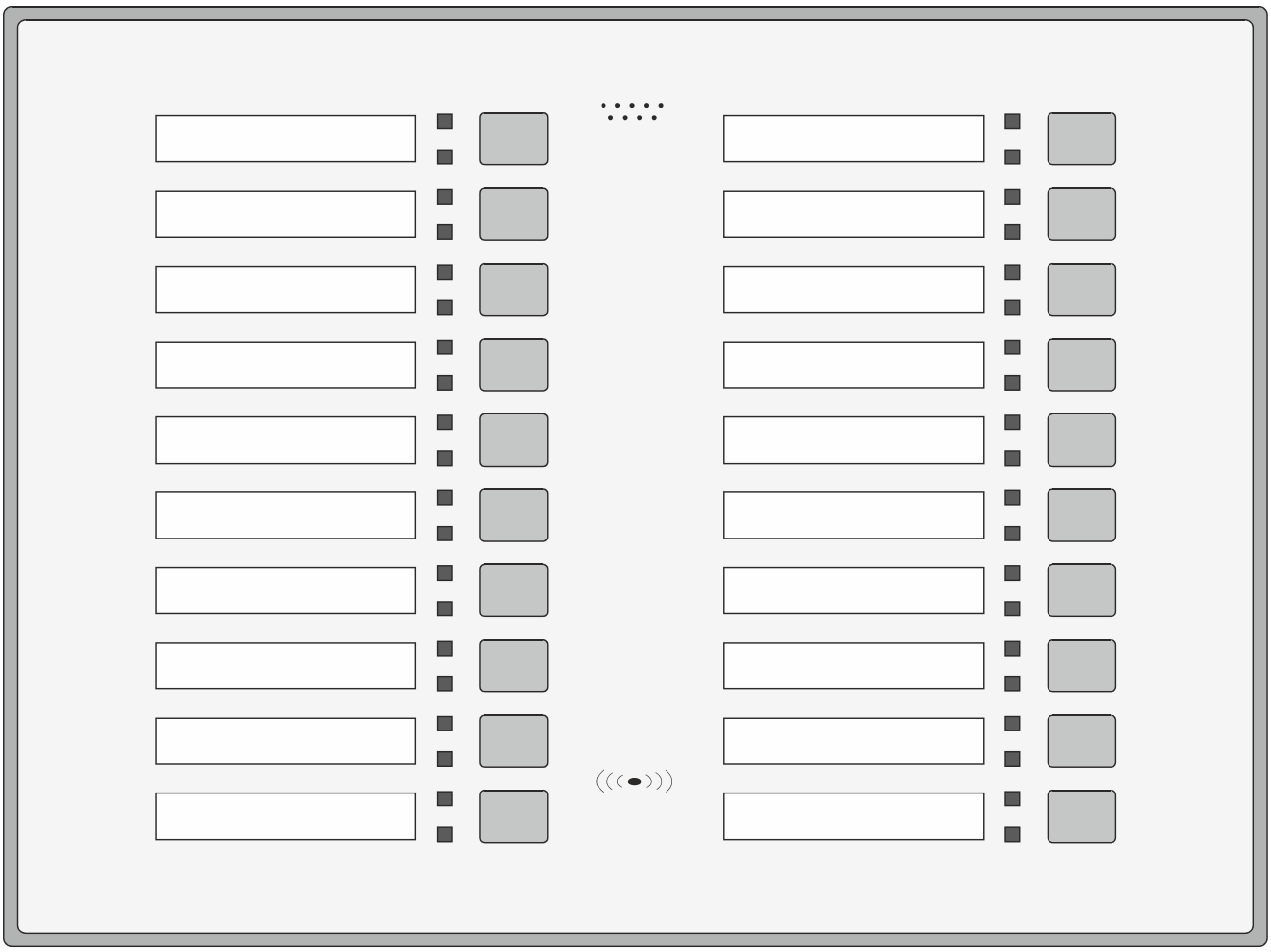
2. Operating units

2.1 Labeling template

2.1.1 LED/LCD-Operating unit



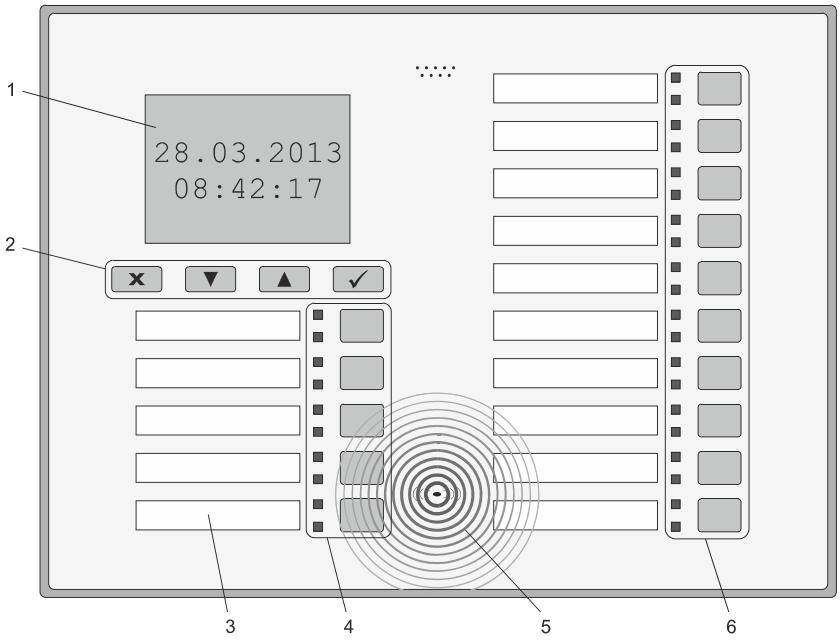
2.1.2 LED-Operating unit



2.2 Operating and indication components on the operating units

The combination of the operation key and the associated LEDs is named "IO key" (Indication/Operation key) in the following text.

2.2.1 LED/LCD-Operating unit



1 - LC-display; for plain text display. User guidance and messages are provided using plain text information.

2 - Function keys

- "Cancel/back" button
- "Scroll down" button
- "Scroll up" button
- "Confirm / OK" button

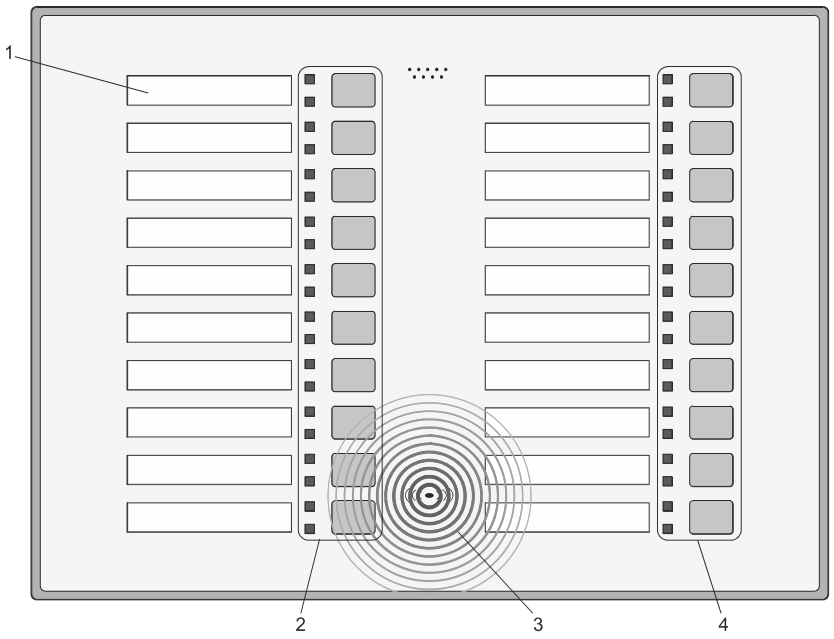
The function keys are released for use following entry of the correct code or identification using a legitimate ID data carrier.

The following functions can be used after pressing the "Confirm / OK" button:

- Set time
- Disable user
- Change user PIN
- Change own PIN
- Change language
- Control panel info

3 - Custom text field.
The label is applied by the installer using labeling strips according to individual programming.
4 - Button/indicator field (IO keys)
5 - Card reader reception area
6 - Button/indicator field (IO keys); buttons for code entry

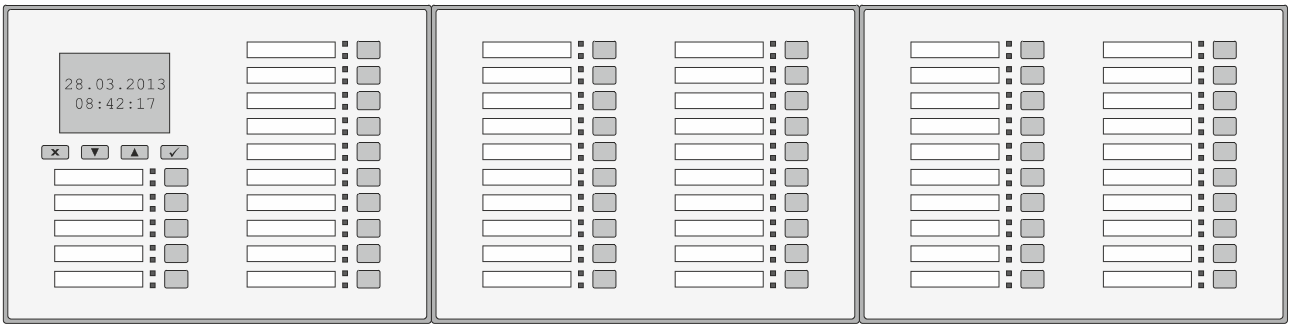
2.2.2 LED-Operating unit



1 - Custom text field.
The label is applied by the installer using labeling strips according to individual programming.
2 - Button/indicator field (IO keys)
3 - Card reader reception area
4 - Button/indicator field (IO keys); buttons for code entry

2.2.3 Master LED/LCD-Operating unit

If several operating units are grouped together locally, one of the operating units can be set as the master operating unit. The identification for display/indication and operation is then carried out centrally on this operating unit. No identification can be carried out on the other assigned operating units.



Group display 2nd floor
LCD-Master

Group display 1 / 2nd floor
assigned to master operating unit
"Group display 2nd floor LCD-Master"

Group display 2 / 2nd floor
assigned to master operating unit
"Group display 2nd floor LCD-Master"

One operating unit functions as the master operating unit here. The identification for display and/or operation for the entire group is made at this master operating unit.

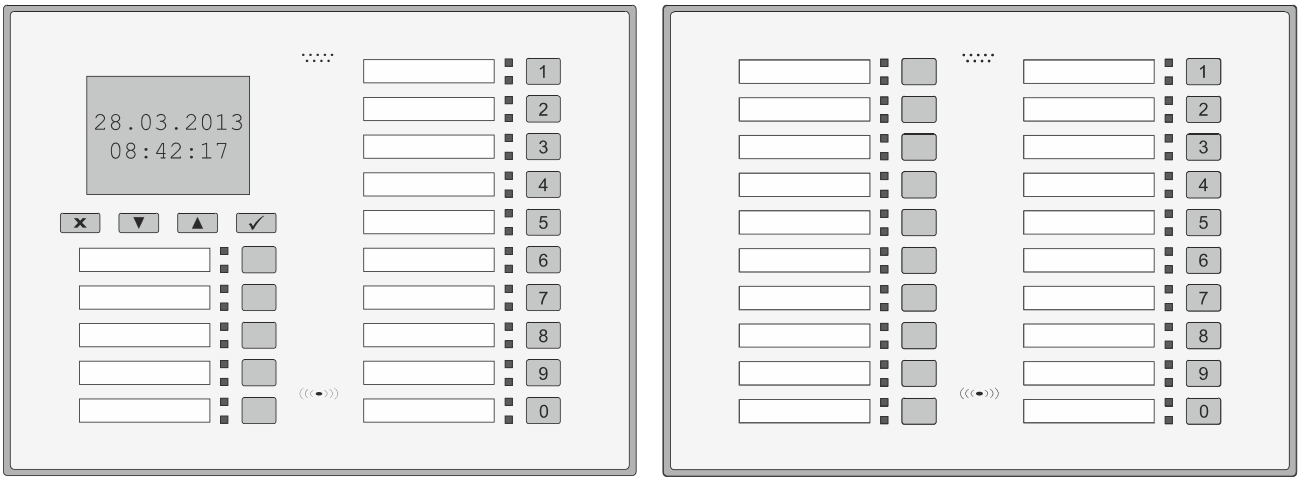
2.2.4 STOP function

A STOP function is triggered if a correct PIN entry or identification with a legitimate ID data carrier occurs. If the buzzer is activated, this function causes the buzzer to be switched off. If further zone buzzers are present, these are also stopped if the zone(s) are assigned to the PIN or the ID data carrier.
This function is available with the LED/LCD operating unit as well as with the LED operating unit.

2.3 Identification for display/indication and/or operating release

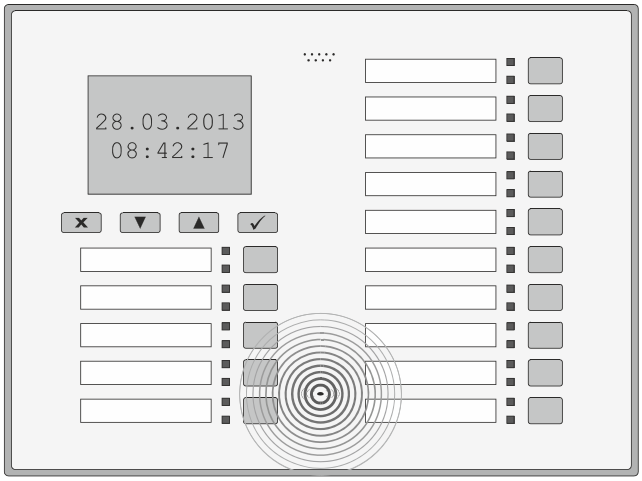
2.3.1 Personal identification using PIN (Code)

The "Release for operation" button is used to initiate code entry. A flashing yellow LED indicates readiness for code entry. The code is entered on the LED/LCD and LED keypad using the 10 buttons on the right.



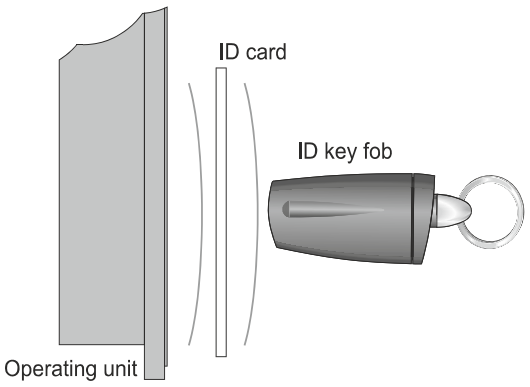
Code entry is to be confirmed by pressing the "Release for operation" button again. If the correct code is entered, the yellow LED switches off and the green LED starts flashing, thus signaling release for operation. At the end of the operating time, the green LED is once again lit up permanently.

2.3.2 Personal identification using data carrier



No button has to be pressed beforehand when using a data carrier for personal identification. The integrated card reader checks to determine whether there is a corresponding data carrier in its reception area at regular intervals.
Hold the data carrier in the card reader's reception area for release identification.

The ideal scanning distance is 0 - 3 cm.
Hold ID cards as parallel to the housing as possible. Or hold key fobs as perpendicular to the housing as possible.



2.4 Display/indication and operating variants

Depending on the programming by the installer, the display/indication or the operation are permanently released or a release by a data carrier and/or the PIN is required.

2.4.1 Operating time

Die Bedienzeit für die Bedienteile kann zwischen 0 Minuten 10 Sekunden und 4 Minuten 14 Sekunden festgelegt werden. Die Bedienzeit startet direkt nach Aktivierung der Bedienfreigabe. Mit jeder Tastenbetätigung wird der Ablauf der Bedienzeit neu gestartet. Das heißt, nach der letzten Tastenbetätigung ist das Bedienteil für die eingestellte Zeit für eine erneute Bedienung freigegeben.
The operating time for the operating units can be set between 0 minutes 10 seconds and 4 minutes 14 seconds. The operating time starts immediately after activation of the operating enable. Each time the button is pressed, the operating time starts new. That is, after the last key actuation, the operating unit is released for a new operation for the set time.

Operating time is set to [ ].

2.4.2 Display/indication

- Deactivated	No status is displayed on the operating unit
- Without identification	The LCD/LED indicators on the operating unit are always enabled. That is, messages or status indications are displayed directly.
- PIN only	To release indication entry of a valid PIN is neccessary.
- Data carrier only	To release indication reading a valid ID data carrier is neccessary.
- PIN or Data carrier	To release indication entry of a valid PIN or reading a valid ID data carrier is neccessary.
- PIN and Data carrier	To release indication entry of a valid PIN and reading a valid ID data carrier is neccessary. The order of the two criteria is not specified.

Display/indication is set to [ ]. After finishing the release indications-off-mode is active again.

2.4.3 Operating

- Deactivated	No operation is possible on the operating unit. (e.g. usage as pure indicator)
- Without identification	Operation for the operating unit is permanently released.
- PIN only	To release operation entry of a valid PIN is neccessary.
- Data carrier only	To release operation reading a valid ID data carrier is neccessary.
- PIN or Data carrier	To release operation entry of a valid PIN or reading a valid ID data carrier is neccessary.
- PIN and Data carrier	To release operation entry of a valid PIN and reading a valid ID data carrier is neccessary. The order of the two criteria is not specified.

Operation is set to [ ].

2.4.4 Indications-off-mode when externally armed

If this parameter is activated, no indication of the main zone and group functions occurs in the externally armed state of the corresponding main zone.

Indications-off-mode is set to [ ] active / [ ] inactive.

2.4.5 Abortive attempt / blocking time

Blocking time
The blocking time takes effect after the maximum number of "abortive attempts". These abortive attempts can either be the entry of wrong PINs, door codes or the scanning of **various** non-authorized data carrier codes. Scanning **the same** non-authorized data carrier multiple times does not increase the "abortive attempts" count. The following behavior applies in accordance with EN 50131:

3rd abortive attempt	->	Activation of blocking time
4th abortive attempt	->	Activation of blocking time
5th abortive attempt	->	Activation of blocking time
6th abortive attempt	->	Activation of blocking time
7th abortive attempt	->	Activation of blocking time + Activation of "abortive attempt" alarm acc. to programming + Activation of actuation criterion "Blocking time on"

Blocking time is set to [ ].

After the 7th abortive attempt, the following function is activated:

- a(n) [ ] alarm.

Regardless of the global programming for the entire operating unit, individual releases can be defined for each individual LED/button combination.
Thus, e.g. for normal operating functions an identification via PIN or data carrier may be required, but for the arming/disarming of a zone a PIN and data carrier is neccassary.

3. Description of the functions

3.1 IO keys

3.1.1 Single key

A single key is assigned a single function.
If the button is pressed > 40 ms - < 2 s -> the feature is triggered.

To acknowledge that the button has been pressed an acoustic signal is used.

3.1.2 Multi key

In the selection list there are functions with the suffix "(multi)" available. These IO keys are not assigned a single function here, but the function of the IO key depends on how long the key is pressed.
The following rules apply here:

Button pressed > 40 ms - < 2 s	->	Function 1
Button pressed > 2 s - < 4 s	->	Function 2
Button pressed > 4 s - < 6 s	->	Function 3
Button pressed > 6 s	->	No function

The times are acoustically signaled. The first beep is issued directly when the button is pressed and then every 2 seconds.

Example: Outdoor lighting is switched on using function 2. To perform this function, the corresponding button is to be pressed and then released after the second beep. This switches the outdoor lighting on.

3.1.3 Toggle function

Some of the functions listed below are designed as a toggle function. This means that the function is activated when the IO key is pressed for the first time, and the function is deactivated again with the second operation.

3.2 LEDs

In der nachfolgenden Beschreibung erfolgt unter anderem die Funktionsbeschreibung der LEDs rot und gelb. Hierbei handelt es sich jedoch nicht um zwei einzelne LEDs sondern um eine Duo-LED. Das heißt, es wird entweder die Farbe rot oder die Farbe gelb angezeigt. Die Anzeigen besitzen folgende Priorität:

In the following description, the function description of the LEDs red and yellow is made. However, this are not single LEDs but a duo LED. That is, either the color red or the color yellow is displayed. The indications have the following priority:

Priority 1:	Alarm (red)
Priority 2:	Actuation (red)
Priority 3:	Fault (yellow)

This means that a fault can only be indicated if there is no actuation or an alarm.

3.3 Functions

3.3.1 Actuation / Macro

Whit this programming of an IO key, the LEDs can be individually assigned to an indication criterion.
This key can be used to start a macro. A macro can combine several functions and thus include extensive function or control processes.

IO key:

Function description:

Function LED red:

Function LED green:

Function LED yellow:

3.3.2 Release for operation

In the normal operating state, the green LED serves as an operating indicator, i.e. it indicates presence of operating voltage.

IO key:

Key function: This key is used to initiate code entry. A flashing yellow LED indicates readiness for code entry.
On the LED operating unit, the code is entered using the 10 IO keys on the right (keys 11 - 20). Key 11 is 1, key 12 is 2, etc. On the LCD operating unit, it is also the 10 IO keys on the right (keys 6 - 15). Key 6 corresponds to 1, key 7 corresponds to 2, etc.
Code entry has to be confirmed by again pressing the IO key.

- If the correct code is entered, the yellow LED switches off and the green LED starts flashing, thus signaling release for operation. At the end of the operating time, the green LED is once again lit up permanently.

- After getting the release for operation, the release for operation for servicing level 3 can be enterred with the appropriate authorization.

- Pressing the release for operation key twice ends the operating time (manual termination of the operating time). With unlimited operating time this can be used to stop the release for operation (log out).

3.3.3 Release for servicing level 3

IO key:  Toggle function

LED green:
- LED permanent on: Operation release for PIN entry for servicing level 3. Information on PIN entry can be found under description "Release for operation" earlier in this chapter.
- LED flashing: Operation release for servicing level 3 takes place.

3.3.4 Switch LED on/off

IO key:  Toggle function

Key function: With this programming, the entire operating unit display can be shut down (LEDs and background lighting) with the key. Pressing the key again switches the indicators on again. This function can be used in sleeping areas, for example.
The following specifications apply for the function:
- The function can be executed in the disarmed and armed state.
- The function affects the entire operating unit group.
- In case of an alarm, display deactivation is canceled. The alarms are indicated depending on the arming state of the main zones and on the programming.

3.3.5 Main zone external arming (multi)

For a description of "multi keys", see above in this chapter.

IO key: 

Main zone: 

Function 1: External arming/disarming -> Toggle function
Function 2: Clear main zone
Function 3: Omit main zone
With this programming, a currently actuated main zone can be armed once (internally/externally).

Ex.: Due to short-term construction measures, several detector groups within a main zone are continually being actuated. This main zone must be armed, however, since it is dependent on another main zone. The "actuated" main zone is set to omit. This means that the actuated detector groups within this main zone are skipped. Non-actuated detector groups are still ready to signal during the next arming. The next time disarming is carried out, the omit function is automatically reset.

LEDs:

LED green	LED permanent on:	Main zone externally disarmed/internally armed
	LED flashing (7:1):	Main zone omitted
	LED permanent off:	Main zone externally armed
LED red	LED permanent on:	Alarm
	LED flashing (1:1):	Tamper alarm
LED yellow	LED permanent on:	Fault

Additional parameter: The "Operation 2" additional parameter can be programmed for this function. This parameter is used in the externally armed switching state.

Ex.: Only the PIN is required to enable the functions arming, clearing and omit. For the disarm function, however, operation release requires a PIN and data carrier. This is determined with the "Operation 2" parameter.

3.3.6 Main zone internal arming (multi)

For a description of "multi keys", see above in this chapter.

IO key:

Main zone:

Function 1: Internal arming/disarming -> Toggle function
Function 2: Clear main zone
Function 3: Omit main zone

With this programming, a currently actuated main zone can be armed once (internally/externally). With omit arming, the actuated detector groups are skipped. The remaining detector groups remain ready to signal. Disarming deactivates the omit function again.

Functions 2 and 3 are only available from the "disarmed" switching state. A negative acknowledgment is sounded in case of a call-up in the internally armed or externally armed state.

LEDs:

LED green The green LED signals the current switching state of the main zone.
LED permanent on: Main zone disarmed
LED flashing (7:1): Main zone omitted
LED permanent off: Main zone internally armed/externally armed

LED red
LED permanent on: Alarm
LED flashing (1:1): Tamper alarm

LED yellow
LED permanent on: Fault

3.3.7 Main zone external arming

IO key: Toggle function

Main zone:

Key function: Main zone external arming/disarming

LEDs:

LED green	The green LED indicates the current status of the main zone.	
	LED permanent on:	Main zone disarmed
	LED permanent off:	Main zone internally/externally armed
LED red	LED permanent on:	Alarm
	LED flashing (1:1):	Tamper alarm
LED yellow	LED permanent on:	Fault

Additional parameter: The "Operation 2" additional parameter can be programmed for this function. This parameter is used in the externally armed switching state.

3.3.8 Main zone internal arming

IO key: Toggle function

Main zone:

Key function: Main zone internal arming/disarming

LEDs:

LED green	The green LED indicates the current status of the main zone.	
	LED permanent on:	Main zone disarmed
	LED permanent off:	Main zone internally/externally armed
LED red	LED permanent on:	Alarm
	LED flashing (1:1):	Tamper alarm
LED yellow	LED permanent on:	Fault

3.3.9 Clear main zone

IO key:

Main zone:

Key function: Clearing of all actuated detector groups in this main zone. This function is available only in the disarmed state.

LEDs:

LED green	LED permanent on:	Main zone externally disarmed/internally armed
	LED flashing (7:1):	Main zone omitted
	LED permanent off:	Main zone externally armed
LED red	LED permanent on:	Alarm
	LED flashing (1:1):	Tamper alarm
LED yellow	LED permanent on:	Fault

3.3.10 Omit main zone

IO key: Toggle function

Main zone:

Key function: Omit main zone on / off
With this programming, a currently actuated main zone can be armed (internal/external) once.

Ex.: Due to short-term construction measures, several detector groups within a main zone are continually being actuated. This main zone must be armed, however, since it is dependent on another main zone. The "actuated" main zone is set to omit. This means that the actuated detector groups within this main zone are skipped. Non-actuated detector groups are still ready to signal during the next arming. The next time disarming is carried out, the omit function is automatically reset.

LEDs:

LED green	LED permanent on:	Main zone externally disarmed/internally armed
	LED flashing (7:1):	Main zone omitted
	LED permanent off:	Main zone externally armed
LED red	LED permanent on:	Alarm
	LED flashing (1:1):	Tamper alarm
LED yellow	LED permanent on:	Fault

3.3.11 Main zone arming prevention (multi)

For a description of "multi keys", see above in this chapter.

IO-key:

Main zone:

Function 1: Main zone internal arming prevention
Function 2: Main zone external arming prevention
Function 3: No function

The exact description of the functions can be found in the two detailed descriptions below.

3.3.12 Main zone internal arming prevention

IO-key:

Main zone:

Key function: This function allows for determine The reason if internal arming cannot be performed.
The function can be used to output on the LCD operating unit's display the cause of one or more cases in which arming is prevented.

LEDs:

LED green	The green LED indicates the current status of the main zone.	
	LED permanent on:	Main zone disarmed
	LED flashes (7:1):	Main zone omitted
	LED permanent off:	Main zone internally/externally armed
LED red	LED permanent on:	Alarm
	LED flashes slowly:	Tamper alarm
LED yellow	LED permanent on:	Fault

3.3.13 Main zone external arming prevention

IO key:

Main zone:

Key function: This function allows for determine the reason if external arming cannot be performed.
The function can be used to output on the LCD operating unit's display the cause of one or more cases in which arming is prevented.

LEDs

LED green	The green LED indicates the current status of the main zone.	
	LED permanent on:	Main zone disarmed
	LED permanent off:	Main zone internally/externally armed
LED red	LED permanent on:	Alarm
	LED flashes slowly:	Tamper alarm
LED yellow	LED permanent on:	Fault

3.3.14 Main zone alarm stop

IO-key:

Main zone:

Key function: This function stops alarm signalling via sirens, flash lamps and main zone buzzers. Similarly, correspondingly programmed outputs are reset.

3.3.15 Main zone test (multi)

For a description of "multi keys", see above in this chapter.

IO key:

Main zone:

Function 1: Walk test main zone on / off -> Toggle function

The walk test mode is automatically ended by internal or external arming of the main zone.

Function 2: Operating unit display test
With this test, all LEDs of the operating unit or the operating unit group are activated. The test is carried out by color (red - yellow - green) and is completed automatically. With the LCD operating unit additionally all pixels of the display are activated.
In addition to the LEDs, the buzzer is activated for 5 seconds.

LEDs:
LED green LED permanent on: Walk test main zone active

3.3.16 Main zone walk test

IO key: Toggle function

Main zone:

Function: Walk test main zone on / off

The walk test mode is automatically ended by internal or external arming of the main zone.

LEDs:
LED green LED permanent on: Walk test main zone active

3.3.17 LED Test

IO key:

Function: Operating unit display test
With this test, all LEDs of the operating unit or the operating unit group are activated. The test is carried out by color (red - yellow - green) and is completed automatically. With the LCD operating unit additionally all pixels of the display are activated.
In addition to the LEDs, the buzzer is activated for 5 seconds.

3.3.18 Detector group (multi)

For a description of "multi keys", see above in this chapter.

IO key:

Detector group:

Function 1: Disable/enable DG internally -> Toggle function
With this function the detector group can be disabled for presence security (internal arming), e.g. room monitoring by motion detectors.
With external arming the disabling will be deactivated.

Function 2: Omit detector group
With this programming, a currently actuated detector group is taken out of the positive drive condition once. This detector group also does not activate an alarm while armed. The next time disarming is carried out, the omit function is automatically reset.

Function 3: Disable/enable DG externally -> Toggle function
This function enables the disabling of the detector group for any number of external armings.
The function can be used, for example, if the cause of the detector group actuation is not immediately identifiable, but the building or protection area is to be secured via system arming. In this case, a disabling can be carried out so that the positive drive condition requirement is fulfilled for external arming.

LEDs:

LED green	LED permanent on:	Detector group internally disabled
	LED flashing (1:1):	Detector group externally disabled
	LED flashing (7:1):	Detector group omitted
	LED permanent off:	Detector group enabled or main zone externally armed
LED red	LED permanent on:	Detector group actuated
	LED flashing (1:1):	Detector group actuated with first alarm indication
LED yellow	LED permanent on:	Fault

3.3.19 Internal disable detector group

IO key: Toggle function

Detector group:

Key function: Disable/enable DG internally
With this function the detector group can be disabled for presence security (internal arming), e.g. room monitoring by motion detectors.
With external arming the disabling will be deactivated. The disabling is in effect again after external arming.

LEDs:

LED green	LED permanent on:	Detector group internally disabled
	LED flashing (7:1):	Detector group omitted
	LED permanent off:	Detector group enabled or main zone externally armed
LED red	LED permanent on:	Detector group actuated
	LED flashing (1:1):	Detector group actuated with first alarm indication
LED yellow	LED permanent on:	Fault

3.3.20 Omit detector group

IO key: Toggle function

Detector group:

Key function: Omit detector group on / off
With this programming, a currently actuated detector group is taken out of the positive drive condition once. This detector group also does not activate an alarm while armed. The next time disarming is carried out, the omit function is automatically reset.

LEDs:

LED green	LED permanent on:	Detector group internally disabled
	LED flashing (7:1):	Detector group omitted
	LED flashing (1:1):	Detector group externally disabled
	LED permanent off:	Detector group enabled or main zone externally armed
LED red	LED permanent on:	Detector group actuated
	LED flashing (1:1):	Detector group actuated with first alarm indication
LED yellow	LED permanent on:	Fault

3.3.21 External disable detector group

IO key: Toggle function

Detector group:

Key function: Disable/enable detector group externally
This function enables the disabling of the detector group for any number of external armings.
The function can be used, for example, if the cause of the detector group actuation is not immediately identifiable, but the building or protection sector is to be secured via system arming. In this case, a disabling can be carried out so that the positive drive condition requirement is fulfilled for external arming.

LEDs:

LED green	LED permanent on:	Detector group internally disabled
	LED flashing (1:1):	Detector group externally disabled
	LED flashing (7:1):	Detector group omitted
	LED permanent off:	Detector group enabled or main zone externally armed
LED red	LED permanent on:	Detector group actuated
	LED flashing (1:1):	Detector group actuated with first alarm indication
LED yellow	LED permanent on:	Fault

3.3.22 SOS

IO key:

Key function: This is a combination key. In conjunction with a second key (**on the same operating unit**) which is programmed to "Detector group actuation), an emergency call can be initiated.
If both keys are pressed and held for longer than 2 seconds, the detector group is briefly actuated. In case of an alarm, the red detector group LED lights up or flashes upon first alarm indication until clearing is carried out.

3.3.23 Actuate detector group

IO key:

Detector group:

Key function: This is a combination key. This means that the "Detector group actuation" function only has effect in conjunction with the "SOS" key (**on the same operating unit**). If both keys are pressed and held at the same time for longer than 2 seconds, the detector group is briefly actuated. Actuation of the detector group is saved and indicated accordingly via the red LED until clearing.

LEDs:

LED green	LED permanent on:	Detector group internally disabled
	LED flashing (7:1):	Detector group omitted
	LED flashing (1:1):	Detector group externally disabled
	LED permanent off:	Detector group enabled or main zone externally armed
LED red	LED permanent on:	Detector group actuated
	LED flashing (1:1):	Detector group actuated with first alarm indication
LED yellow	LED permanent on:	Fault

3.3.24 Start macro

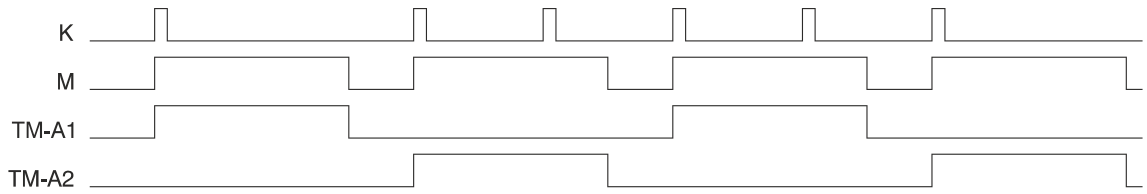
IO key:

Macro:

Key function: Macro is always only started, and not stopped.
Use only for "Normal macro" and Toggle macro".

Normal macro: Action list 1 is restarted with every key press. The macro only restarts if action list is fully completed.

Toggle macro: Action lists 1 and 2 are worked off in an alternating mode each time a key is pressed. Action list X only restarts if action list Y has been fully completed.



K = **K**ey M = **M**acro TM-Ax = **T**oggle-**M**acro **A**ction list x

LEDs:

LED green:

Normal macro: LED lights up while action list 1 is being worked off; after completion, it switches off.

Toggle macro: LED is switched on when action list 1 is started and remains switched on until action list 2 starts.

3.3.25 Start/stop macro

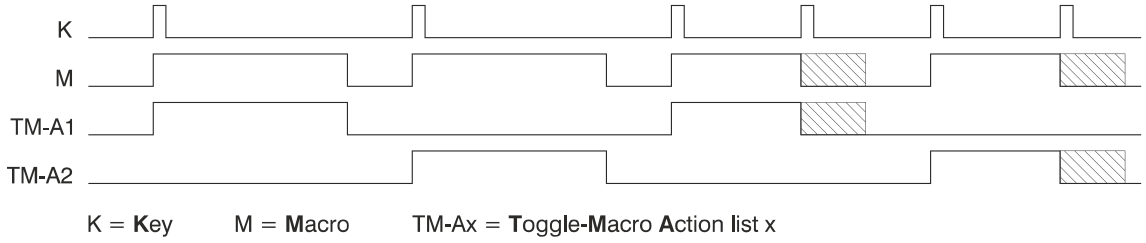
IO key:

Macro:

Key function: Use only for "Normal macro" and Toggle macro".

Normal macro: The first key press starts the macro, and the second key press stops the macro. If the macro has already been executed, the second key press restarts the macro.

Toggle macro: The first key press starts action list 1, and the second key press stops it. The third key press starts action list 2, and the fourth key press stops action list 2.
If action list 1 has been fully run through, the second key press starts action list 2.



LEDs:

Normal macro: LED green flashes while macro (action list 1) is running.

Toggle macro: LED green flashes while macro (action list 1) is running.
LED red flashes while macro (action list 2) is running.

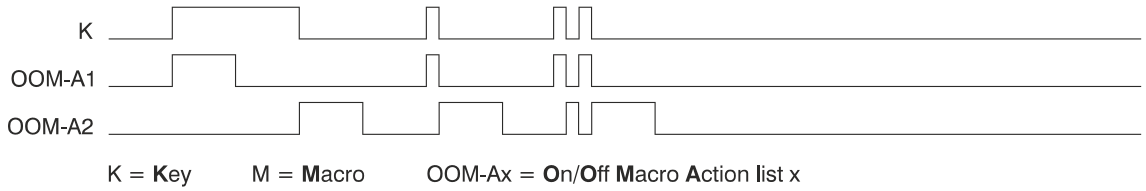
3.3.26 On/off macro

IO key:

Macro:

Key function: Use only for an "on/off macro".

Pressing the key processes action list 1. If the processing of action list 1 is not complete when the key is released, the processing of action list 1 is stopped. The processing of action list 2 starts at the same time.



LEDs:

LED green LED lights up as long as the key is pressed.

3.3.27 Door release (multi)

For a description of "multi keys", see above in this chapter.

IO key:

Door:

Key function: These functions affect the BUS-2 users IDENT-KEY IK3 evaluating unit, AC door module and Doorguard-Plus. The "permanent block" function is not available for Doorguard-Plus.

Function 1:	Door release / temporary release		
Function 2:	Permanent release / normal	->	toggle function
Function 3*:	Permanent blocks / normal	->	toggle function

LEDs:

LED green	LED permanent on:	Permanent release
	LED flashing:	Temporary release
LED red	LED permanent on:	Alarm (door opening time exceeded / door break open)
LED yellow*	LED permanent on:	Permanent block

* = not for Doorguard-Plus

3.3.28 Door release

IO key:

Door:

Key function: The function affects the BUS-2 users IDENT-KEY IK3 evaluating unit, Door controller module for MB and Doorguard-Plus. When the key is pressed, the door release time is started on the assigned BUS user.

LEDs:

LED green	LED permanent on:	Permanent release
	LED flashing:	Temporary release
LED red	LED permanent on:	Alarm (door opening time exceeded / door break open)
LED yellow*	LED permanent on:	Permanent block

* = not for Doorguard-Plus

3.3.29 Permanent release / Standard mode

IO key:

Door:

Key function: The function affects the BUS-2 users IDENT-KEY IK3 evaluating unit, Door controller module and Doorguard-Plus. When the key is pressed, the door of the BUS user is set to permanent release.

LEDs:

LED green	LED permanent on:	Permanent release
	LED flashing:	Temporary release
LED red	LED permanent on:	Alarm (door opening time exceeded / door break open)
LED yellow*	LED permanent on:	Permanent block

* = not for Doorguard-Plus

3.3.30 Permanent block / Standard mode

IO key:

Door:

Key function: The function affects the BUS-2 users IDENT-KEY IK3 evaluation unit and Door controller module. When the key is pressed, the door of the assigned BUS user is set to permanent block.

LEDs:

LED green	LED permanent on:	Permanent release
	LED flashing:	Temporary release
LED red	LED permanent on:	Alarm (door opening time exceeded / door break open)
LED yellow	LED permanent on:	Permanent block

3.3.31 Door standard mode

IO key:

Door:

Key function: The function affects the BUS-2 user Doorguard-Plus. When the key is pressed, the door of the BUS user is set to standard mode.

LEDs:

LED green	LED permanent on:	Permanent release
	LED flashing:	Temporary release
LED red	LED permanent on:	Alarm (door opening time exceeded / door break open)
LED yellow	No function	

4. Technical data

4.1 Operating units

	LED Operating unit	LED/LCD Operating unit
Rated operating voltage U_b	12 V DC	
Operating voltage range	9 V bis 15 V DC	
No-load current at 12 V DC	≤ 20 mA	
Additional current consumption: - Time limited read/write mode - LEDs for status indication - Key backlighting - LCD backlighting	 ≤ 15 mA 0 bis 37 mA max. (max. 40 LEDs) 0 bis 16 mA max. ---	 ≤ 15 mA 0 bis 28 mA max. (max. 30 LEDs) 0 bis 16 mA max. 0 bis 19 mA max.
Current consumption max.	88 mA	98 mA
Protection class according to EN 60529	IP 40	
Environmental class acc. to VdS	II	
Environmental class acc. to EN 50131-3	Class II	
Operating temperature range	-10 °C bis +45 °C	
Storage temperature range	-25 °C bis +70 °C	
Relative humidity	93% non-condensing	
LED operating unit weight: - 013000 - 013011/013/015	 426 g 322 g	
LED/LCD operating unit weight: - 013001 - 013021/023/025		 451 g 347 g
Dimensions (W x H x D in mm)	218 x 162 x 20 (front unit) 218 x 162 x 21,5 (front unit with back, flat)	
Color	white (similar to RAL 9016, grey and black optional	

4.2 Approvals

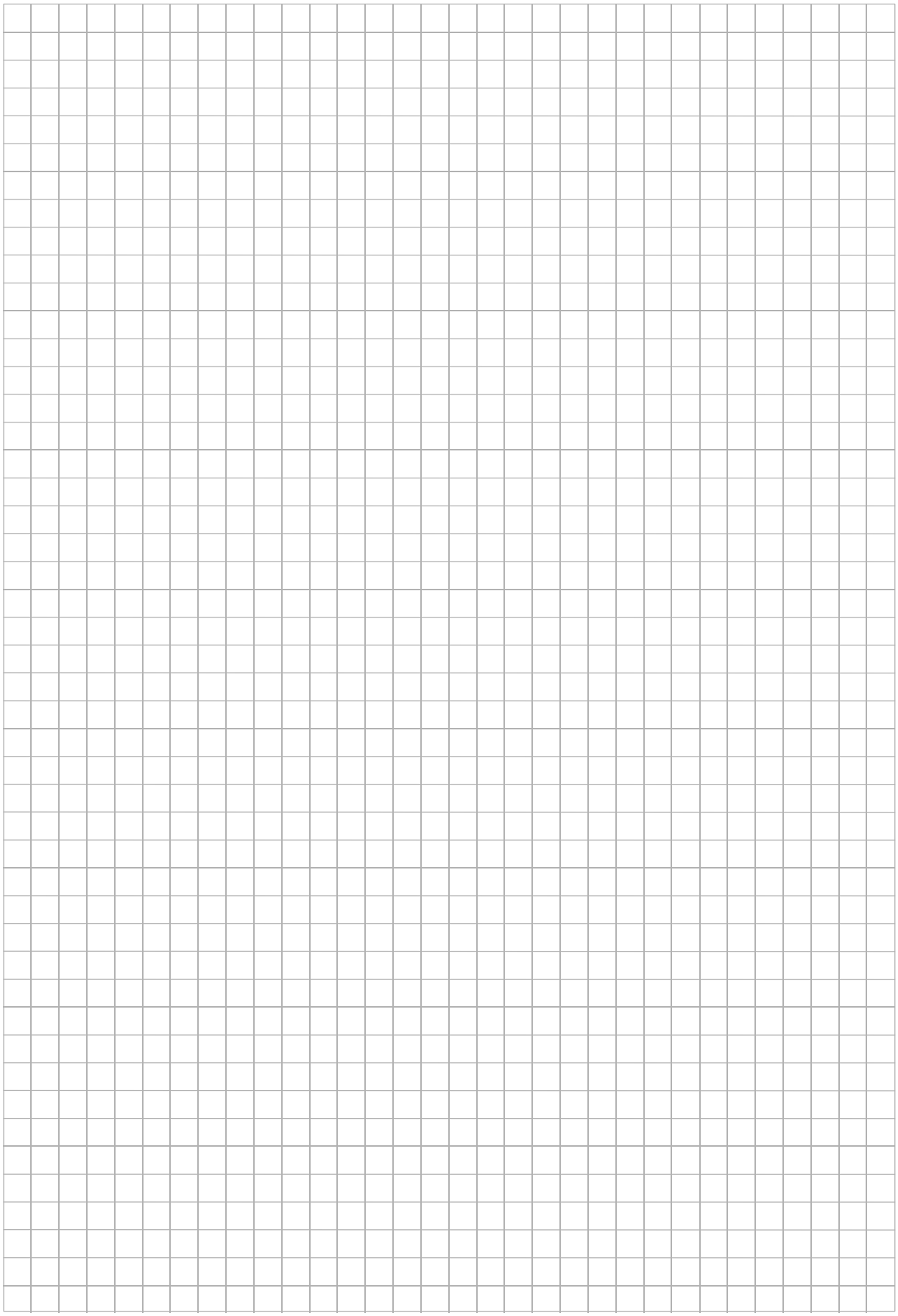
VdS approval no.	G114020
EN compliance EN50131-3:	2010-02, grade 3, type B, for internal use only
SES approval:	SES-EMA-RL-T2:2010-08

4.3 Operating code variation options

Input code	Variations	Level of security
4-digit code	10,000 possibilities	Level 2
5-digit code	100,000 possibilities	Level 3
6-digit code	1,000,000 possibilities	Level 4
7-digit code	10,000,000 possibilities	Level 4
8-digit code	100,000,000 possibilities	Level 4

The above variation possibility of codes is halved when using the hold-up PIN.
The same code cannot be assigned to different users.

Notes



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P00462-03-0G0-03
2018-08-14

P00462-03-0G003