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Technical Manual

ABB-free@homeTouch 7"

DP7-S-6xx

Power and productivity
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1 Information about the manual

Please read this manual through carefully and adhere to the information contained therein. This will assist you in preventing injury to persons and damage to property and ensure reliable operation and long service life of the device.

Please keep this manual in a safe place.

If you pass the device on, also include this manual.

Busch-Jaeger accepts no liability for failure to observe the instructions in this manual.

If you require additional information or have questions about the device, please contact Busch-Jaeger or visit our Internet site at:

www.BUSCH-JAEGER.com

www.abb.com/freeathome

Note...
Detailed information for planning ABB-Welcome systems and ABB-free@home systems is contained in the system manuals. Download at www.Busch-Jaeger.com or www.abb.com/freeathome

2 Safety

The device has been constructed according to the latest valid regulations governing technology and is operationally reliable. It has been tested and left the factory in a technically safe and reliable state.

However, residual hazards remain. Read and adhere to the safety instructions to prevent such hazards.

Busch-Jaeger accepts no liability for damages resulting from failure to observe the safety instructions.

2.1 Used symbols

The following symbols point to dangers involved in the use of the device and provide practical instructions.

Warning

This symbol in connection with the signal word "Warning" indicates a dangerous situation which could lead to immediate death or to serious injury.

Attention - damage to property

This symbol indicates a possibly damaging situation for the product. Non-observance can lead to damage or destruction of the product.

Note...
This symbol indicates information or references to additional useful topics. This is not a signal word for a dangerous situation.

This symbol indicates information on the protection of the environment.

The following symbols are used in the manual to draw attention to special dangers:

This symbol indicates a dangerous situation due to electric current. If such a sign is ignored, it can lead to serious injuries or even death.

2.2 Intended use

The ABB-free@homeTouch 7" (DP7-S-6xx) is an integral part of the ABB Welcome door communication system and operates exclusively with components from this system, can be used as control panel in ABB-free@home system (should be configured via SysAP beforehand).

The device is intended for the following:

» operation according to the listed technical data,
» installation in dry interior rooms,
» use with the connecting options available on the device.

The intended use also includes adherence to all specifications in this manual.

2.3 Improper use

Each use not listed in chapter 2.2 is deemed contrary to intended use and can lead to the injury of persons and damage to property.

Busch-Jaeger is not liable for damages caused by use deemed contrary to the intended use of the device. The associated risk is borne exclusively by the user/operator.

The device is not intended for the following:

» unauthorized structural changes,
» repairs,
» use outdoors or in bathroom areas,
» use with an additional bus coupler.

2.4 Target group / qualification of personnel

Installation, commissioning and maintenance of the device must only be carried out by trained and properly qualified electrical installers.

The electrical installers must have read and understood the manual and follow the instructions provided.

The electrical installers must adhere to the valid national regulations in their country governing the installation, functional test, repair and maintenance of electrical products.

The electrical installers must be familiar with and correctly apply the "Five safety regulations" (DIN VDE 0105, EN 50110):

1. Disconnect from power
2. Secure against being re-connected;
3. Ensure there is no voltage;
4. Connect to earth and short-circuit;
5. Cover or barricade adjacent live parts.

2.5 Safety instructions

Warning

Electric voltage! Risk of death and fire due to electrical voltage of 230 V.

Dangerous currents flow through the body when coming into direct or indirect contact with live components. This can result in electric shock, burns or even death.

- » Work on the 230 V supply system may only be performed by authorised and qualified electricians.
- » Disconnect the mains power supply before installation / disassembly.
- » Never use the device with damaged connecting cables.
- » Do not open covers firmly bolted to the housing of the device.
- » Use the device only in a technically faultless state.
- » Do not make changes to or perform repairs on the device, on its components or its accessories.
- » Keep the device away from water and wet surroundings.

Attention - damage to property

Risk of damaging the device due to external factors.

Moisture and contamination can damage or destroy the device.

- » Protect the device against humidity, dirt and damage during transport, storage and operation.

3 Information on protection of the environment

All packaging materials and devices bear the markings and test seals for proper disposal.

The products meet the legal requirements, in particular the laws governing electronic and electrical devices and the REACH ordinance (EU Directive 2002/96/EG WEEE and 2002/95/EG RoHS), (EU-REACH Directive and Law for the Execution of the Directive (EG) No.1907/2006).

The device contains valuable raw materials which can be recycled. Used electric and electronic devices must not be disposed of with domestic waste.

» Always dispose of the packaging material and electric devices and their components via the authorized collecting depots and disposal companies.

4 Product description

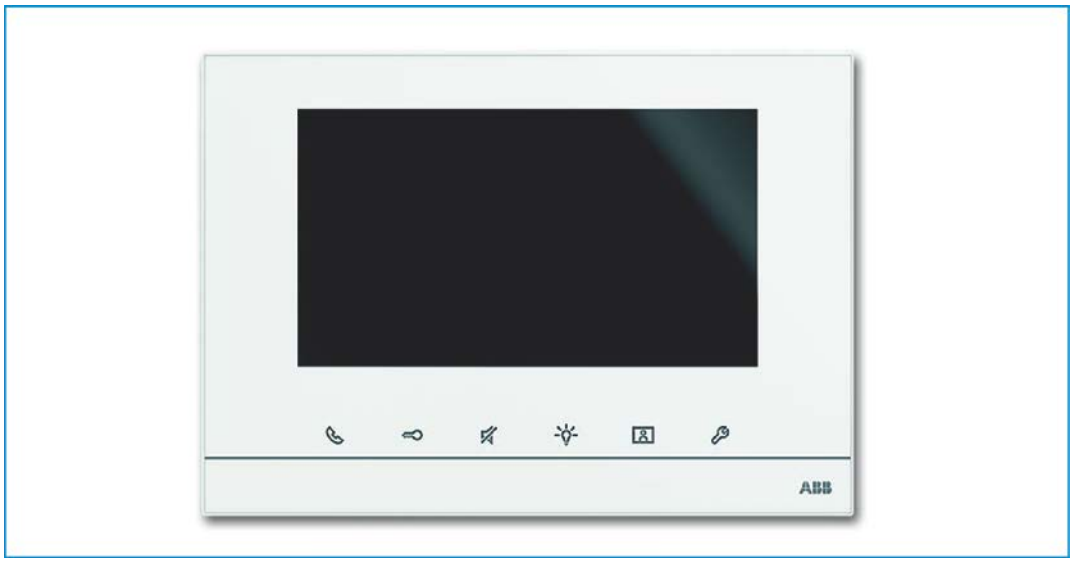


Fig. 1: Product overview

The ABB-free@home® Touch 7" serves as indoor video station for the ABB-Welcome door communication system and for the central control of free@home functions, such as moving blinds, switching scenes, or controlling room temperature controllers (as extension unit).

The product is part of the ABB Welcome door communication system and operates exclusively with the components of this system.

The panel is connected to both bus systems, the free@home bus and the Welcome bus. The audio/video signals are transmitted and the device is supplied with power exclusively via the Welcome bus. The panel can therefore also be used as a pure video indoor station without a connection to the free@home system.

It is not possible to operate the panel without being connected to the Welcome bus. This means that at least one ABB-Welcome system controller or one additional power supply is to be provided to ensure that the panel is supplied with power.

Up to 16 free@home functions can be positioned on the free@home operating page. The room temperature controller function occupies two function positions.

Programming is carried out via the user interface of the System Access Point.

In addition, the panel acts as gateway which mutually compiles the telegrams of the two bus systems. This, for example, makes it possible to switch an actuator in the free@home system during an incoming door call of the ABB-Welcome system, or to use a sensor in the free@home system to send an "Open door" command to the ABB-Welcome system.

4.1 Scope of supply

The scope of supply only contains the panel.

The bus can be connected via enclosed terminal block.

4.2 Type overview

Article no.	Product name	Colour	Display diagonal
DP7-S-611	**ABB-free@home®** *Touch 7"*	white	17.8 cm (7“)
DP7-S-625	**ABB-free@home®** *Touch 7"*	black	17.8 cm (7“)

Table 1: Overview of types

4.3 Function overview free@home

The following table provides an overview of the possible functions and applications of the device:

Icon of the operating surface	Information
	Name: Floor ringing **Type:** Sensor **Made available by:** free@homeTouch 7“ **Function:** Signals an incoming floor call (Application: a free@home actuator is to switch during an incoming floor call)
	Name: Floor call button **Type:** Actuator **Made available by:** free@homeTouch 7“ **Function:** Triggers a floor call (Application: a free@home sensor is to be used as floor call button)
	Name: Corridor light **Type:** Actuator **Made available by:** free@homeTouch 7“ **Function:** Switches the corridor switching contact of the Welcome system controller
	Name: Automatic door opener **Type:** Actuator **Made available by:** free@homeTouch 7“ **Function:** Activates/ deactivates the automatic door opener (Application: a free@home sensor is to activate/deactivate the automatic door opener)
	Name: Door opener **Type:** Actuator **Made available by:** free@homeTouch 7“ **Function:** Actuates the door opener of the ABB Welcome system (Application: a free@home sensor is to actuate the door opener)
	Name: Door call **Type:** Sensor **Made available by:** free@homeTouch 7“ **Function:** Signals an incoming door call (Application: a free@home actuator is to switch during an incoming door call)

Table 2: Function overview

Each of these functions appears as separate entry in the "Allocation" area. The functions can be positioned on the floor plan and then, like any other sensor or actuator, connected in the "Linking" area with other sensors and actuators.

The "Door call" function offers 4 linking functions for each of the 4 possible Welcome outdoor stations.This allows specific actions to be configured separately for each entrance of the house. These are triggered as soon as the visitor rings the bell at one of the outdoor stations.

The "Door opener" function offers 5 connecting functions: Either one of the 4 possible door openers of the Welcome system can be specifically activated (to a open a specific door with the one sensor), or a door opener can be defined which dynamically opens the door from which a door call is currently being made (all doors can be opened with only one sensor, wherever the bell is being rung from).

5 Technical data

5.1 Main overview

Parameters	Value
Display resolution	800 x 480
Display size	17.8 cm (7")
Operating temperature	-5° C to +40° C
Storage temperature	-20° C – +70° C
Protection	IP 20
Single-wire clamps	2 x 0.6 mm² – 2 x 1 mm²
Fine-wire clamps	2 x 0.6 mm² – 2 x 0.75 mm²
Welcome bus voltage	28 V- ±2 V
free@home bus voltage	21-30V
free@home bus clamps	0.6-0.8mm Single-wire
Volume	Maximum 85 dBA (Distance:0.5 m)

Table 3: Technical data

5.2 Dimensions

Note...
All dimensions are specified in mm.

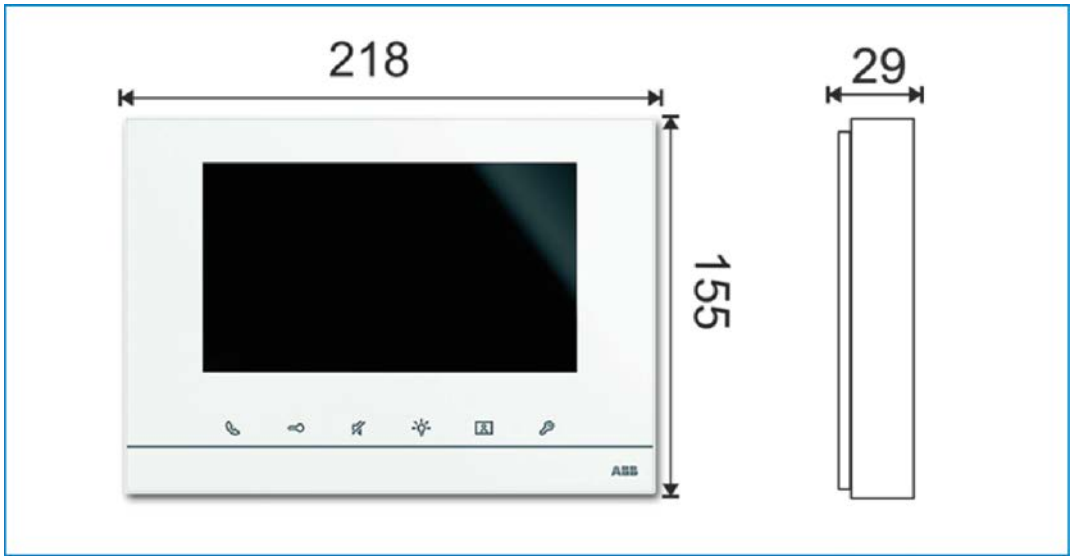


Fig. 2: Dimensions of all described device types

5.3 Circuit diagrams

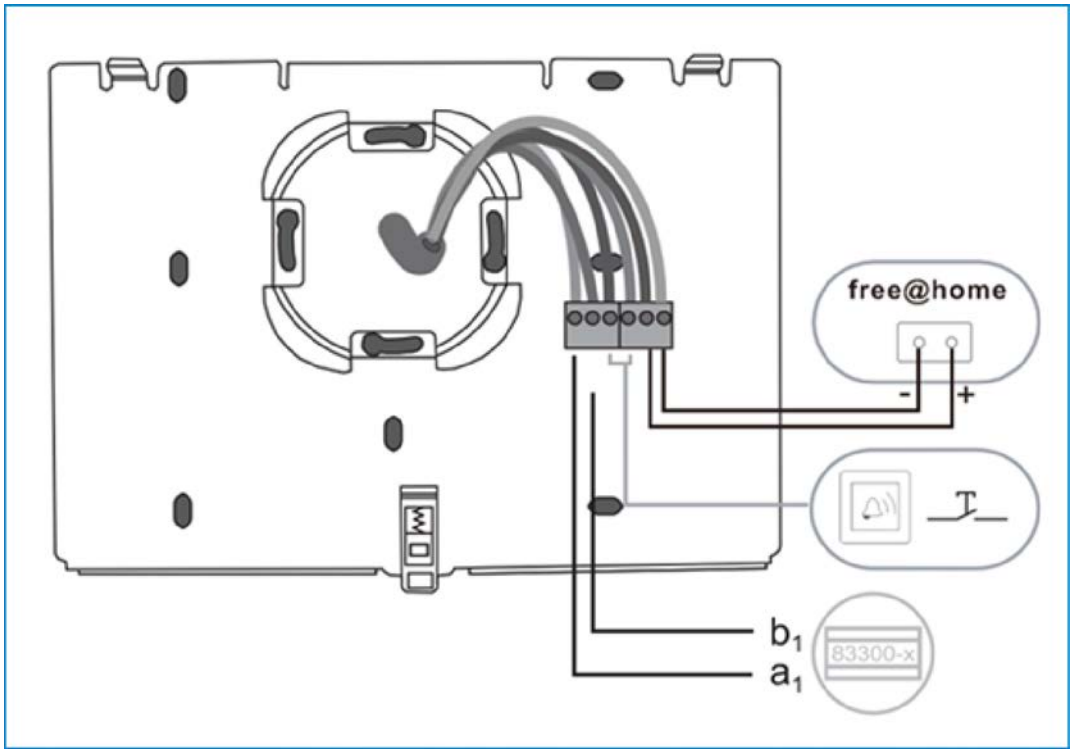


Fig. 3: Electrical connection

6 Mounting

6.1 Planning instructions

Note...
Planning and application instructions for the system are available in the Welcome and free@home system manuals. They can be downloaded at www.busch-jaeger.com or www.abb.com/freeathome.

6.2 Safety instructions for mounting

Warning - Risk of death due to short-circuit

Risk of death and fire due to electrical voltage of 230 V.

» Low-voltage and 230 V cables must not be installed together in a flush-mounted socket! In case of a short-circuit there is the danger of a 230 V load on the low-voltage line.

» Observe the relevant standards!

Warning - Risk of death due to electrical voltage

Dangerous currents flow through the body when coming into direct or indirect contact with live components. This results in electric shock, burns or even death.

Work improperly carried out on electrical systems is a hazard to one's own life and that of the user. Also fires and serious damage to property can result.

» Install the device only if you have the necessary electrical engineering knowledge and experience (see chapter 2.4).

» Use suitable personal protective clothing.

» Use suitable tools and measuring devices.

» Check the supply network type (TN system, IT system, TT system) to secure the following power supply conditions (classic connection to ground, protective earthing, necessary additional measures, etc.).

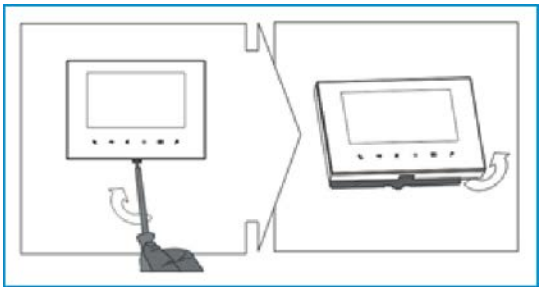
6.3 General installation instructions

» Terminate all branches of the wiring system via a connected bus device (e.g., indoor station, outdoor station, system device).
» Do not install the system controller directly next to the bell transformer and other power supplies (to avoid interference).
» Do not install the wires of the system bus together with 230 V wires.
» Do not use common cables for the connecting wires of the door openers and wires of the system bus.
» Avoid bridges between different cable types.
» Use only two wires for the system bus in a four-core or multi-core cable.
» When looping, never install the incoming and outgoing bus inside the same cable.
» Never install the internal and external bus inside the same cable.

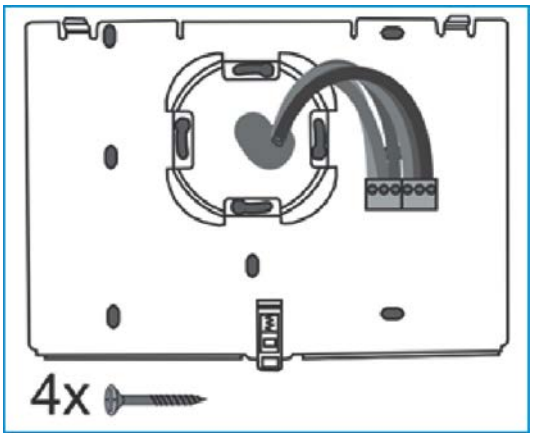
6.4 Mounting / Installation

Installation on an FM socket according to DIN 49073-1, or directly on a level wall surface.

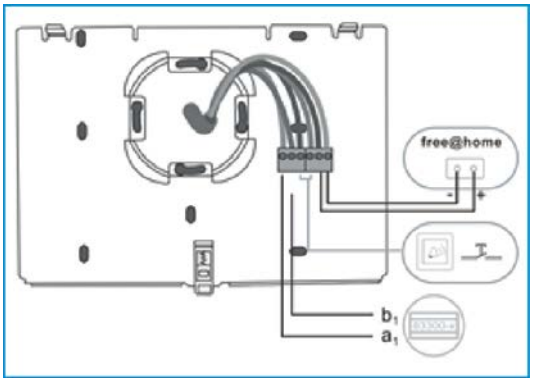
Video for mounting and connecting the device



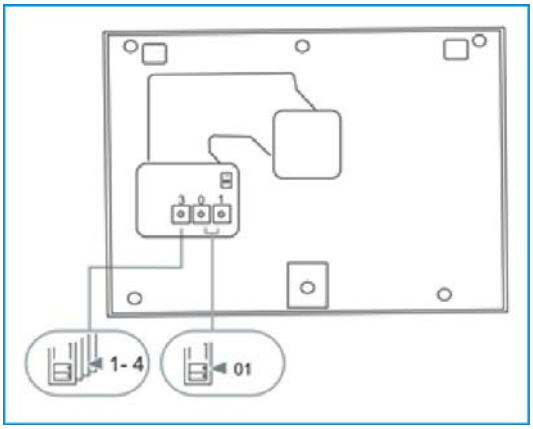
» Open the housing of the panel by pulling the clamp on the bottom of the device.



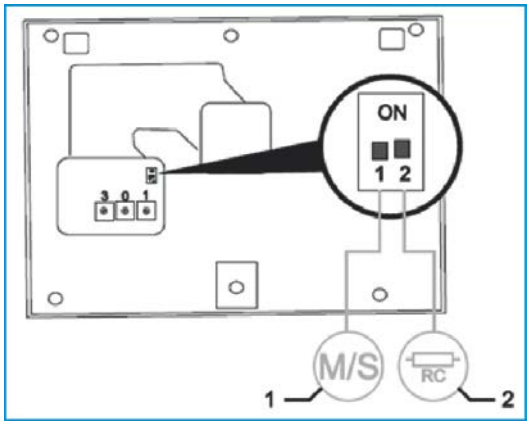
» Fix the bottom of the device to the wall.



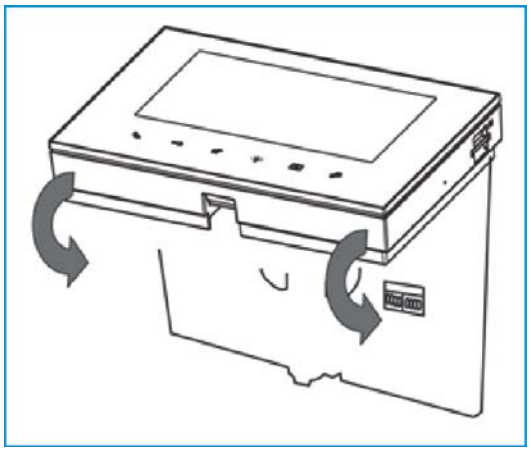
» Connect the bottom part of the device according to the graphics (see chapter "Connection" on page 17).



» Set the address of the preferred outdoor stations and the address of the indoor station on the rotary switches (see chapter "Addressing" on page 43).



» Set the master/slave function and the terminal resistor on the switches at the rear of the top part of the housing (see chapter "Setting the master/slave switch" on page 42).



» Latch the upper part of the device onto its bottom part. To do this, place the upper side of the device on the lock-in lugs and then press the bottom side onto the bottom part of the device until the clamp catches.
» The installation of the indoor station is now complete.

Video for mounting the device

6.5 Connection

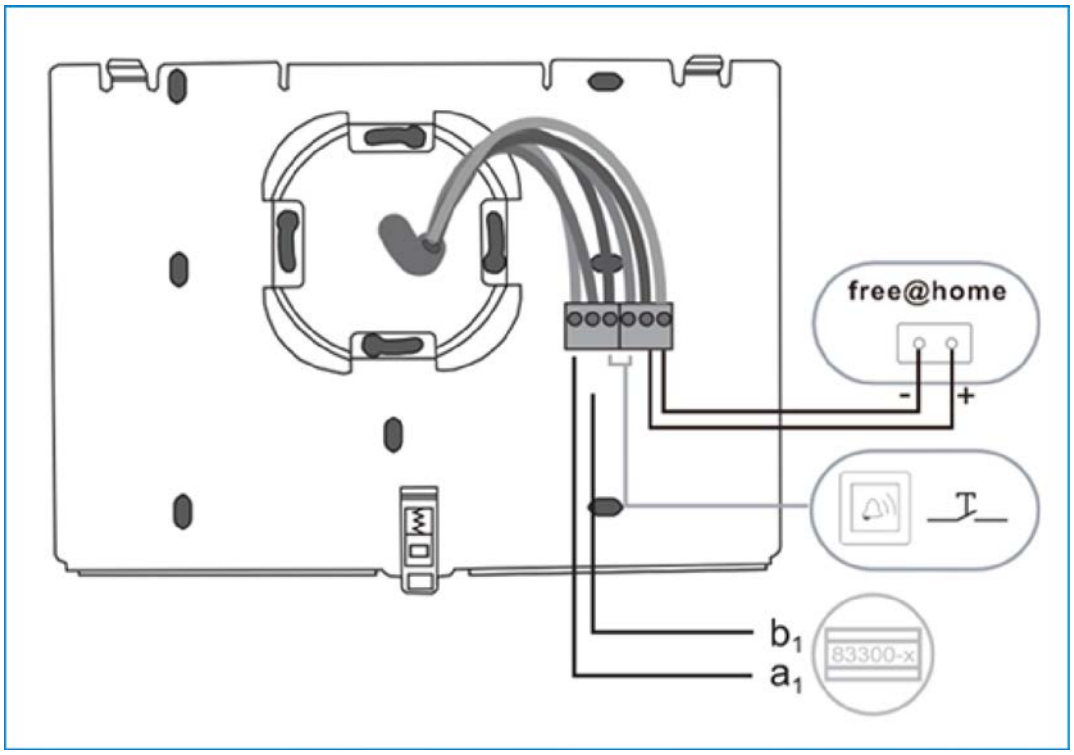


Fig. 4: Electrical connection

No.	Function
1	Switch from the free@home can control Door Entry System (light switch, open door,etc.)
2	Connection for the floor call button
3	Connection for the system controller When using several indoor stations: connection for the internal bus.

7 Operation

7.1 Standard operation

7.1.1 Control elements

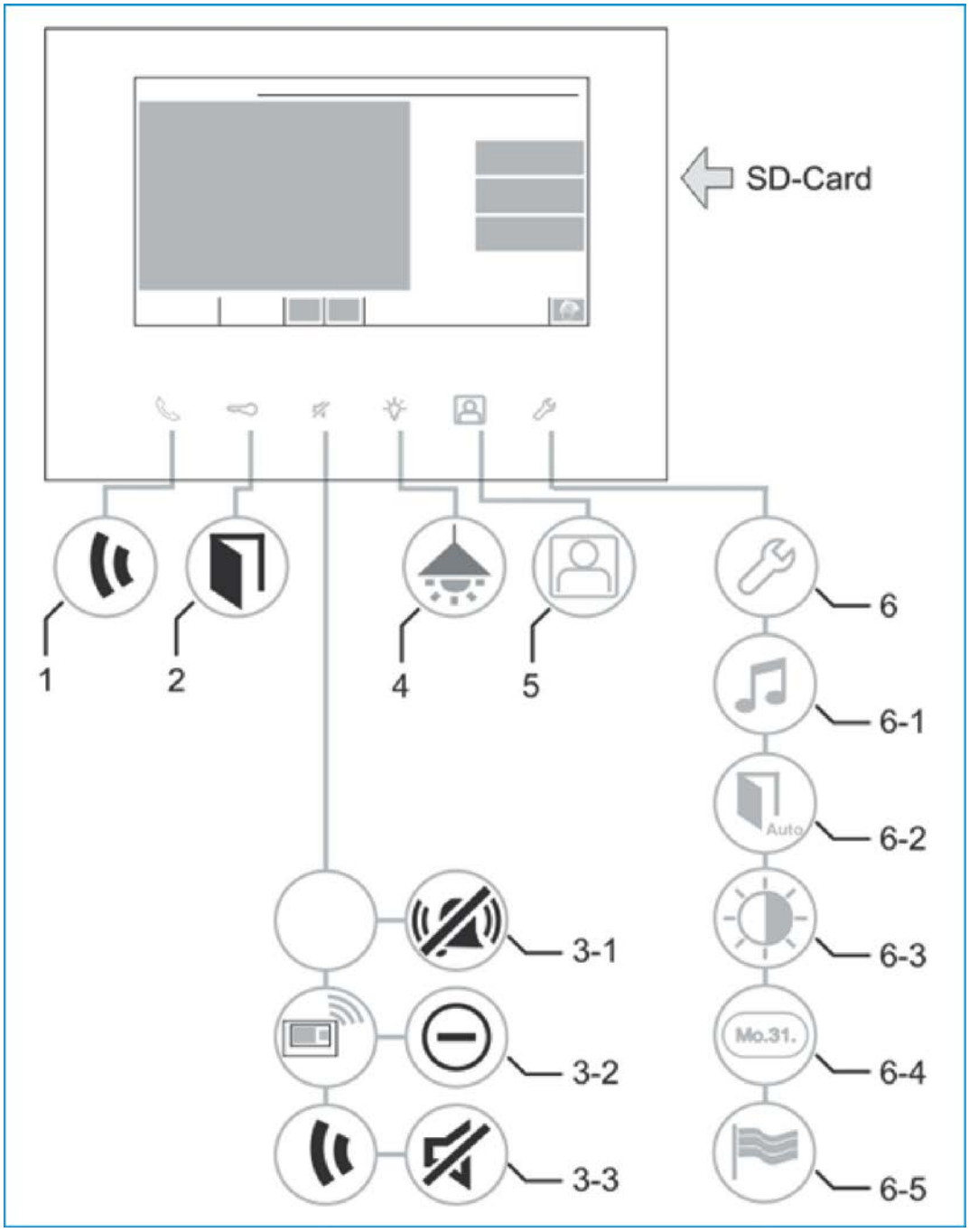


Fig. 5: Overview of control buttons

No.	Function
1	Press this button accept a call.
2	Press this button to open the door.
3-1	Press this button to deactivate the doorbell.
3-2	While a call is pending, this button has the "reject call" function. - Press this button reject a call.
3-3	During the conversation the button has the "mute" function. Press on this button to activate the mute function. - The party at the other end cannot hear you. - Press the button again to continue the conversation.
4	Press this button to switch on the lighting.
5	Press this button to display the events and picture memory / history.
6	Press this button to change to "Settings". - Setting nos. 6-1 to 6-5 are available on the touch screen.
6-1	Adjusting the bell sound
6-2	Unlock automatically setting, when this function is ON, the Unlock button LED is ON.
6-3	Setting the brightness of the display.
6-4	Setting the time and date.
6-5	Setting the language

7.1.2 Door communication system functions in ABB-free@home system

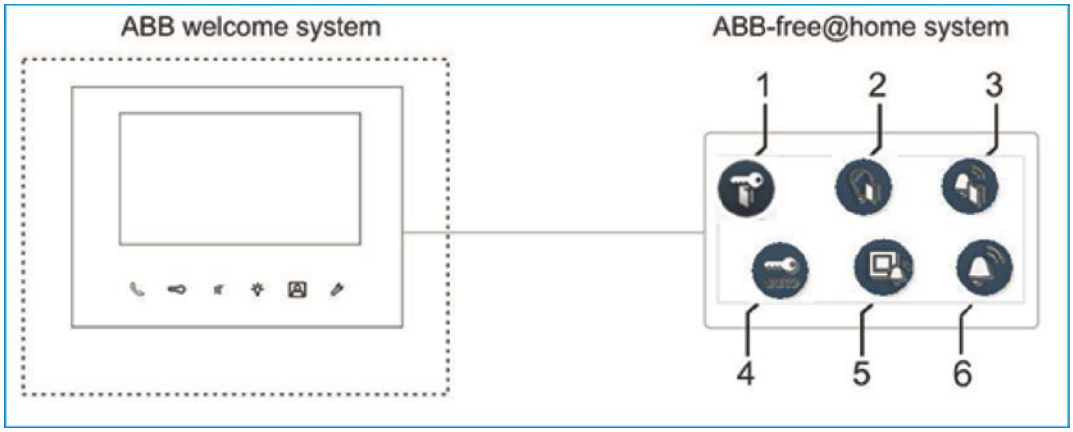


Fig. 6: Overview of control buttons

No.	Function
1	Door opener - use a free@home sensor to activate door opener. - open door of currently ringing outdoorstation (similar to open door button in Indoorstation)
2	Corridor light - switches the corridor switching contact of the Welcome system controller.
3	Floor call button - use a free@home sensor to activate/simulate the floor call for one Indoorstation (floor call likes door bell call without intercom). - activate a free@home actuator, with switch relay, when the floor call was pushed.
4	Automatic door opener - use a free@home sensor to activate / deactivate the automatic door opener function
5	Floor ringing - activate a free@home actuator when a call from outdoor was received.
6	Door call - activate a free@home actuator during an incoming door call.

7.1.3 free@home

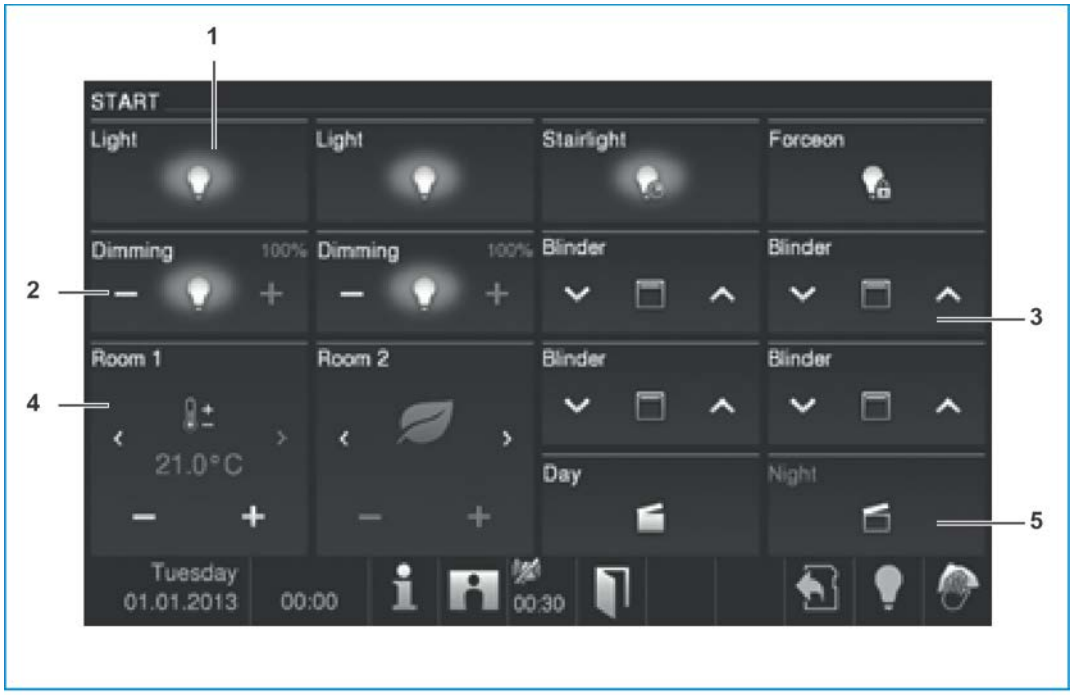


Fig. 7: Home automation

When activating the function, the controlframes for home automation will be shown on the welcome screen.

No.	Function
1	Light switch - Switch on/off. - Timed on duration. - Force-position on/off
2	Dimmer control - Light dimmer control (One step forward and one step backward).
3	Blind control - Blinds control (Moving up/down, step up/down).
4	Room thermostat control - Air conditioner control (Temperature up/down, mode switch,).
5	Scene control - Morning, Evening, Sleep, Leaving Home, Party, Cinema, Dinner, Presence Simulation

7.1.4 Status bar

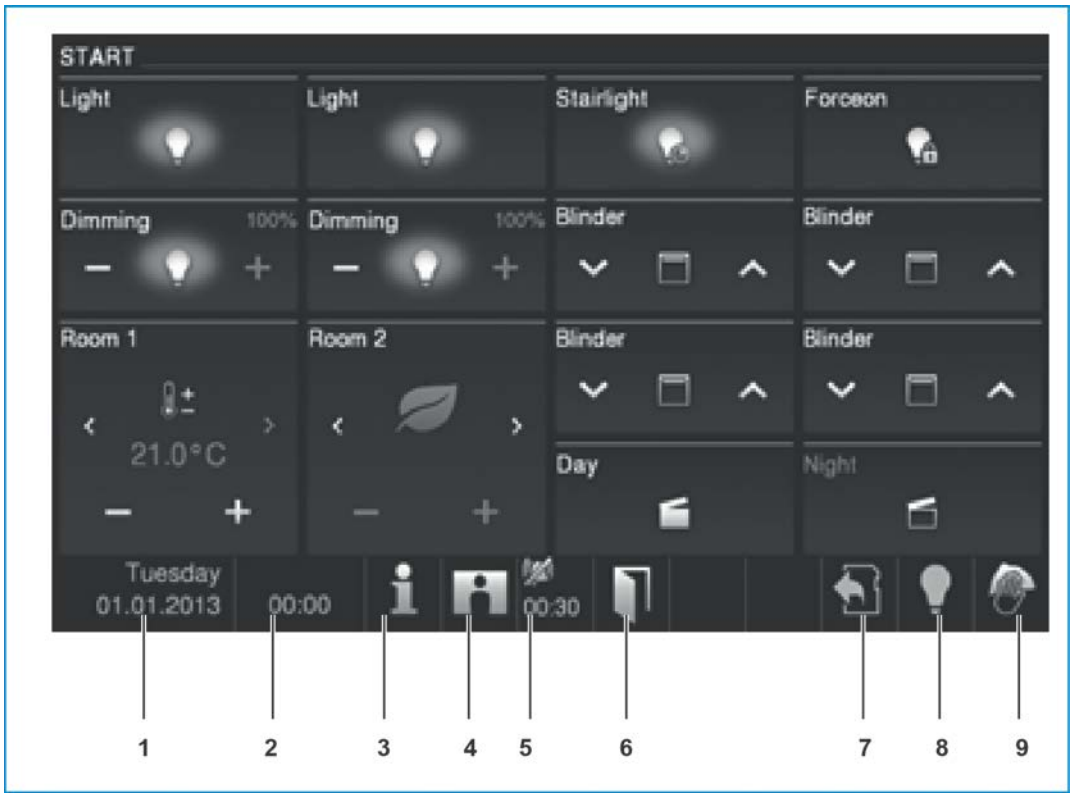


Fig. 8: Status bar

No.	Function
1	Current date - Set the date by touching the button.
2	Time - Set the correct time by touching the button.
3	System information - Call up the address (number of the indoor station) of this panel and the current hardware and software information by touching the button.
4	History - New information is available in History (events and picture memory) when this icon flashes. E.g., a missed call. - Display the events and picture memory by touching the button.
5	Mute function - The icons "crossed-out handset" and "crossed-out bell" indicate the mute function of the microphone or the loudspeaker of the panel.
6	Open entrance door - The "Open door" icon is displayed when you press the door opener or activate the function "Automatic door opener"..
7	SD card - The icon shows whether you have inserted an SD card.
8	Light - The icon is shown when you have switched the light directly from the panel.
9	Cleaning blockage - The icon is shown when the display is blocked to prevent functions being triggered during cleaning.

7.2 Control actions

7.2.1 Setting up the voice and video connection

Fig. 9: Setting up the voice and video connection

The following functions are available for setting up the voice and video connections (pressing the handset button):

No.	Function
1	Designation of camera
2	Set the volume by touching the respective buttons (plus and minus).
3	If several outdoor stations or external cameras are connected: - Select the camera by touching the respective buttons (forward and back).
4	Set the display by touching the respective buttons. - Saturation of the display (plus and minus) - Contrast of the display (plus and minus)

7.2.2 Opening the door

Fig. 10: Opening the door

When activating the door opener (by pressing the key button), the following function is available:

No.	Function
1	The "Open door" icon is displayed when you press the door opener or activate the function "Automatic door opener".

7.2.3 Muting

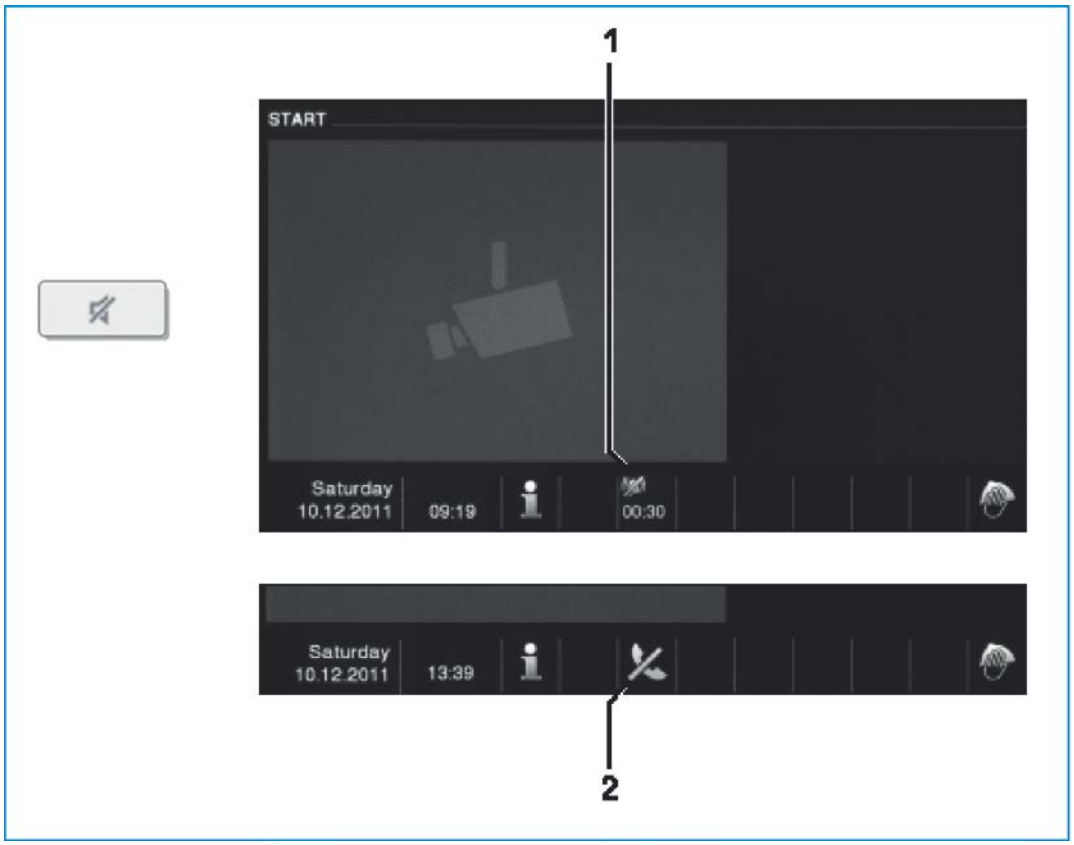


Fig. 11: Mute function (mute timer)

The following functions are available for muting (mute timer):

No.	Function
1	No call is pending: If you press the "Mute function" while no call is pending the bell sound of the panel is deactivated for a certain period. - If calls come in during this time, only the video image is displayed. - Missed calls are displayed in the events and picture storage
2	A call is pending: If you press the button "Mute function" during a call, the microphone of the panel is deactivated until the button is pressed again.

7.2.4 Switching the light

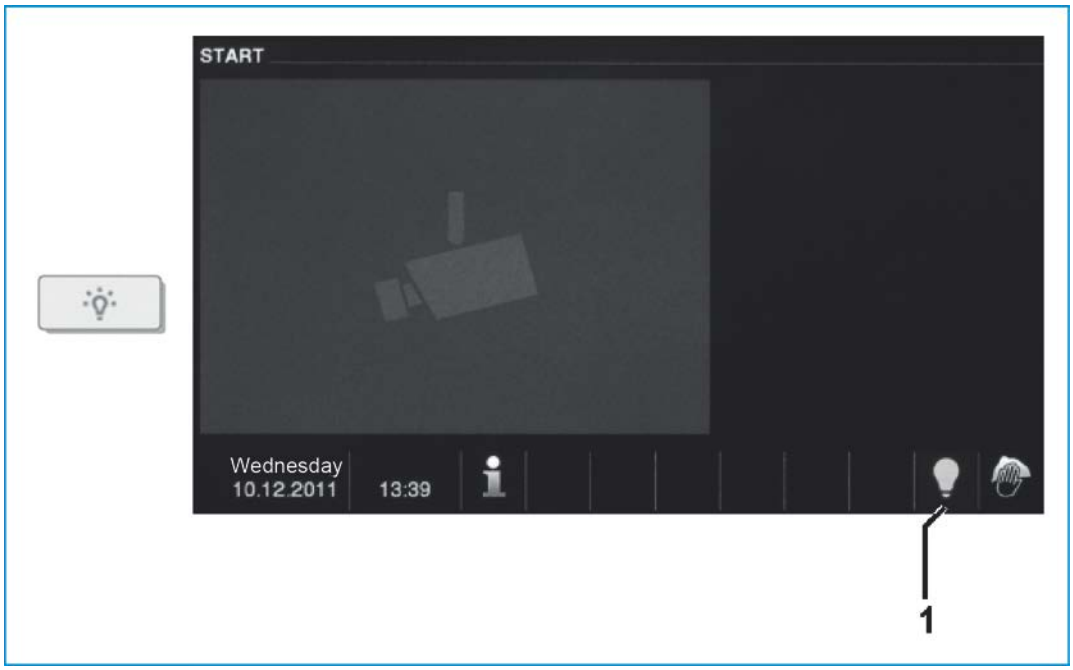


Fig. 12: Switching lights

When activating the light switch, the following function is available:

No.	Function
1	The "Light" icon is displayed when you press the button "Switching lights".

7.2.5 Events and picture memory / history

The panel records all events. Pressing the "History" button displays the last 100 events (prior events are overwritten).

Fig. 13: Events and picture storage / history

No.	Function
1	If you have activated the function "Auto snapshots activated" in the system settings, the flashing icon in the status bar signals a newly taken snapshot. - The symbol stops flashing when you call up the events and picture storage

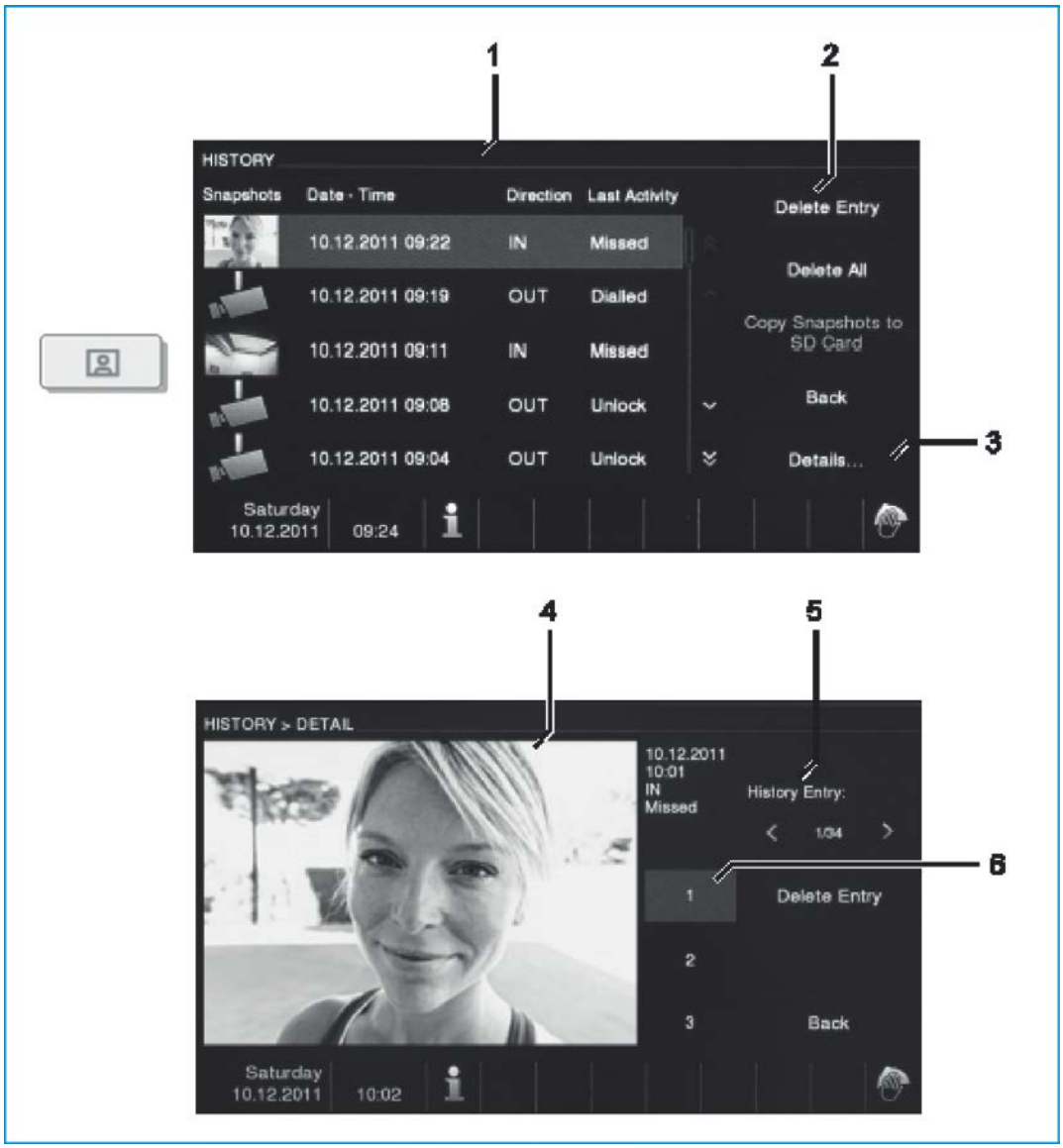


Fig. 14: Events and picture storage / history

During a call you can take a snapshot at any time by pressing the "History" button, even when the "Automatic snapshots" function is not active.

The following functions are available for the "Events and picture storage /history" function.

No.	Function
1	If you have activated the system setting "Automatic snapshots", a miniature view is displayed in the events list when incoming calls are missed. - Date, time and the type of the event are recorded together with the snapshot. - If no automatic snapshots are active, a camera icon is displayed in the miniature view.
2	Individual entries or the entire list can be deleted at any time. - Snapshots which you would like to archive can be copied on an inserted SD card (SD, SDHC).
3	Three pictures are are always made when a visitor rings the bell. This ensures an optimum snapshot. - All recorded pictures are called up via the detail view.
4	Display of the detail view of a record.
5	Select the event by touching the respective buttons (forward and back).
6	Select the single picture by touching the respective buttons (1 to 3)..

7.2.6 Inserting the SD card

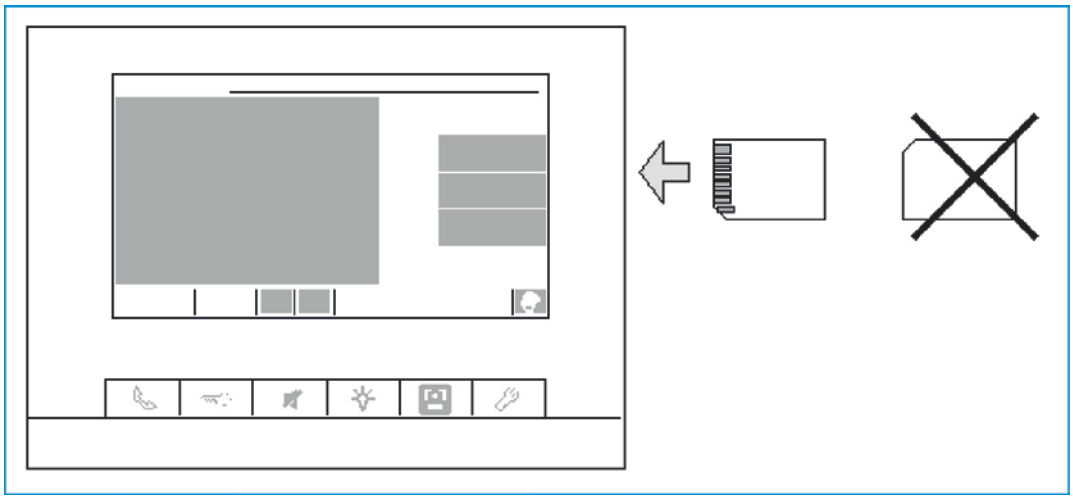


Fig. 15: Inserting the SD card

7.2.7 Settings

7.2.7.1 Overview

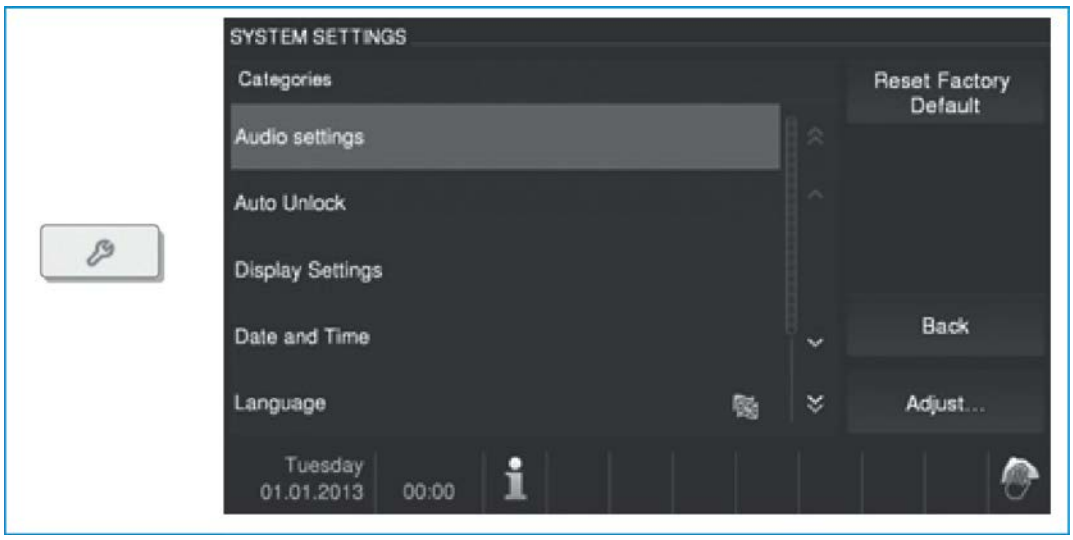


Fig. 16: Overview of settings

The following areas are available when touching the "Settings" button:

No.	Function
1	Audio Setting - Set the ringtone for outdoor, doorbell or others; - Set the volume for ringtone.
2	Auto Unlock - Set the automatic unlock time range.
3	Display Setting - Different display settings.
4	Date and time - Different time settings.
5	Language - The local language
6	Setup - Other settings, e.g. automatic snapshots

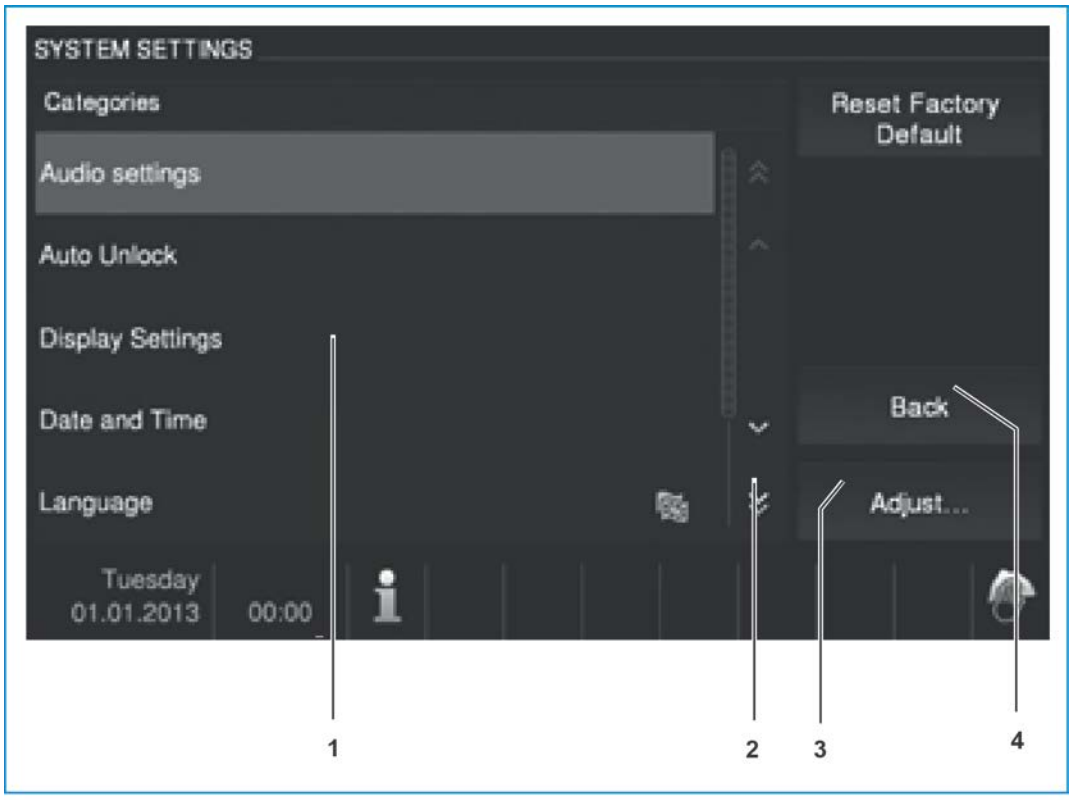


Fig. 17: Settings

To change into the settings areas of the list field (1), carry out the following steps:

» To display the hidden functions, tip on the scroll buttons (2).
» Touch one of the setting areas.
» Touch the button "Adjust" (3).
- The device changes to the setting area selected.
- The individual functions are described in the following chapters.
- The device changes back to the start page via button "Back".

7.2.7.2 Audio Settings

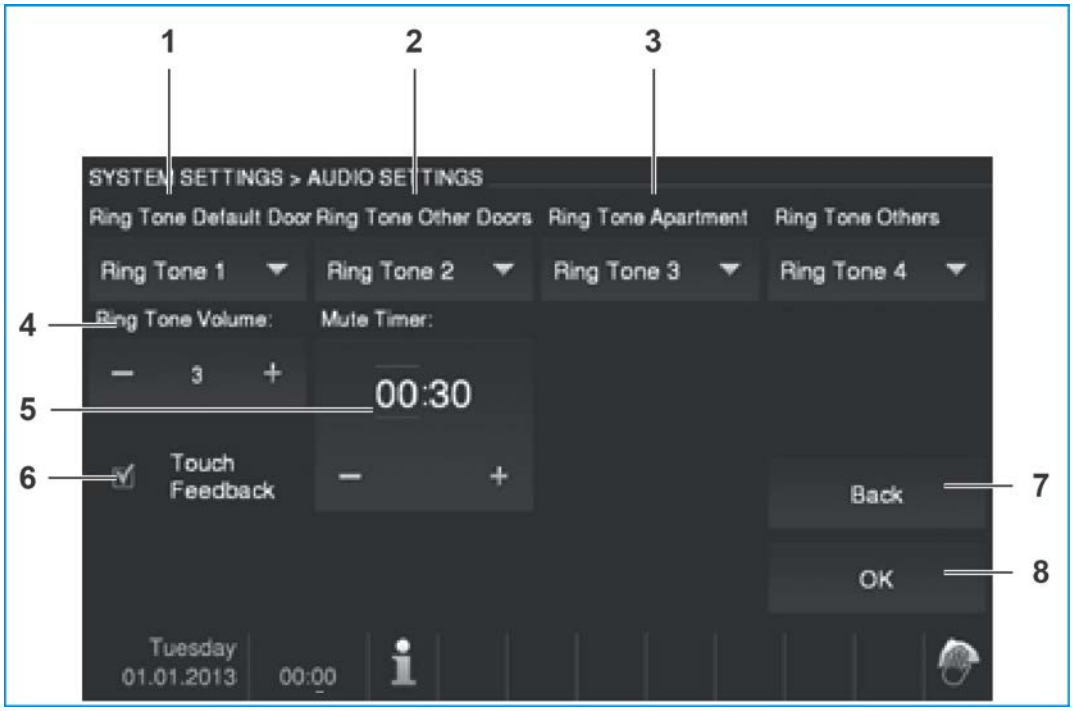


Fig. 18: Audio settings

When changing to "Audio Settings", the following functions become available:

Nr.	Functie
1	Bell sound for default door - Select the bell sound for the default door by tipping on one of the buttons in the list field.
2	Bell sound for other doors - Select the bell sound for other doors by tipping on one of the buttons in the list field.
3	Bell sound for apartment - Select the bell sound for apartment by tipping on one of the buttons in the list field.
4	Bell-sound volume - Set the volume of the bell sound via the “Plus / minus” buttons.
5	Mute timer - Use the " Plus / minus " buttons to set the time of the mute function which you activate via the "mute" button. - Before the adjustment tip on "Hours" or "Minutes". The active range is marked with a frame.
6	Touch Feedback - By tipping on the checkbox you activate or deactivate the feedback tone which sounds when the display or button is touched..
7	OK - By tipping on this button you activate the settings.
8	Back - By tipping on this button you can return to system settings.

7.2.7.3 Auto Unlock

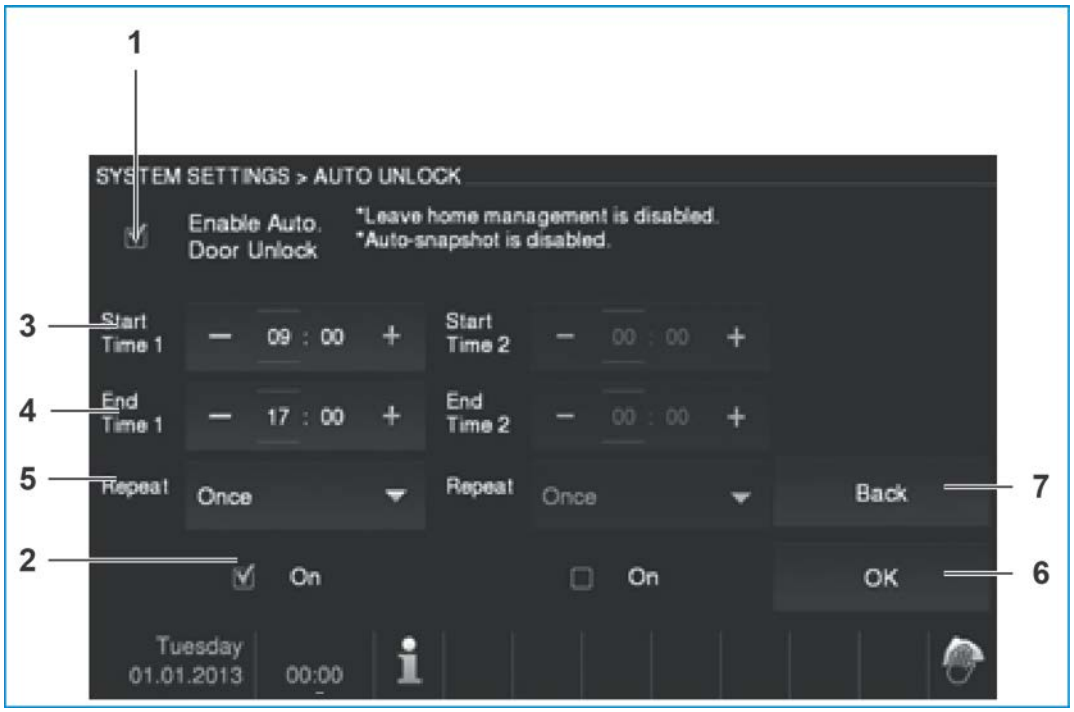


Fig. 19: Auto Unlock

When changing to "Auto Unlock", the following functions become available:

No.	Function
1	Enable Auto Door Unlock - By tipping on the checkbox you activate or deactivate the auto unlock. - When auto unlock is activated, leave home management and auto-snapshot are disabled.
2	On - Activate or deactivate the time range when the automatic door opener is activated.
3	Start Time - Set the start time via the “Plus / minus” button which you activate the timer. - Before the adjustment tip on “Hours” or “Minutes”. The active range is marked with a frame.
4	End Time - Set the end time via the “Plus / minus” button which you activate the timer. - Before the adjustment tip on “Hours” or “Minutes”. The active range is marked with a frame.
5	Repeat - Set the repeat frequency via the fold-down menu which you activate thetimer. - If choosing “Once”, after this time period, the function will be disabled..
6	OK - By tipping on this button you activate the settings.
7	Back - By tipping on this button you can return to system settings without saving the settings.

7.2.7.4 Display Settings

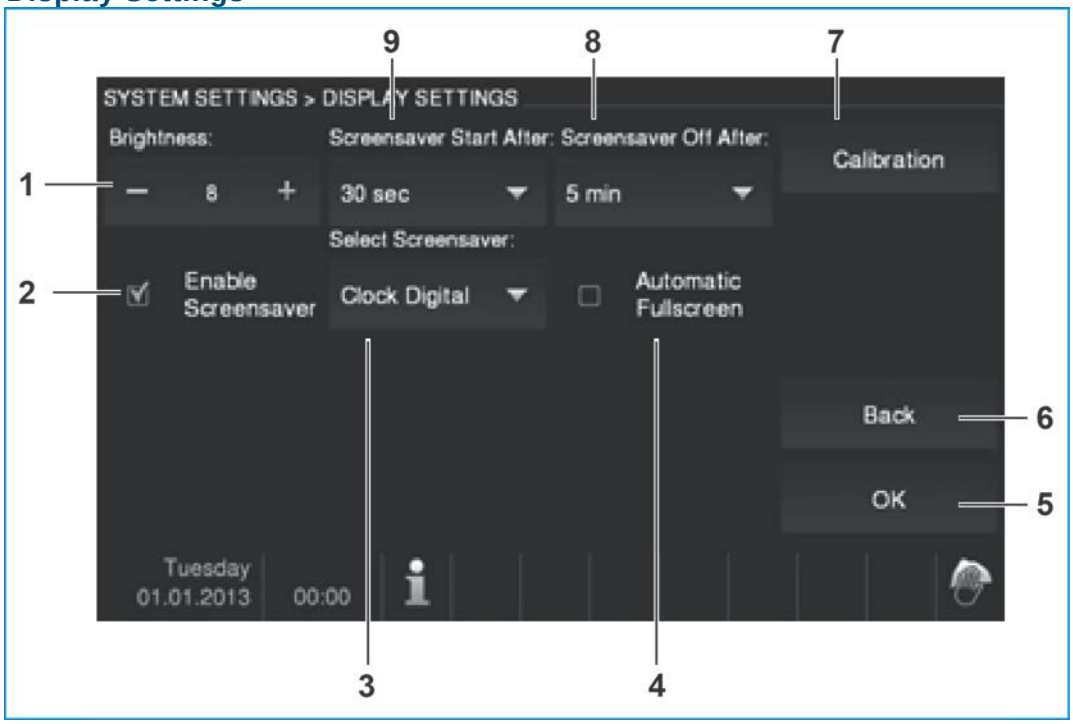


Fig. 20: Display settings

When changing to "Display Settings", the following functions become available:

No.	Function
1	Brightness - Set the brightness of the display via the "Plus / minus" buttons.
2	Enable screensaver - By tipping on the checkbox you activate or deactivate the screen saver.
3	Screen saver - The display is preset as digital clock - If an SD card with suitable pictures is located in the device, you can select a screen saver via the fold-down menu. If several pictures are stored on the SD card they are displayed as a slide show. Slide show (electronic picture frame) - Each picture appears for 20 seconds. Picture requirements: - The pictures must be stored on the SD card in directory "DCIM" (Digital Camera Images) on the first level. - The maximum admissible size of the picture is 2048 x 1960 pixel. - The maximum admissible resolution of a picture is 800 x 480 pixel. - The resolution of the display is 800 x 600. Larger pictures will be reduced to this resolution. - The format supported is "jpg".
4	The entire screen - Activate or deactivate the full-page mode of the door camera by tipping on the checkbox. The full-page mode remains active for the period the picture of the visitor is shown after the door bell has been rung.
5	OK - By tipping on this button you activate the settings.

6	Back - By tipping on this button you return to the start page without saving thesettings.
7	Calibration - If the buttons and the associated graphics of the display are no longer superim-posed, the monitor must be calibrated. - Tip on the calibration button and then consecutively on the 5 displayed position crosses. Finally confirm the dialogue box displayed. - The display has been calibrated.
8	Screen saver Off - Select the active period for the screen saver via the fold-down menu until it switches itself off automatically. - Available are 5 / 15 / 30 minutes. - To protect the display the maximum period for the display is limited to 30 minutes.
9	Screen saver On - Select the start time for the screen saver via the fold-down menu. - Available are 30 / 60 / 120 seconds.

7.2.7.5 Date / time

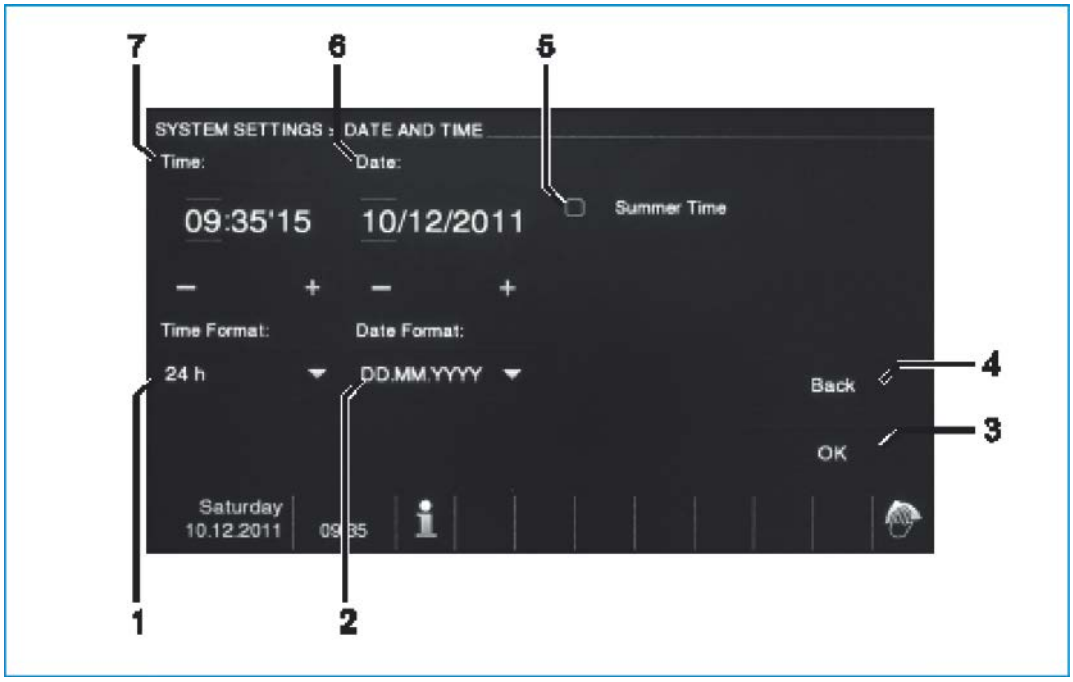


Fig. 21: Setting date and time

With the change to "Date and time" the following functions become available:

No.	Function
1	Time - Set the time via the "Plus / minus" buttons. - Before the adjustment tip on ""Hours", "Minutes" or "Seconds". The active area is marked with a frame.
2	Date - Set the date via the "Plus / minus" buttons. - Before the adjustment tip on "Day", "Month" or "Year". The active area is marked with a frame.
3	OK - By tipping on this button you activate the settings.
4	Back - By tipping on this button you return to the start page without saving the settings.
5	Summertime - Activate or deactivate the summertime by tipping on the checkbox (automatic switchover).
6	Time - Select the format of the displayed time via the fold-down menu. - Available are 12 h am/pm / 24 h.
7	Date - Select the format of the displayed date via the fold-down menu.

7.2.7.6 Language

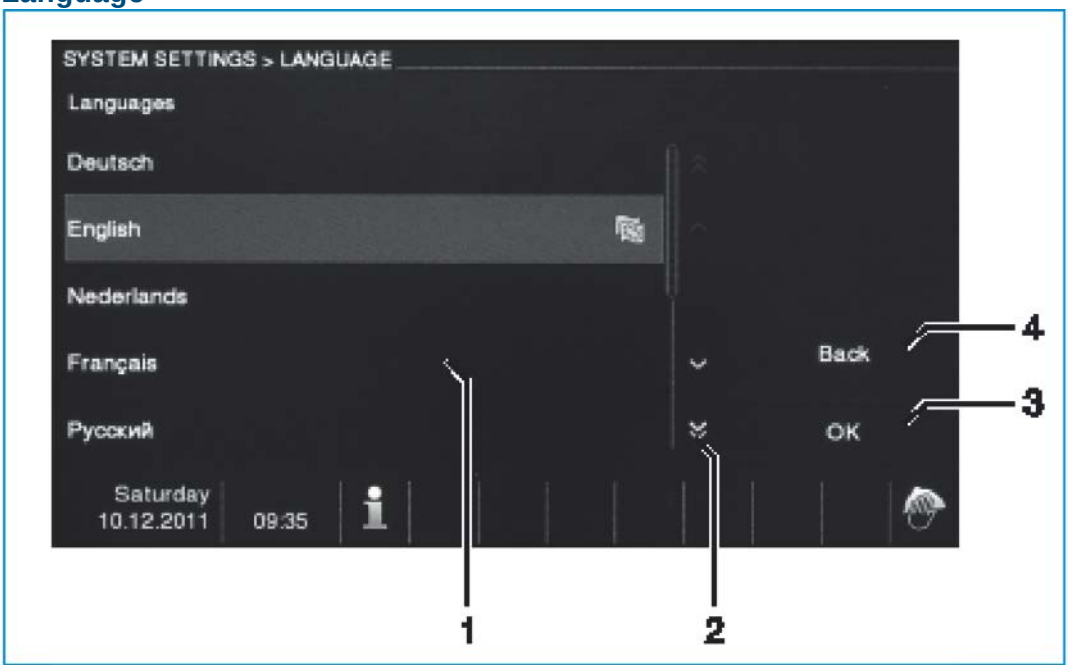


Fig. 22: Setting the language

When changing to "Language" the following functions become available:

No.	Function
1	Language (list field) - Here the languages available for selection are listed.
2	Scroll - To display the hidden languages tip on the scroll boxes.
3	OK - By tipping on this button you activate the settings.
4	Back - By tipping on this button you return to the start page without saving the settings.

Foreign language is set

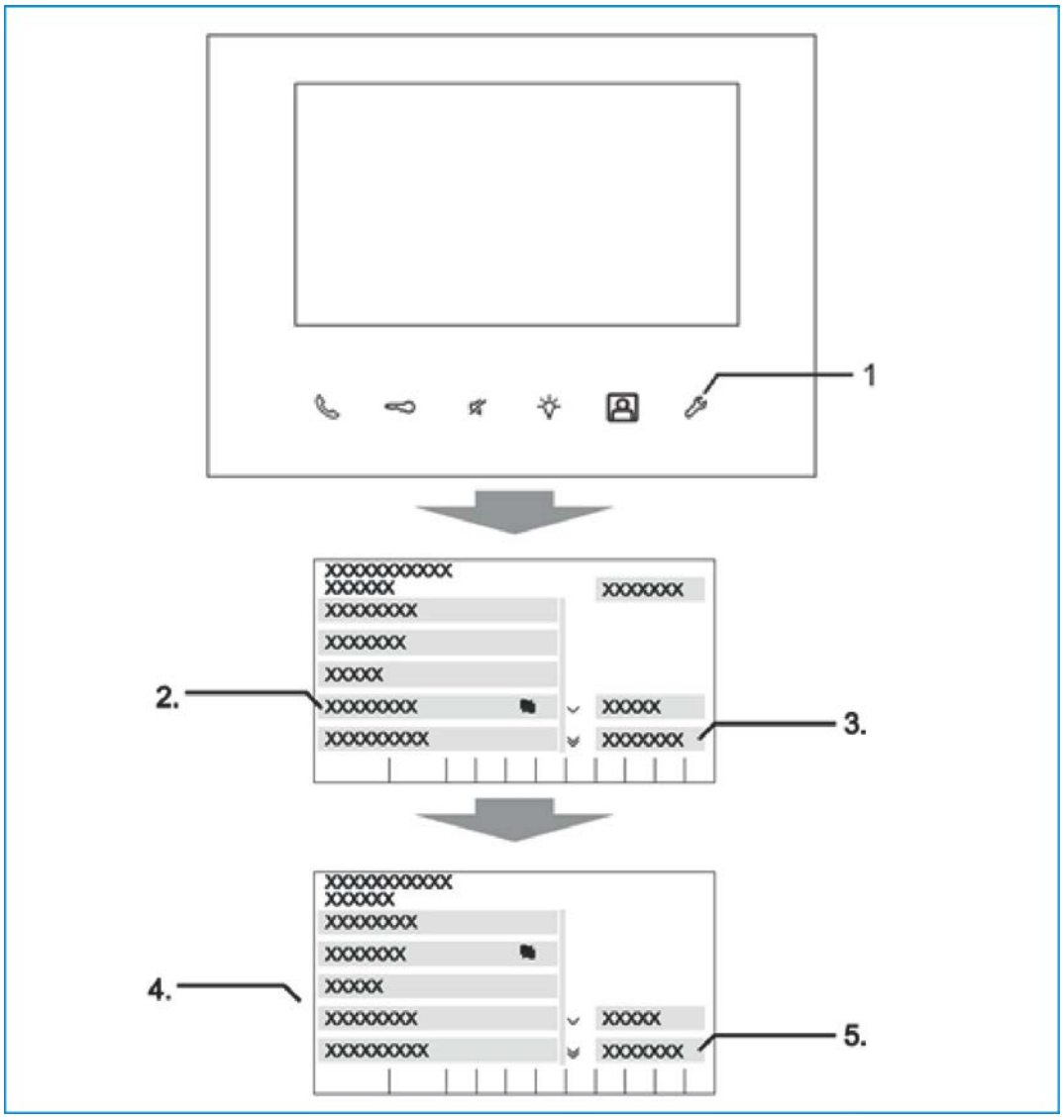


Fig. 23: Foreign language is set

If a foreign language has been set, take the following steps for a reset:

1. Tip on the "Settings" button below the display.
2. In the list field of the "Settings" display (on the left in the display) tip on the 4th entry from the top (this entry is marked with a flag).
3. In the "Settings" display, tip on the button at the bottom right (adjust).

- The device changes to the "Language" display".

4. In the list field (1) of the "Language" display (on the left in the display) tip on your language.
5. In the "Language" display, tip on the button at the bottom right (3) (ok).

- The device changes the language.
- The device changes back to the start page.

The language has been changed.

7.2.7.7 Setup

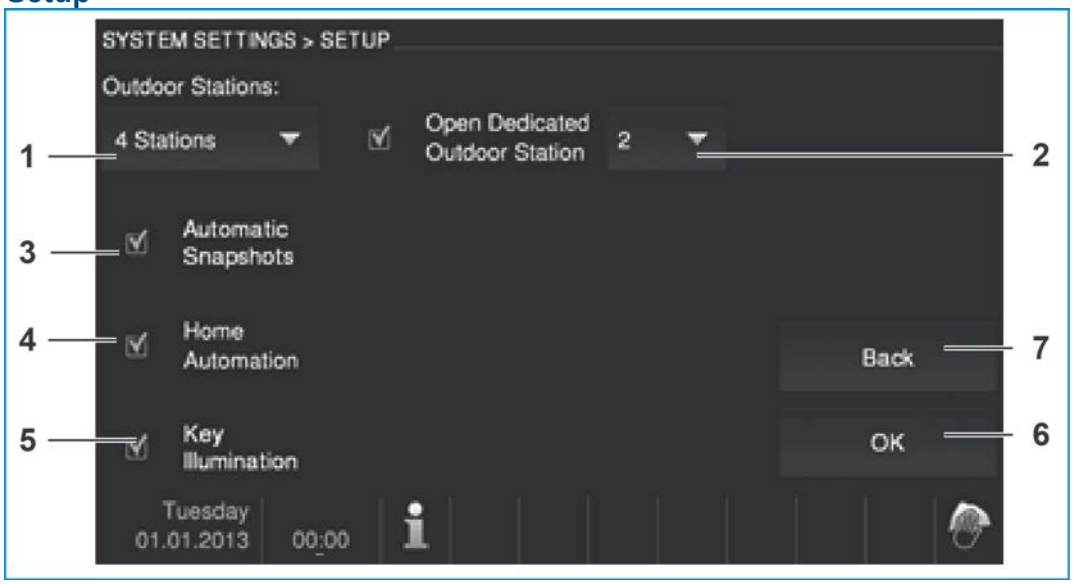


Fig. 24: Setup

With the change to "Setup" the following functions become available:

No.	Function
1	Outdoor stations - Select the number of available outdoor stations via the fold-down menu. - A maximum of 4 outdoor stations connected to the device are available..
2	Open Dedicated Outdoor Station - Select which Outdoor Station will be unlocked.
3	Automatic Snapshots - When the bell is pressed, three snapshots are automatically stored in theHistory. - This function can only be activated when the automatic door opener is deactivated. Otherwise too many snapshots would be stored during busy periods.
	Home Automation - By tipping on the checkbox, you activate or deactivate the home automation. - If activating the function, the controlframes for home automation will be shown on the welcome screen (Configuration should be done via SysAP in advance*).
5	Key Illumination - By tipping on the checkbox you activate or deactivate the Hard Key Illumination.
6	OK - By tipping on this button you activate the settings.
7	Back - By tipping on this button you return to the start page without saving the settings.

***) free@home:**

Commissioning is always carried out via the Web-based surface of the System Access Point.

The System Access Point establishes the connection between the free@home participants and the smartphone, tablet or PC. It is used to identify and program the participants during commissioning.

Devices which are physically connected to the free@home bus, log themselves automatically into the System Access Point. They transmit information about their type and supported functions.

In the panel configuration the buttons of the ABBfree@homeTouch 7" can be freely equipped.

All panels in the system and the favourites bar can be selected from the bottom selection bar.

Important: Only panels appear that have been previously positioned on the floor plan under commissioning step "Allocation"!

The allocated actuator channels can be positioned on the panel via drag-and-drop from the list view.

After the confirmation the configuration is taken over and becomes visible on the device after a few seconds.

Note
General information about commissioning and parameterization is available in the technical reference manual and the online Help of the System Access Point.

7.2.8 Adjusting the device

7.2.8.1 Terminal resistor

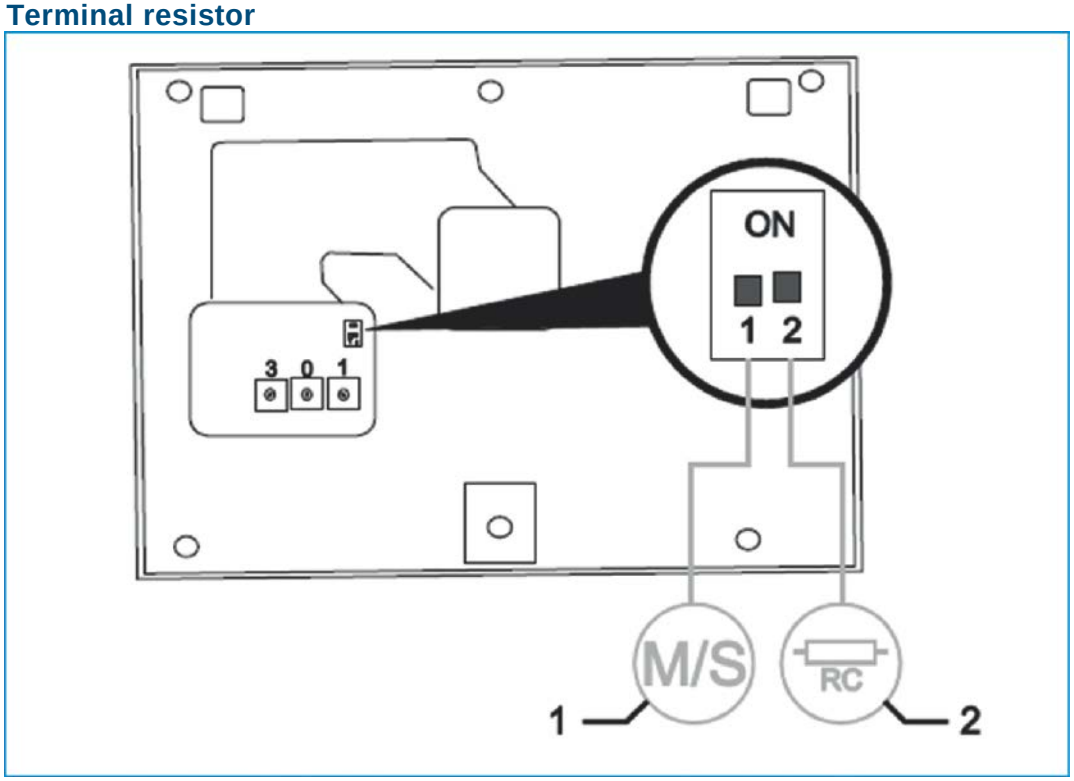


Fig. 25: Terminal resistor

» In pure audio installations always set the terminal resistor (2) on "OFF".

» In video installations or mixed audio and video installations set the terminal resistor for the the last devices of a branch on "ON".

7.2.8.2 Setting the master/slave switch

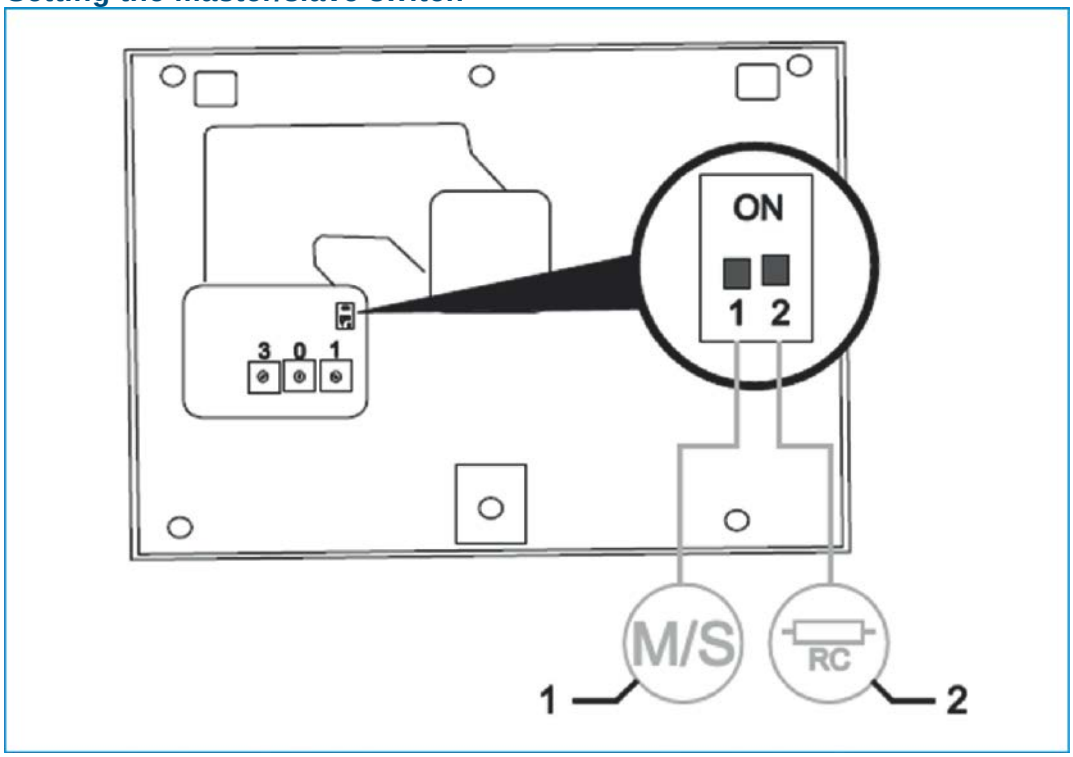


Fig. 26: Setting the master/slave switch

One station in each apartment must be set as "Master". All additional indoor stations in the same apartment must be set as "Slave".

Indoor station that is to be set as "Master"

» Set the switch "M"(1-1) on "ON".

For all other indoor stations

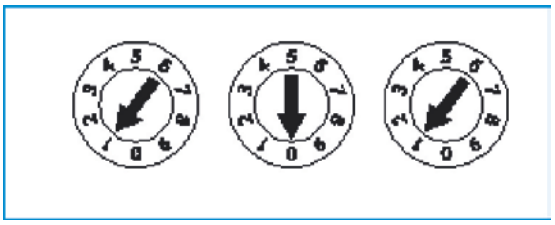
» Set the switch "S"(1-2) on "OFF".

8 Addressing

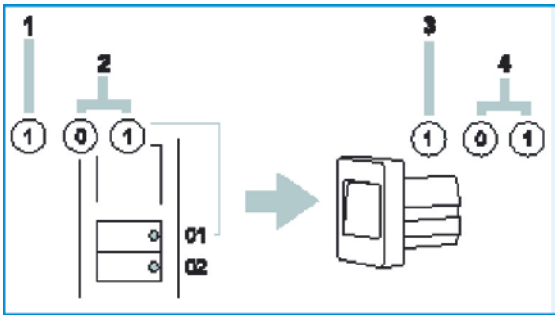
8.1 Addressing the stations

8.1.1 Potentiometer

Before installing as system, it must must be addressed.



» For this "Addressing", three potentiometers have been fitted to the rear of the device.
» The digits 0 to 9 can be set on each potentiometer.



Outdoor station:
» The left potentiometer (1) at an outdoor station indicates the address of this station.
» The next two potentiometers (2) indicate the address of the topmost doorbell push-button of this station.
» The doorbell push-switches below that are automatically numbered (consecutive).

Indoor station:
» The left potentiometer (3) of the indoor station indicates the address of the preferred outdoor station.
» The next two potentiometers (4) indicate the address of this indoor station.

8.1.2 Setting the address of the outdoor station:

The allocation to one of the four inputs of the system is made on the outdoor stations and the associated switch actuators for door and light via the setting of the address.

For this the potentiometer house/outdoors is set on an address between 1 and 4. The potentiometer is located on the rear of the outdoor station or the front of the MDRC switch actuator.

8.1.3 Assigning the doorbell push-button of an outdoor station to an apartment

The doorbell push-buttons of an outdoor station are assigned to the apartments consecutively from top to bottom and left to right with the addresses 01, 02, etc.

This assignment applies equally to several outdoor stations in a system. This means that in Fig. 29 on page 47, in each outdoor station push-button A is assigned to apartment 01, etc.

This factory setting is fixed via two potentiometers on the rear of the outdoor station. The middle potentiometer must be on "0" and the right one on "1".

8.1.4 Setting the address of the indoor station

The apartment is assigned on the indoor station via the setting of the address. Up to 99 apartments can be addressed within one system. In each of these up to four indoor stations with the same rights can be located with the same address.

When pressing the assigned doorbell push-button, all four indoor stations are called. The address of an indoor station (e.g. "15") is set with the aid of the potentiometers on the indoor station, the middle one indicating the tens digit (here "1") and the right one the singles digit (here "5"). The potentiometer is located on the back or outside of the indoor stations.

8.1.5 Setting of the "standard outdoor station"

For several outdoor stations in a system the "standard outdoor station" must be set on the indoor stations.

For this the potentiometer STATION is set on the address of the standard outdoor station - between 1 and 4.

The potentiometer is located on the rear of the indoor stations.

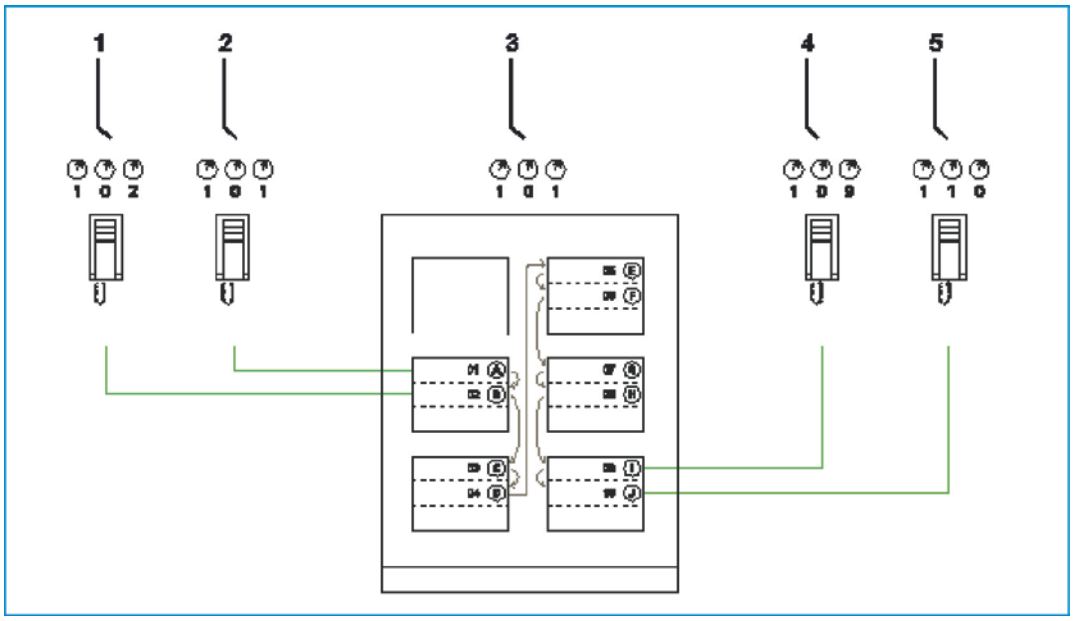


Fig. 27: Factory assignment of doorbell push-buttons

No.	Function
1	Apartment 01
2	Apartment 01
3	Outdoor station
4	Apartment 09
5	Apartment 10

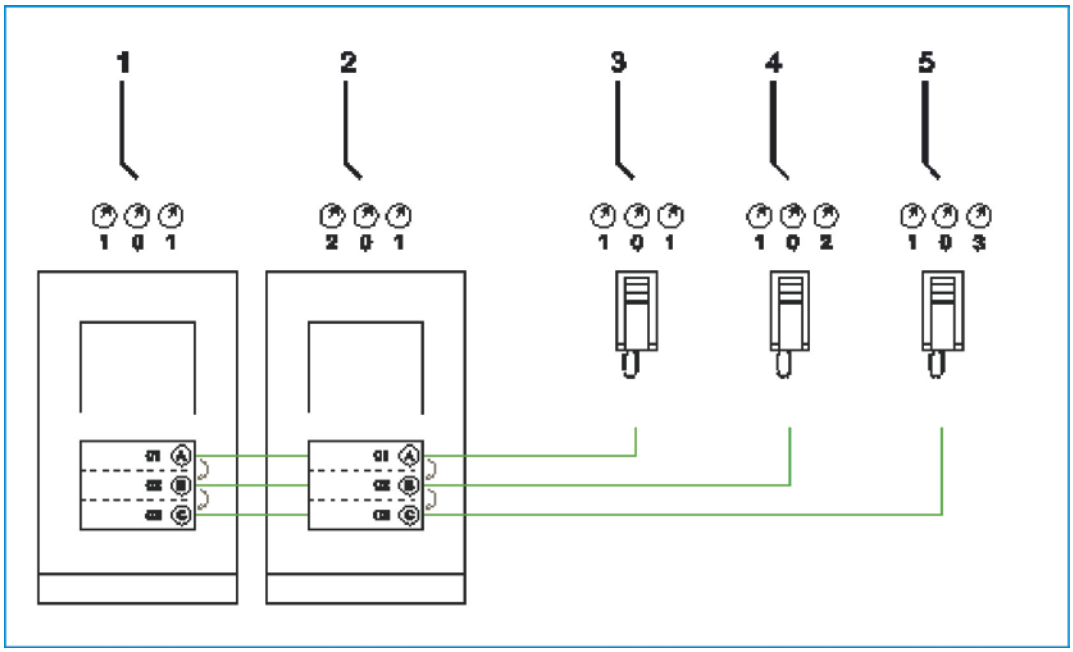


Fig. 28: Several outdoor stations with identical assignment

No.	Function
1	Main entrance outdoor station
2	Side entrance outdoor station
3	Apartment 01
4	Apartment 02
5	Apartment 03

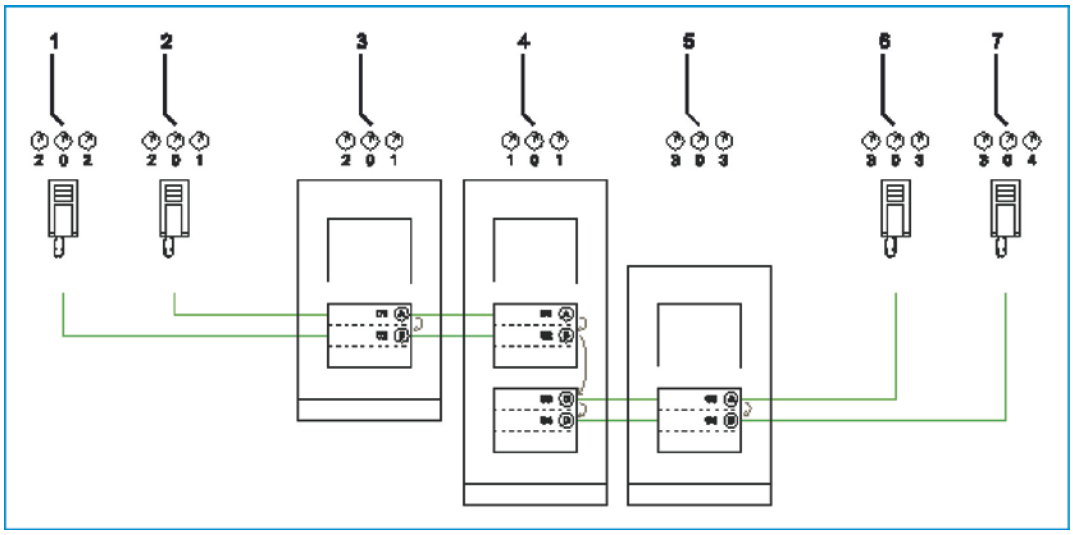


Fig. 29: Several outdoor stations with identical assignment

No.	Function
1	Apartment 01
2	Apartment 02
3	Outdoor station of the left building
4	Outdoor station of the entrance gate
5	Outdoor station of the right building
6	Apartment 03
7	Apartment 04

8.2 Video for addressing the device

Video for addressing the device

Project
name: _____

Mounting position for
the outdoor station: _____

Floor 02	01

9 Updating option

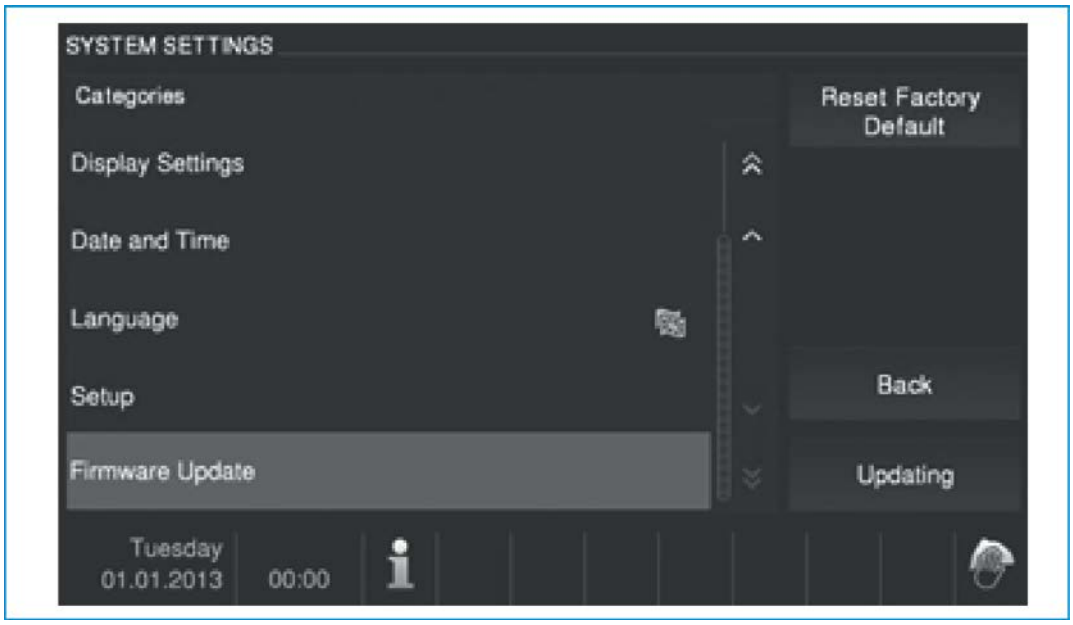


Fig. 30: Firmware update

The firmware updates are made available on the Internet at www.buschjaeger.com

If the firmware for your device is to be updated, carry out the following steps:

1. On page www.busch-jaeger.com enter the article number of the device in the "Search" section.

- The page changes to the area of the device.
- If an update for the firmware is available, it is ready for downloading in this area.
- The package for downloading includes the firmware and instructions on how to install the firmware.

2. Install the firmware according to the downloaded instructions.

10 Maintenance

The device is maintenance-free. In case of damage (e.g., during transport or storage), do not perform repairs. Once the device is opened, the warranty is void!

Access to the device must be guaranteed for operation, testing, inspection, maintenance and repairs (according to DIN VDE 0100-520).

10.1 Cleaning

Caution

Risk of damage to the screen surface!

The screen surface can be damaged by hard or sharp objects.

» Never use such objects for entries on the touch screen monitor.

» Use your finger or a plastic stylus.

The screen surface can be damaged by cleaning fluids or abrasive agents!

» Clean the surfaces using a soft cloth and commercially available glass cleaner.

» Never use abrasive cleaning agents.

A member of the ABB Group

Busch-Jaeger Elektro GmbH
PO Box
58505 Lüdenscheid

Freisenbergstraße 2
58513 Lüdenscheid

www.BUSCH-JAEGER.com
info.bje@de.abb.com

Central sales service:
Tel.: +49 2351 956-1600
Fax: +49 2351 956-1700

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