

**SIEMENS**

## Synco living

**Train the Trainer**

Functions & Operation  
Safety & Security

Spring 2008

# Functions & Operation Safety & Security

## Overview

### Settings

- Absence & supervision
- Window / door supervision
- Signaling (buzzer / status output)
- Fault inputs
- Fault outputs

### Displays

### Exercises

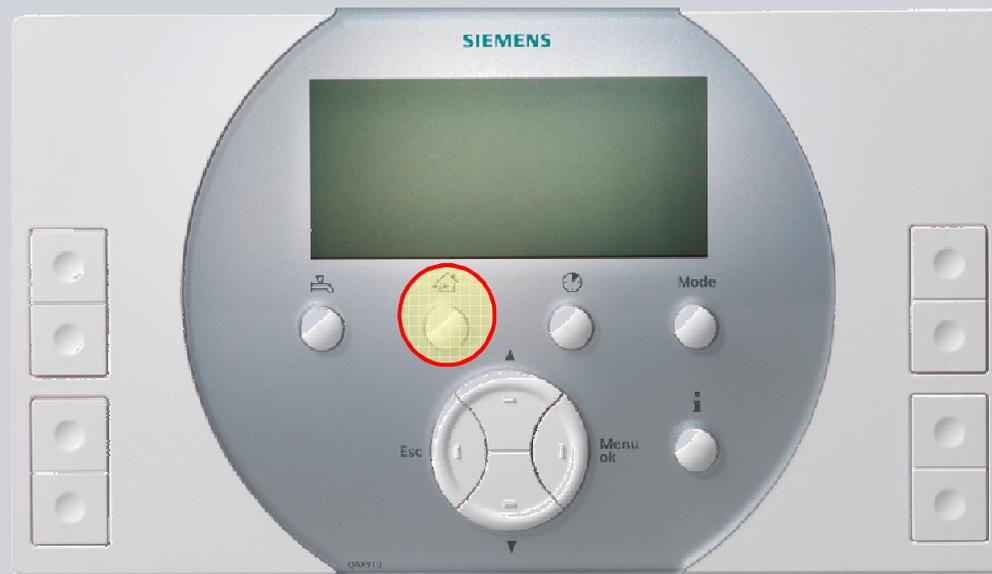


## Functions & Operation Safety & Security

### Absence & Supervision

#### Operating button

Absence and the monitoring pattern can be set with the central apartment unit's Absence / monitoring button.



## Functions & Operation Safety & Security

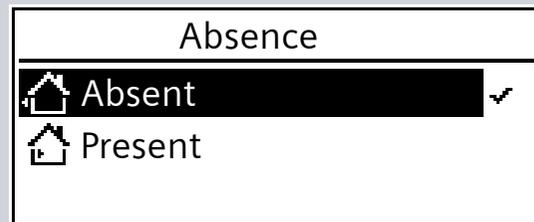
### Absence & Supervision

#### Presence & absence

When coming or going, the user must press the **Absence / monitoring** button to make the settings for absence and supervision via the following dialogs.

A short press on the button (< 0.4 s) lets the dialog for absence settings appear on the display:

- Absent
- Present



## Functions & Operation Safety & Security

### Absence & Supervision

#### Absence

Absence has the following impact on the plant:

- Space heating and DHW heating are controlled in accordance with the selected operating mode:

*Main menu > Heating > Room x > Room operating mode > Optg mode absence > ...*

*Main menu > Ventilation > Operating mode > Operating mode absence > ...*

*Main menu > DHW > Operating mode > Optg mode absence > ...*

- Simulation of presence is started:

*Main menu > Switching groups > Switching group x > Presence simulation > ...*

- Switching groups are triggered (event):

*Main menu > Switching groups > Switching group x > . . . > Events ...*

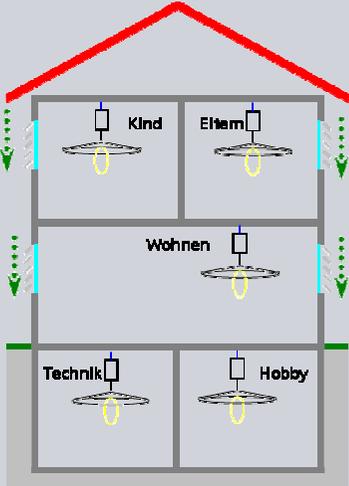
- *Switch*
- *Dimm*
- *Blind*
- *Scene*



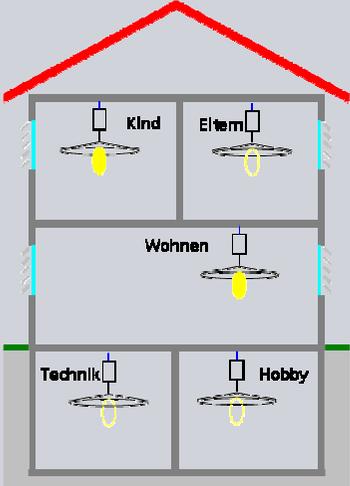
# Functions & Operation Safety & Security

## Absence & Supervision

### Presence & absence



Switching groups



Presence simulation



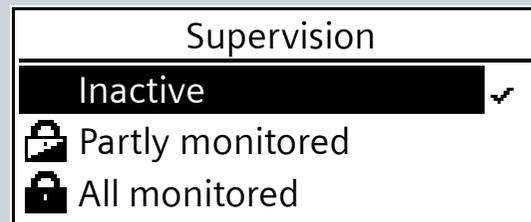
## Functions & Operation Safety & Security

### Absence & Supervision

#### Supervision

An extended press on **the Absence / monitoring** button (> 0.4 s) lets the dialog for the supervision settings appear on the display:

- Inactive
- Partly monitored
- All monitored



After the setting of absence has been confirmed (present / absent), or after 8 s, the dialog for the supervision settings opens.

#### Note:

If supervision is not enabled, the dialog for setting absence also appears after an extended press on the button (> 0.4 s).

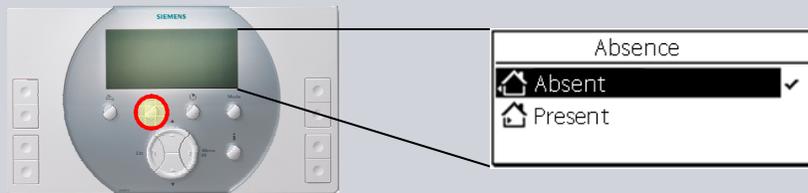


# Functions & Operation Safety & Security

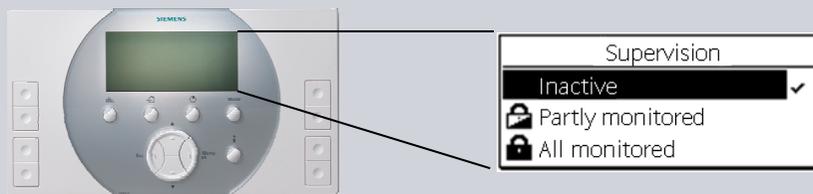
## Absence & Supervision

### Procedure

a) Press button briefly



b) Confirm absence (ok) or wait 8 s



c) Confirm supervision (ok) or wait 8 s



## Functions & Operation Safety & Security

### Window / Door Supervision

#### Supervision delay time

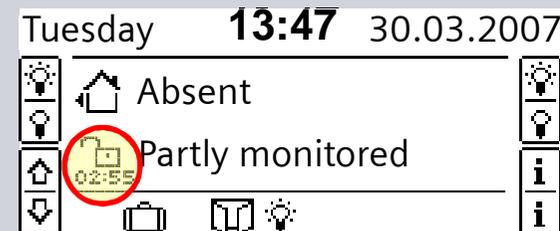
*Main menu > Supervision > Supervision delay > {00.00...59.55}*

The supervision delay time indicates after what period of time the "Window / door supervision" function becomes active after "Supervision" was selected.

During the delay time (countdown), monitored windows and doors can still be opened or closed without delivering a fault status message.

The supervision delay time appears on the central apartment unit's display:

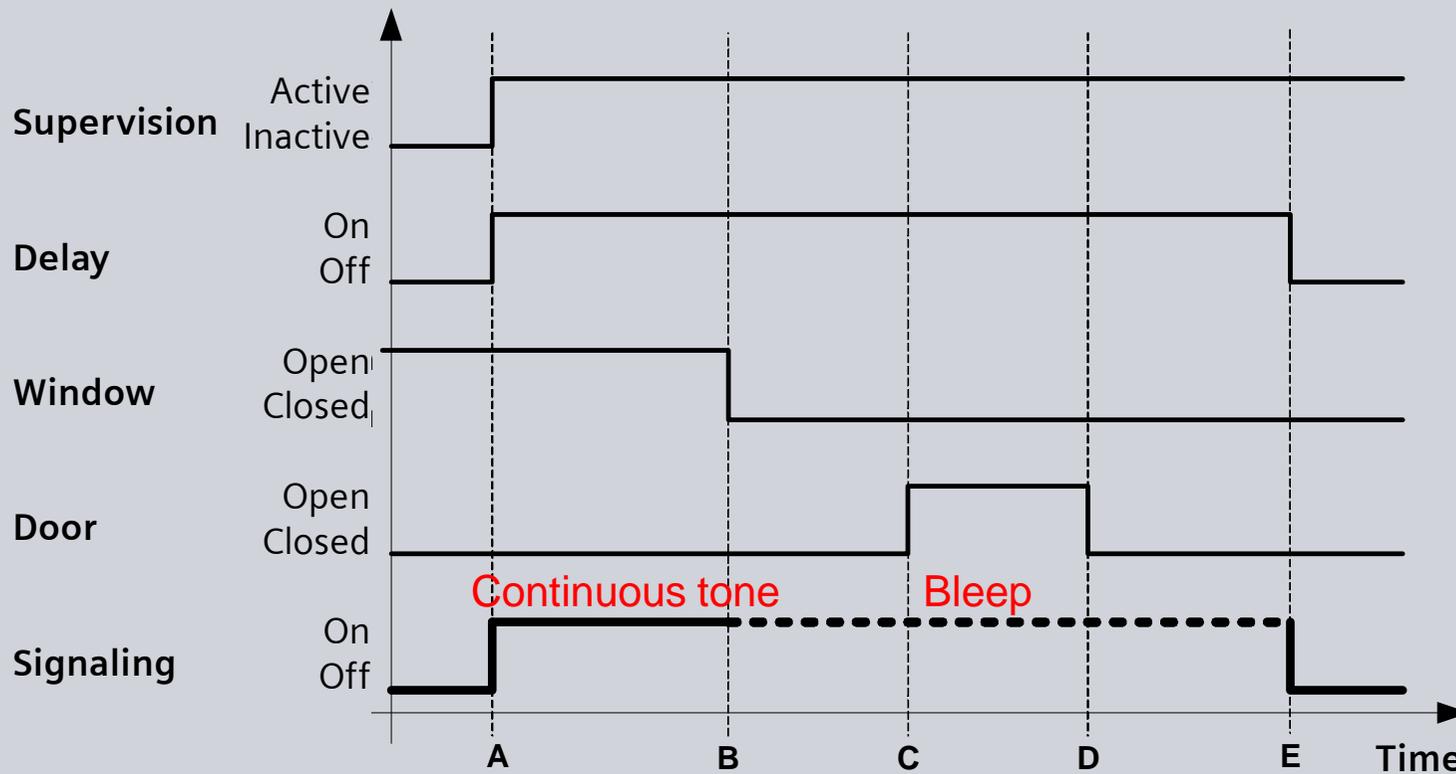
- Symbol 
- Countdown (resolution 5 s)



# Functions & Operation Safety & Security

## Window / Door Supervision

### Supervision delay time



## Functions & Operation Safety & Security

### Window / Door Supervision

#### Volume of supervision delay signal

The volume of the supervision delay signal can be adjusted:

*Main menu > Supervision > Volume supervision delay > ...*

Supervision delay uses 3 types of signals:

- **Continuous tone**  
A monitored window is open during the supervision delay time
- **Bleep** (frequency 1 Hz)  
All monitored windows and doors are closed
- **Bleep** (frequency 2 Hz)  
During the last 15 s of the supervision delay time

#### Note:

The volume is independent of the buzzer volume and the volume of the delay time signal.



## Functions & Operation Safety & Security

### Window / Door Supervision

#### Supervisory functions

*Main menu > Supervision > Windows > ...*

2 parameters are used to select the rooms for which the window supervision function is enabled:

- Partly monitored
- All monitored

All rooms are always listed (**12**).

Release „Partly monitored“	
Living room	<input checked="" type="checkbox"/>
Kitchen	<input checked="" type="checkbox"/>
Nursery	<input type="checkbox"/>

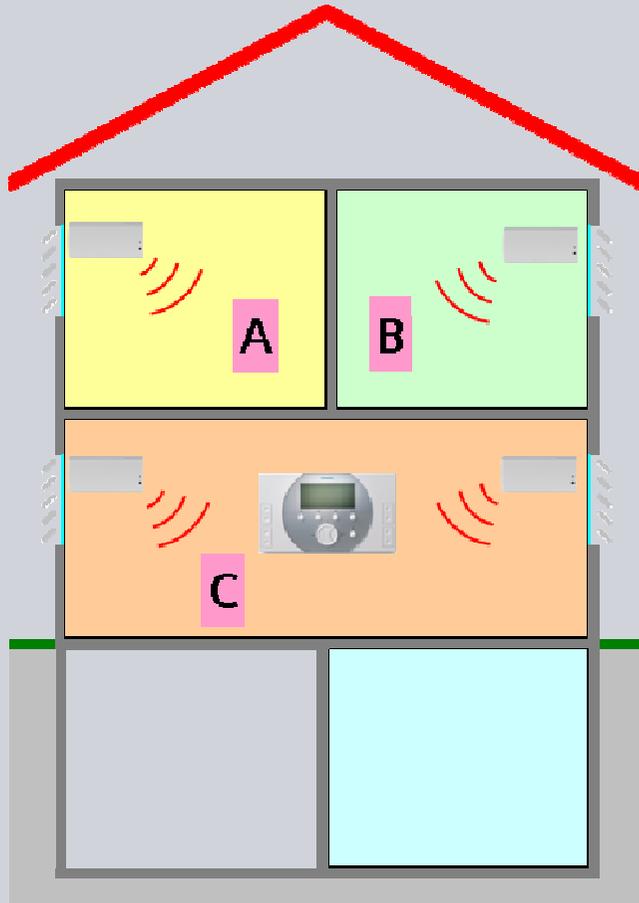
Release „All monitored“	
Living room	<input checked="" type="checkbox"/>
Kitchen	<input checked="" type="checkbox"/>
Nursery	<input checked="" type="checkbox"/>



## Functions & Operation Safety & Security

### Window / Door Supervision

#### Supervisory functions



Partly monitored: 

- Room C

All monitored: 

- Rooms A, B, C



## Functions & Operation Safety & Security

### Window / Door Supervision

#### Supervisory functions

*Main menu > Supervision > Doors > ...*

2 parameters are used to select the doors for which the door supervisory function is enabled:

- Partly monitored
- All monitored

All doors are always listed (2).

Release „Partly monitored“	
Entrance door	<input type="checkbox"/>
Garage	<input checked="" type="checkbox"/>

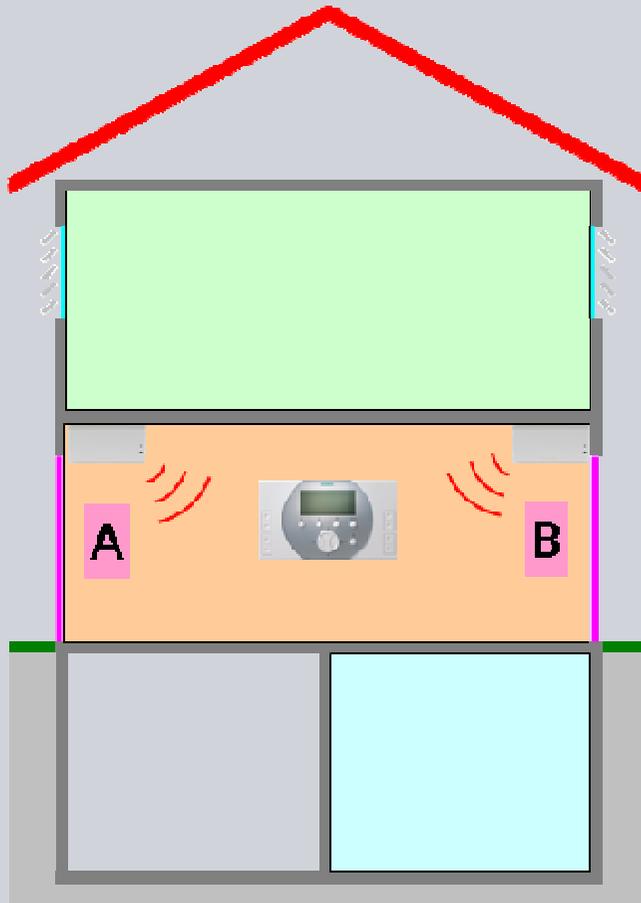
Release „All monitored“	
Entrance door	<input checked="" type="checkbox"/>
Garage	<input checked="" type="checkbox"/>



# Functions & Operation Safety & Security

## Window / Door Supervision

### Supervisory functions



Partly monitored: 

- Door A

All monitored: 

- Doors A & B



## Functions & Operation Safety & Security

### Window / Door Supervision

#### Message delay time

*Main menu > Supervision > Doors > Message delay > {00.00...59.55}*

The message delay time indicates the period of time on completion of which – after the monitored door was opened – a fault status message is delivered.

The fault status message can be suppressed only when supervision is set to “Inactive” before the message delay time has elapsed, or when a new value is set.

#### **Note:**

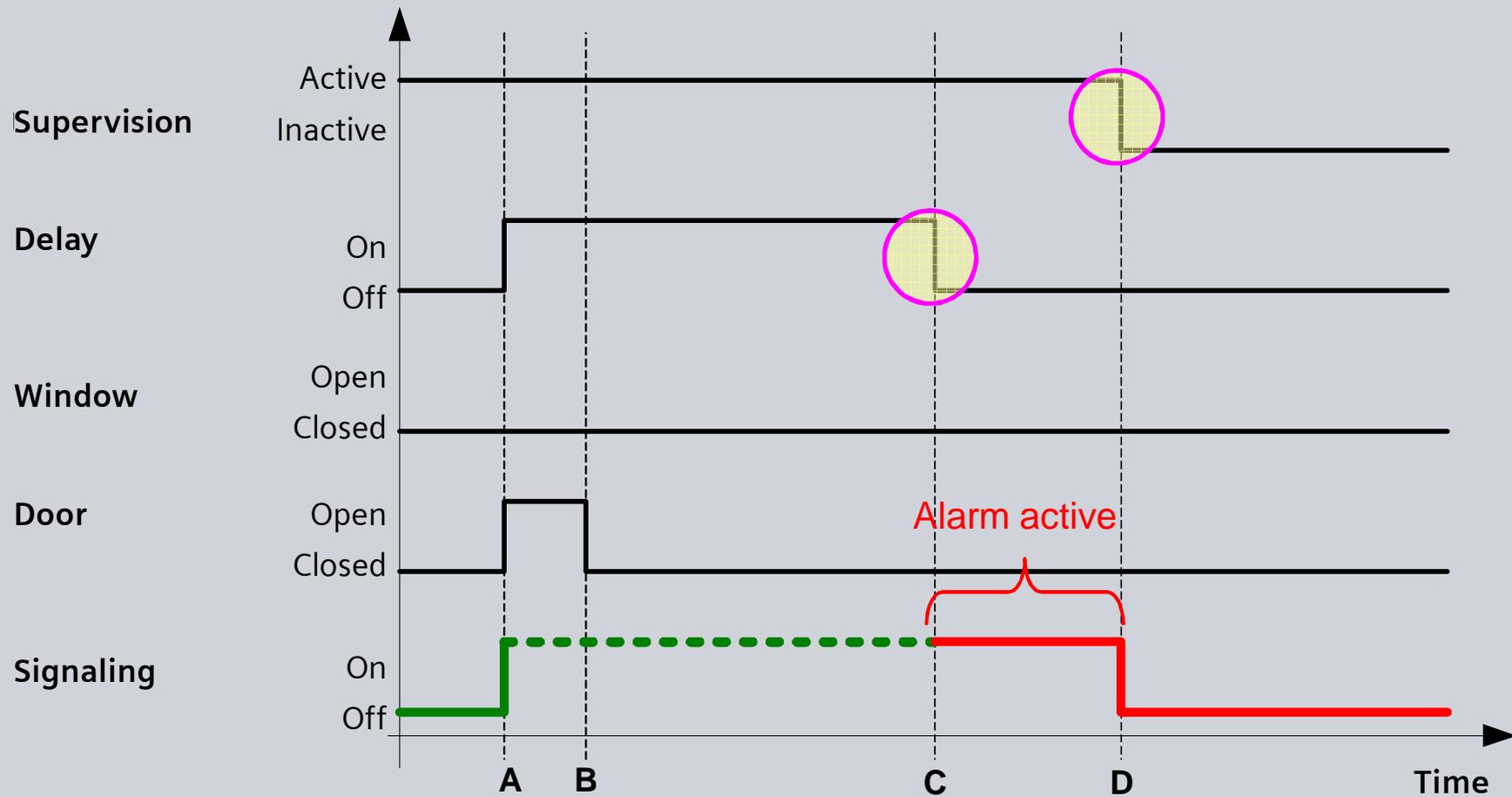
Even if the door is immediately closed again, the central apartment unit delivers a fault status message when the message delay time has elapsed.



# Functions & Operation Safety & Security

## Window / Door Supervision

### Message delay time



## Functions & Operation Safety & Security

### Window / Door Supervision

#### Volume of message delay signal

The volume of the signal tone for the message delay time can be adjusted:

*Main menu > Supervision > Doors > Volume message delay > ...*

Supervision delay uses 2 types of signals:

- **Bleep** (frequency 1 Hz)  
A monitored door was opened
- **Bleep** (frequency 2 Hz)  
During the last 15 s of the message delay time

#### Note:

The volume is independent of the buzzer volume and the volume of the delay time signal.



## Functions & Operation Safety & Security Signalling

### Buzzer

Based on which events shall the buzzer be triggered:

*Main menu > Supervision > Signaling > Event buzzer > ...*

- *Smoke*
- *Window/door supervision*
- *Fault input 1...8*



## Functions & Operation Safety & Security Signaling

### Buzzer volume

The buzzer volume can be adjusted:

*Main menu > Settings > Device > Buzzer volume > ...*



## Functions & Operation Safety & Security Signaling

### Status output

Based on which events shall the status output be activated:

*Main menu > Supervision > Signaling > Event status output > ...*

- *Smoke*
- *Window/door supervision*
- *Fault input 1...8*



## Functions & Operation Safety & Security

### Signaling

#### Signal duration

For what period of time shall the buzzer and the status output remain activated:

*Main menu > Supervision > Signaling > Signal duration > {1...60 min.}*



#### Note:

On completion of the signal duration, the buzzer / status output will again be deactivated, even if the triggering event is still pending.

As soon as one of the buttons on the central apartment unit is pressed, the buzzer / status output will immediately be deactivated, independent of the adjusted signal duration.



## Functions & Operation Safety & Security

### Fault Inputs

#### Fault text

*Main menu > Settings > Faults > Fault input x > . . .*

Enter the fault text on the central apartment unit:  
"Oil tank empty".



Press **Esc** to quit the menu and then **ok** to confirm the entry.



## Functions & Operation Safety & Security

### Fault Inputs

#### Fault priority

*Main menu > Settings > Faults > Fault input x > Fault priority > . . .*

- *Urgent*
- *Not urgent*

It can be selected whether or not the fault status message shall **immediately** appear on the central apartment unit's display.



## Functions & Operation Safety & Security

### Fault Inputs

#### Fault release

*Main menu > Settings > Faults > Fault input x > Fault release > . . .*

- *Always*
- *If absent*

It can be selected whether the fault status message shall ***Always*** be delivered or only when the central apartment unit is set to ***If absent***.



## Functions & Operation Safety & Security

### Fault Inputs

#### Fault status message delay

*Main menu > Settings > Faults > Fault input x > Fault stat mess dly > {Time}*

What is the delay time allowed for a pending fault to trigger a fault status message?

**30 min**  
Level of aquarium



#### Note:

If the fault status message disappears within the delay time, no fault status message will be delivered.



## Functions & Operation Safety & Security

### Fault Inputs

#### Normal position

*Main menu > Settings > Faults > Fault input x > Normal position > . . .*

- *Open*
- *Closed*

It can be selected whether an **open or a closed contact** shall be identified as a fault.

**Normal position:  
Closed**



**Everything ok**



## Functions & Operation Safety & Security

### Fault Outputs

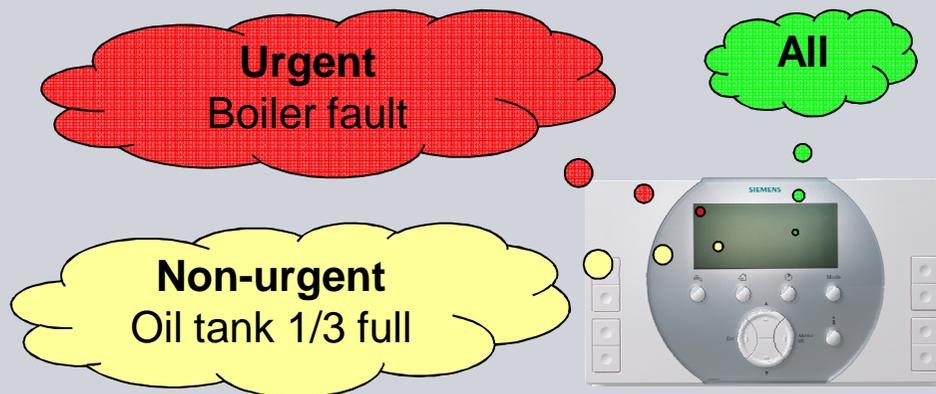
#### Fault priority

*Main menu > Settings > Faults > Fault output x > Fault priority > . . .*

- Urgent
- Not urgent
- All

Priority, when the fault output shall be activated.  
Refer to the settings under:

*Main menu > Settings > Faults > Fault input x > Fault priority > . . .*



## Functions & Operation Safety & Security

### Fault Outputs

#### Origin of fault

*Main menu > Settings > Faults > Fault output x > Fault source > . . .*

- *Internal*
- *Bus*

Defines whether the fault input shall be activated only with internal or also with external faults (via KNX TP1).



#### Note:

Faults of devices connected to the central apartment unit via KNX RF are also considered to be internal faults.



## Functions & Operation Safety & Security

### Display

Symbols appearing on the display of the central apartment unit:

-  Present
-  Absent
-  Fault
-  Fault (acknowledgement required)
-  Door open
-  **Monitored** door open
-  Window open
-  **Monitored** windows open
-  Windows / doors "Partly monitored"
-  Windows / doors "All monitored"



# Functions & Operation Safety & Security

## Display

### Configured inputs and outputs

Main menu > Inputs/outputs > ...

- Inputs
- Outputs

Inputs	Display
Absence	0 = present
	1 = absent
Fault input	0 = no fault
	1 = fault

Outputs	Display
Fault output 1 - 2	0 = no fault
	1 = fault
Status output	0 = contact open
	1 = contact closed
Door / window state	0 = all windows & doors closed
	1 = min. <b>one</b> window or <b>one</b> door is open



## Functions & Operation Safety & Security

### Exercises

1. Activate window supervision for room 1. After a change to "Absent" and after a delay time of 1 minute, the buzzer and the status output shall be activated for 2 minutes if the window is left open.
2. Activate a door supervision. After opening the door (come home) the buzzer shall be activated after 1 minute, without deactivation of the supervision.
3. After closure of fault input 1, an urgent fault status message "Low oil level" shall appear on the central apartment unit after 10 s and, in addition, the status output shall be activated.
4. Check an open window/door at the info-page.

