2TMD041900D0001 | 25.07.2019

Product manual
ABB-Welcome IP

H82364-. IPTouch 7, basic
H82364-.-02 IPTouch 7, basic

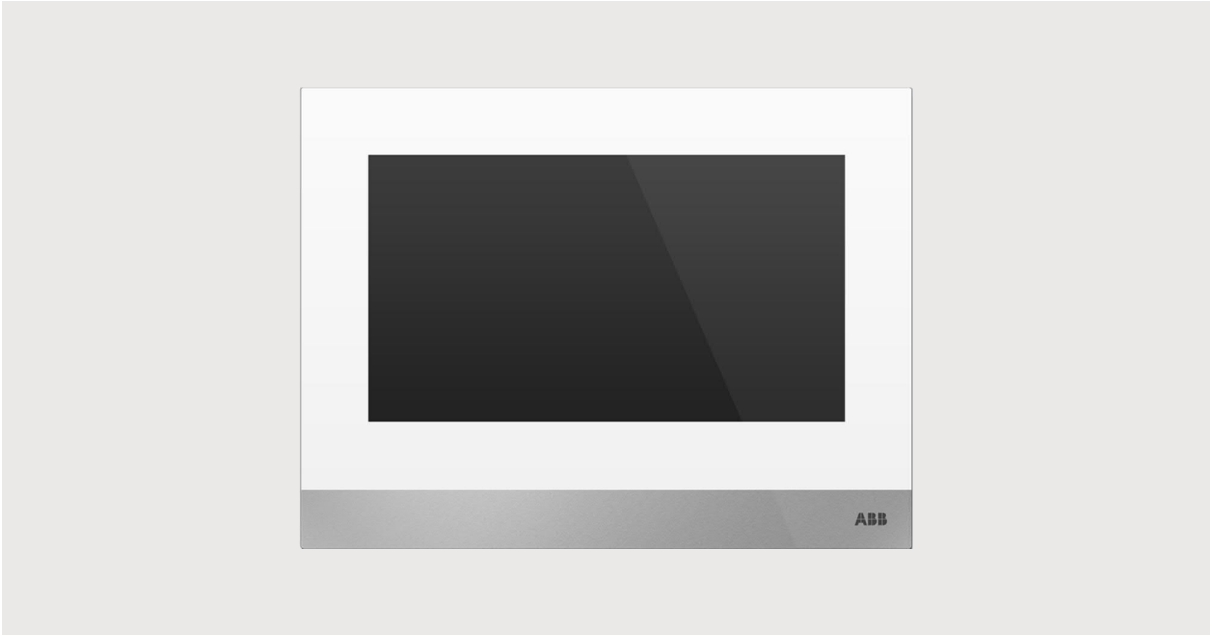


Table of contents

1 Notes on the instruction manual 4

2 Safety 4

3 Intended use 5

4 Environment 12

4.1 ABB devices 12

5 Product description 13

5.1 Control elements 13

5.2 Terminal description 14

6 Technical data 15

7 Mounting/Installation 16

7.1 Requirement for the electrician 16

7.2 Product dimensions 17

7.3 Installation height 17

7.4 Surface-mounted installation 18

7.5 Flush-mounted installation 20

7.6 Cavity wall installation 21

7.7 Desktop installation 22

7.8 Dismantling 23

8 Commissioning 24

8.1 Initial setup 24

8.2 System settings 28

8.2.1 Enter system setting 28

8.2.2 Sound 29

8.2.3 Language 30

8.2.4 Network settings 31

8.2.5 Automatic snapshot 34

8.2.6 Address of default lock 35

8.2.7 Program button setting 37

8.2.8 Card management 39

8.2.9 Display 43

8.2.10 Date and time 44

8.2.11 Monitor settings 45

8.2.12 APP settings 49

8.2.13 Contacts 58

8.2.14 Reset user settings 59

8.2.15 Version information 60

8.2.16 Device address 60

8.2.17 Firmware update 61

8.3 Engineering settings 63

8.3.1 Enter engineering setting 63

8.3.2 Device settings 64

8.3.3 Outdoor station settings 70

8.3.4 IP actuator settings 85

9 Operation 94
9.1 DES page 94
9.2 Incoming call 96
9.2.1 Call from outdoor station/gate station 96
9.2.2 Call from guard unit/indoor station 98
9.2.3 Call from doorbell 99
9.3 Intercom 100
9.3.1 Enter intercom page 100
9.3.2 Initiating an intercom call 101
9.3.3 Add to blacklist 103
9.3.4 Restoring a contact from the blacklist 104
9.4 Surveillance 105
9.4.1 Surveillance from outdoor station 105
9.4.2 Surveillance from IP camera 107
9.5 Call guard unit 108
9.6 History 110
9.7 Voice message 113
9.8 Absence message 115
9.9 Automatic unlock 117
9.10 Standby unlock 119
9.11 Mute 121
9.12 Text message 122
9.13 Call the lift 126
9.14 Clean screen 128

10 FCC 129

11 Cyber security 130
11.1 Disclaimer 130
11.2 Performance and service 131
11.3 Deployment guideline 132
11.4 Upgrading 132
11.5 Backup/Restore 132
11.6 Malware prevention solution 132
11.7 Password rule 132

1 Notes on the instruction manual

Please read through this manual carefully and observe the information it contains. This will assist you in preventing injuries and damage to property, and ensure both reliable operation and a long service life for the device.

Please keep this manual in a safe place. If you pass the device on, also pass on this manual along with it. ABB accepts no liability for any failure to observe the instructions in this manual.

2 Safety

Warning

Electric voltage!

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.

– Disconnect the mains power supply prior to installation and/or disassembly!
– Permit work on the 100-240 V supply system to be performed only by specialist staff!

3 Intended use

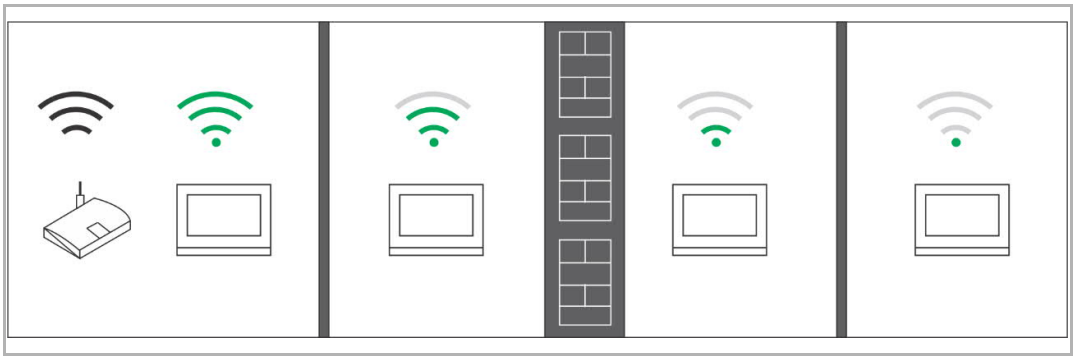
This device is a central control panel of the ABB-Welcome IP system and operates exclusively with components from this system. The device must only be installed in dry indoor rooms.

Product range

This product manual applies to the following products:

Article no.	Description
H82364-./H82364-.-02	IP touch 7, basic, LAN+WIFI

WIFI installation

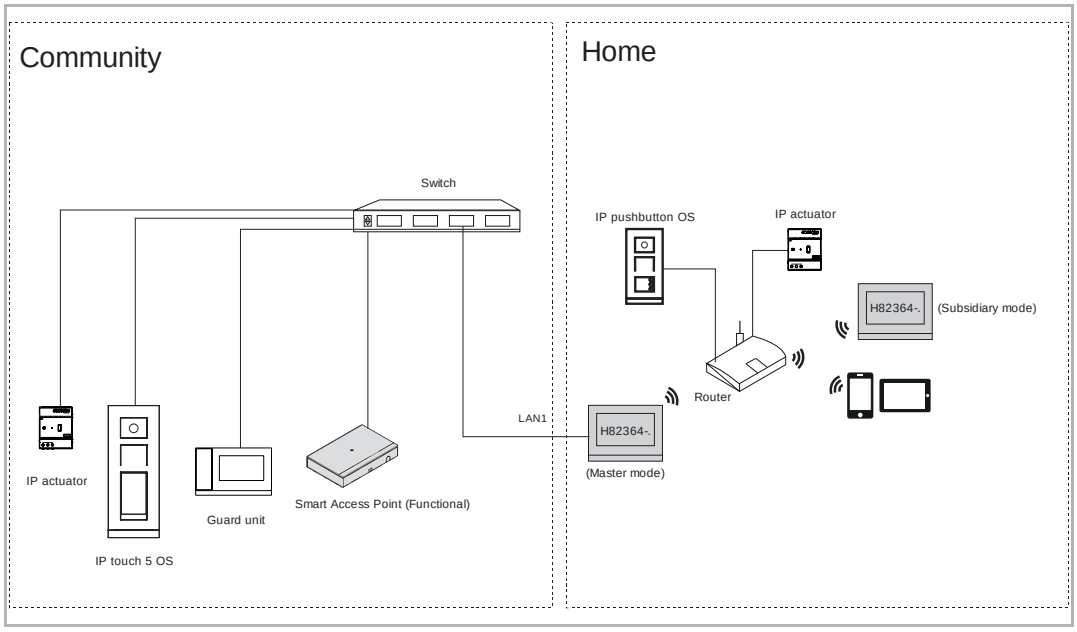


Note

If the device support WIFI function, please make sure the device has good WIFI signal reception before installation. The distance between the router and monitors, and the construction materials used in the walls are factors that can affect signal quality.

The WIFI signal is not strong enough to guarantee correct operation. A WIFI repeater must be installed between the router and this device in order to boost the WIFI signal received by this device.

Application case



Note

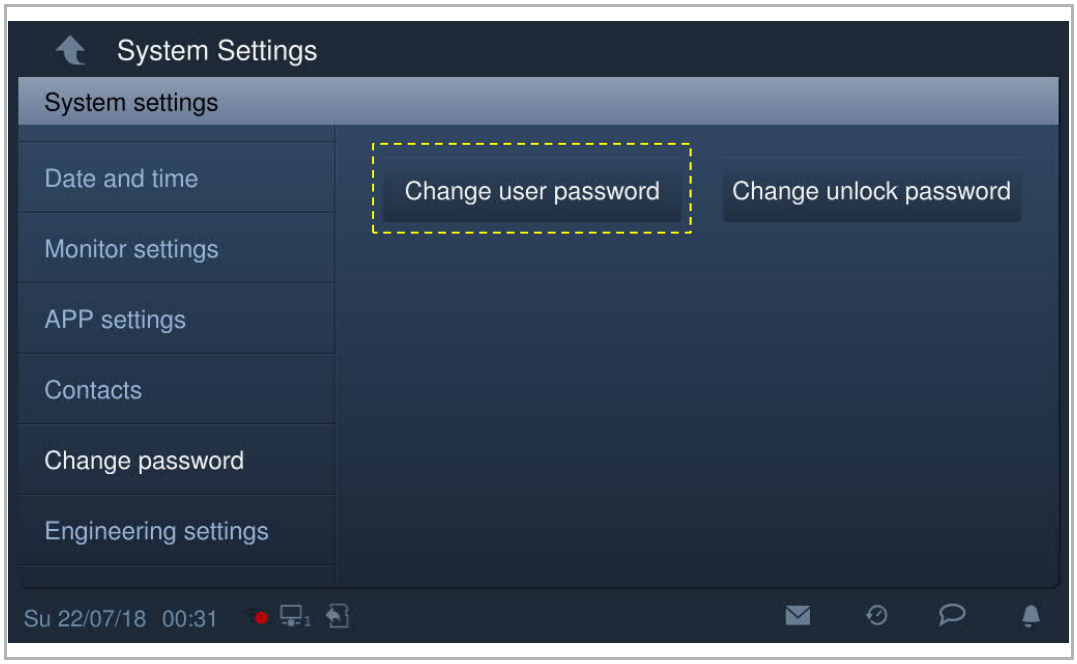
H82364-. can be set to master mode and subsidiary mode. Only one indoor station can be set to master mode in the same apartment, however.

User password

The system default is 123456. It can be used to set the following functions:

- Card management
- Reset user setting
- APP setting

On the "System settings", "Change password" screen, click "Change user password" to change the user password.



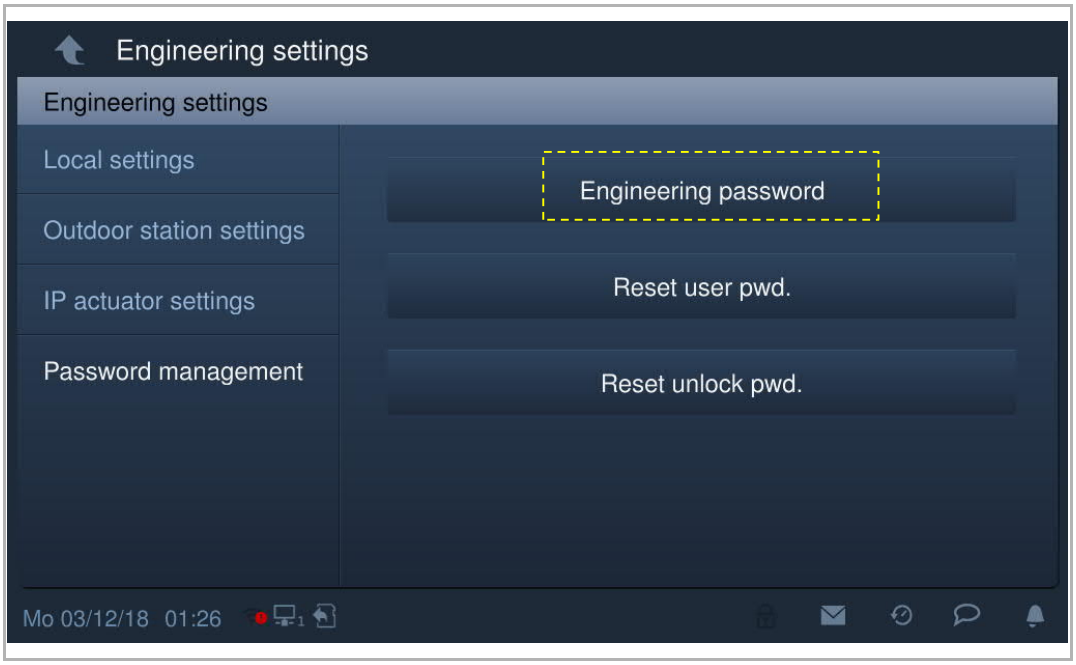
Password rule

This password must not include continuously increasing or decreasing numbers (e.g. 123456, 654321). Three consecutive identical numbers are similarly not permitted (e.g. 123444, 666888).

Engineering password

This password is used to make engineering settings. The system default is 345678.

On the "Engineering settings", "Password management" screen, click "Engineering password" to change the password.



Password rule

The user must change the engineering password when accessing the engineering settings for the first time. This engineering password must not include continuously increasing or decreasing numbers (e.g. 123456, 654321). Three consecutive identical numbers are similarly not permitted (e.g. 123444, 666888).

Forgotten engineering password

Please contact the technical support engineers if you forget the engineering password.

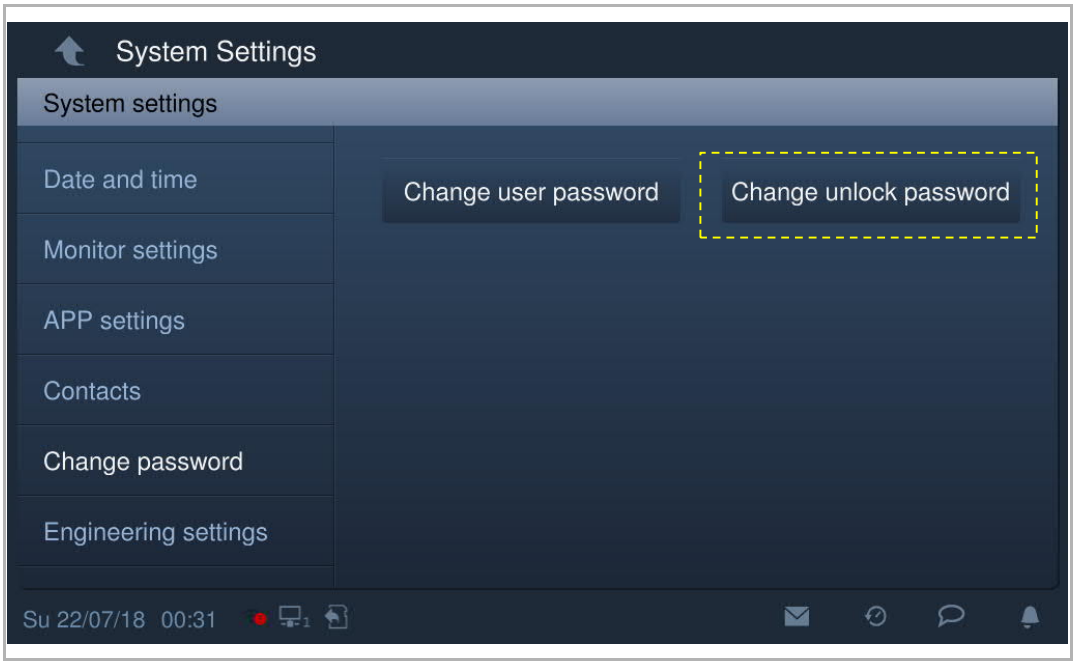
Wrong password

If the wrong password is entered 10 times within 5 minutes, it is not possible to enter the password again for 5 minutes.

Unlock password

This password is used to release the lock of the outdoor station by entering the password.

On the "System settings", "Change password" screen, click "Change unlock password", and enter the new password twice to change the password (3…8 digits).

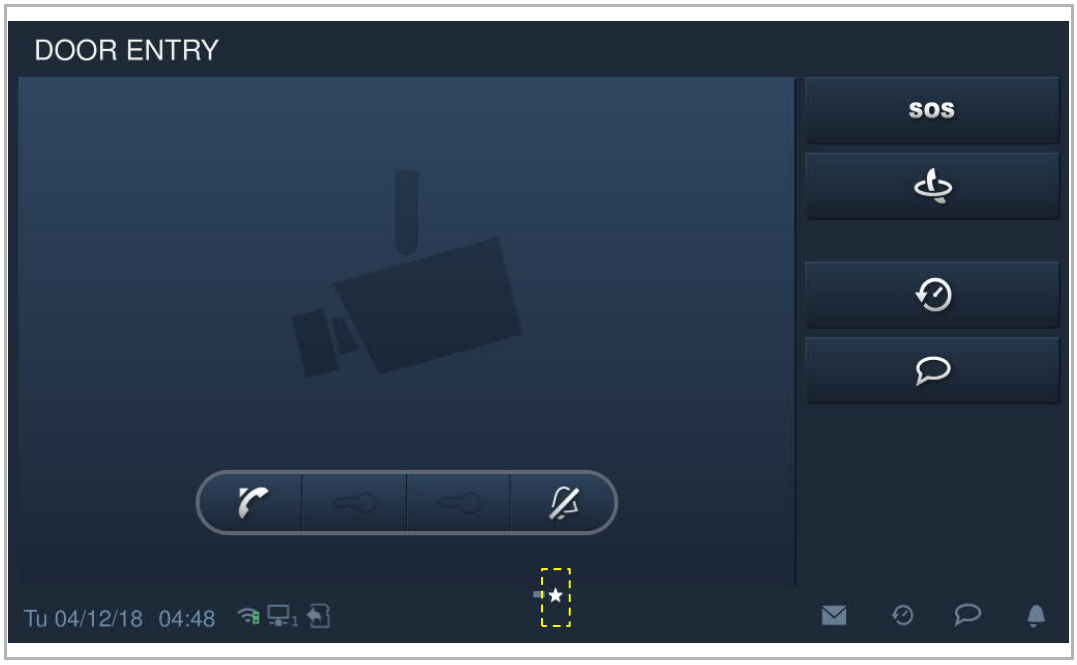


Password rule

This password must not include continuously increasing or decreasing numbers (e.g. 123456, 654321). Three consecutive identical numbers are similarly not permitted (e.g. 123444, 666888).

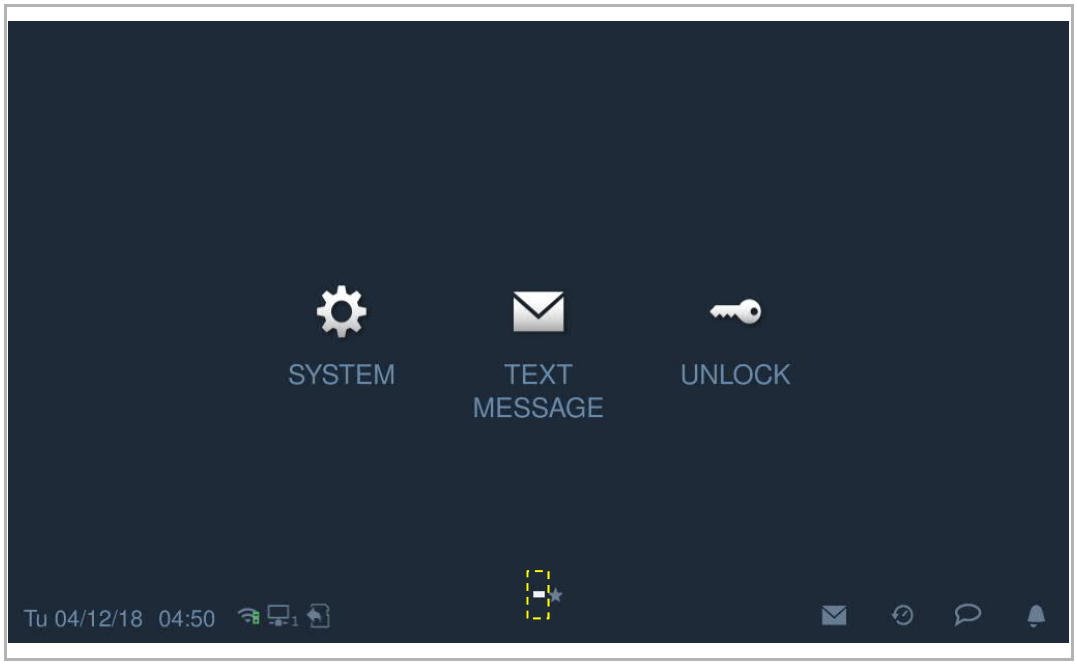
Home screen

The Home screen displays a "★" at the bottom. The system default home screen is "DES" screen. The Home screen can be set on the "Engineering setting" screen. Please see the "Device settings" chapter for more details.



Extra screen

The Extra screen displays "-" at the bottom.



Micro SD card

SD card

The indoor station supports the following SD card type:

- Type: Micro SDHC
- Capacity: 4...32 G
- Speed: Class10
- File system: FAT32
- Please use a SD card complying with SDHC standard, some SD cards may not perform correctly. It is recommended to use SanDisk, Kingston, Transcend SDHC cards, which are fully tested and verified.
- Do not remove SD card or reboot indoor station while recording or copying images onto the SD card, otherwise this SD card may fail to preform when recording or playing images.
- ABB is no responsible for the performance of an SDHC card.

IP-Cam

Note

The indoor station supports IP-Cam with onvif protocol (Profile S).

Ringtone

Note

The ringtone supports .mp3 and .wav format, with a maximum size of 32 M.

4 Environment

Consider the protection of the environment!

Used electric and electronic devices must not be disposed of with household waste.

– The device contains valuable raw materials that can be recycled. Therefore, dispose of the device at the appropriate collecting facility.

4.1 ABB devices

All packaging materials and devices from ABB bear the markings and test seals for proper disposal. Always dispose of the packing materials and electric devices and their components via an authorized collection facility or disposal company.

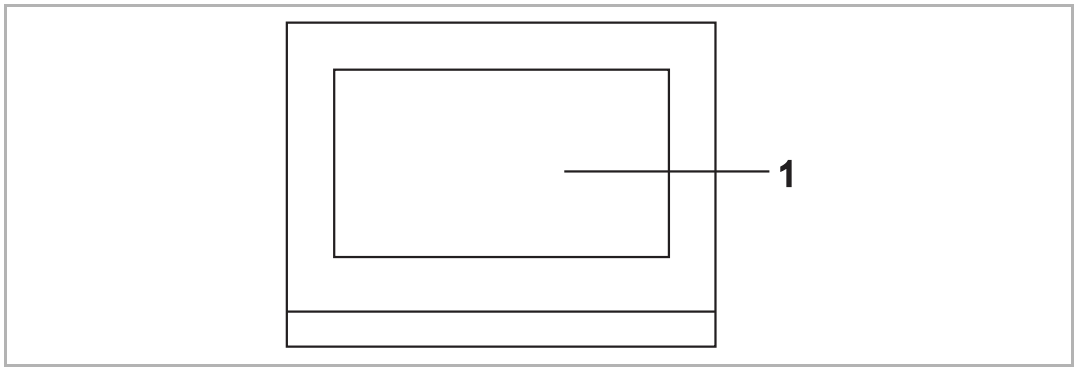
ABB products meet the legal requirements, in particular the laws governing electronic and electrical devices and the REACH ordinance.

(EU-Directive 2012/19/EU WEEE and 2011/65/EU RoHS)

(EU-REACH ordinance and law for the implementation of the ordinance (EG) No.1907/2006)

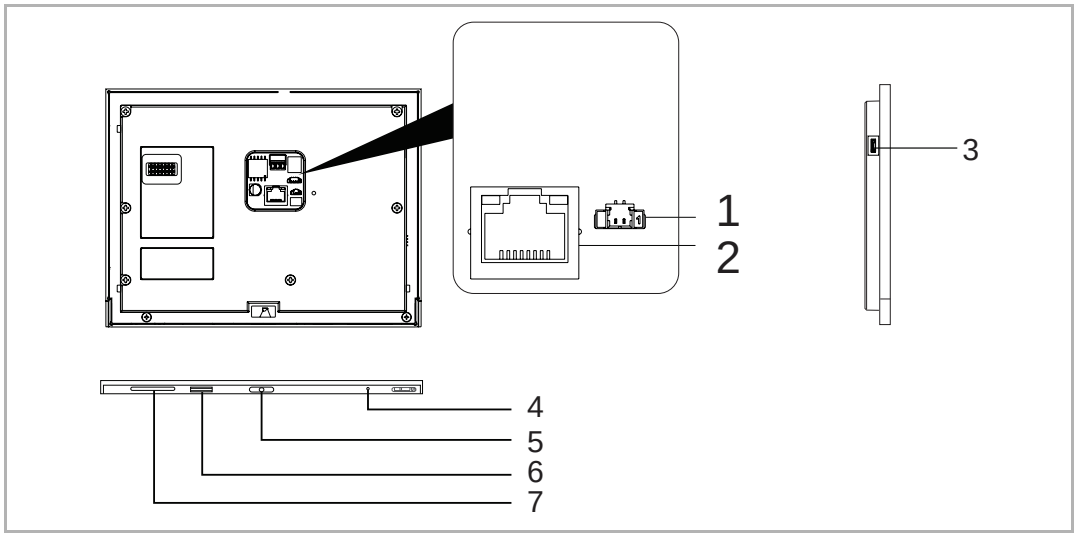
5 Product description

5.1 Control elements



No.	Function
1	Touch screen

5.2 Terminal description



No.	Function
1	Doorbell connector
2	LAN1 (PoE)
3	Micro USB Upgrade connector
4	Microphone
5	Dismantling switch
6	Micro SD card connector
7	Speaker

6 Technical data

Designation	Value
Display size	7"
Resolution	1024 x 600 px
Product dimensions	198.5 mm × 149.8 mm × 17 mm
Operating temperature	-10 °C … +55 °C
PoE standard	IEEE802.3 af
Wireless transmission band	**802.11 b/g/n:** 2412...2462MHz (for United States) 2412...2472MHz (for European countries) **802.11a/n:** 5150…5250MHz 5250…5350MHz 5470…5725MHz 5725…5850MHz (for United States)
Wireless transmission power	Max. 20 dBm@12 Mbps OFDM 2.4 G Max. 20 dBm@12 Mbps OFDM 5.8 G
Wireless transmission standard	IEEE 802.11 a/b/g/n

7 Mounting/Installation

Warning

Electric voltage!

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.

– Disconnect the mains power supply prior to installation and/or disassembly!
– Permit work on the 100-240 V supply system to be performed only by specialist staff!

7.1 Requirement for the electrician

Warning

Electric voltage!

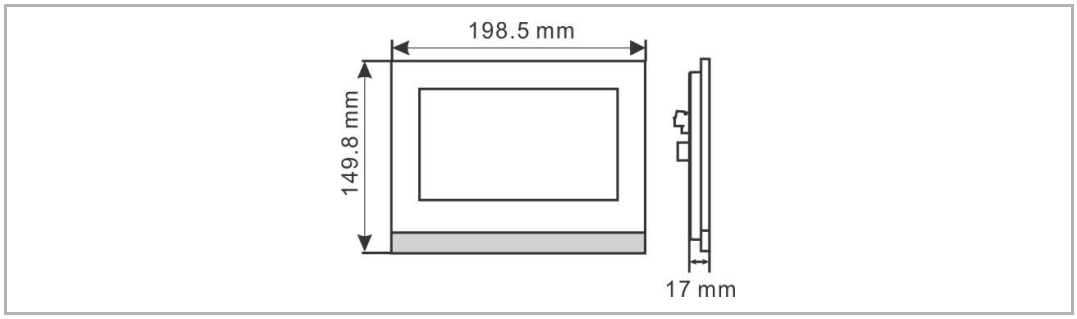
Install the device only if you have the necessary electrical engineering knowledge and experience.

– Incorrect installation endangers your life and that of the user of the electrical system.
– Incorrect installation can cause serious damage to property, e.g. due to fire.

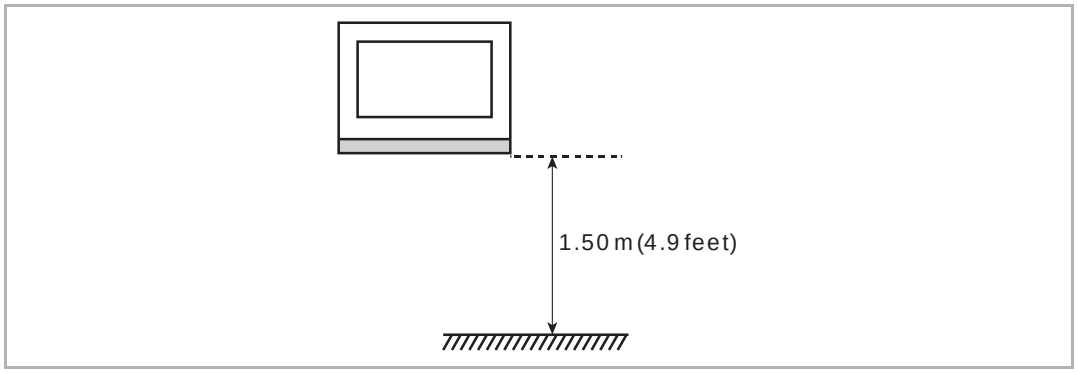
The minimum necessary expert knowledge and requirements for the installation are as follows:

– Apply the "five safety rules" (DIN VDE 0105, EN 50110):
  1. Disconnect
  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.
– Use suitable personal protective clothing.
– Use only suitable tools and measuring devices.
– Check the type of supply network (TN system, IT system, TT system) to secure the following power supply conditions (classic connection to ground, protective grounding, necessary additional measures, etc.).

7.2 Product dimensions



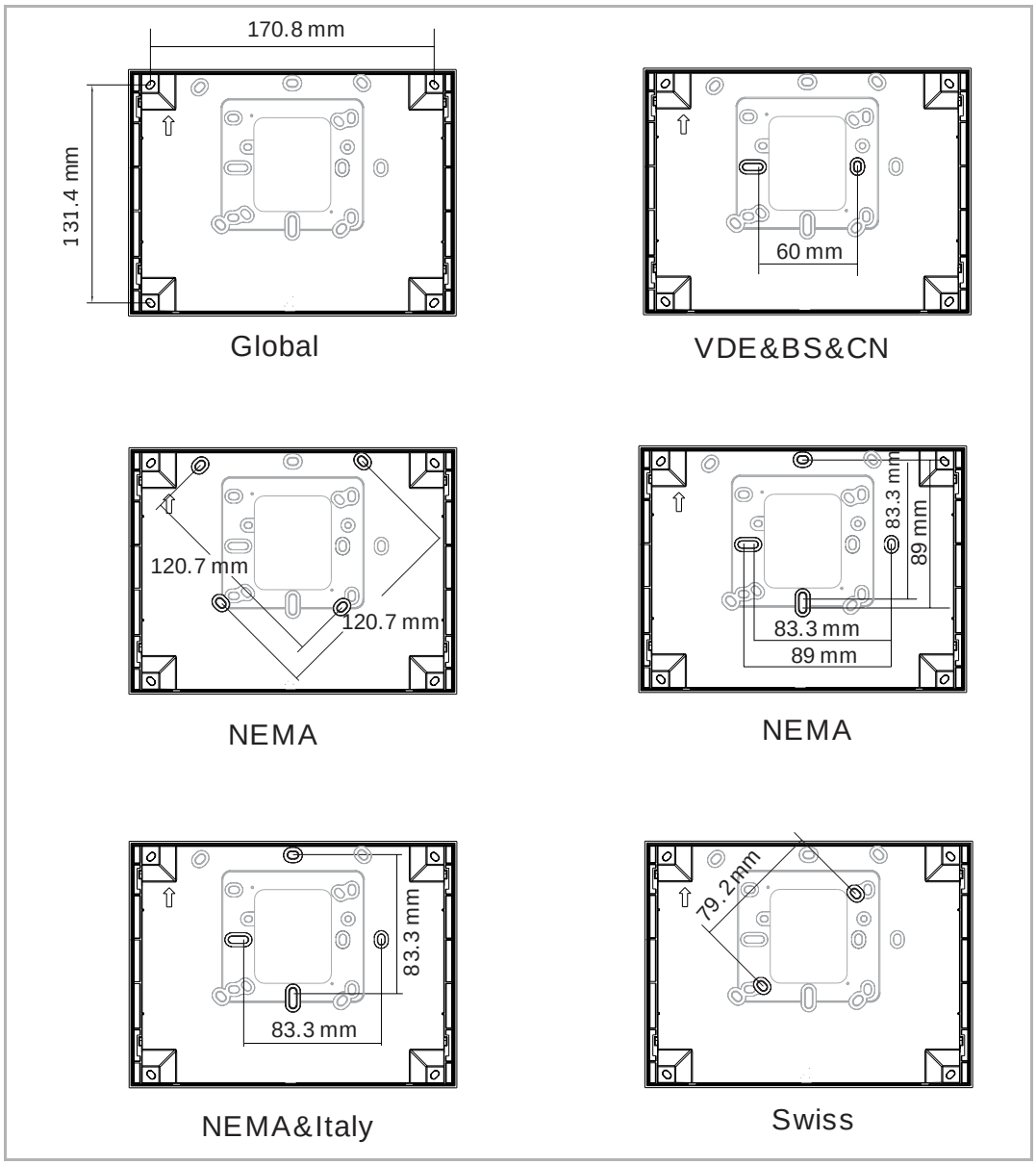
7.3 Installation height



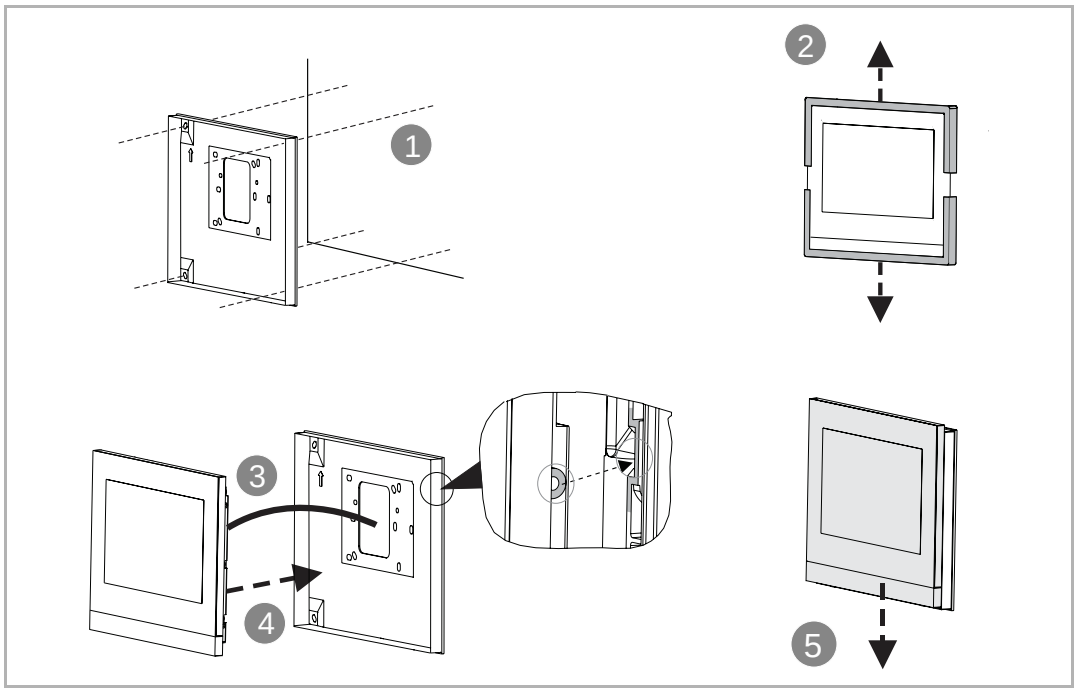
7.4 Surface-mounted installation

This installation method is only suitable for H82361-., H32364-. and H82366-., and is not suitable for H82365-.

Surface-mounted box

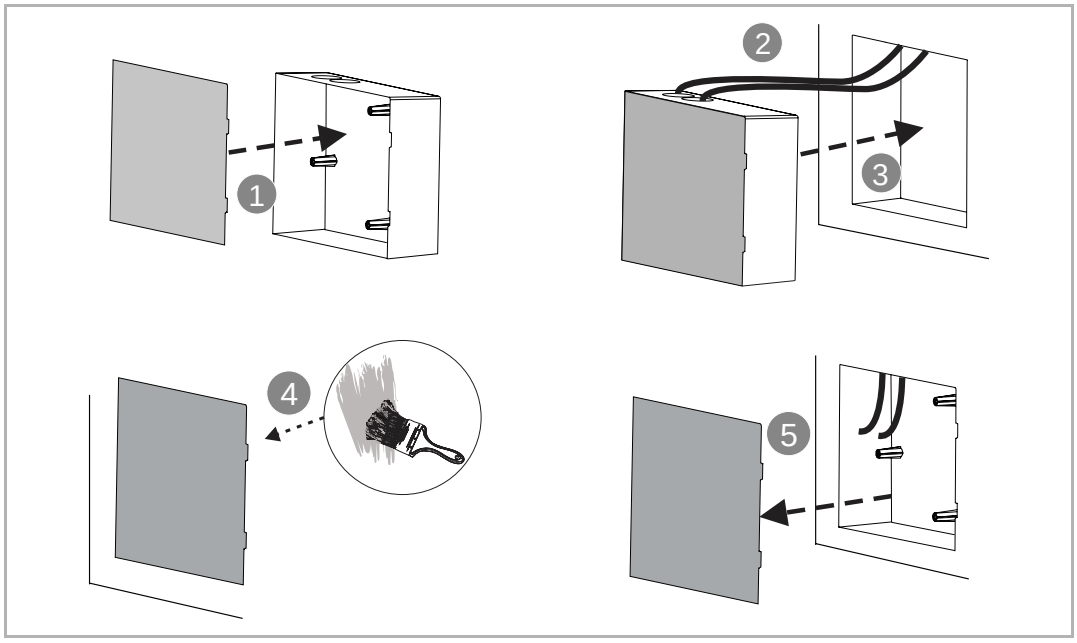


Installation

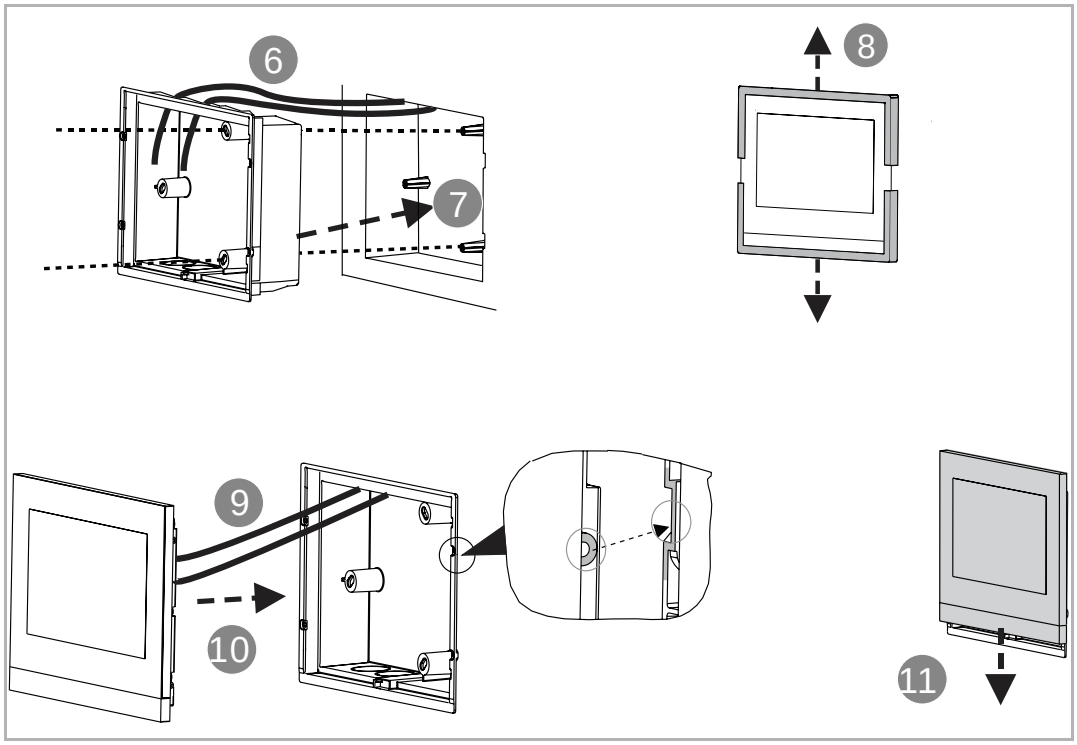


7.5 Flush-mounted installation

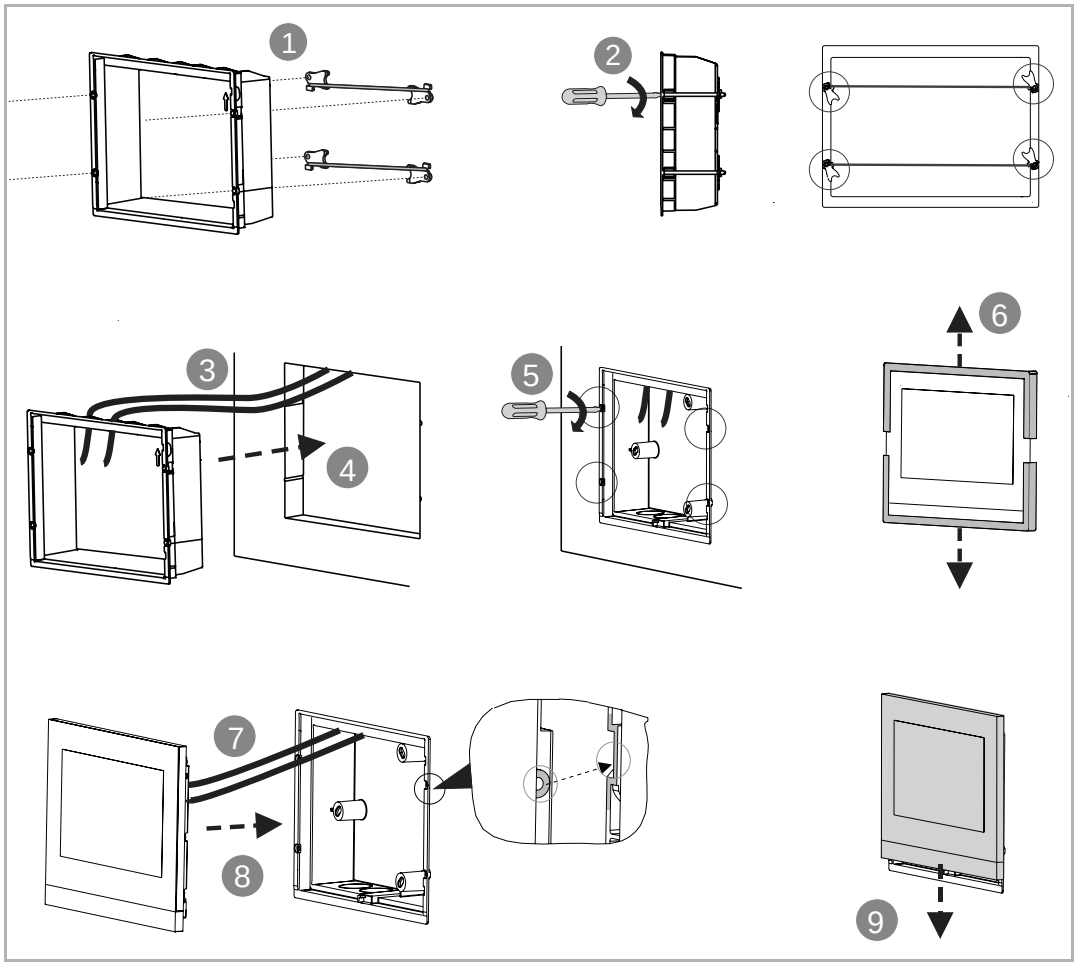
Pre-installation box



Installation

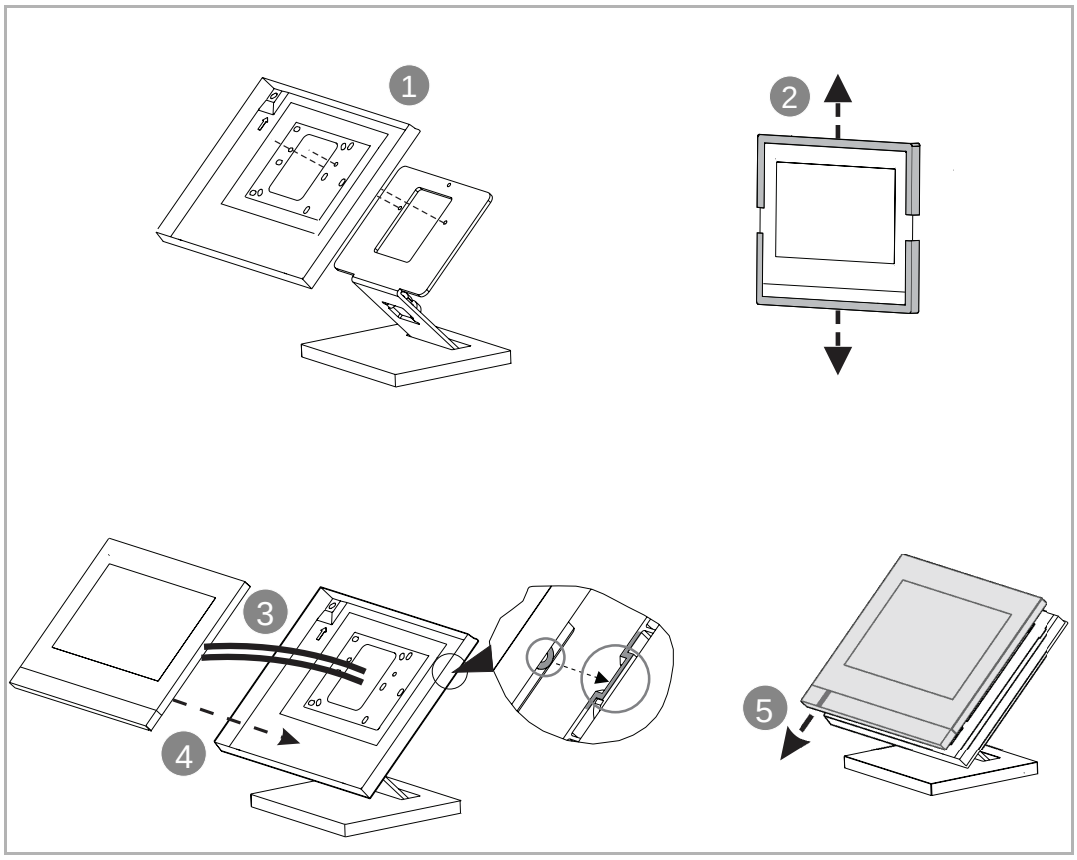


7.6 Cavity wall installation

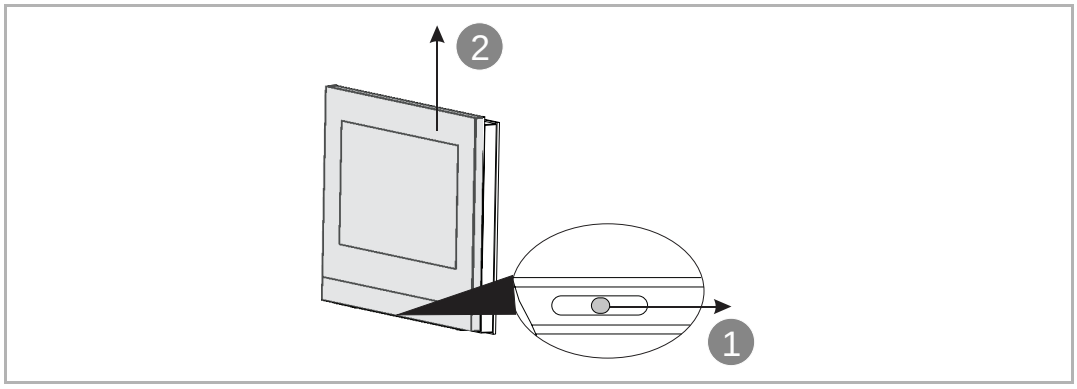


7.7 Desktop installation

This instalation is only fit for H82361-., H32364-. and H82366-., not fit for H82365-.



7.8 Dismantling

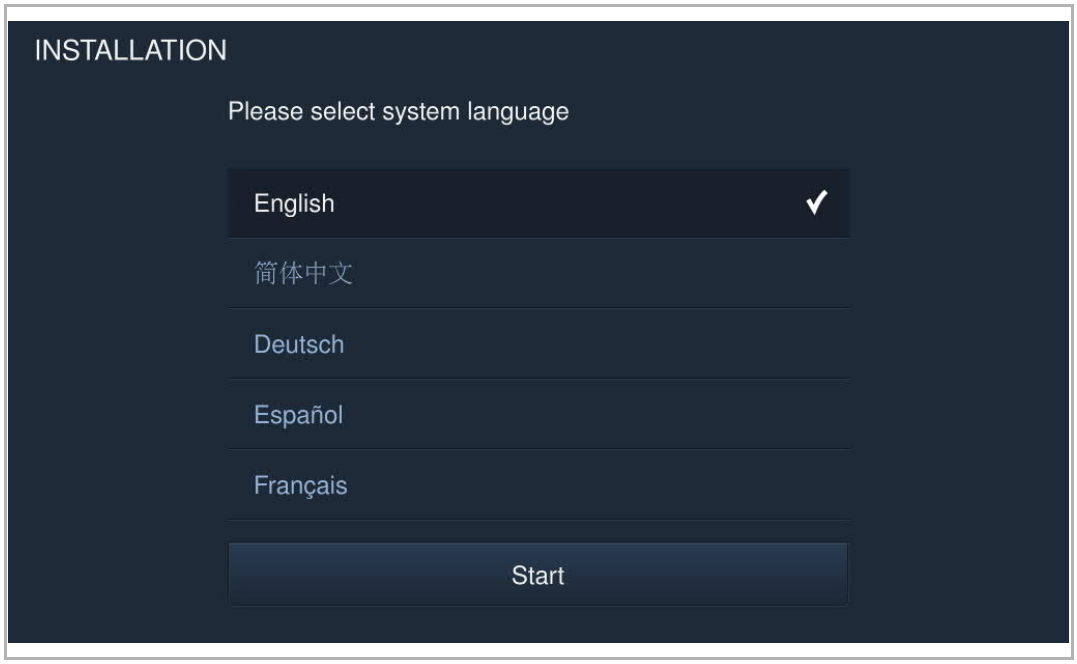


8 Commissioning

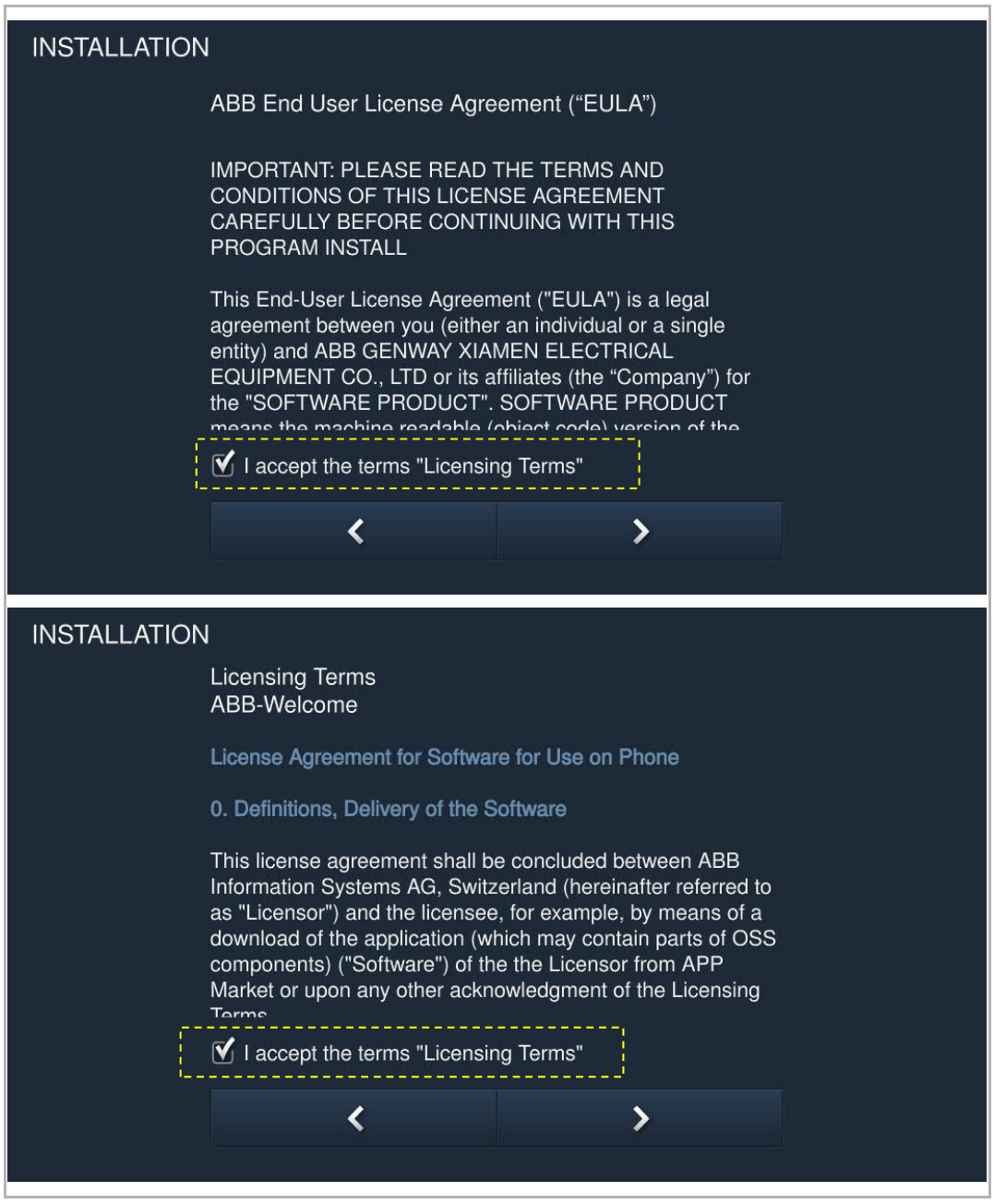
8.1 Initial setup

This indoor station enters initial setup automatically when powered on the first time or "Clear all data" is carried out on the "Engineering settings" screen. Please see the "Clear all data" chapter for more details.

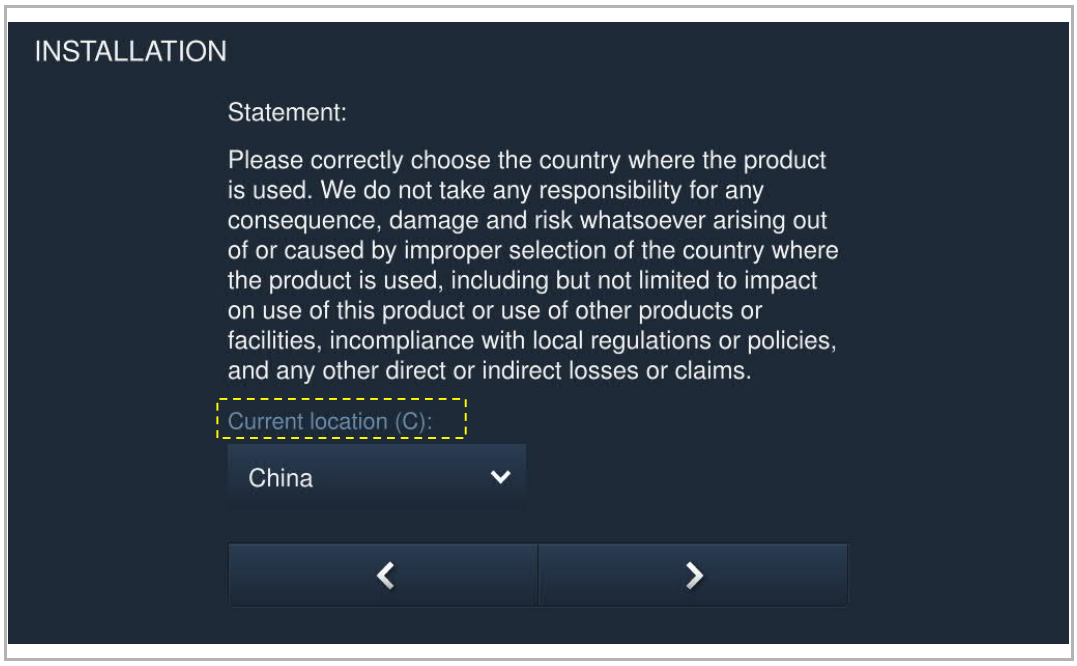
1. Select system language



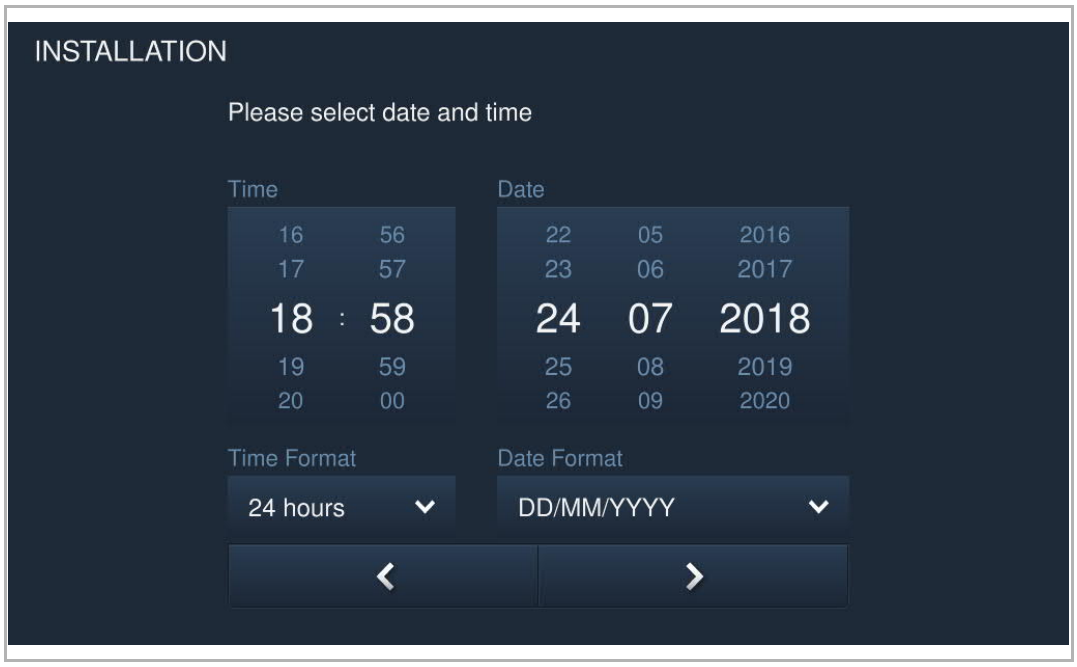
2. Accept licensing terms



3. Select country

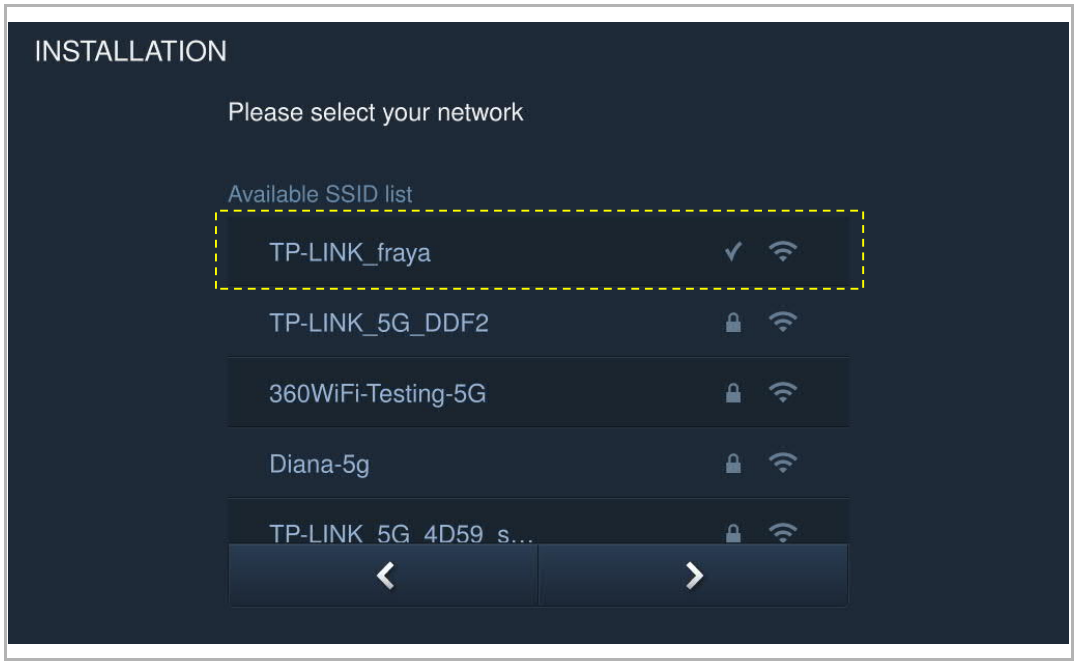


4. Set date and time



5. Set WIFI (H82364-. only)

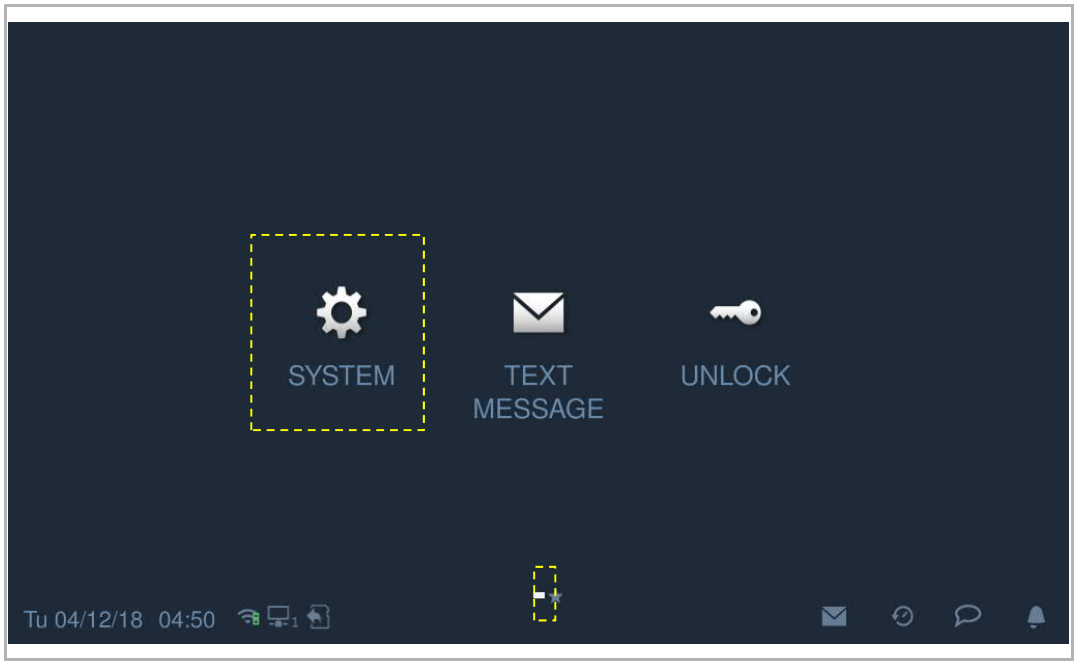
Please see the "Network settings" chapter for more details.



8.2 System settings

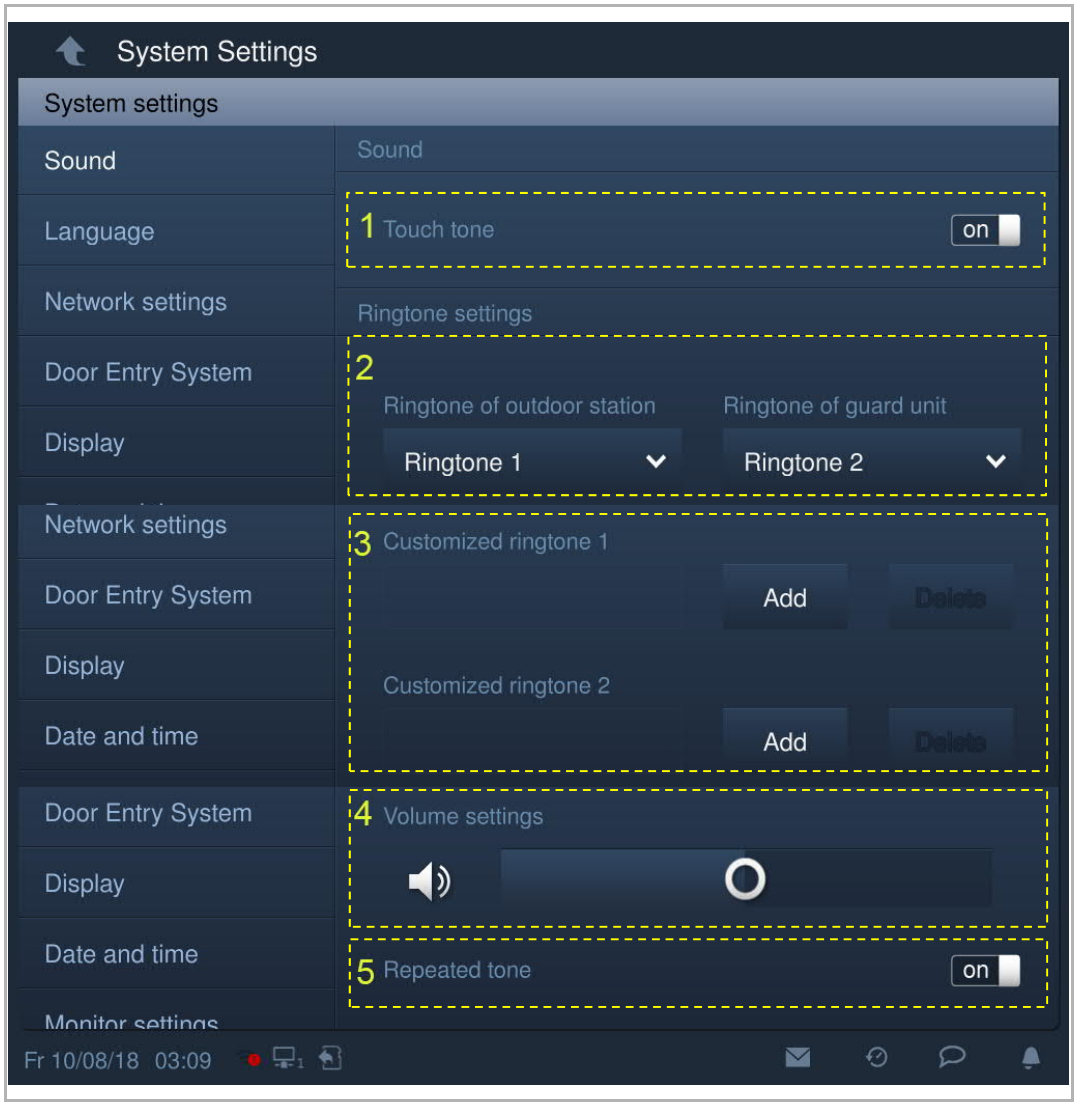
8.2.1 Enter system setting

On the extra screen, click "System" to access the corresponding screen.



8.2.2 Sound

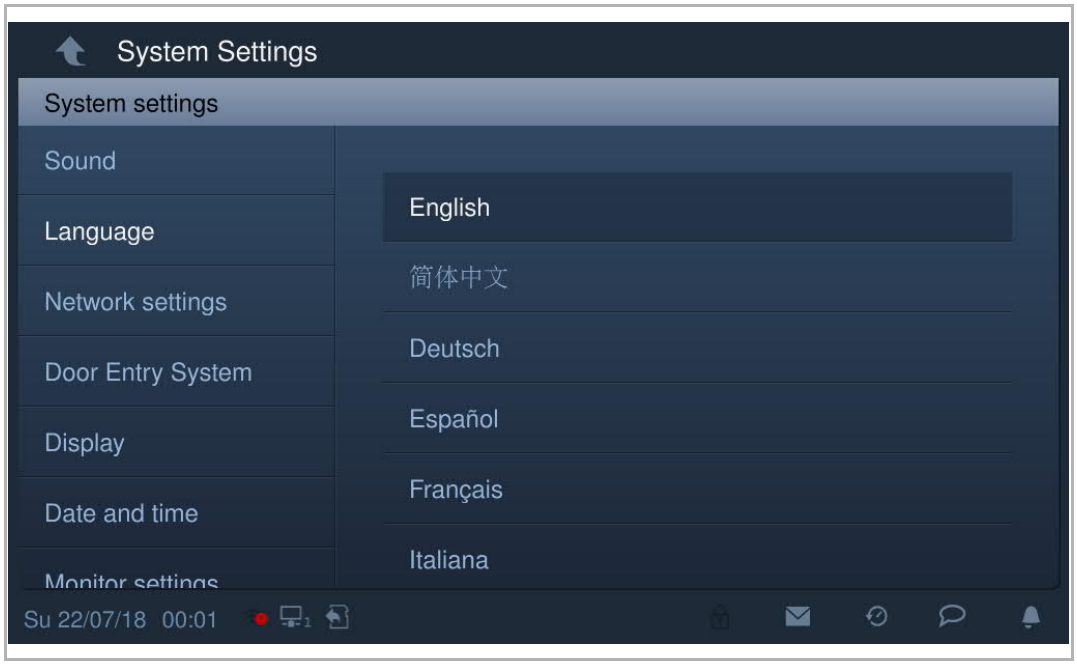
On the "System settings" screen, click "Sound" to enter the sound settings.



No.	Function
1	**Touch tone setting**
2	**Ringtone setting** Click the drop-down list to select the ringtones for outdoor station, indoor stations, guard unit and doorbell (built-in 4 ringtones).
3	**Customized ringtone** A maximum of 3 customised ringtones can be added from an SD card.
4	**Volume settings** Adjust the volume of the ringtone.
5	**Repeated tone setting** ON = repeated ringtone within 30 s, OFF = rings only once

8.2.3 Language

On the "System settings" screen, click "Language" and select the system language.



8.2.4 Network settings

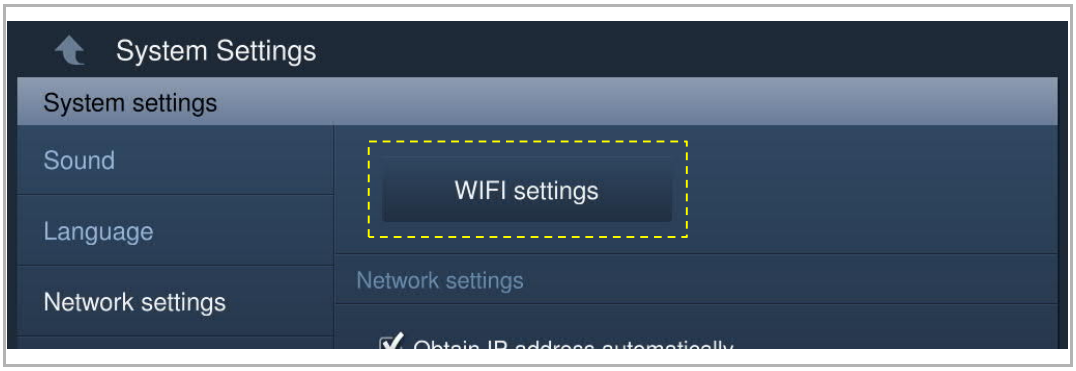
WIFI settings (H82364-. only)

1. Connect WIFI

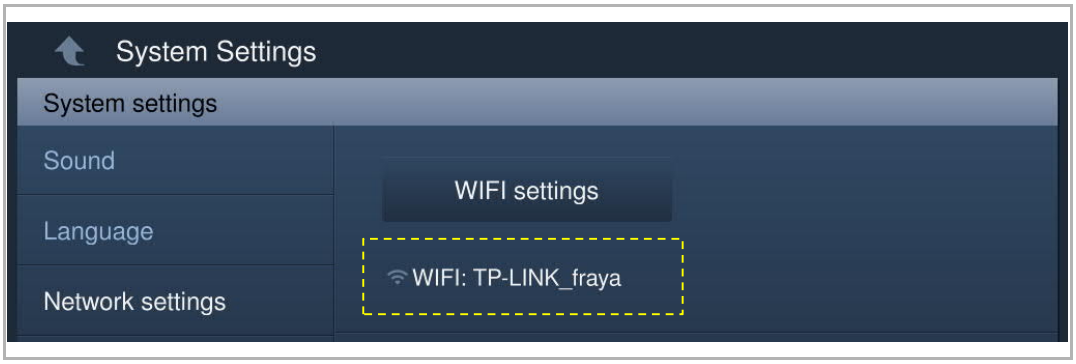
Please ensure the "SSID broadcast" function is used on the router.

On the "System settings" screen, click "Network settings" - "WIFI settings".

The indoor station will obtain an SSID list automatically. Select a WIFI name from the SSID list and enter the password to connect to that WIFI network.



Go back to the "Network settings" screen, and the WIFI name will appear if successful.

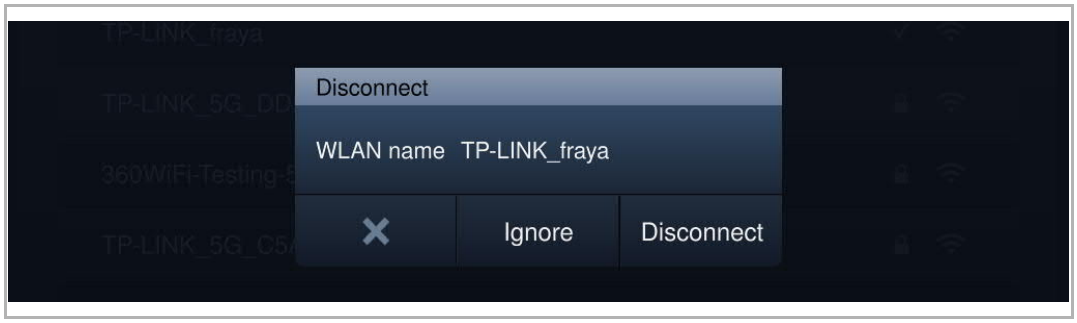


2. Disconnect WIFI

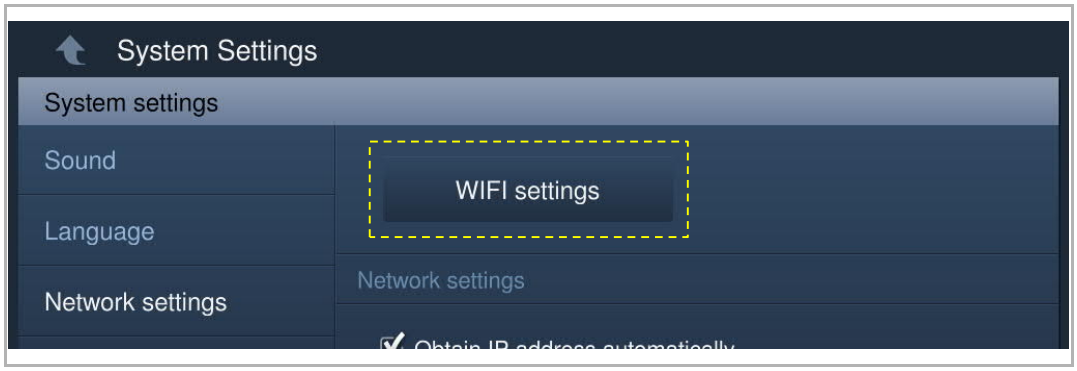
Select the designated WIFI name from the SSID list, click "Ignore" or "Disconnect" to disconnect the WIFI.

Ignore: password needed to reconnect this WIFI.

Disconnect: no password needed to reconnect this WIFI.



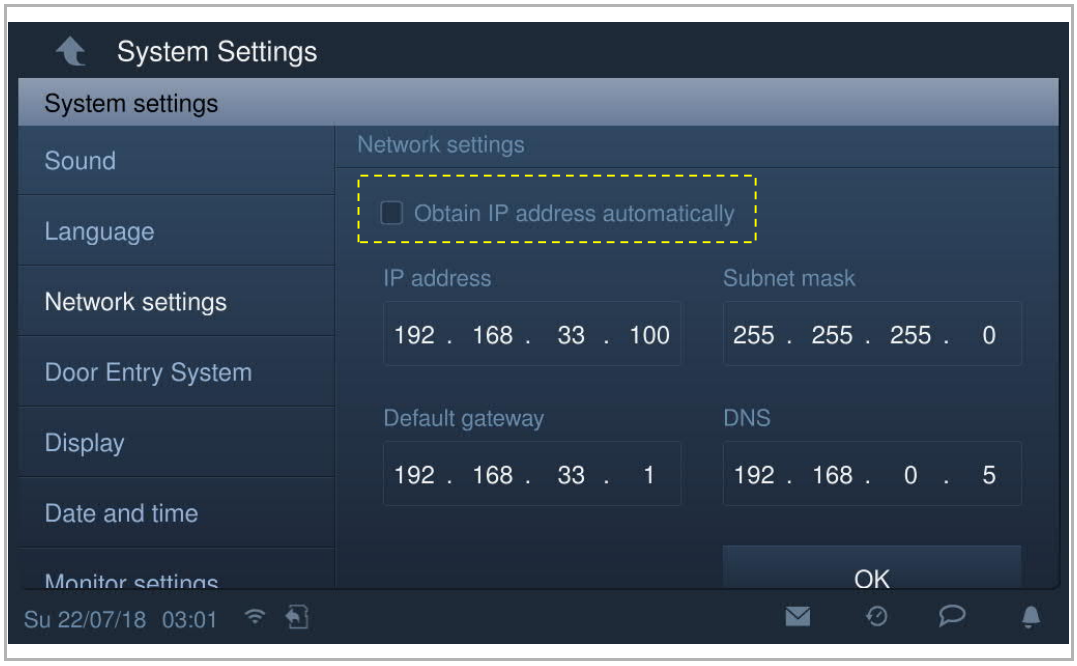
Go back to the "Network settings" screen, the WIFI name will disappear if successful.



IP address setting

The indoor station uses DHCP to obtain an IP address from the router by default.

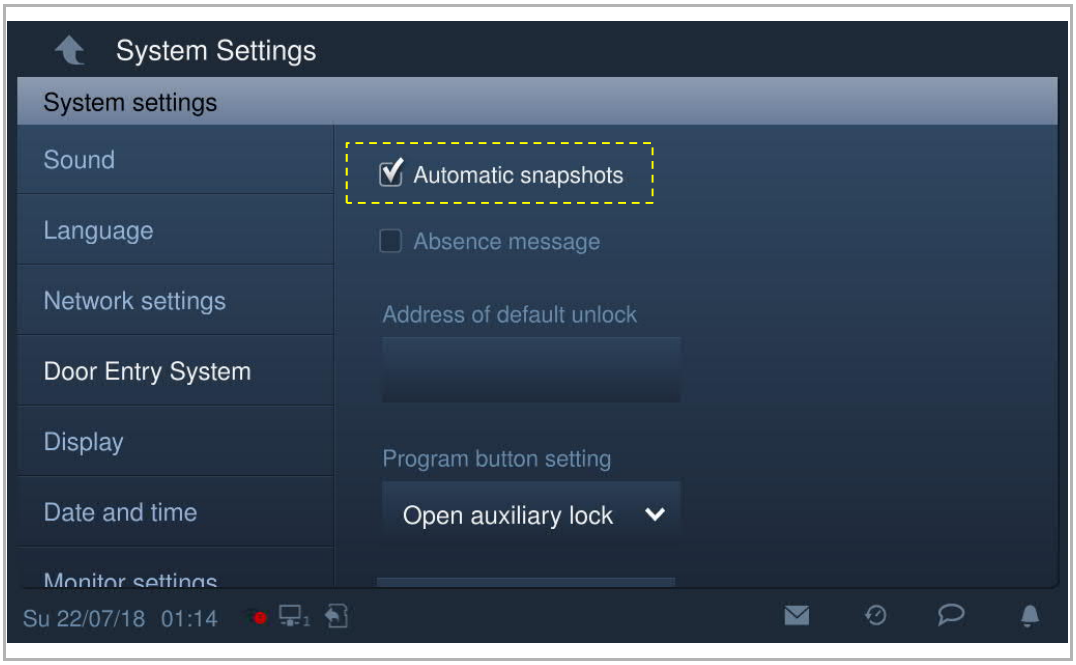
It is also possible to set the IP address by unticking the checkbox (example below).



8.2.5 Automatic snapshot

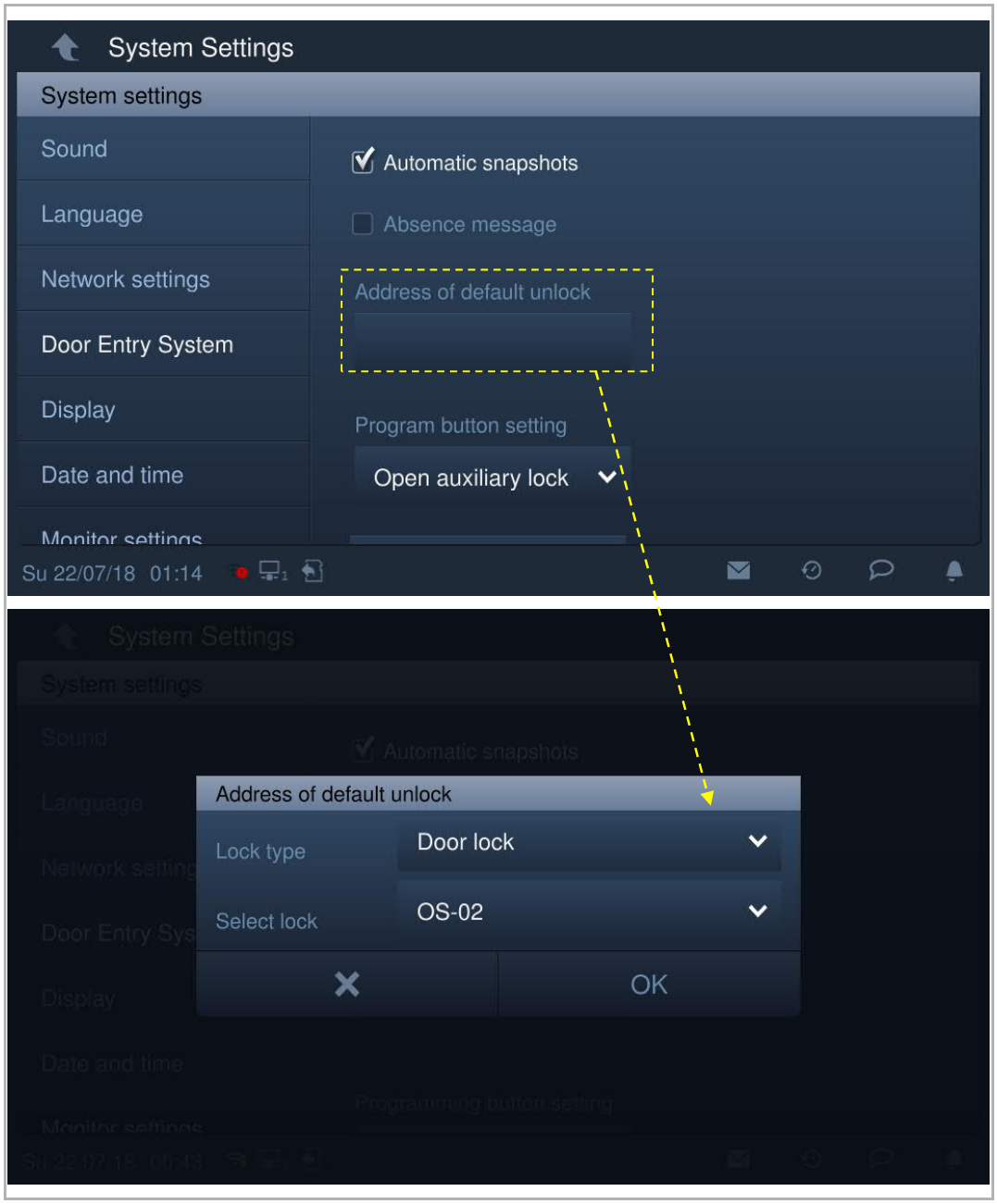
On the "System settings" screen, click "Door Entry System" and tick the "Automatic snapshots" checkbox to enable the function.

The indoor station will take 3 snapshots automatically during an incoming call.



8.2.6 Address of default lock

On the "System settings" screen, click "Door Entry System", "Address of default unlock", and select the lock type (e.g. door lock) followed by the device. (e.g. OS-02). Click "OK" to save the setting.



There will be 2 icons (see below picture) activated on the "Door entry" screen.

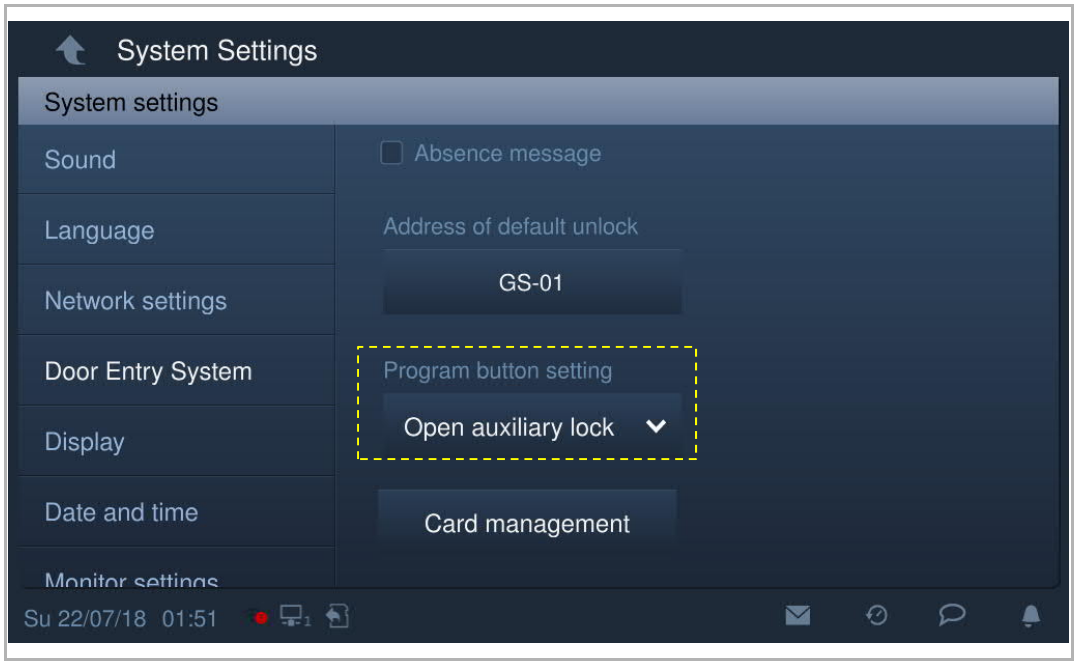
Click the first icon to release the default lock of the outdoor station.

Click the second icon to release the auxiliary lock of the outdoor station by default. The other function can also be set. Please see the "Program button settings" chapter for more details.

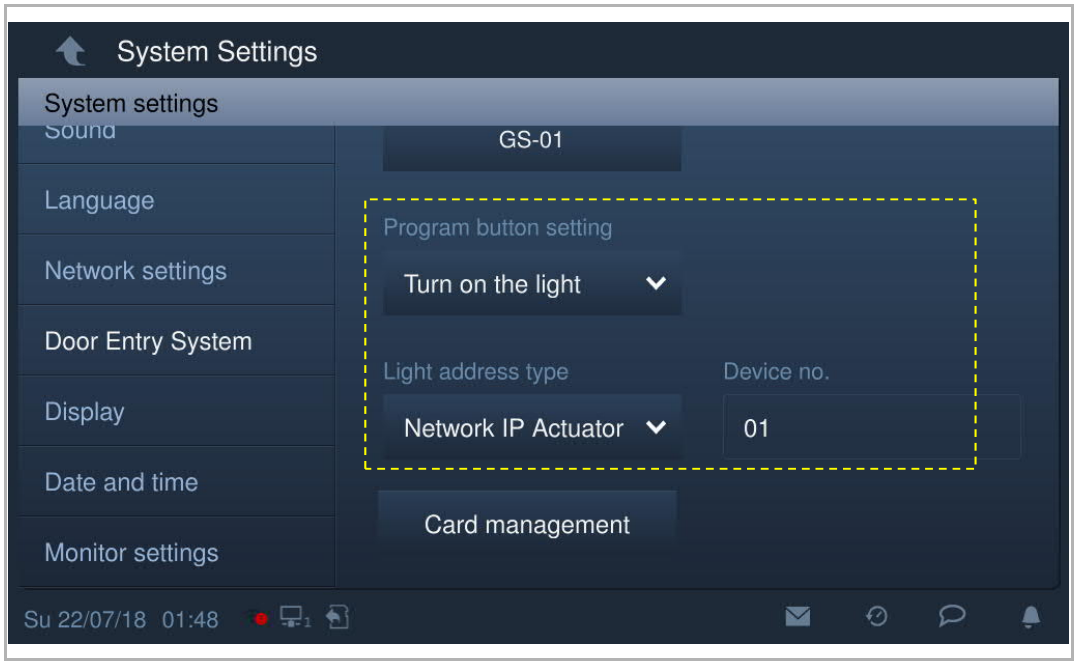
8.2.7 Program button setting

On the "System settings" screen, click "Door Entry System". "Program button setting",

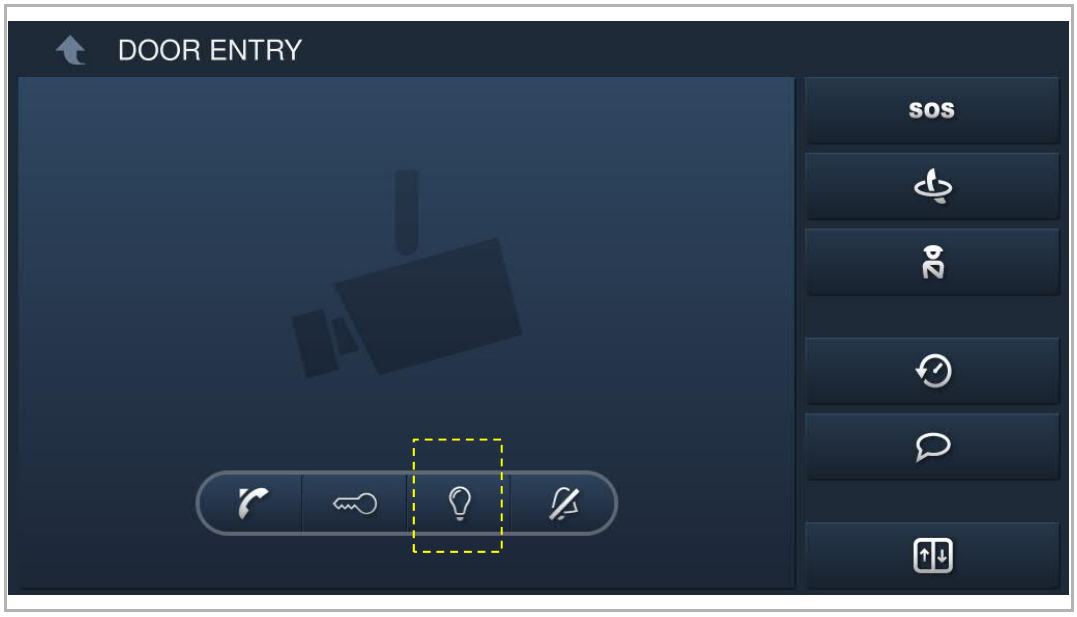
The program button is set to "Open auxiliary lock" by default. The "Program button" function will be disabled if "Invalid" is set.



The program button can be set to "Turn on the light", and you need to select IP actuator type and enter the device no.



On the "Door entry" screen, a light icon will be displayed. Click this icon to turn on IP actuator light.

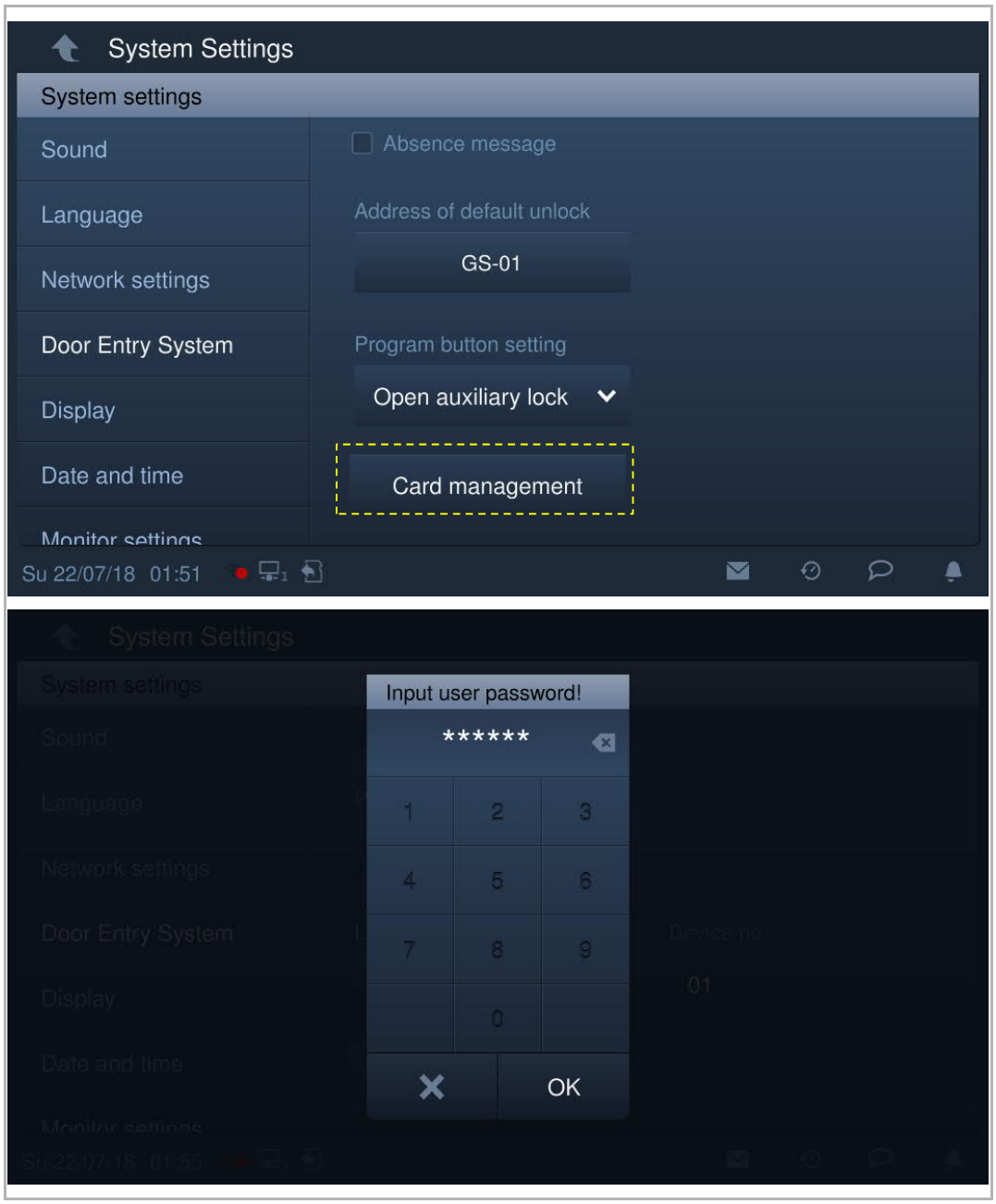


8.2.8 Card management

This indoor station can manage IC cards for IP pushbutton outdoor station.

Note
It is recommended that IC cards are created and maintained using local outdoor stations or management software only.

On the "System settings" screen, click "Door Entry System", "Card management", and enter the user password (the system default is 123456) to access the corresponding screen.

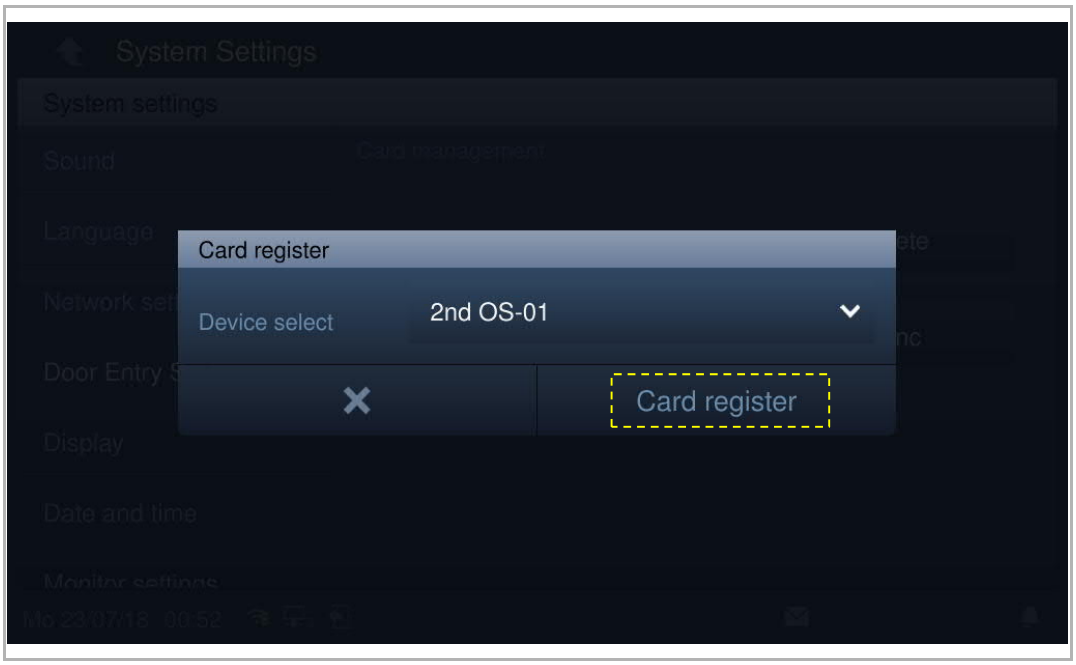


Card register

1. Enter registering mode

On the "Card management" screen, click "Card register", select the device and then click "Card register".

The pushbutton module on the outdoor station will flash orange as a prompt to swipe an IC card.



2. Exit registration mode

Press the first button on the outdoor station to exit registration mode.

If an IC card has been registered, the outdoor station will exit registration mode automatically if no operations are carried out within 15 s.

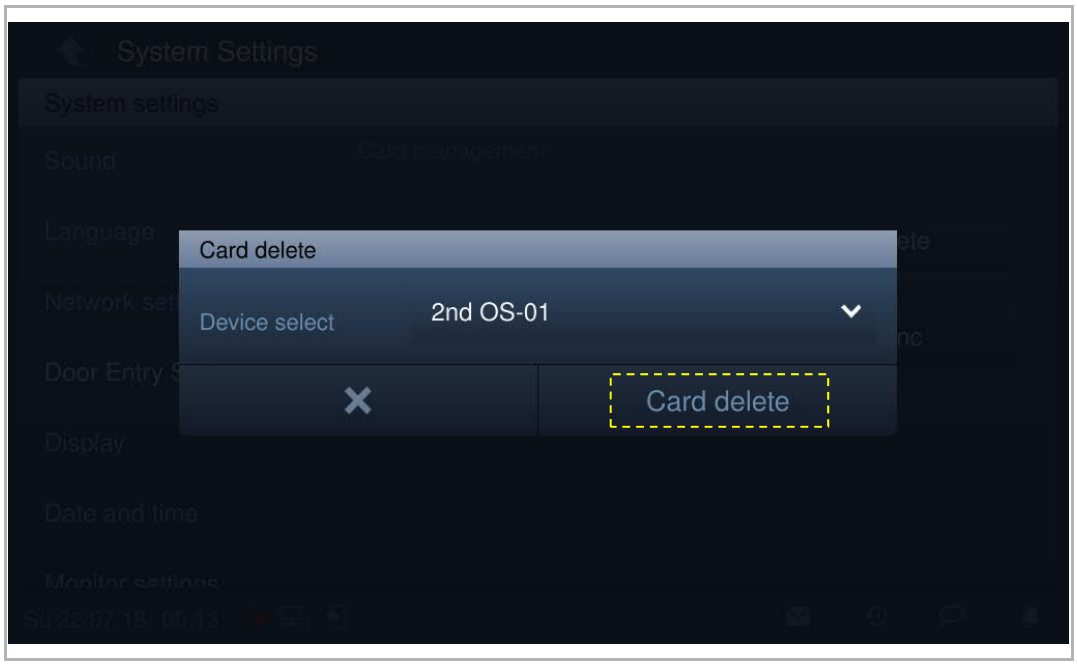
If no IC card has been registered, the outdoor station will exit registration mode automatically if no operations are carried out within 300 s.

Card delete

1. Entering delete mode

On the "Card management" screen, click "Card delete", select the device and then click "Card delete".

The pushbutton module on the outdoor station will flash orange as a prompt to swipe an IC card.



2. Exiting delete mode

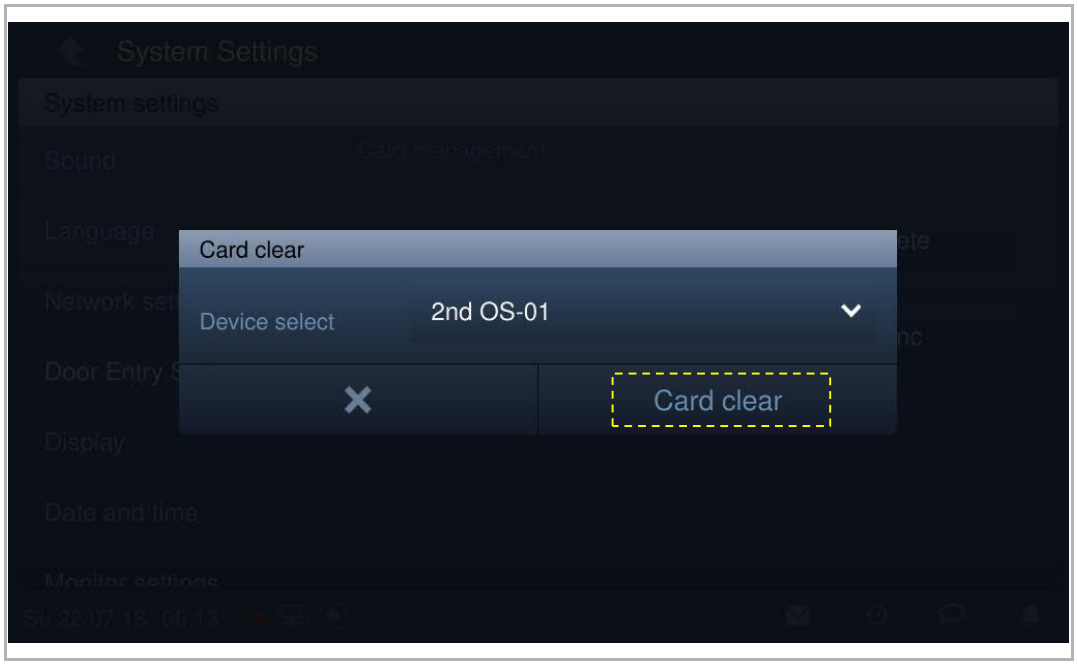
Press the first button on the outdoor station to exit delete mode.

If an IC card has been deleted, the outdoor station will exit delete mode automatically if no operations are carried out within 15 s.

If no IC card has been deleted, the outdoor station will exit delete mode automatically if no operations are carried out within 300 s.

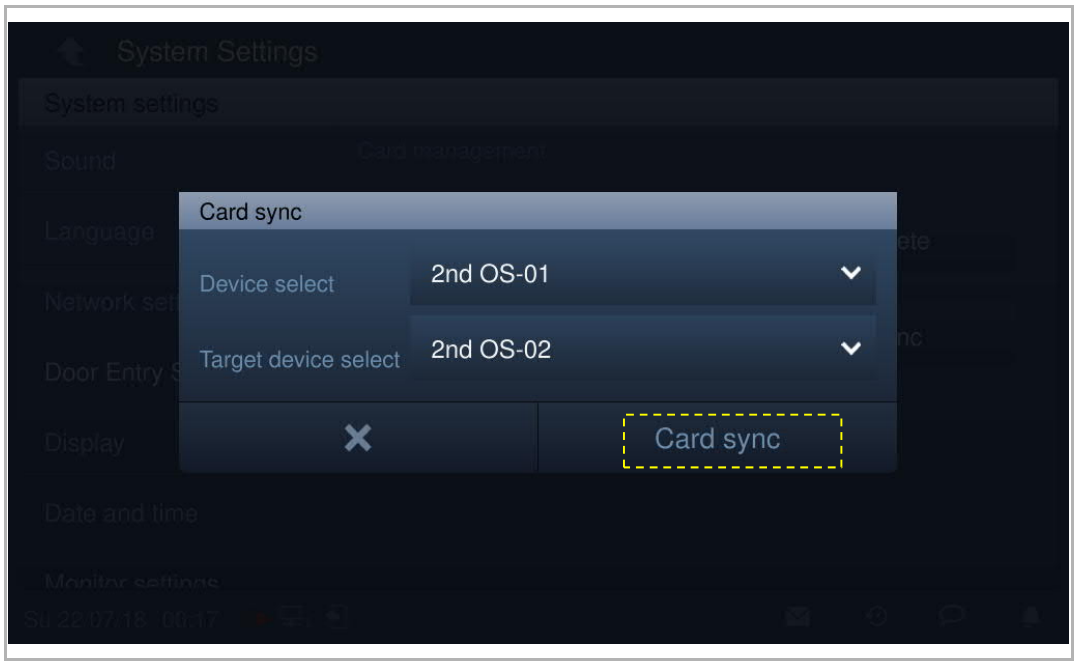
Card clear

On the "Card management" screen, click "Card clear", select the device and click "Card clear".



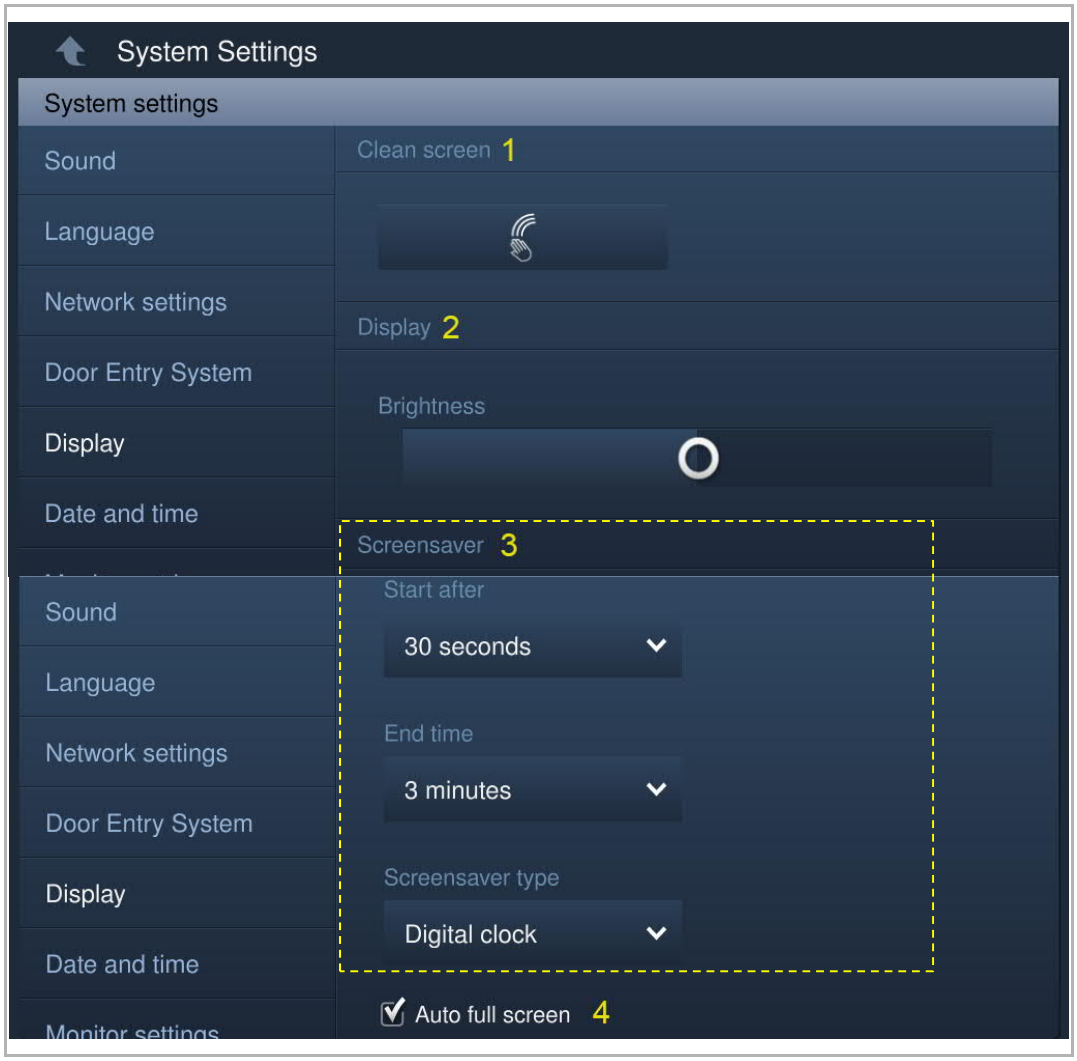
Card sync

On the "Card management" screen, click "Card sync", select a source device and a target device, then click "Card sync".



8.2.9 Display

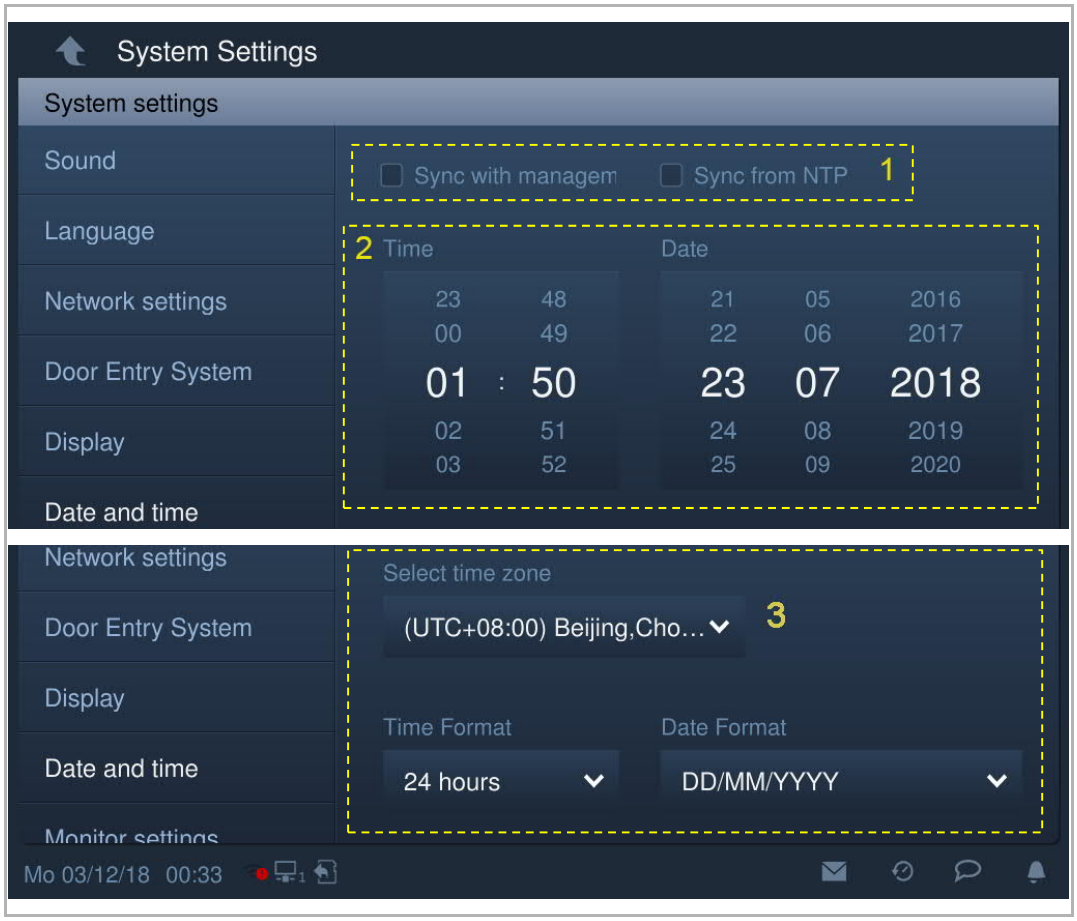
On the "System settings" screen, click "Display" to access the corresponding screen.



No.	Function
1	**Clean screen** Please see the "Clean screen" chapter for more details.
2	**Brightness**
3	**Screensaver** ▪ "Digital clock": displays the current time at a random position on the screen. ▪ "Built-in picture": displays 3 built-in pictures. ▪ "External picture": displays pictures stored on the SD card.
4	**Auto full screen (default)**

8.2.10 Date and time

On the "System settings" screen, click "Date and time" to access the corresponding screen.



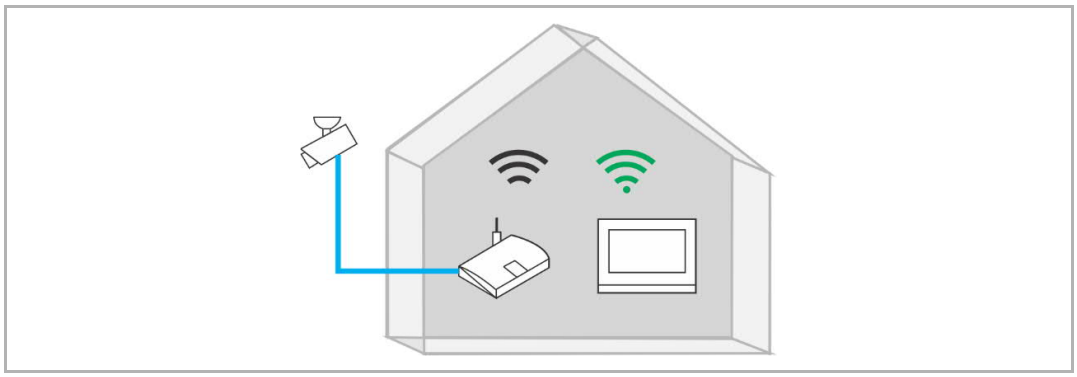
No.	Function
1	**Sync time type** Tick the checkbox to sync date and time from the management software or from NTP automatically.
2	**Time and date setting**
3	**Set time zone** If you don’t sync date and time from management software or from NTP. You need to set time zone before use.

8.2.11 Monitor settings

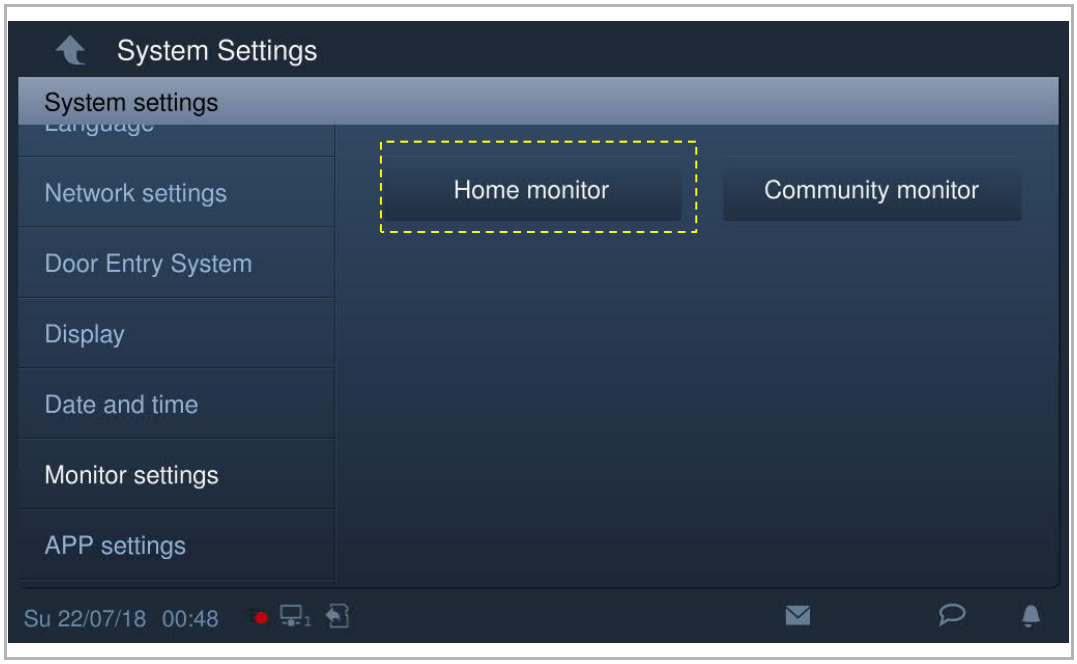
1. Home monitor

The indoor station and the camera must be on the same network.

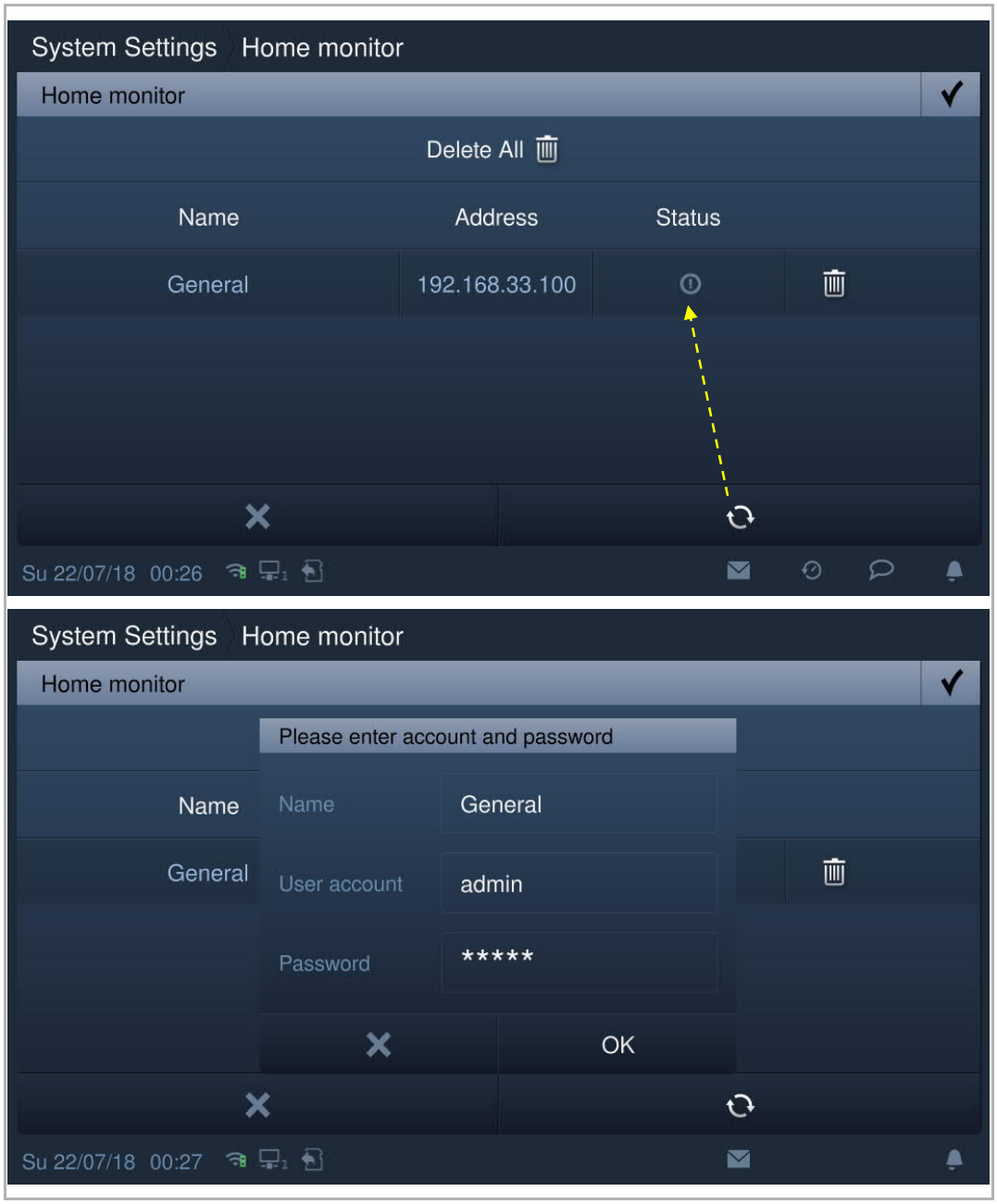
Note
Video streaming between the indoor station and the 3rd party camera is unencrypted.



On the "System settings" screen, click "Monitor settings", "Home monitor", then click to access the corresponding screen.

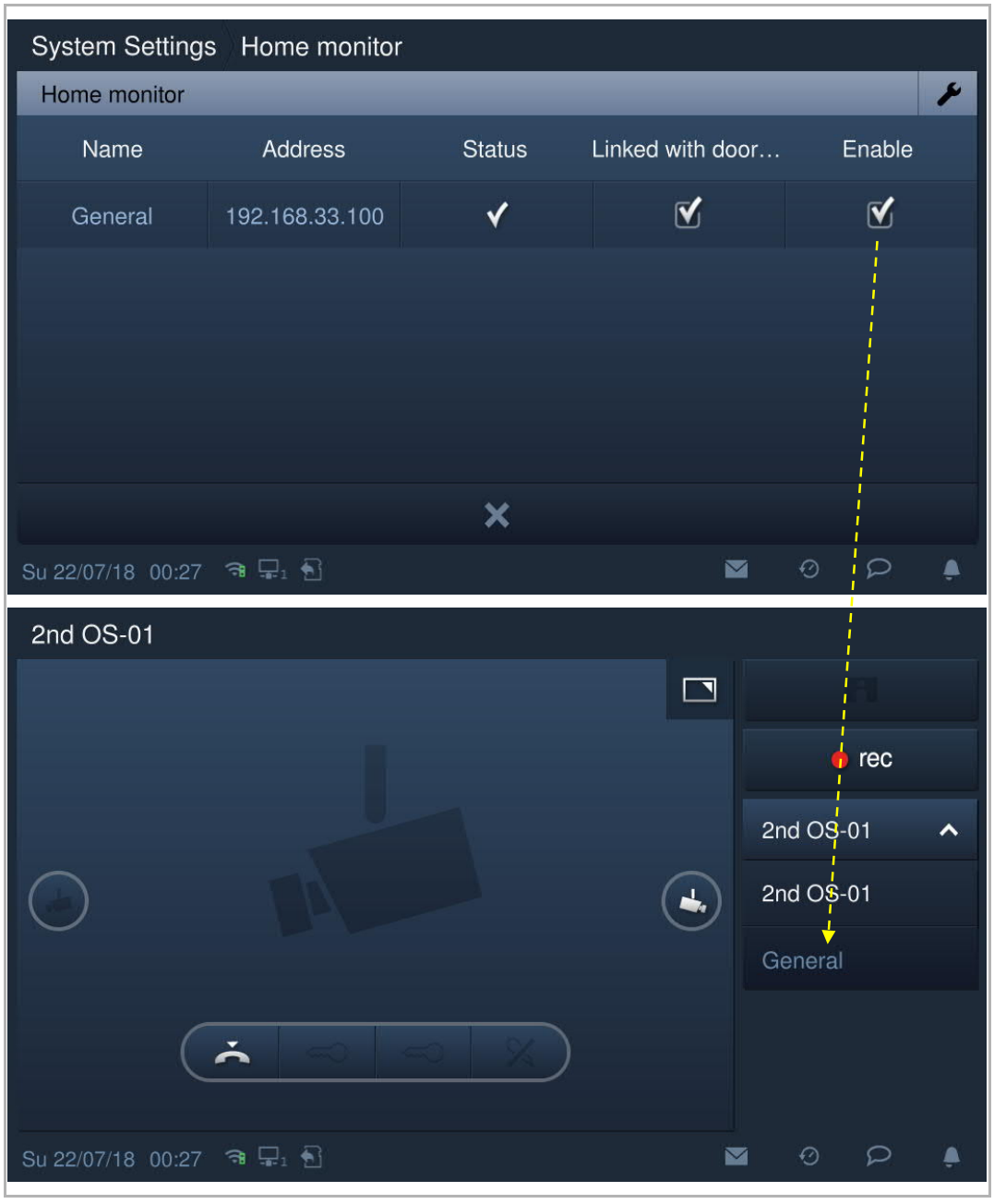


Click to search the IP-Cams and create a camera list automatically. Select a camera from the camera list and click . Enter the name, user account and password, then click "OK".



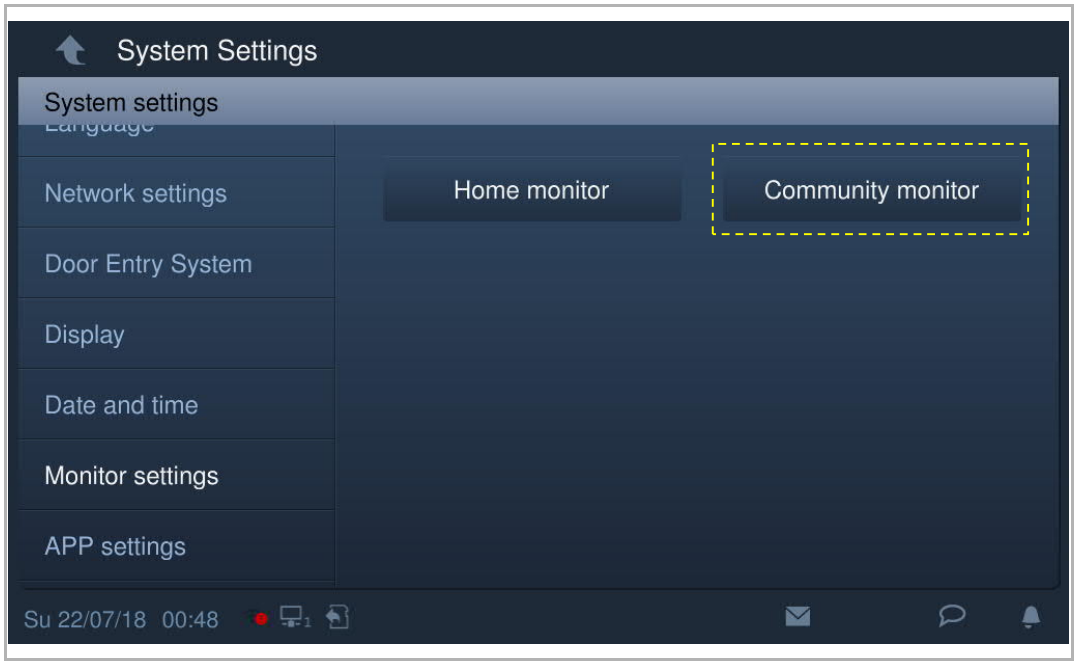
On the "Home monitor" screen, tick "Enable" to enable the function.

With this setting, the register IP-Cam can be selected from the drop-down list on the "Door entry" screen.

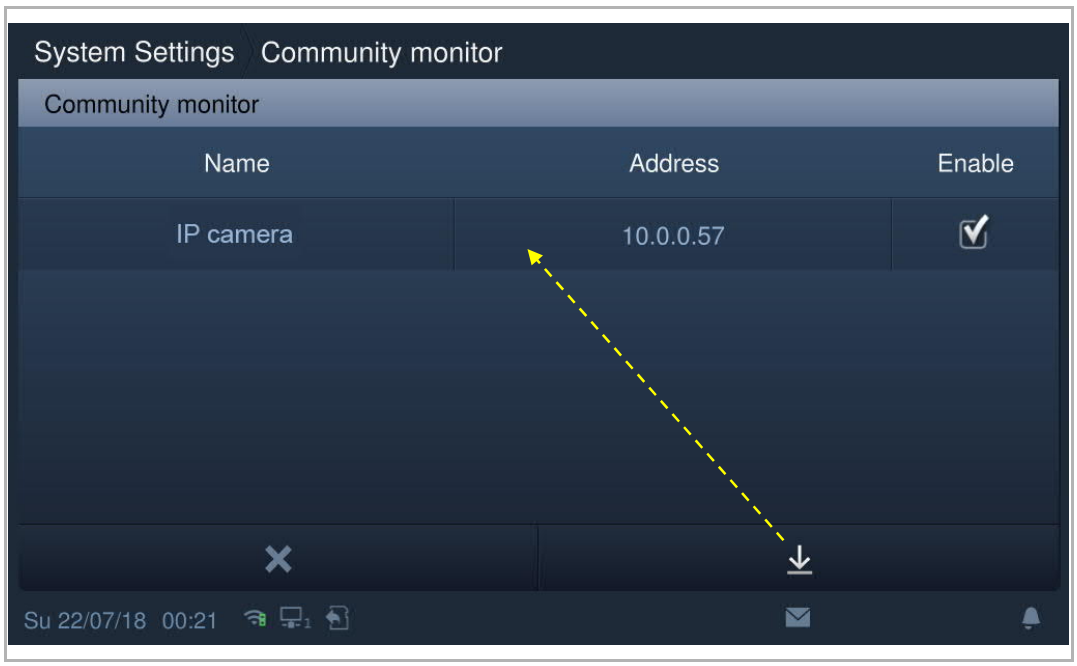


2. Community monitor

On the "System settings" screen, click "Monitor settings", "Community monitor" to access the corresponding screen.



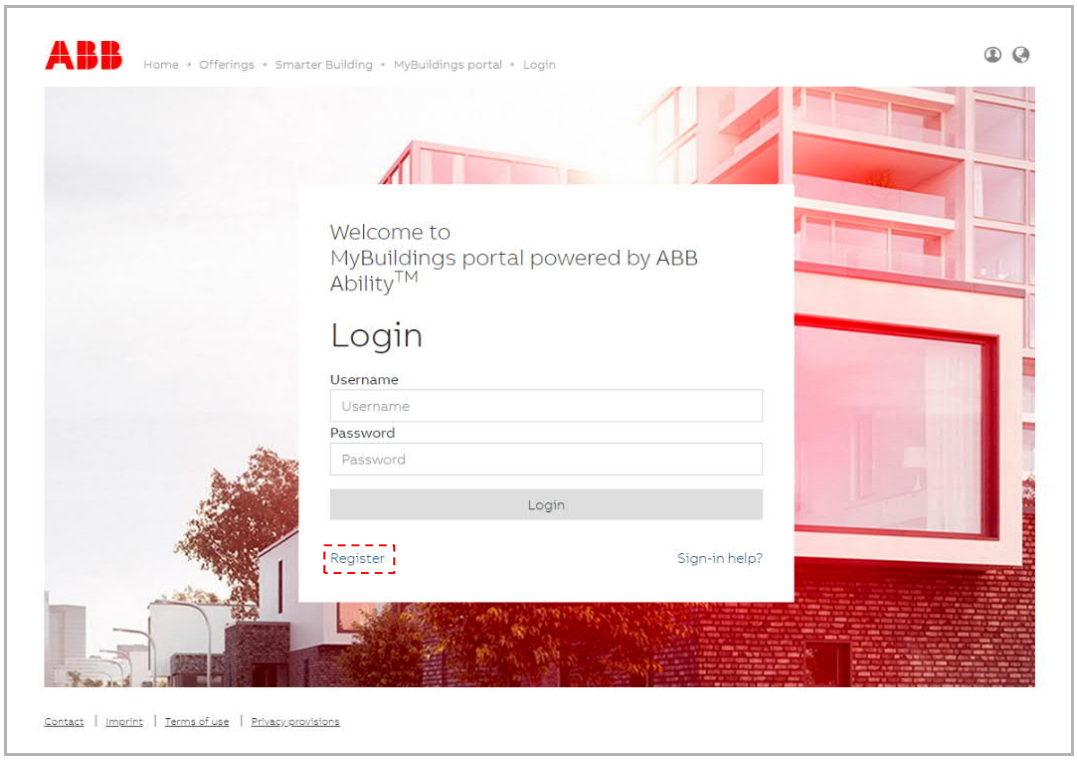
Click to download the camera list from the management software.



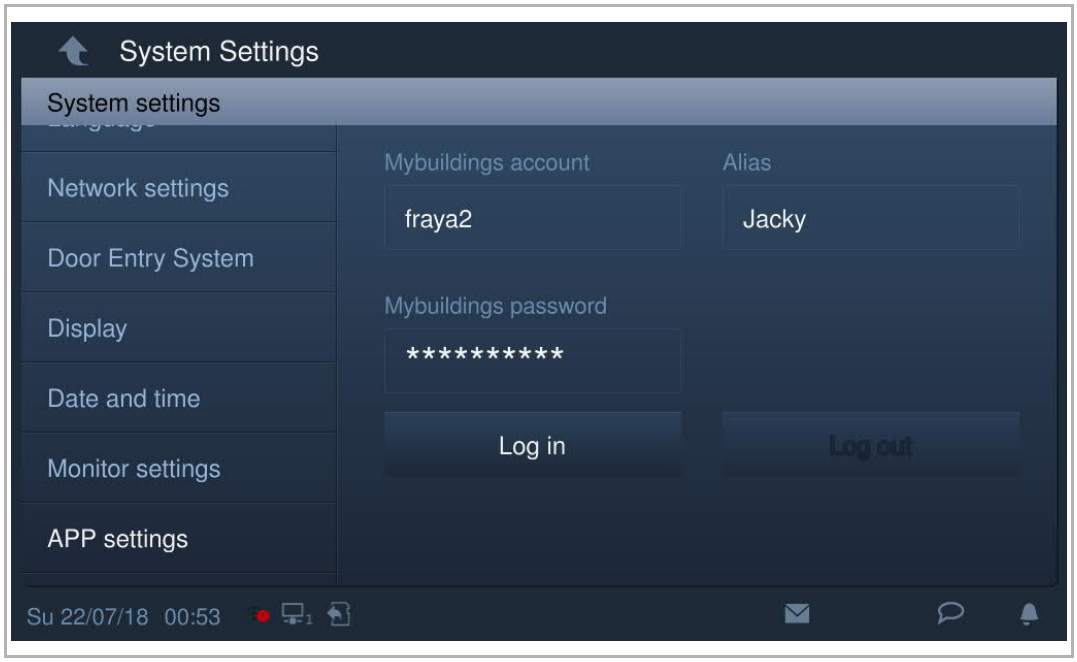
8.2.12 APP settings

1. Registering an account on the MyBuildings portal

Access the link: https://mybuildings.abb.com, and click "Register". Fill in the form as required to register an account. Then activate the user account when you receive the email sent from the MyBuilding portal.



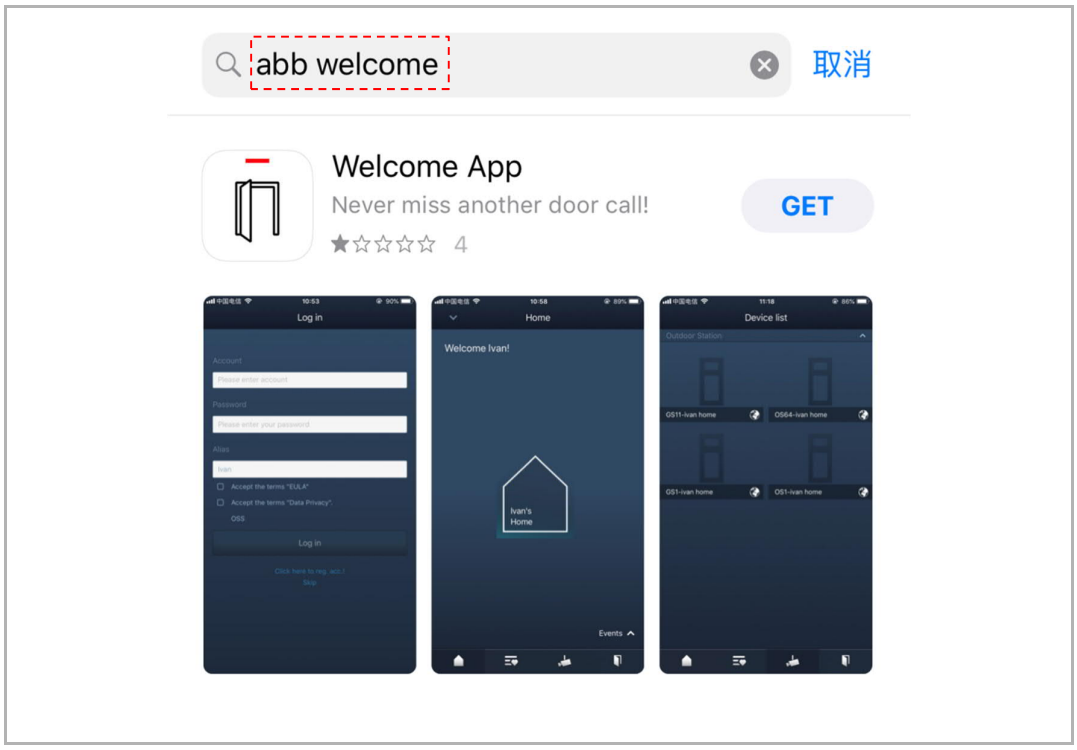
2. Logging into the MyBuildings portal on the indoor station



3. Downloading and installing the APP

Download the APP from Google Play or the APP Store via the keyword "ABB Welcome". Then install the relevant APP on mobile or tablet.

Note
The following snapshots used in this document were taken on the IOS system.

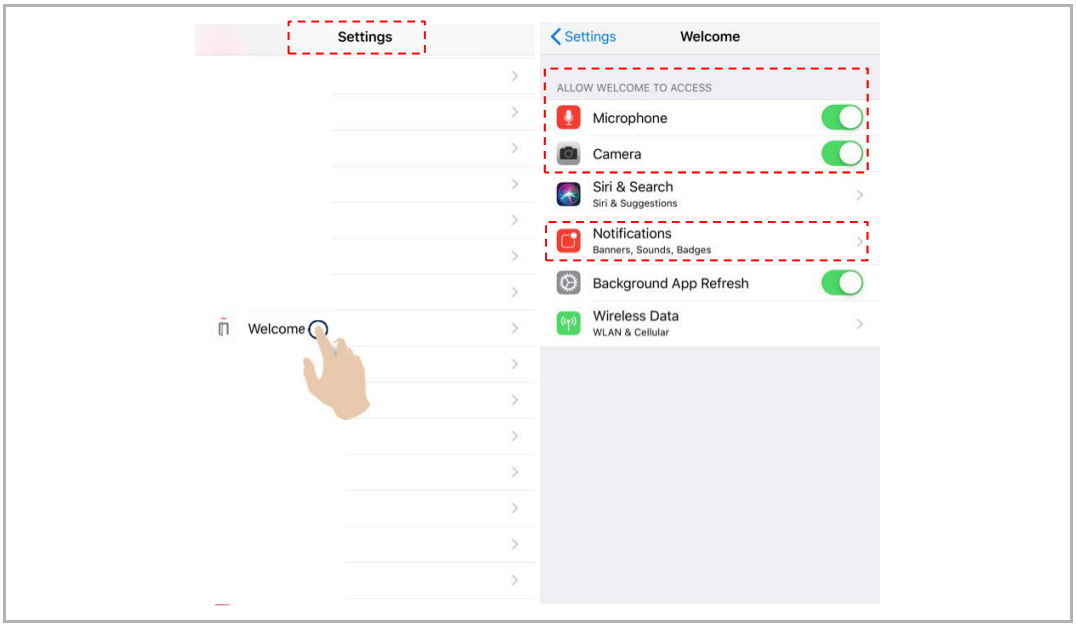


On the mobile/tablet, click to open the APP.

Note
It is recommended to accept the permissions of the microphone, camera and notification for further use.

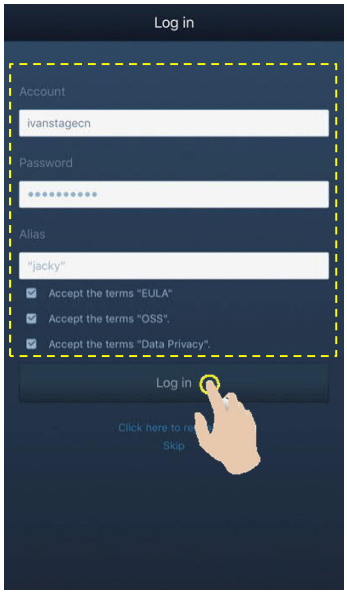
If you do not grant the permissions, you will be able to add them later on.

For example, click " " to access the settings screen on the mobile, swipe the screen down and then click to accept the permissions.



4. Logging into the app

On the mobile phone/tablet, click to open the app, enter the user name, password and alias, tick the checkboxes to accept all the terms and conditions, then click "Log in".

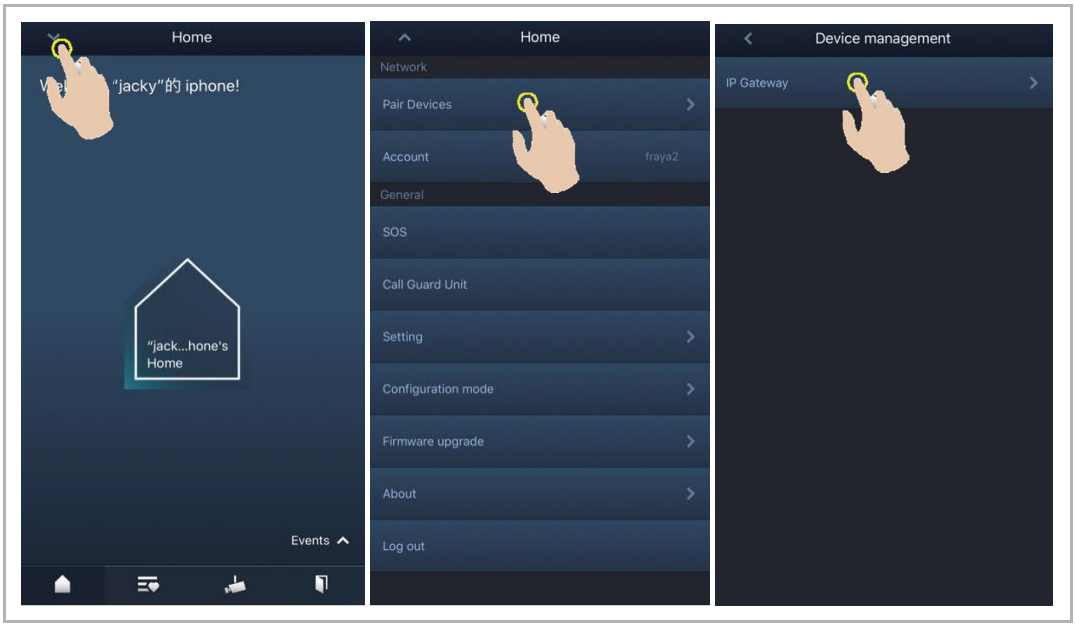


Note

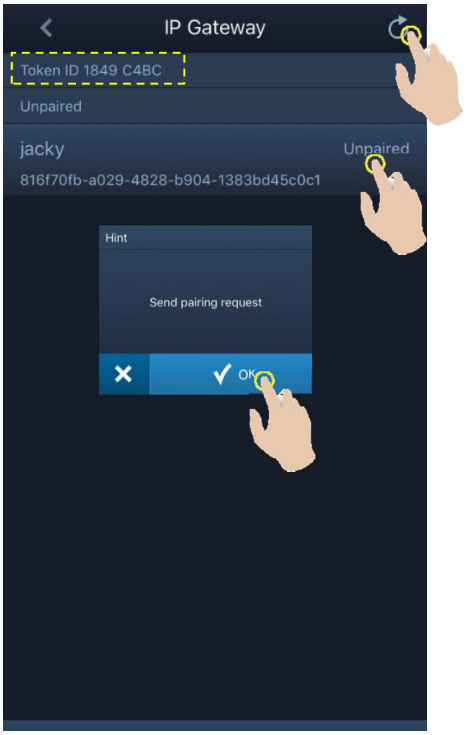
If an incorrect password is entered more than 3 times, no further attempts are permitted within certain period of time.

5. Pairing the devices

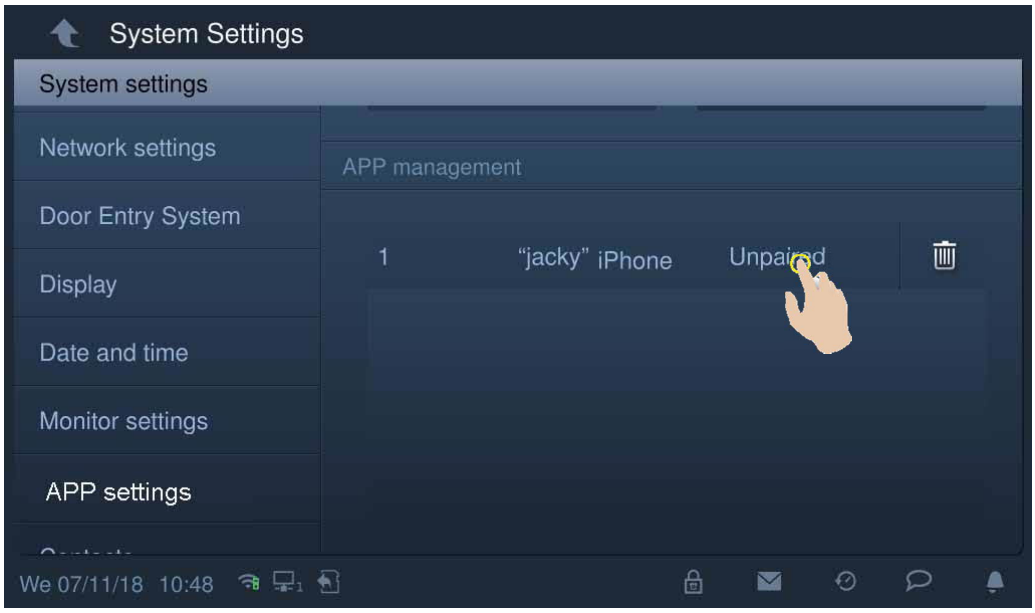
On the APP "Home" screen, tap "∨", followed by "Pair devices", "IP gateway".

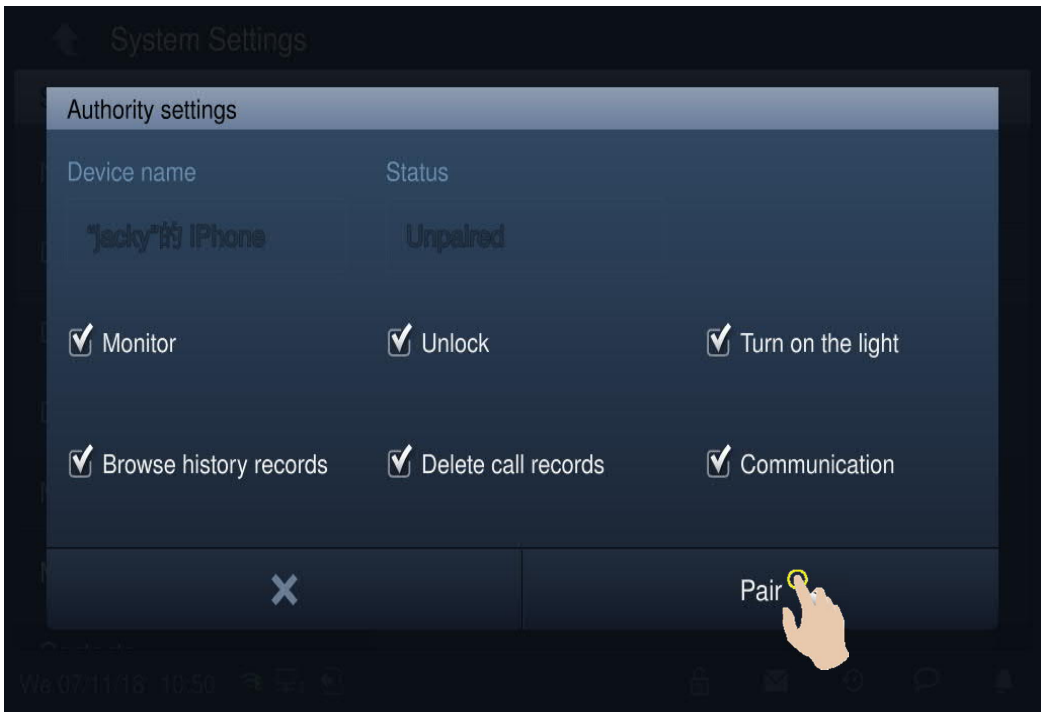


Then tap to call up the device list, and select the alias, click "OK" to send a pairing request to the indoor station. Please write down the token ID (e.g. 1849C4BC in this case).

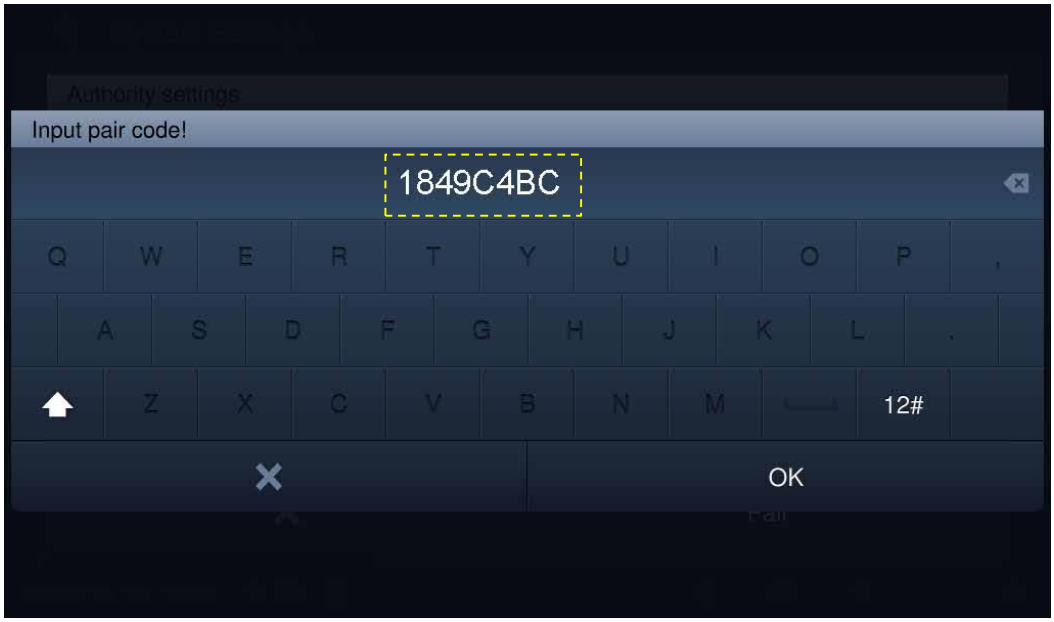


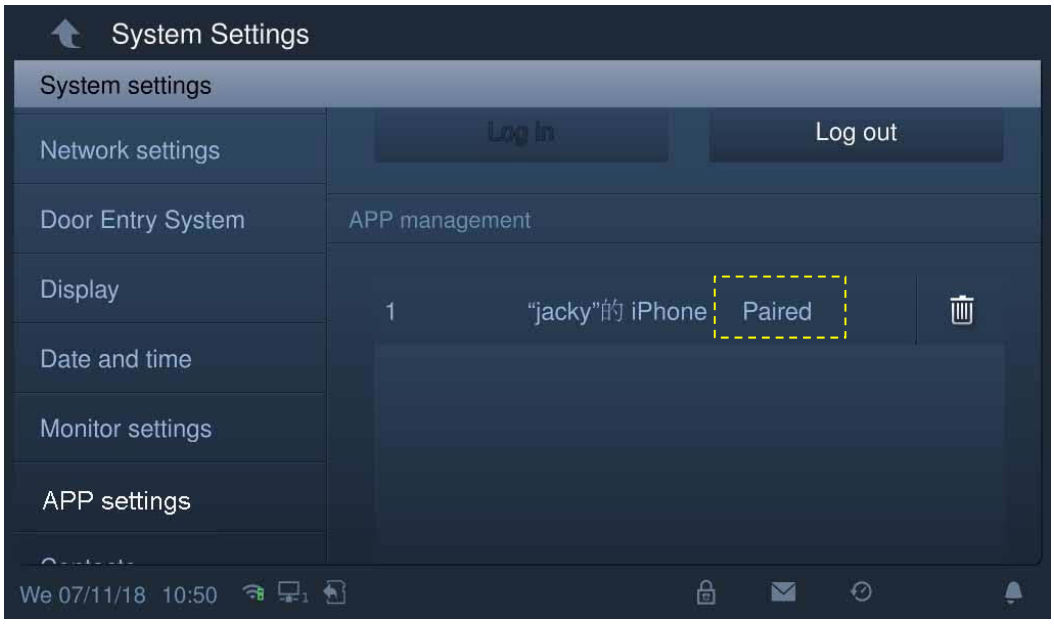
On the "System settings", "APP settings" screen of the indoor station, click "Unpaired", select the relevant functions in the pop-up window, and click "Pair".





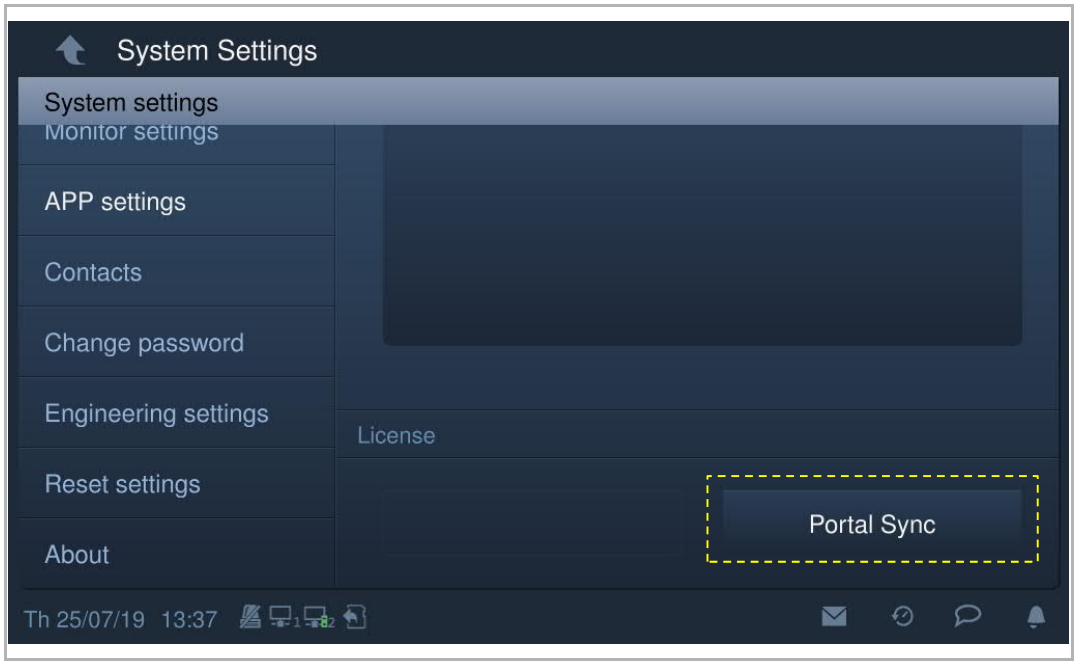
Enter the token ID and click "OK". The indoor station will display "Paired" if successful.





6. Portal Sync

If you have purchased a remote service, you can click "Portal sync" on the "APP settings" screen to enable the remote service immediately.



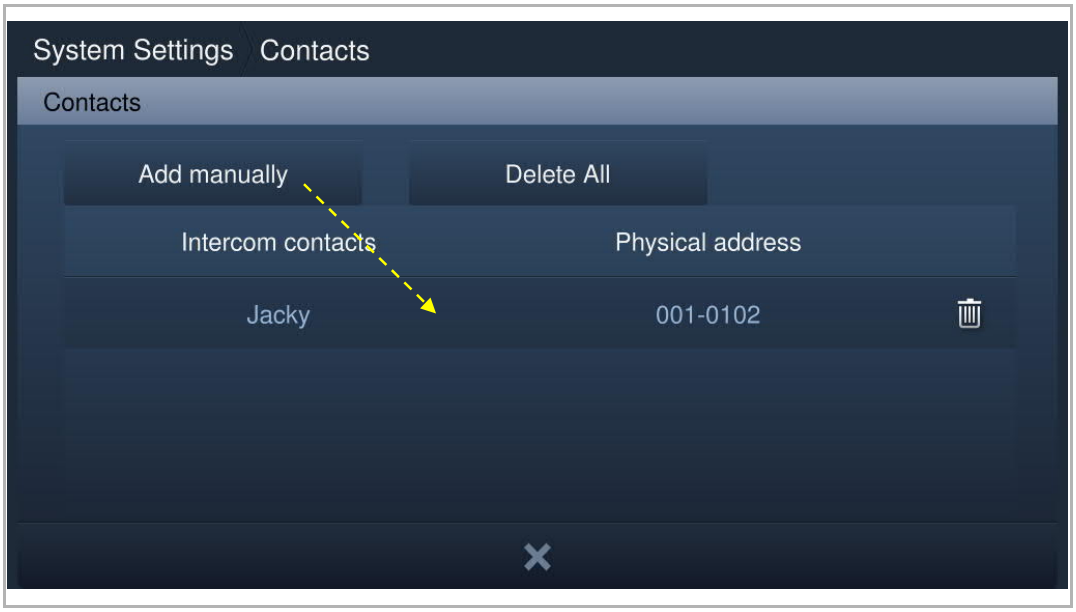
8.2.13 Contacts

On the "System settings" screen, click "Contacts" to access the corresponding screen.

Click "Contacts" to manage the contacts.

Click "Add manually", enter a name and room number, then click "OK" to save the setting.

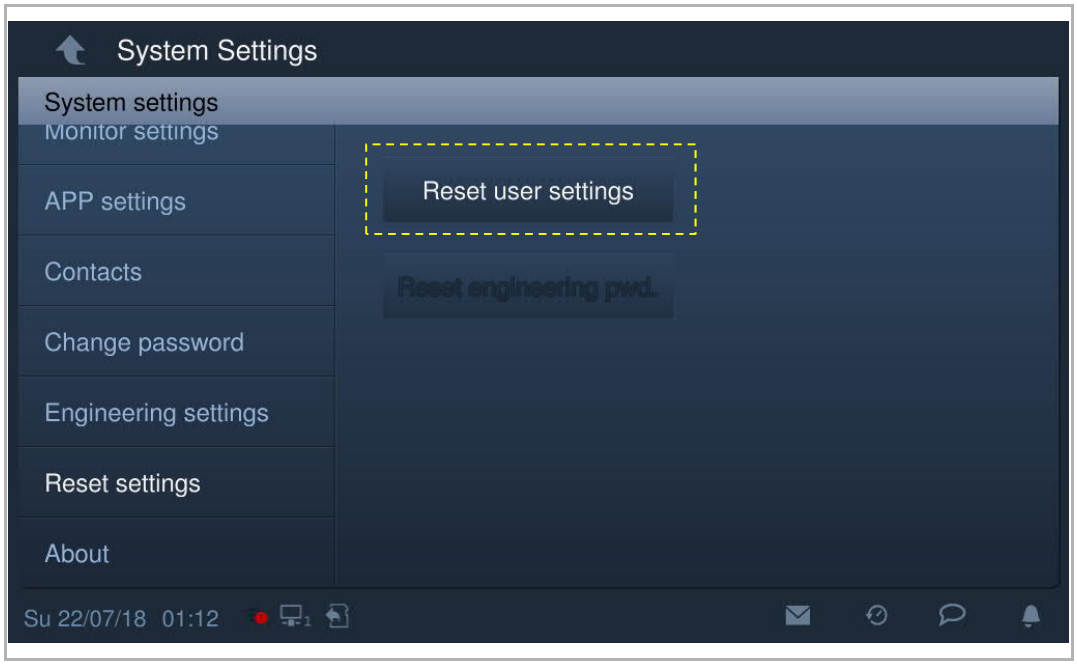
A maximum of 64 contacts can be added.



8.2.14 Reset user settings

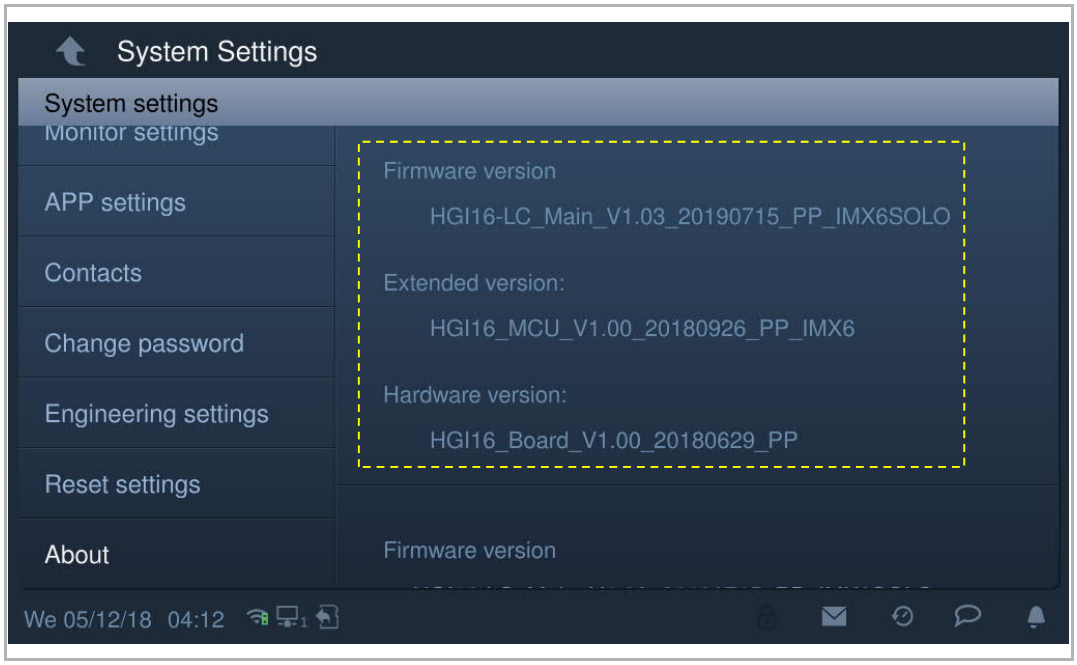
On the "System settings" - "Reset settings" screen.

Click "Reset user settings", enter the user password (the system default is 123456) and click "OK" to reset the user settings.



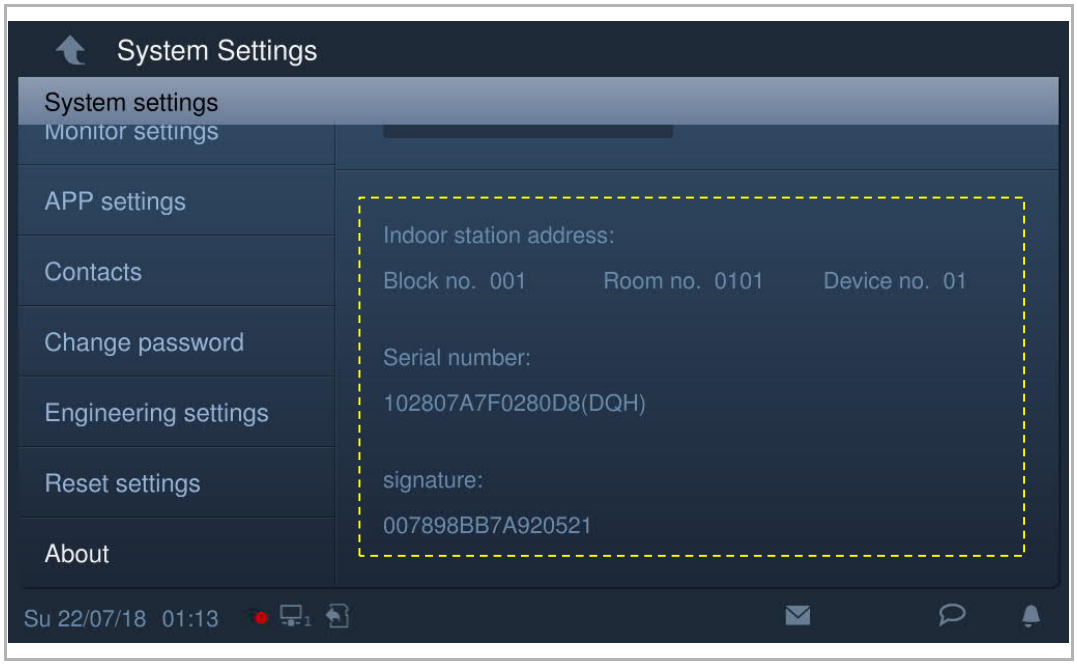
8.2.15 Version information

On the "System settings" screen, click "About" to view the version information.



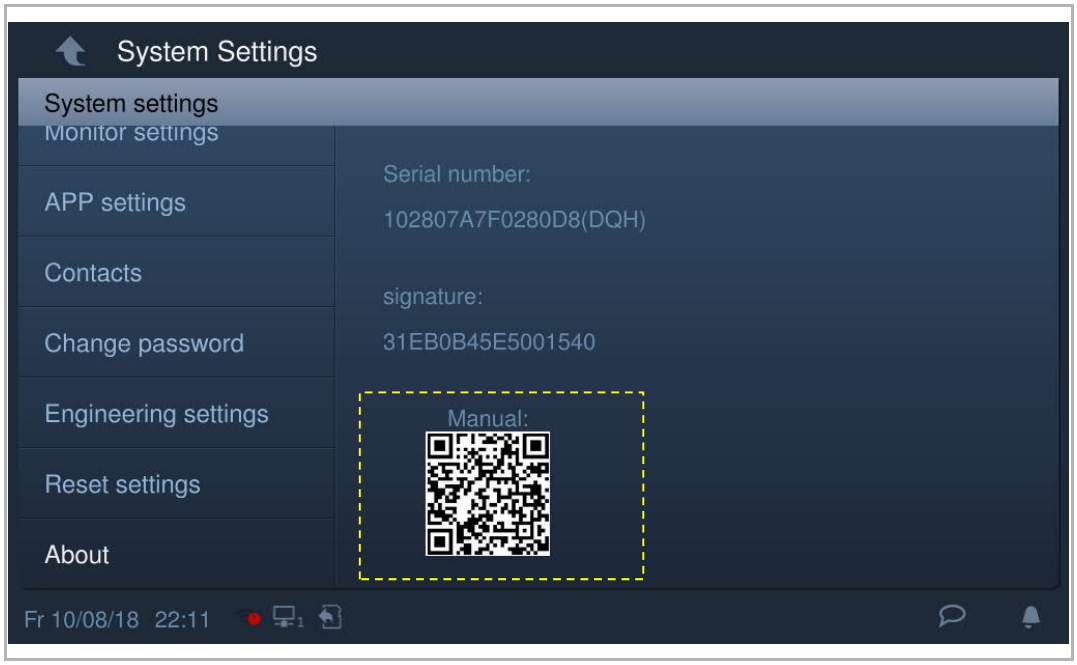
8.2.16 Device address

On the "System settings" screen, click "About" to view the address information.

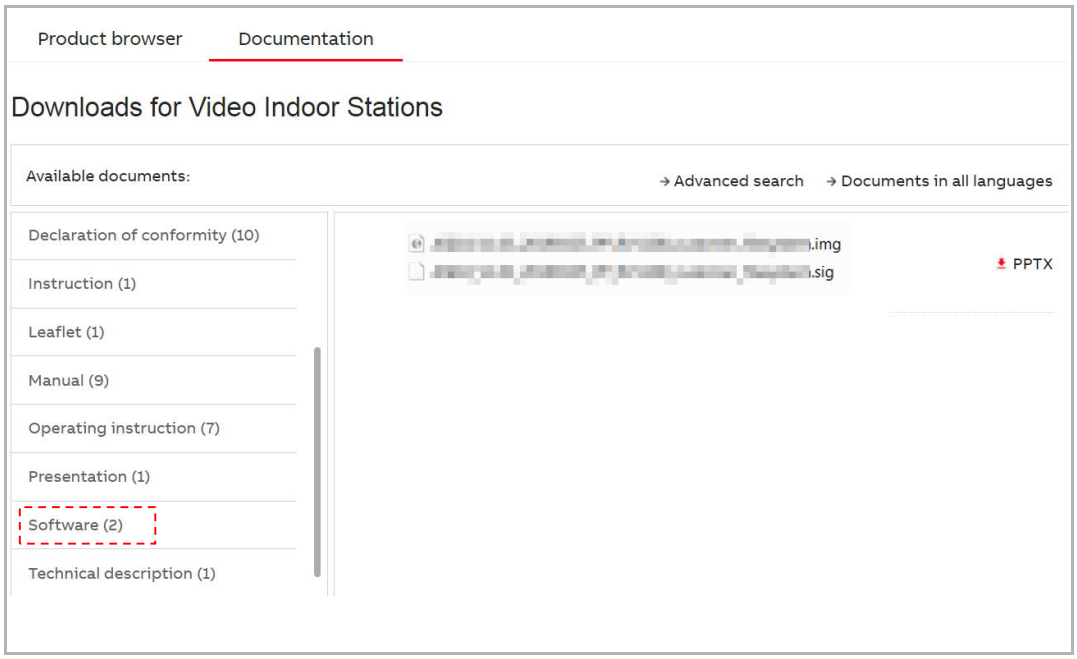


8.2.17 Firmware update

It is possible to obtain the latest version on the website via scanning the QR code.

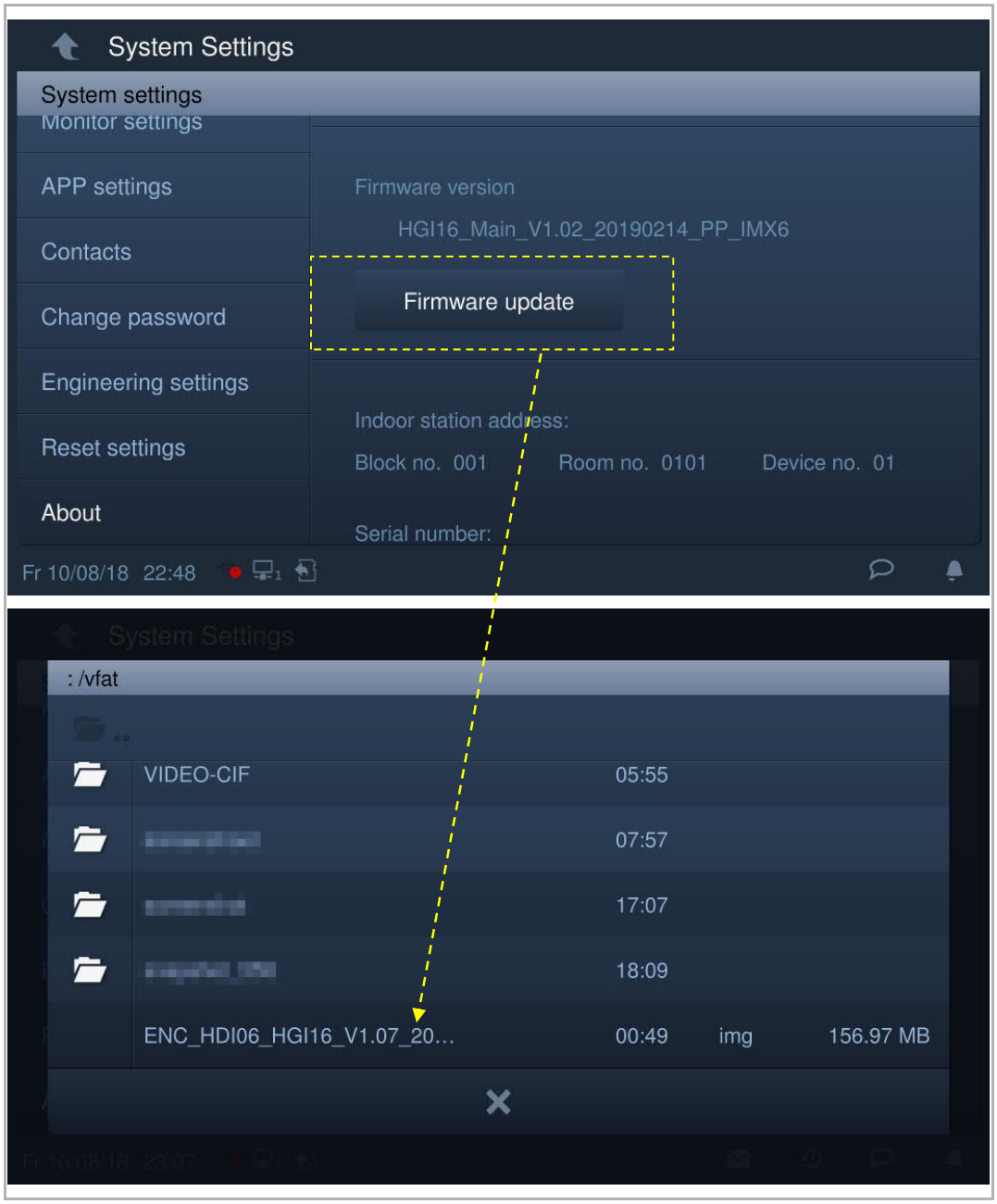


Click "Documentation" - "Software" to download the file.



Note
This function is only available when an SD card is inserted.

On the "System settings" - "About" screen, click "Firmware update", click the file and then click "OK" to update the firmware.

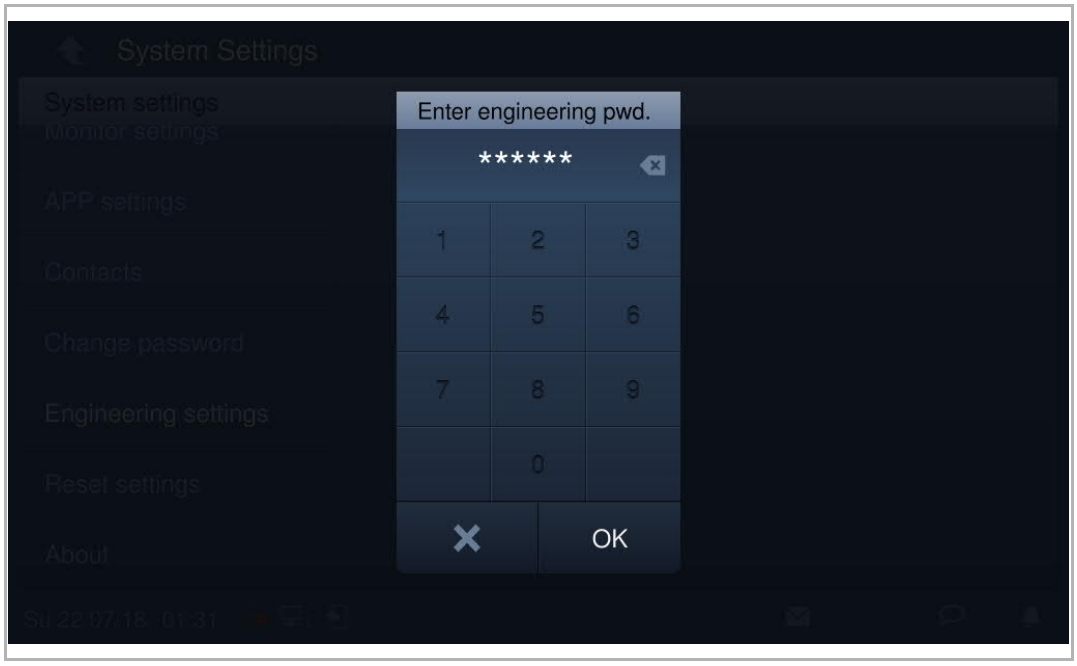


8.3 Engineering settings

8.3.1 Enter engineering setting

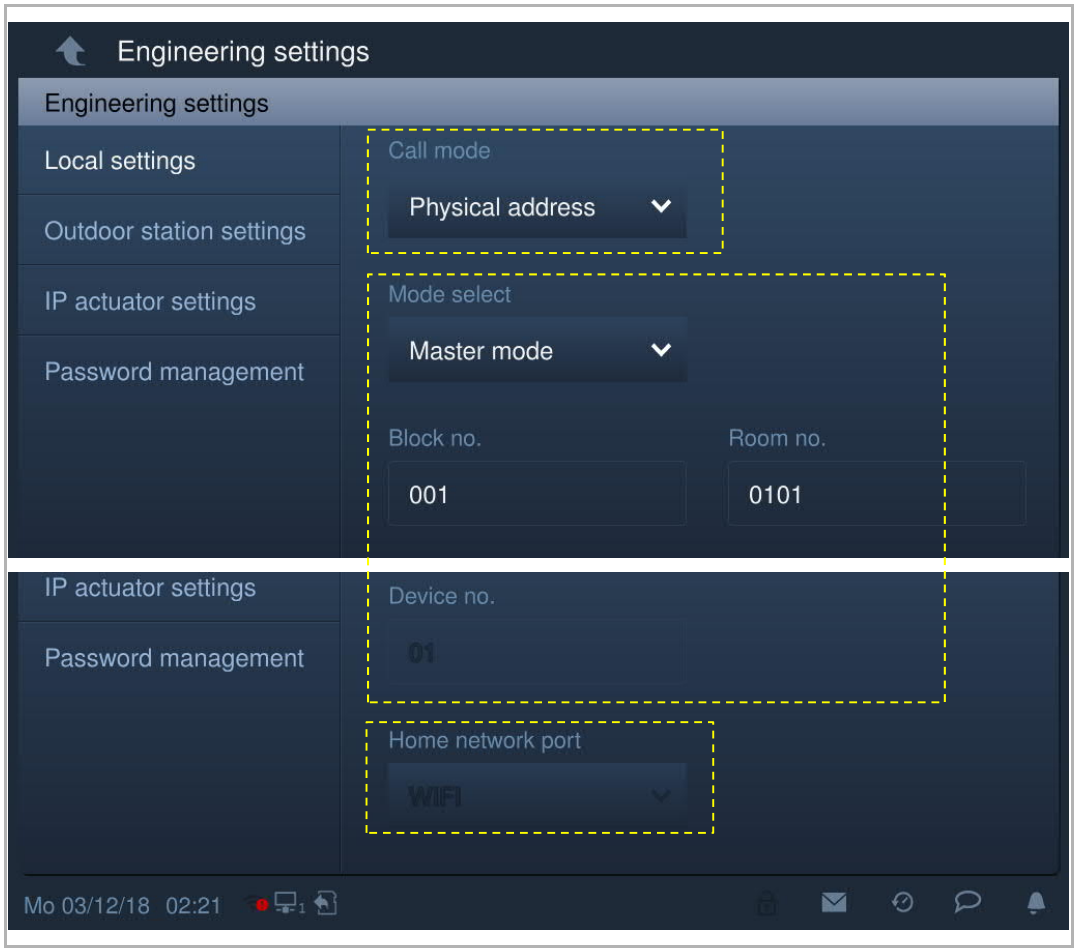
On the "System settings" screen, click "Engineering settings", enter the engineering password to access the settings screen.

Note
The settings screen will turn back to the home screen if no operations are carried out within 60 s.



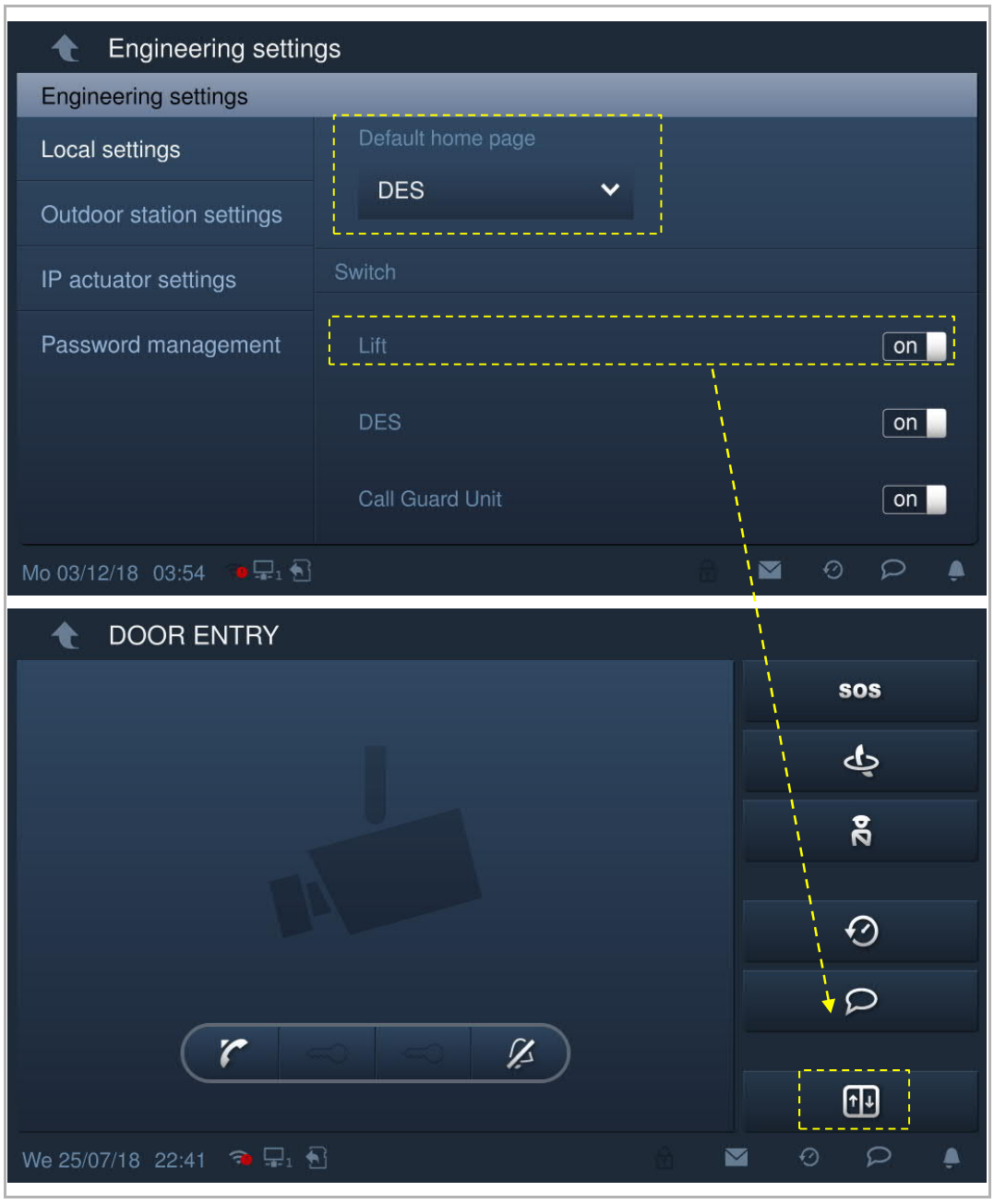
8.3.2 Device settings

Mode settings



No.	Function
1	**Call mode** Select call mode between "Physical address" (default) and "Logical address".
2	**Mode select** Please see the "Intended use" – "Application" chapter for more details.
3	**Home network port** If "Master mode", ▪ Wifi by default If "Subsidiary mode", ▪ LAN/Wifi

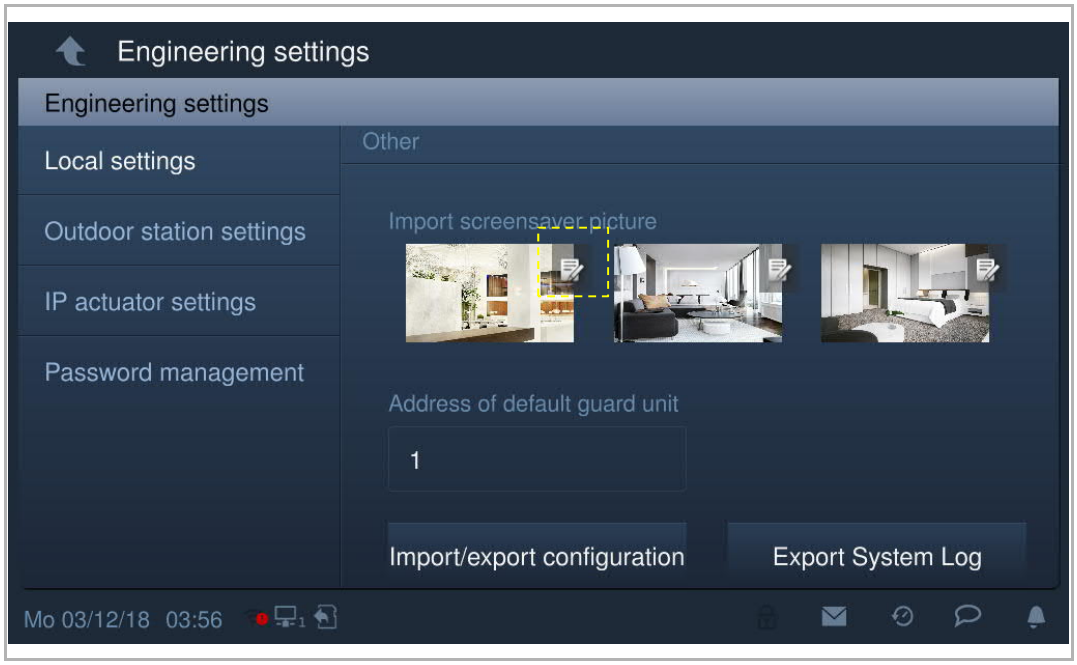
Home screen settings



No.	Function
1	**Home screen setting** ▪ DES page (default) ▪ CCTV
2	**Additional function on DES/Extra screen** Enable/disable the function displayed on the door entry screen (e.g. call lift, call guard unit) or on the extra screen (e.g. auto unlock).

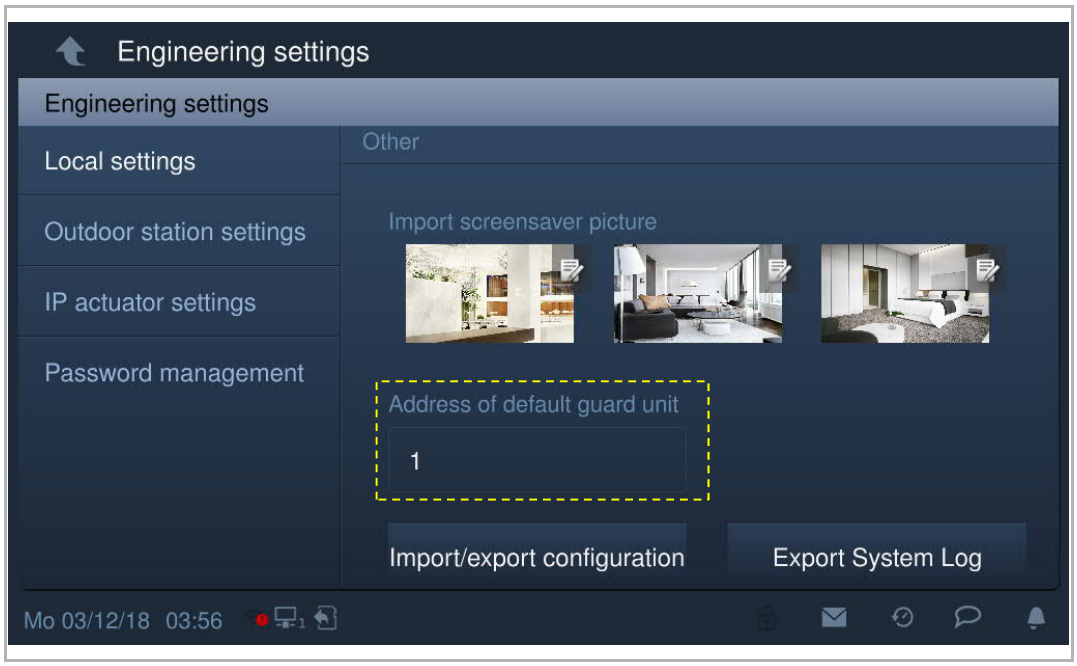
Screen saver settings

Click to change the screensaver picture from the SD card.



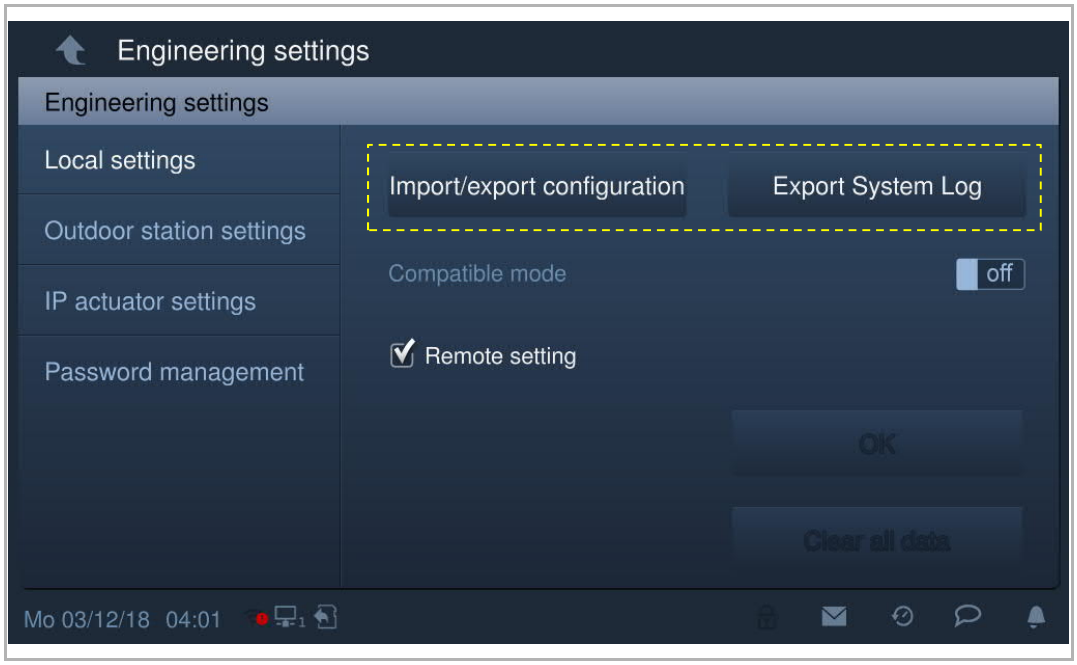
Default guard unit

Click “Address of default guard unit" and enter the address. (1…32)



Import/export configuration file

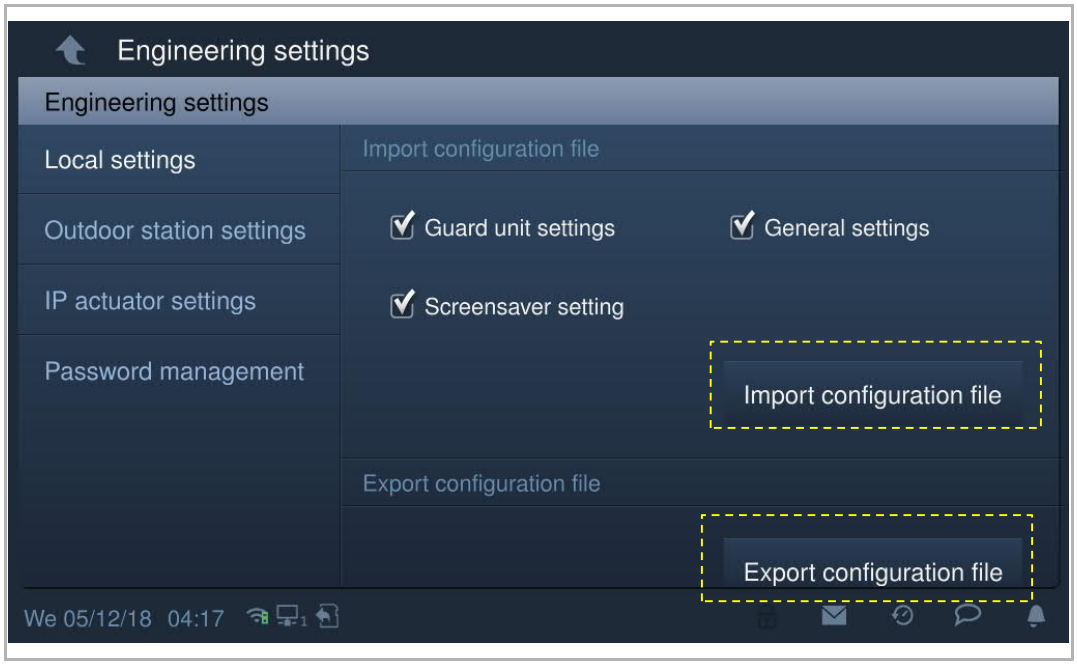
On the "Local settings" screen, click "Import/export configuration" to access the corresponding screen.



Click "Export configuration file" to output a configuration file to the SD card.

Click "Export System Log" to output a system log to the SD card. System log includes the events such as updating firmware, changing configuration, entering wrong password, changing password etc.

Click "Import configuration file" to import the configuration file stored on the SD card.

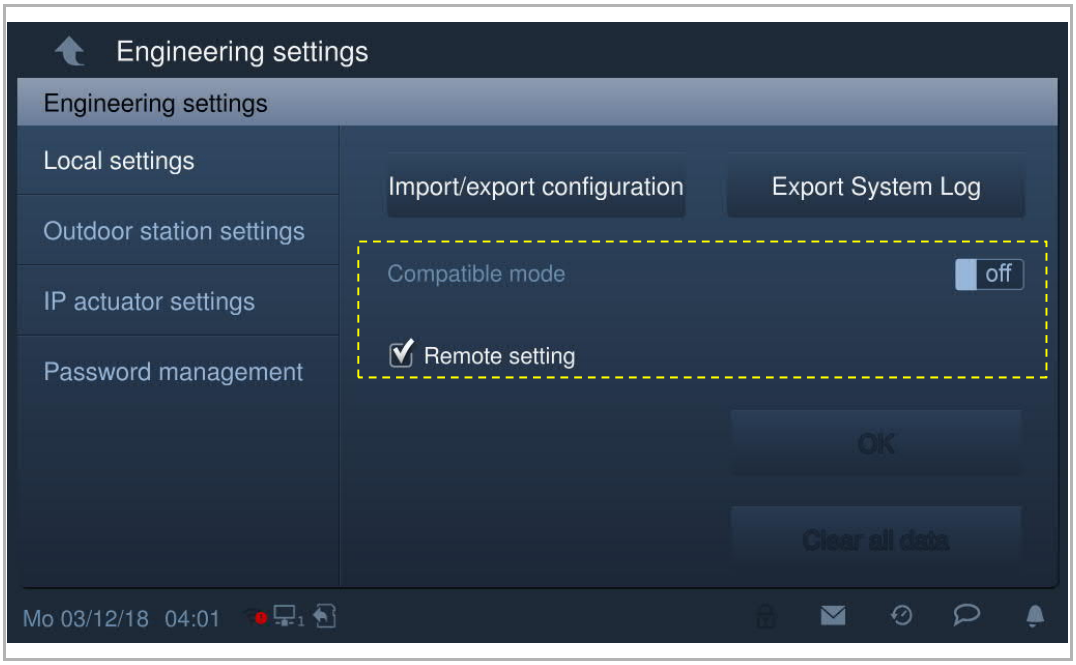


Remote setting

On the "Local settings" screen, the "Remote setting" function is only available on the indoor station which is set as "Master mode" or "Independent mode".

If the "Remote setting" is enabled (default), this device can be set by the management software.

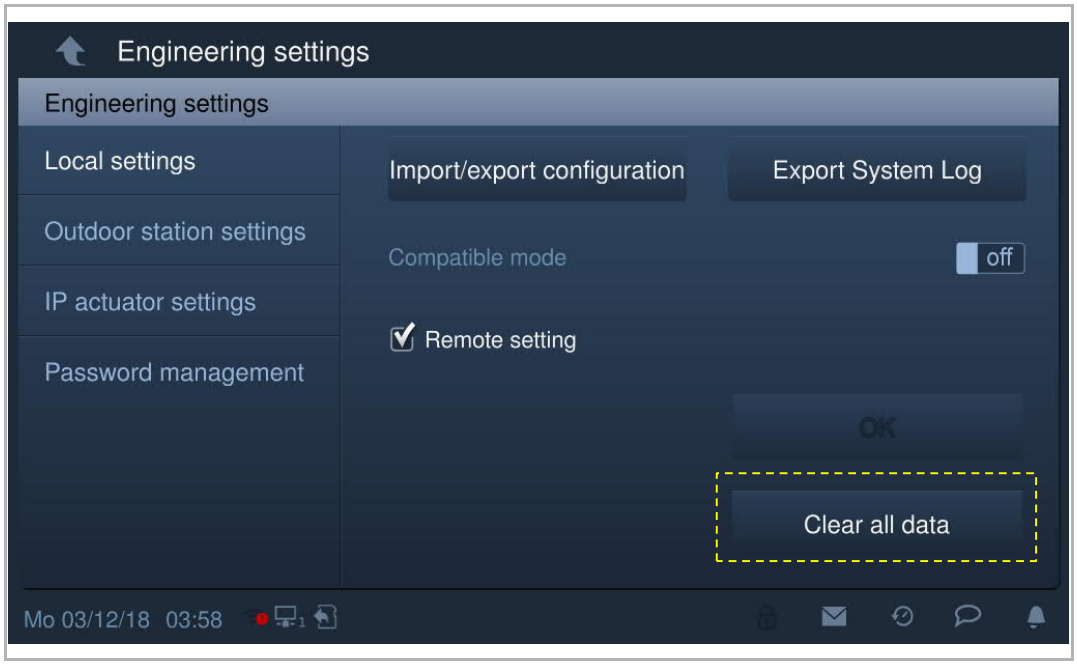
If the "Remote setting" is disabled, this device can only be set by the local management software.



Clear all data

This function is only available within 120 s after the indoor station is powered on.

All data including user settings and engineering settings will be reset to the factory defaults.



8.3.3 Outdoor station settings

These settings are only supported by the pushbutton outdoor station.

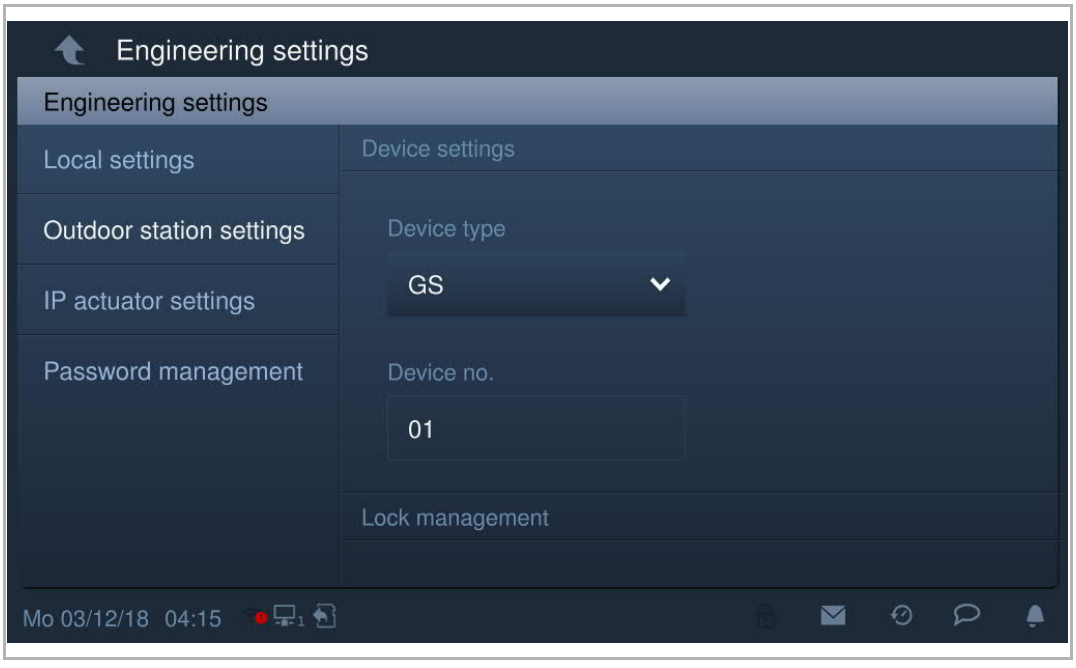
Outdoor station enters engineering mode

- Power on the outdoor station, wait until all 3 LED indicators go out.
- Press the first button on the outdoor station and hold for 10 s until all 3 LED indicators flash.

Tip
The outdoor station will exit engineering mode after 5 minutes.

Indoor station goes to the settings page

On the "Engineering settings" screen, click "Outdoor station settings" to access the corresponding screen.

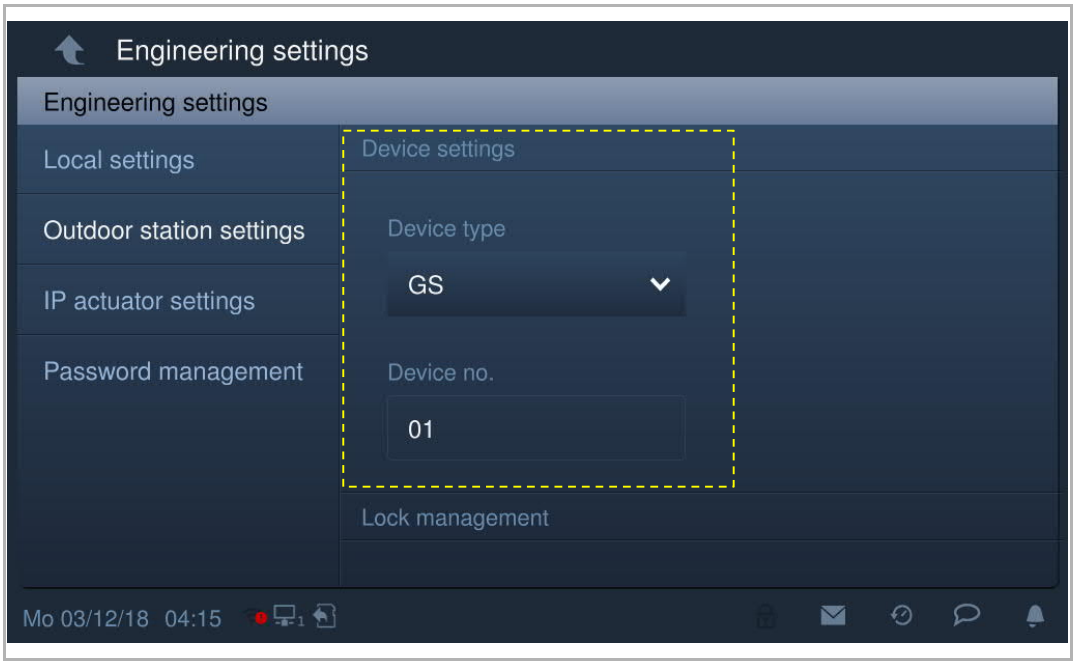


Device settings

Go to the "Outdoor station settings" screen

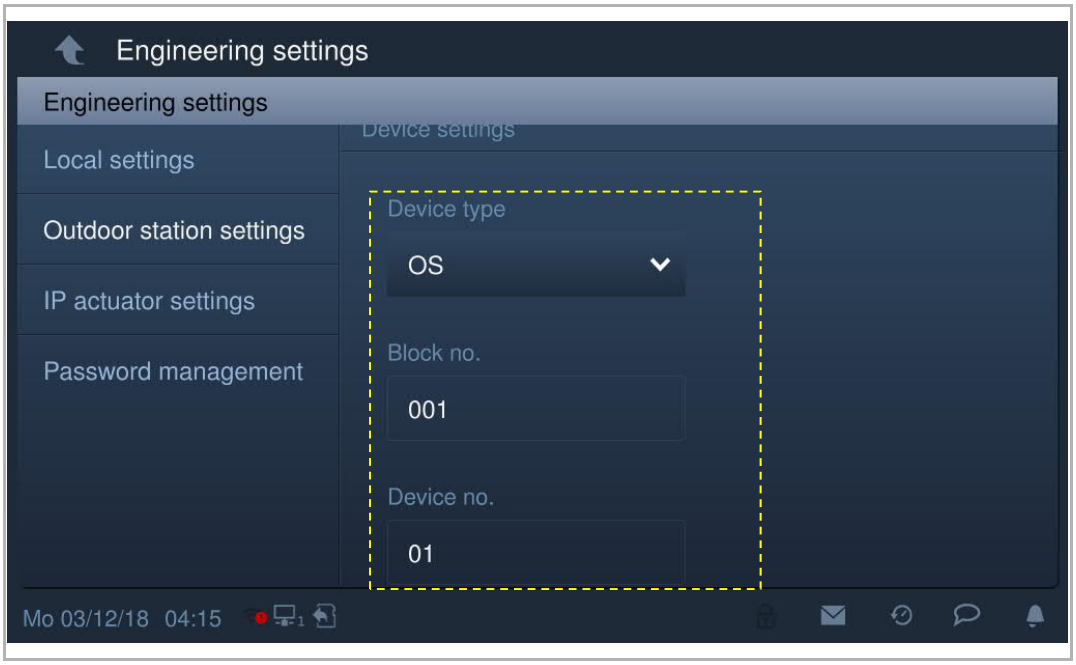
1. Device type = GS (gate station)

Device no. range is 1…32.



2. Device type = OS (outdoor station)

Block no. range is 1...999, device no. range is 1...64.

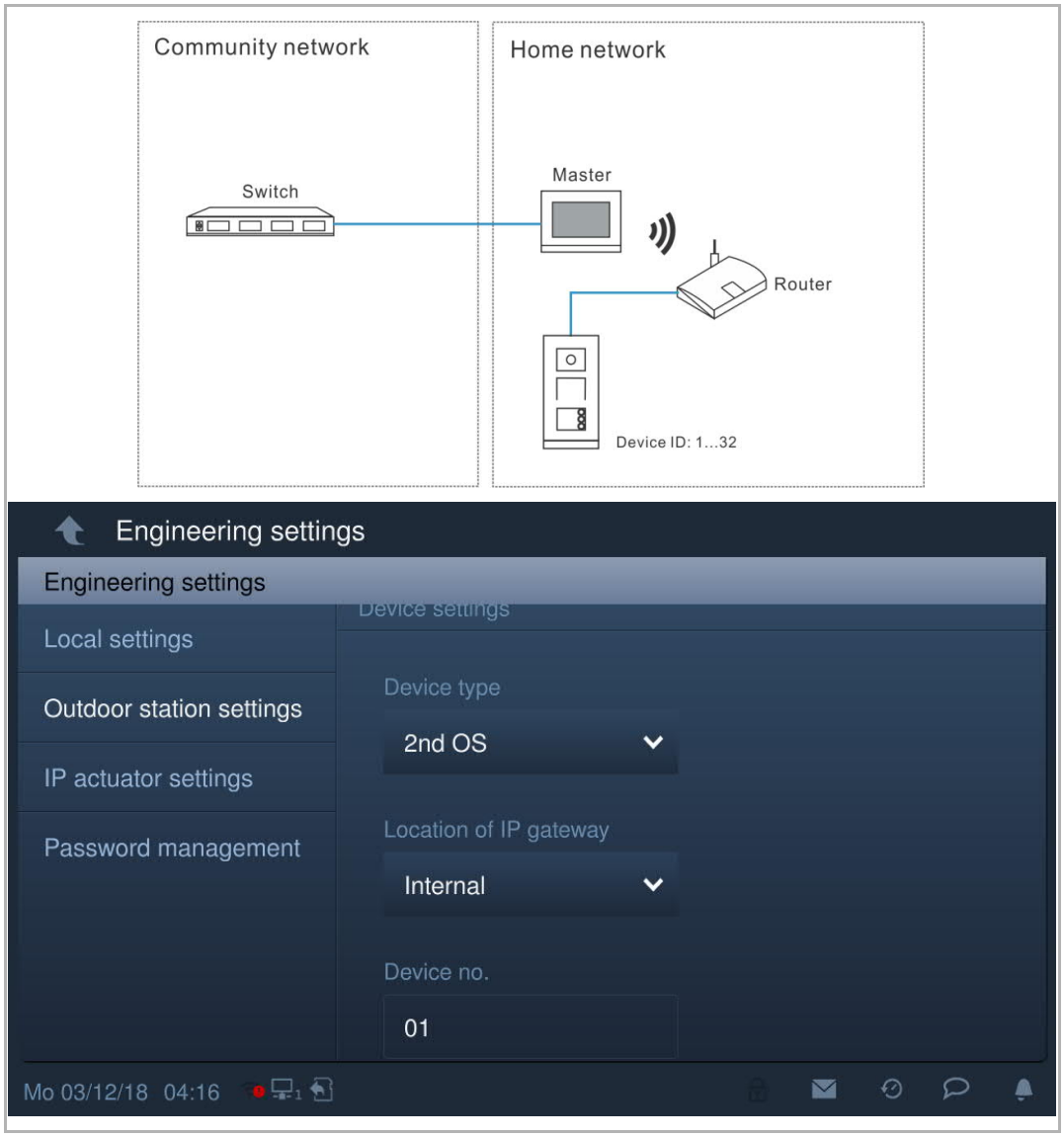


3. Device type = 2nd OS (2nd confirmed outdoor station)

[1] Location = Internal

The 2nd OS is connected to the router in the apartment (see diagram below).

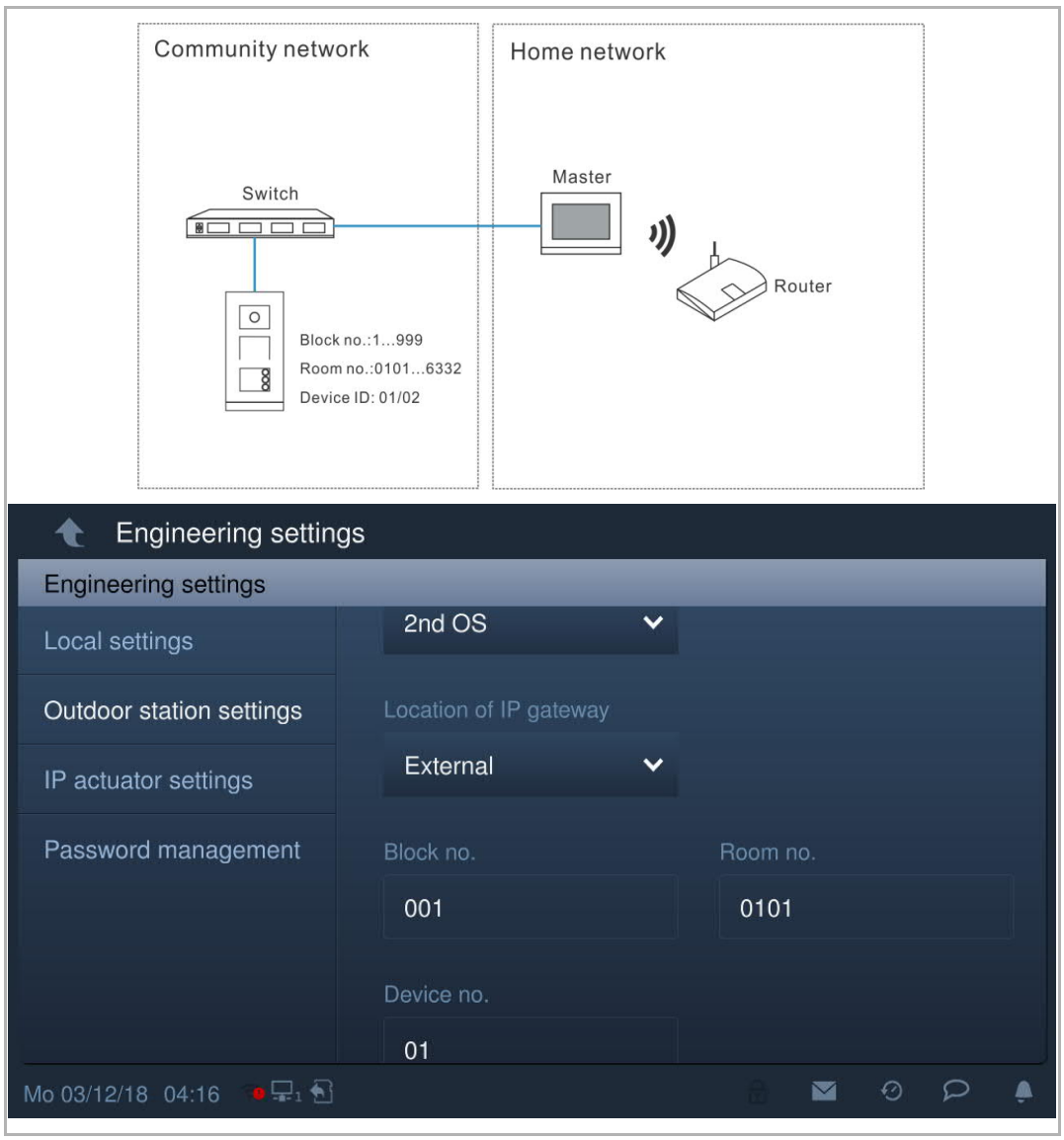
Device no. range is 1...32.



[2] Location = External

The 2nd OS is connected to the switch outside the apartment (see diagram below).

Block no. range is 1…999, the Room no. range is 01…63 + 01…32 (e.g. 0101), and the device no. range is 1...2.

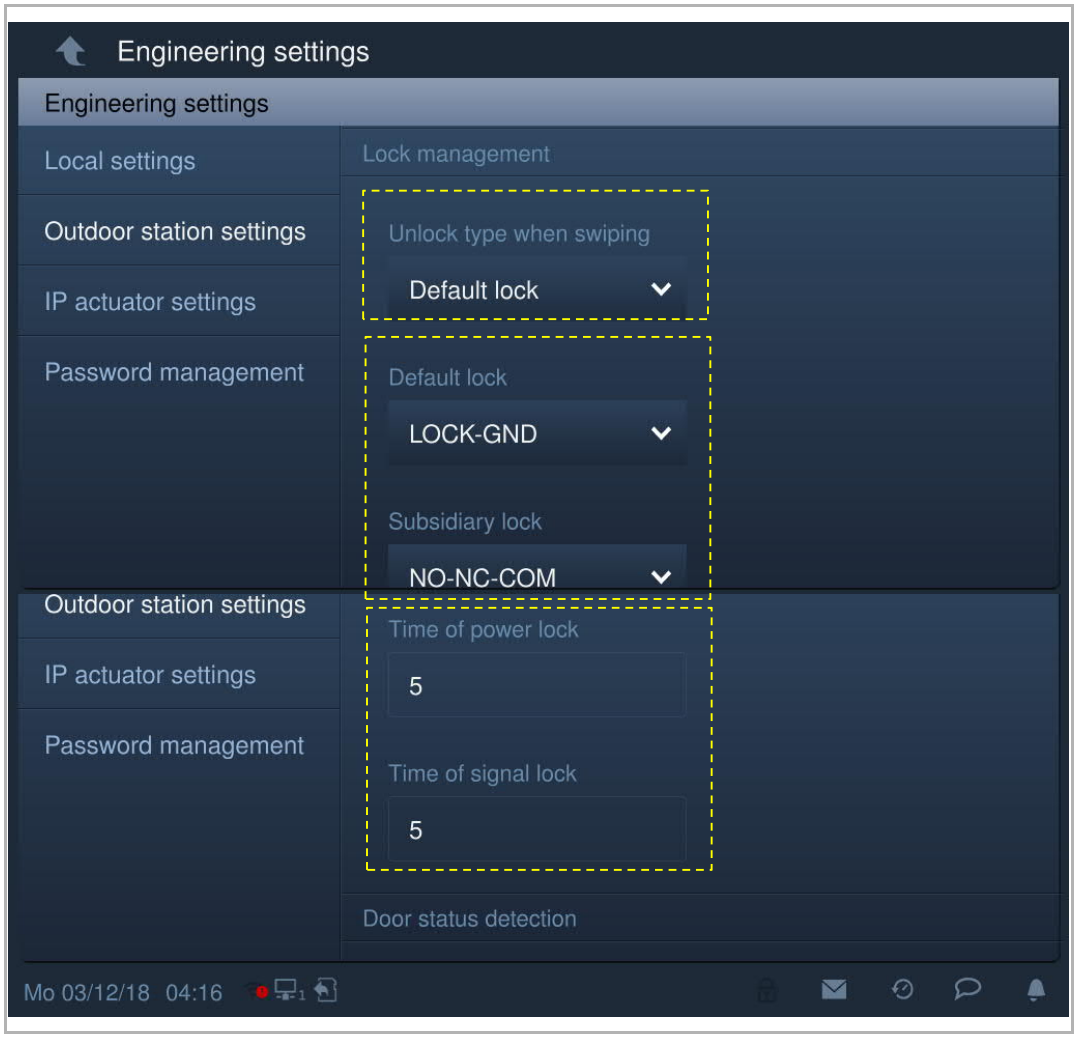


Note

The external and internal types cannot be used in mixed scenarios in the same apartment.

Lock management

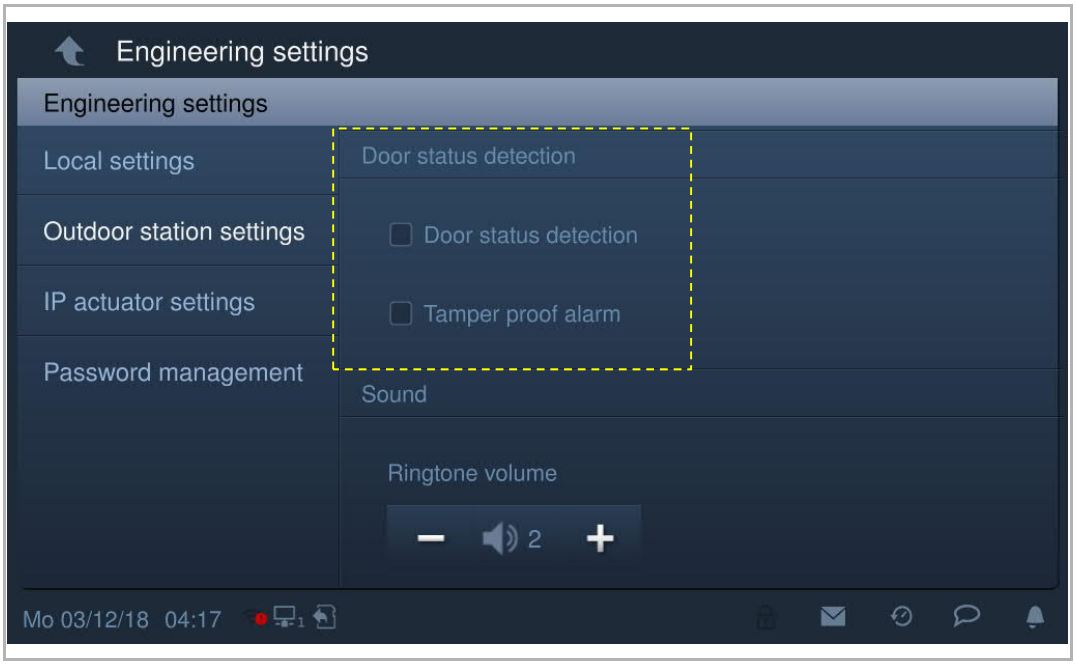
Go to the "Outdoor station settings" screen.



No.	Function
1	**Unlock type when swiping** Set the lock to be released when swiping. ▪ Default lock (default) ▪ Subsidiary lock.
2	**Lock type** Set the lock type for the default lock and subsidiary lock. ▪ Lock-GND ▪ NO-NC-COM ▪ IP actuator
3	**Time of unlock** Set the time for unlock ▪ Power lock = Lock-GND ▪ Signal lock = NO-NC-COM

Door status detection

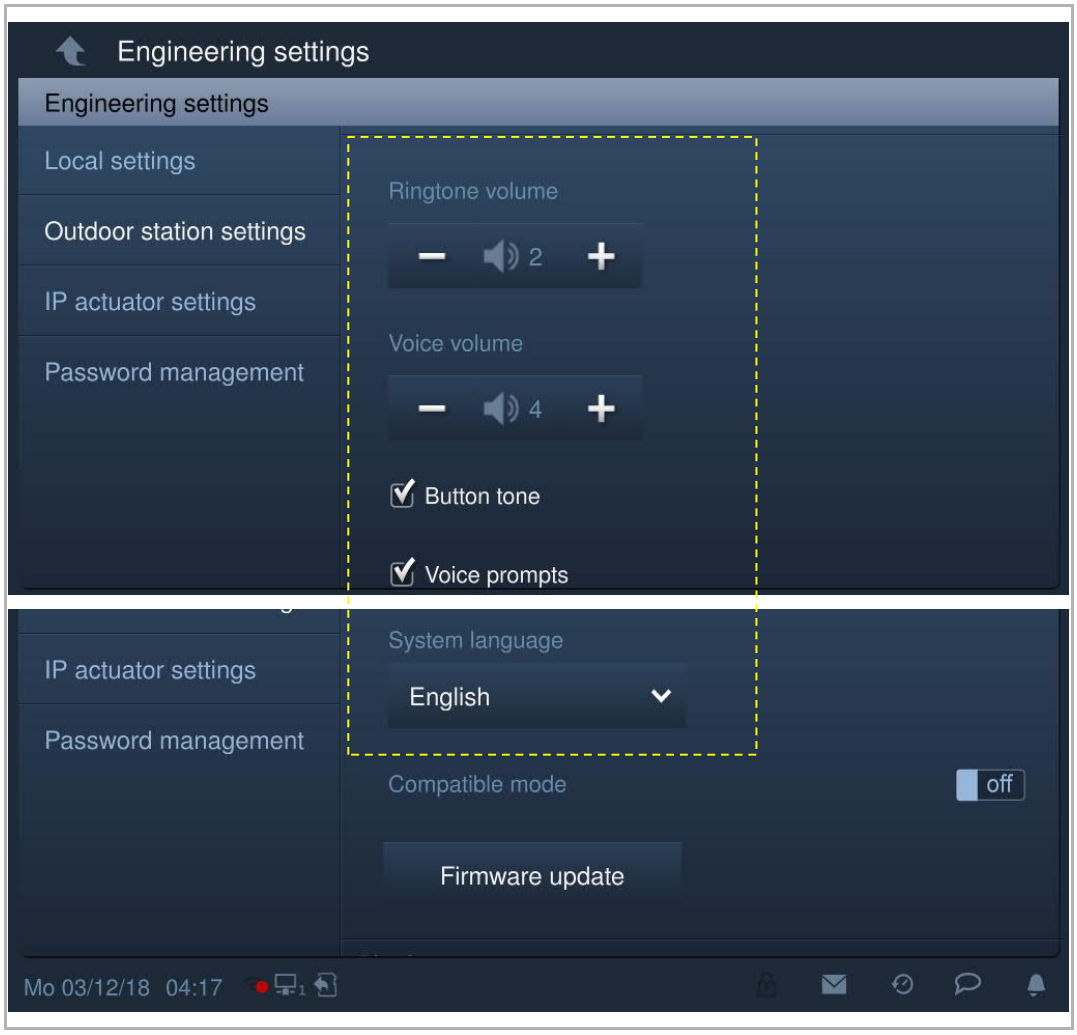
Go to the "Outdoor station settings" screen.



No.	Function
1	**Door status detection** If this function is enable, the outdoor station will send an alarm to the management software if the door is open longer than 120 s (A sensor should first be connected to the outdoor station).
2	**Tamper proof alarm** If this function is enabled, the outdoor station will send an alarm to the management software if the outdoor station is removed from the wall.

Sound

Got to the "Outdoor station settings" screen.

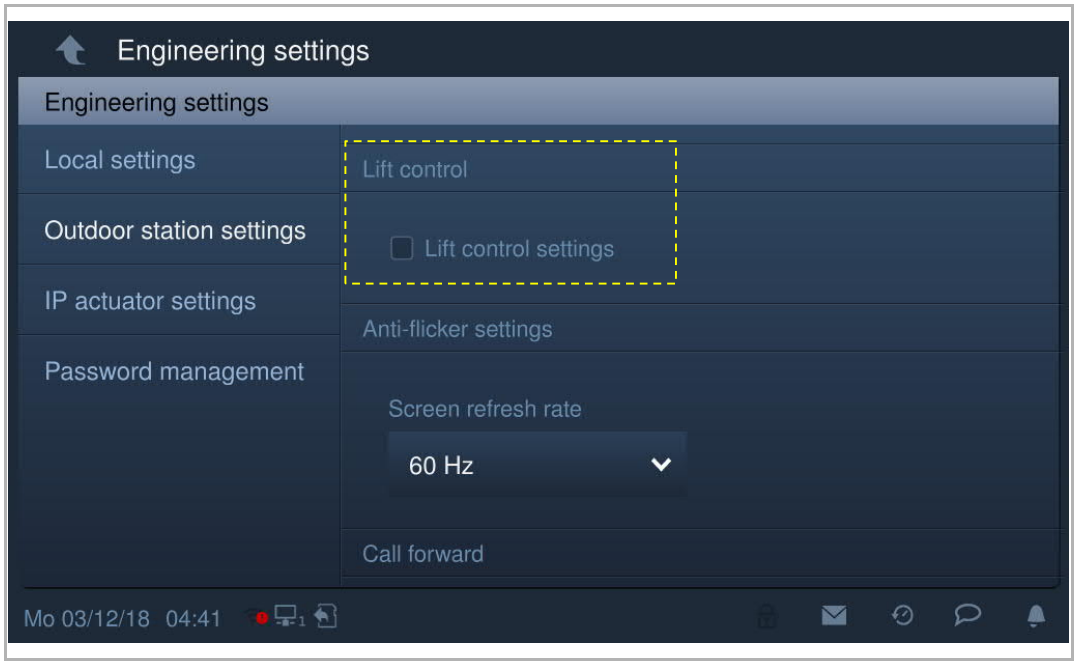


No.	Function
1	**Volume of outdoor station** Click "+" or "-" to adjust the ringtone volume and the voice volume on the outdoor station.
2	**Button tone** Tick the checkbox to enable button tones on the outdoor station.
3	**Voice prompt** ▪ Tick the checkbox to enable voice prompts on the outdoor station. ▪ Choose the language for the voice prompts from the drop-down list.

Lift control

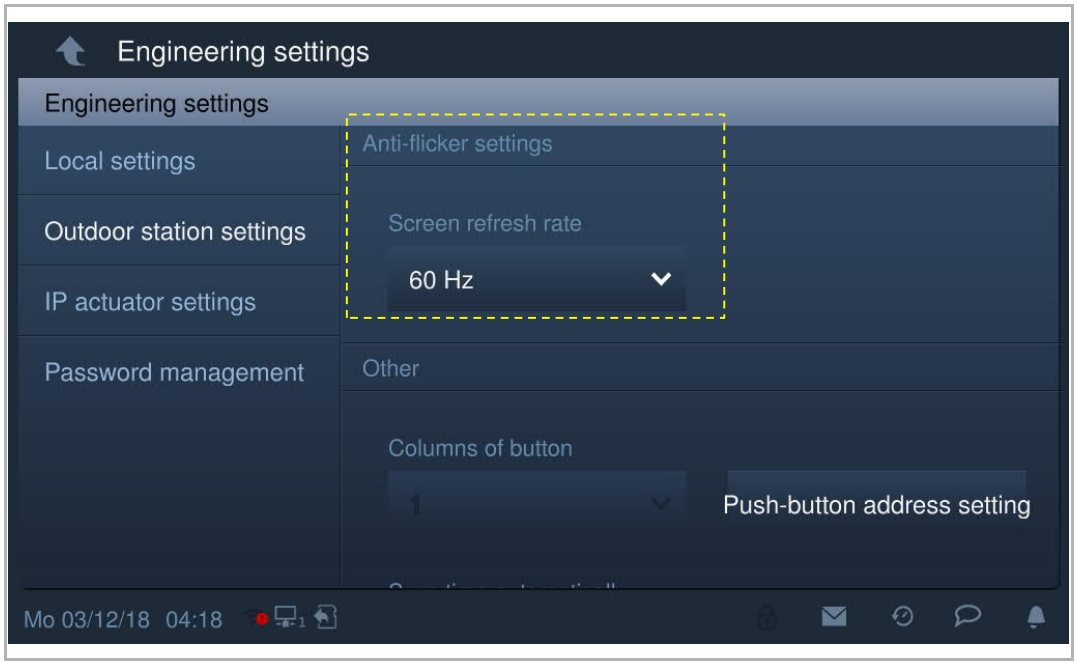
Only the building's outdoor station is able to use this function. The gate station and the 2nd confirmed outdoor station are not able to use this function.

On the "Outdoor station settings" page, tick the checkbox to enable the function.



Anti-flicker setting

On the "Outdoor station settings" screen, select the refresh rate from the drop-down list.

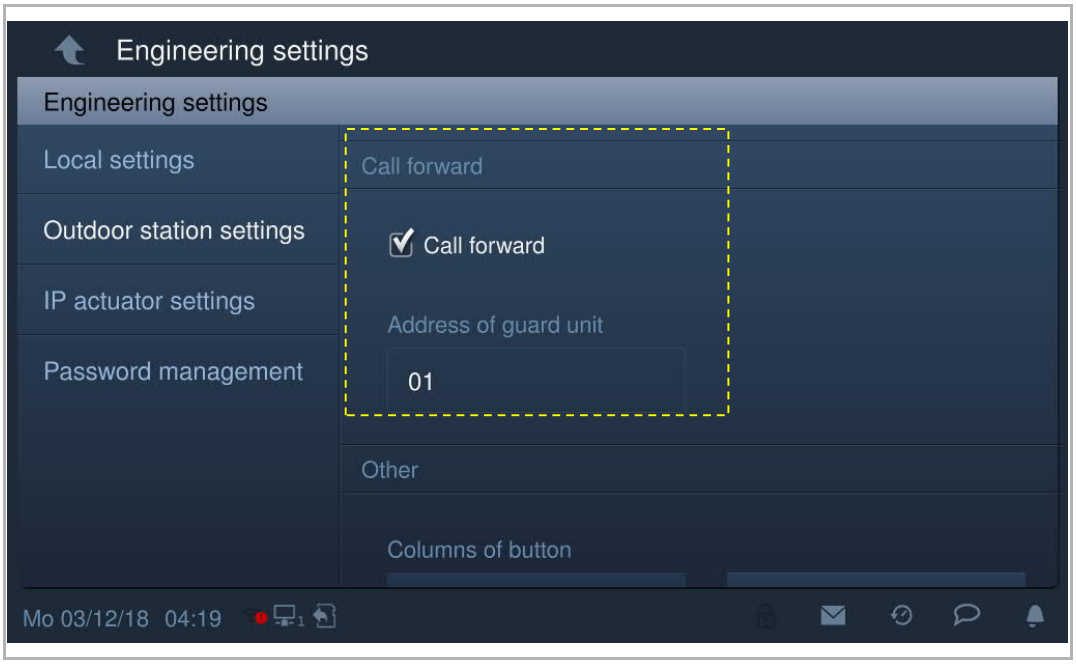


Call forward

Only the building's outdoor station and gate station are able to use this function. The 2nd confirmed outdoor station is not able to use this function.

On the "Outdoor station settings" screen, tick the checkbox to enable the function.

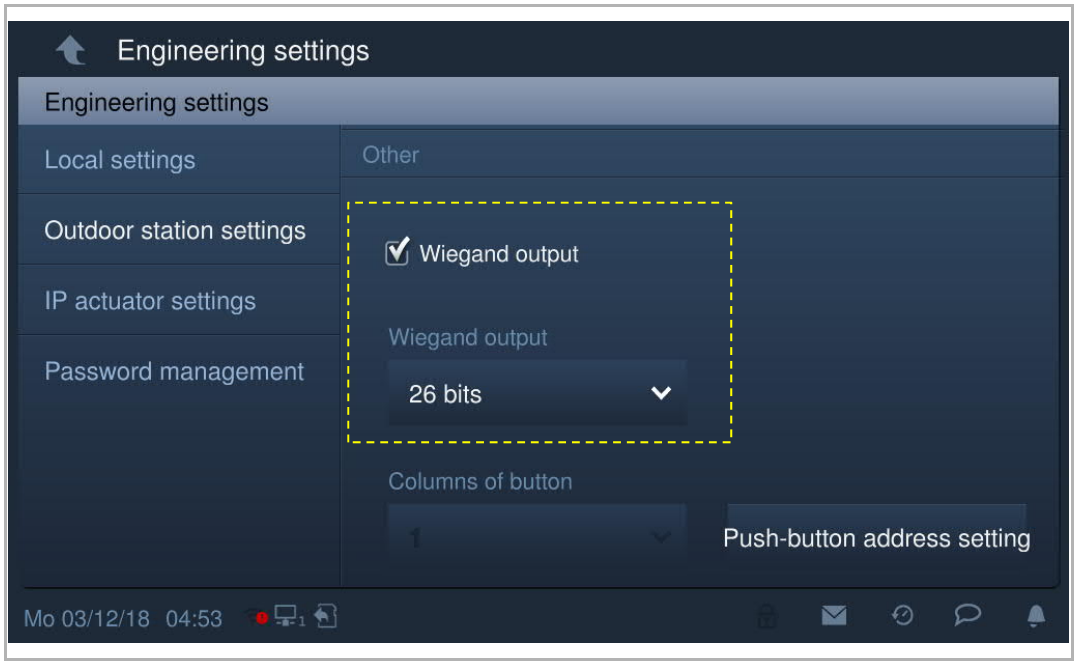
If this function is enabled, each incoming call from this outdoor station will be transferred to the guard unit.



Wiegand output on the outdoor station

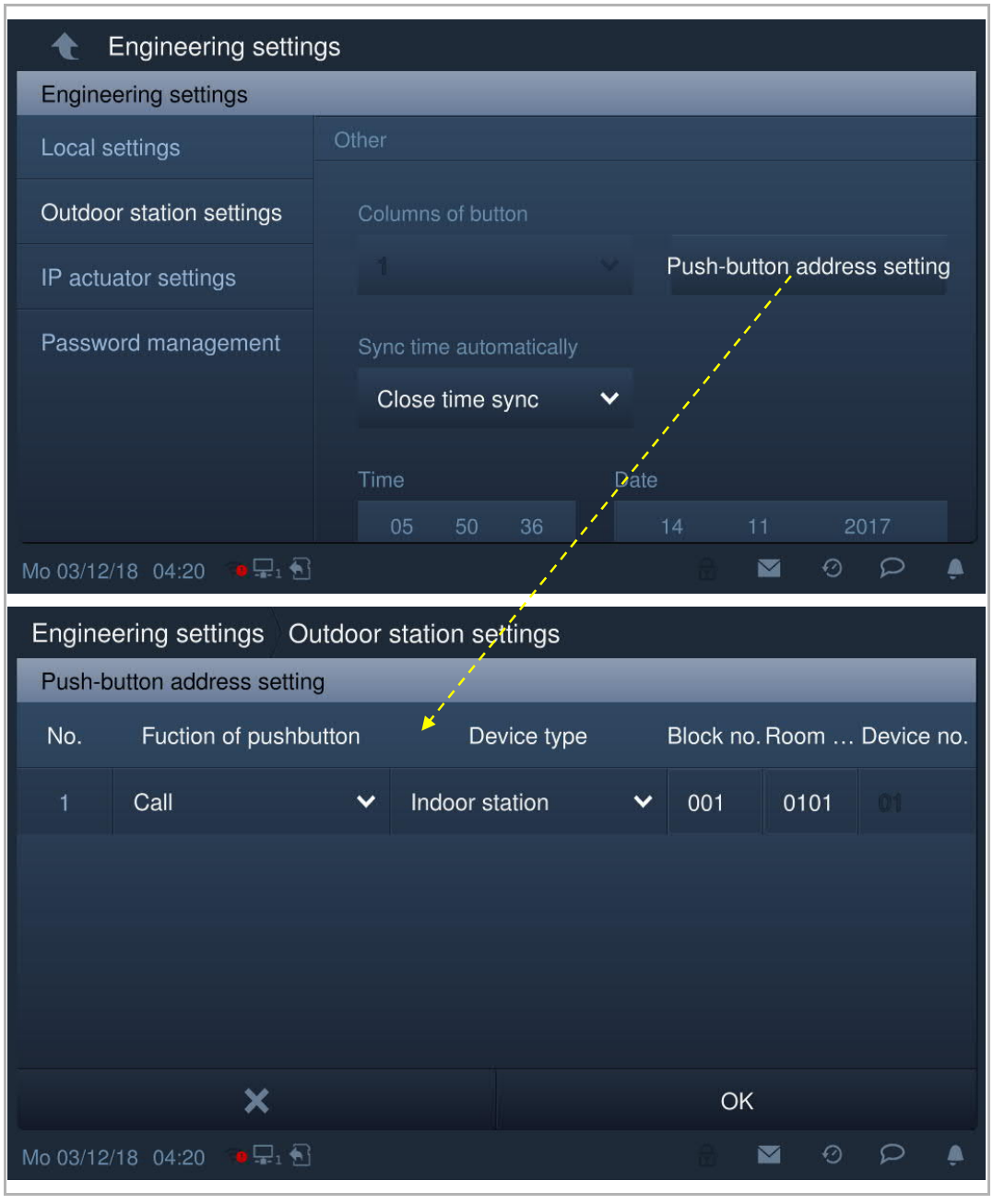
On the "Outdoor station settings" screen, tick the checkbox to enable the function.

Set the Wiegand output from the drop-down list: 26 bits (default) or 34 bits.


Engineering settings
Engineering settings
Local settings
Outdoor station settings
IP actuator settings
Password management
Other
Wiegand output
Wiegand output
26 bits
Columns of button
1
Push-button address setting
Mo 03/12/18 04:53

Set the function of pushbutton

On the "Outdoor station settings" screen, click "Pushbutton address setting" to access the settings of the pushbuttons.



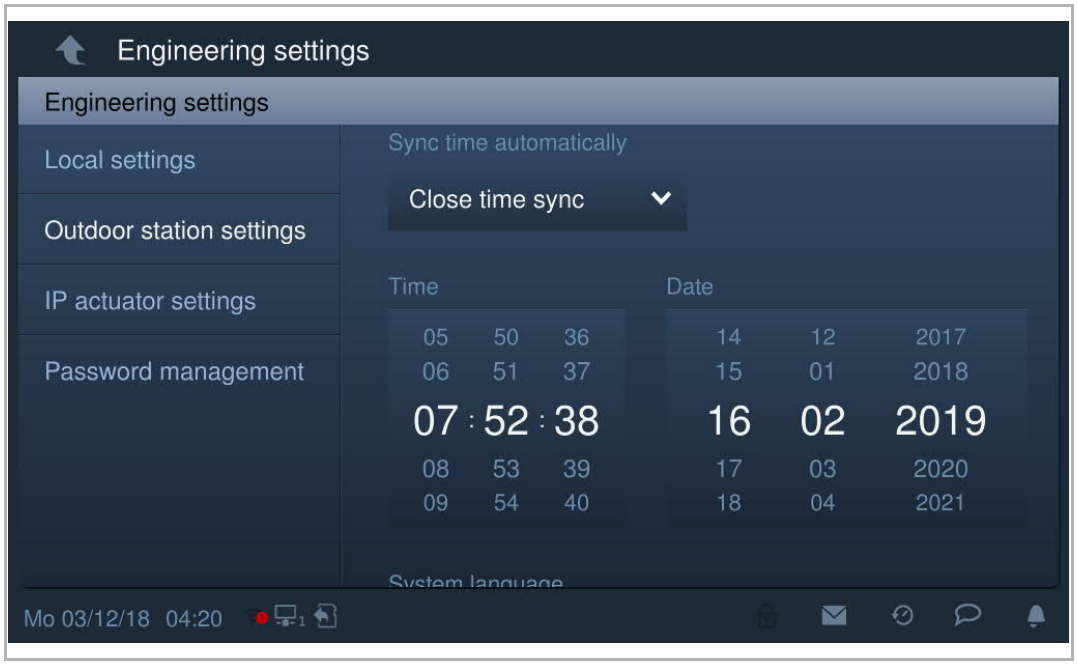
"Columns of button" is only available when detecting bar pushbutton module on the outdoor station. It can be set to 1 column or 2 columns.

Time sync setting

On the "Outdoor station settings" screen.

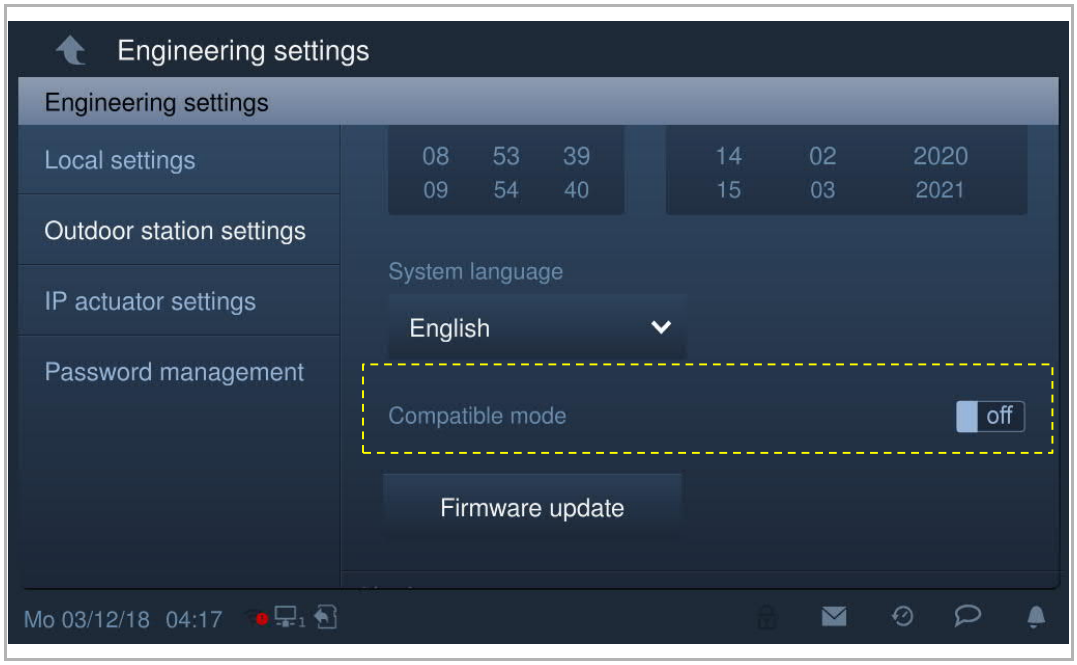
If "Sync time with management" is selected, the outdoor station will sync the time from the management software.

If "Close time sync" is selected, the time and date needs to be set manually.



Security mode and compatible mode setting

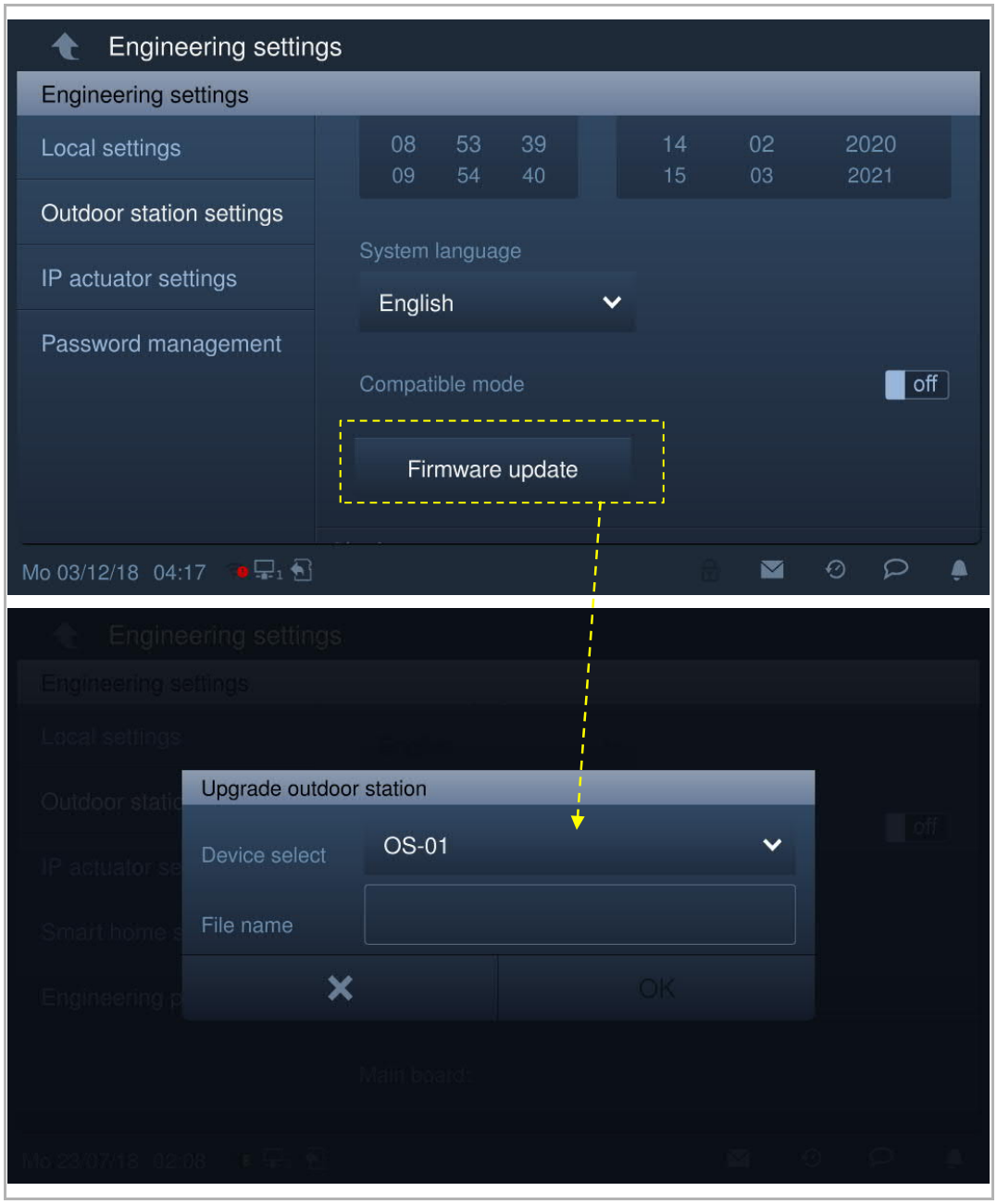
On the "Outdoor station settings" screen, the outdoor station is set to "Security mode" by default (Compatible mode = off).



Firmware update

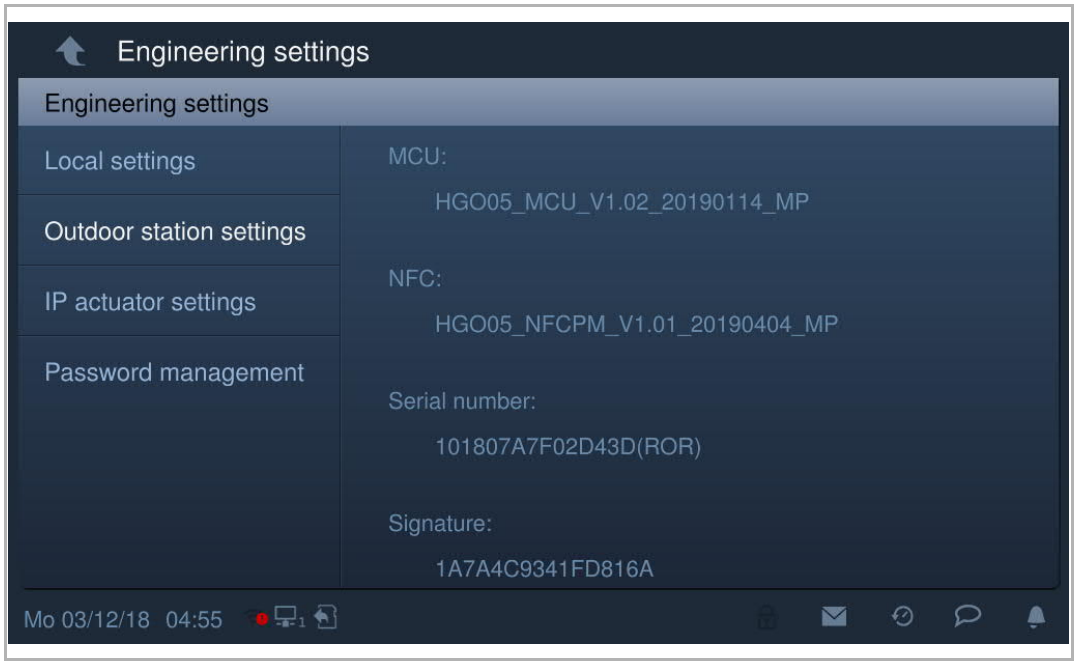
Note
The outdoor station must exit engineering mode before the firmware is upgraded.

On the "Outdoor station settings" screen, click "Firmware update", select the outdoor station and the file from SD card, then click "OK" to update the firmware.



Version of outdoor station

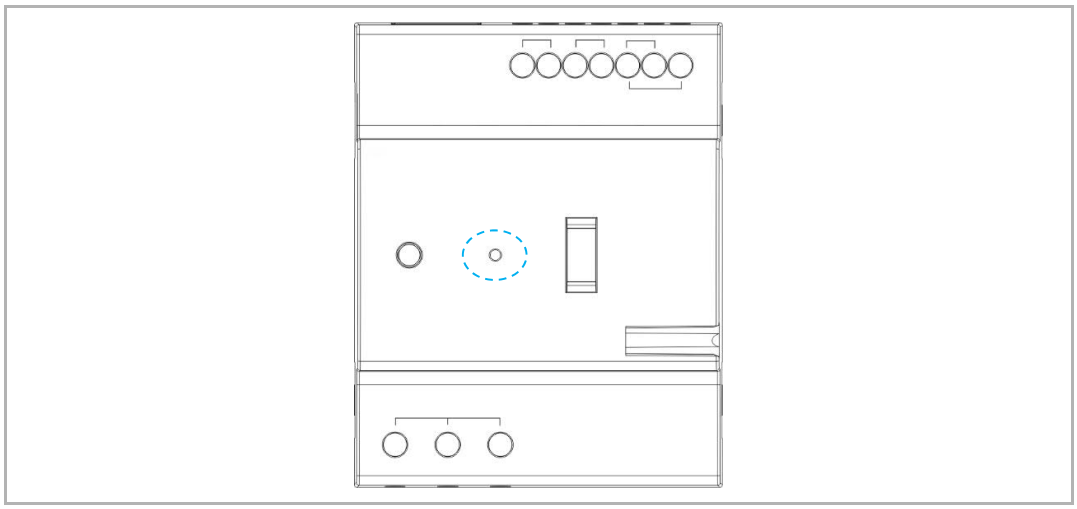
On the "Outdoor station settings" screen, view the version information.



8.3.4 IP actuator settings

IP actuator enters Engineering mode

When pressing the reset button of the IP actuator when it is powered on, the LED flashing means that the IP actuator has entered engineering mode.



On the "Engineering setting" screen on the indoor station, click "IP actuator settings" to access the corresponding screen.

Tip

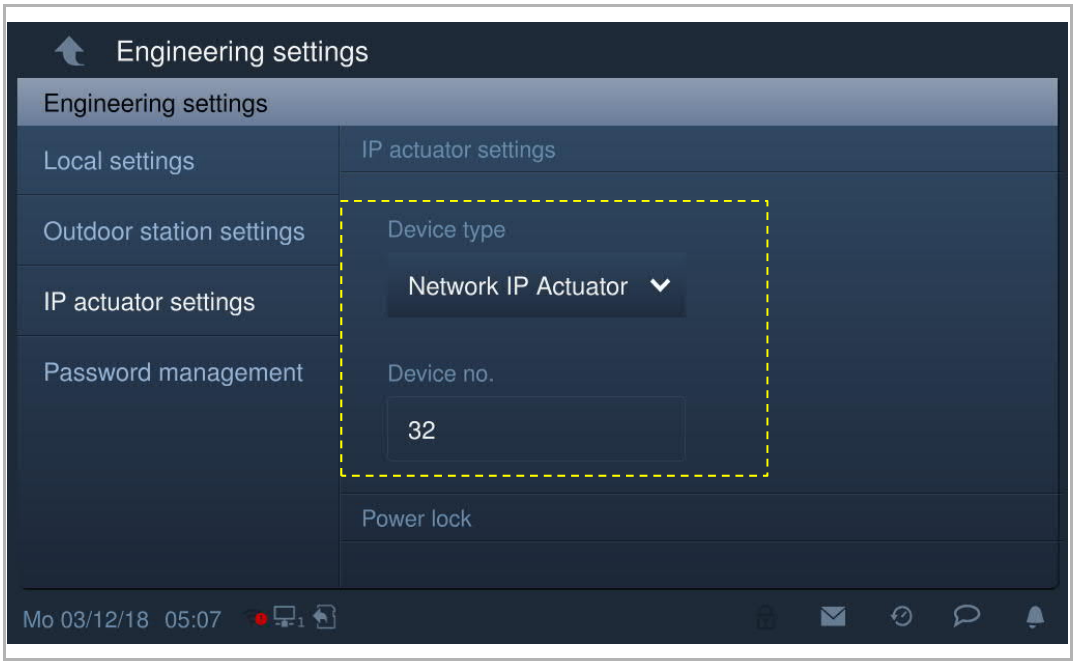
The IP actuator will exit engineering mode if no operation are carried out for 5 minutes.

Device settings

On the "IP actuator settings" screen.

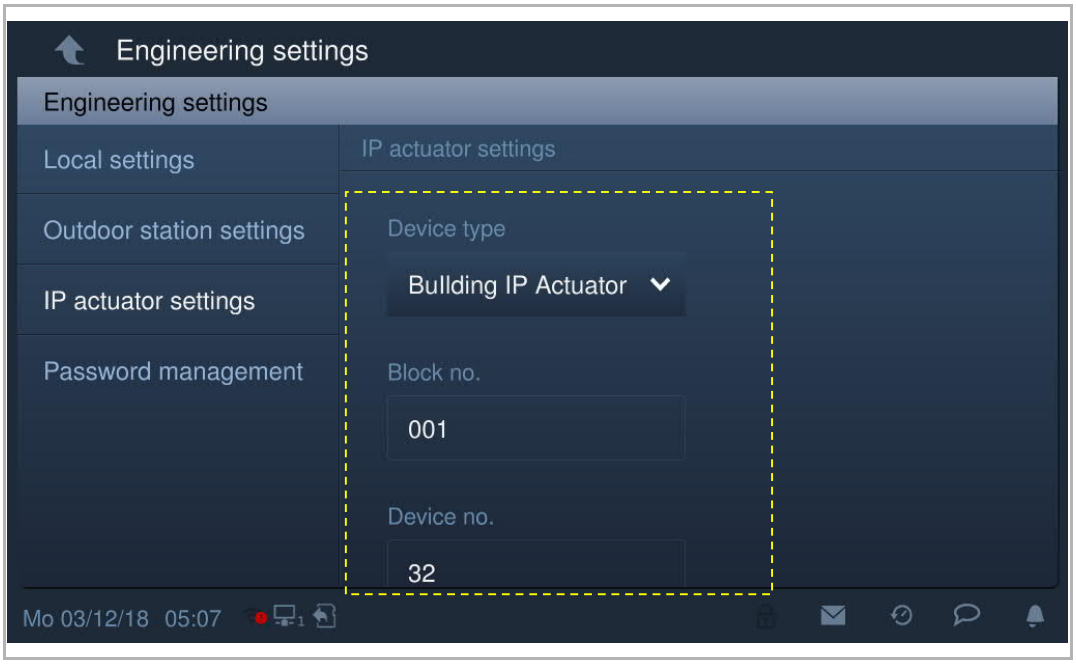
1. Device type = Network IP Actuator

Device no. range is 1...32.



2. Device type = Building IP actuator

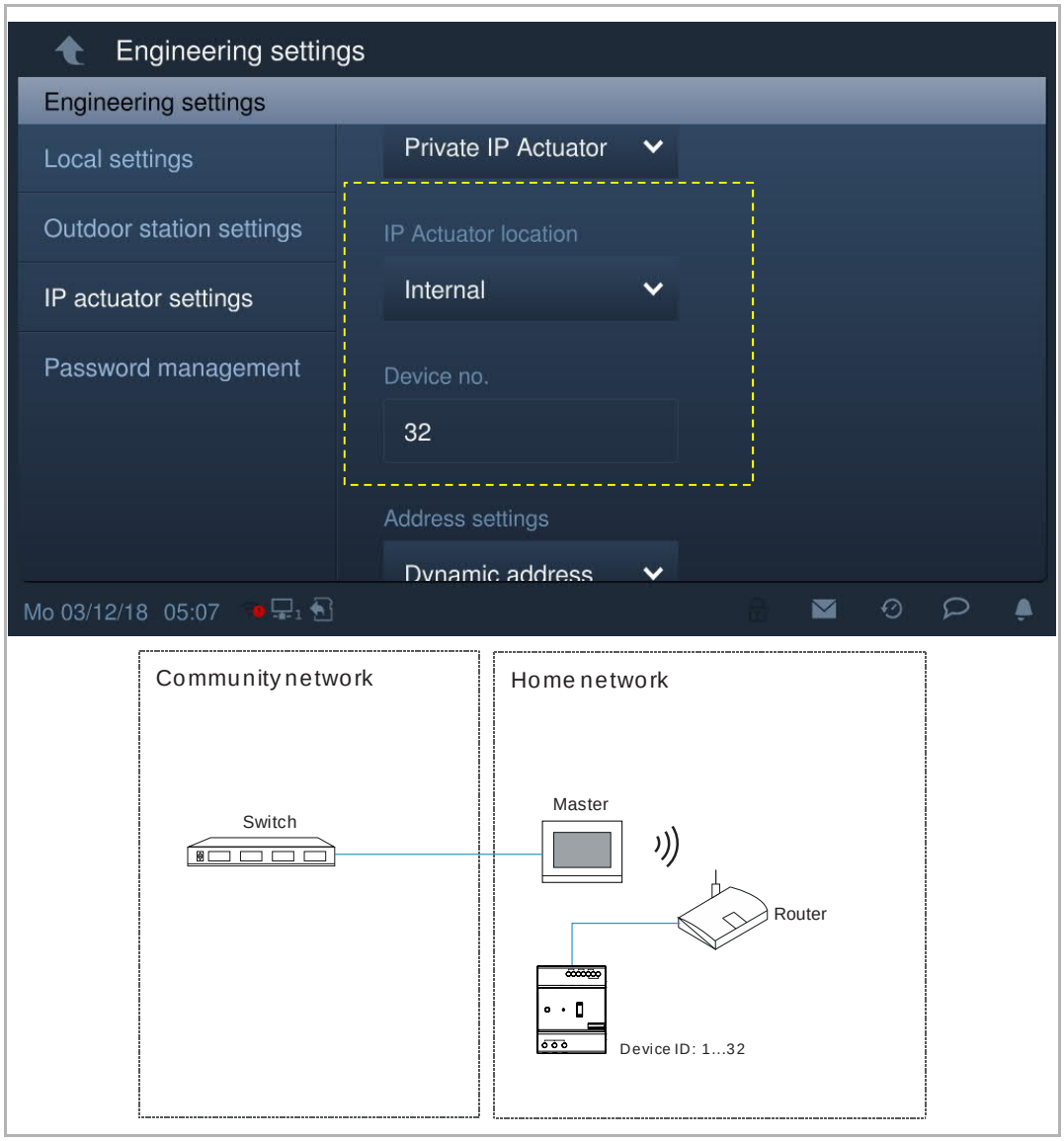
Block no. range is 1...999; device no. range is 1...32



3. Device type = Private IP Actuator

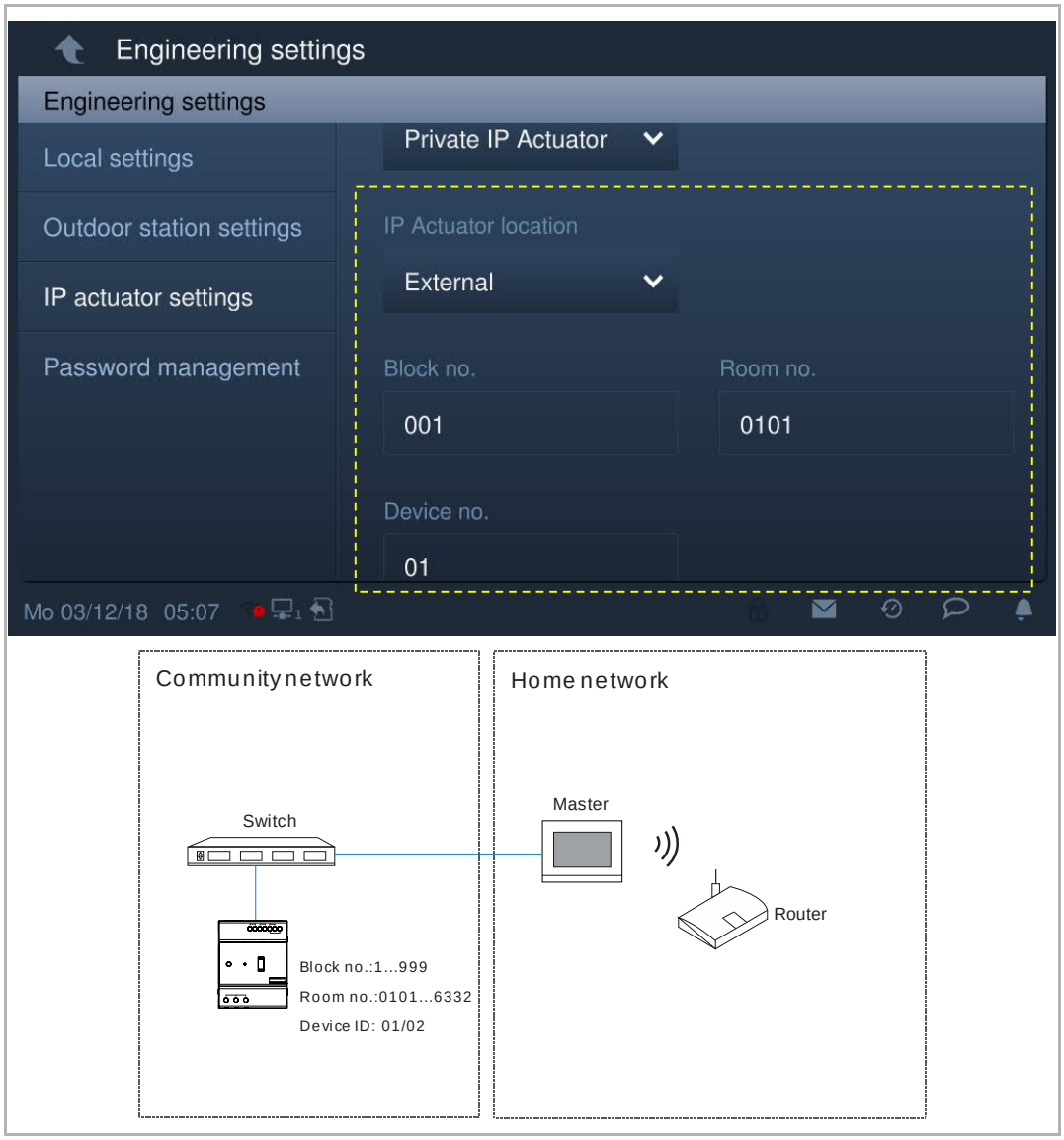
Location of IP actuator = Internal

Device no. range is 1...32 (see diagram below).



Location of IP actuator = External

Block no. range is 1…999; Room no. range is 01…63 + 01…32 (e.g. 0101); device no. range is 01…02 (see diagram below).

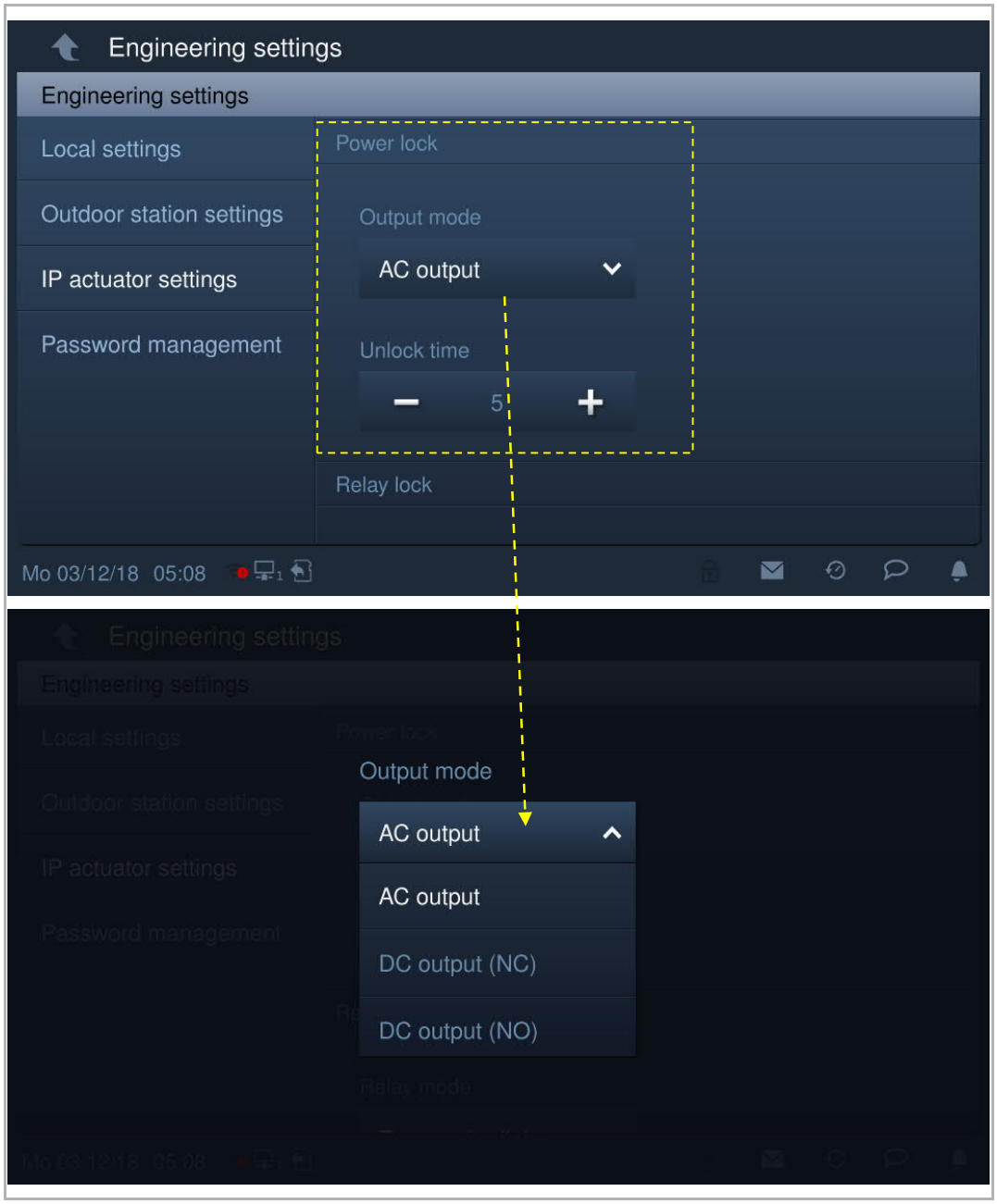


Note

The external and internal types cannot be used in mixed scenarios in the same apartment.

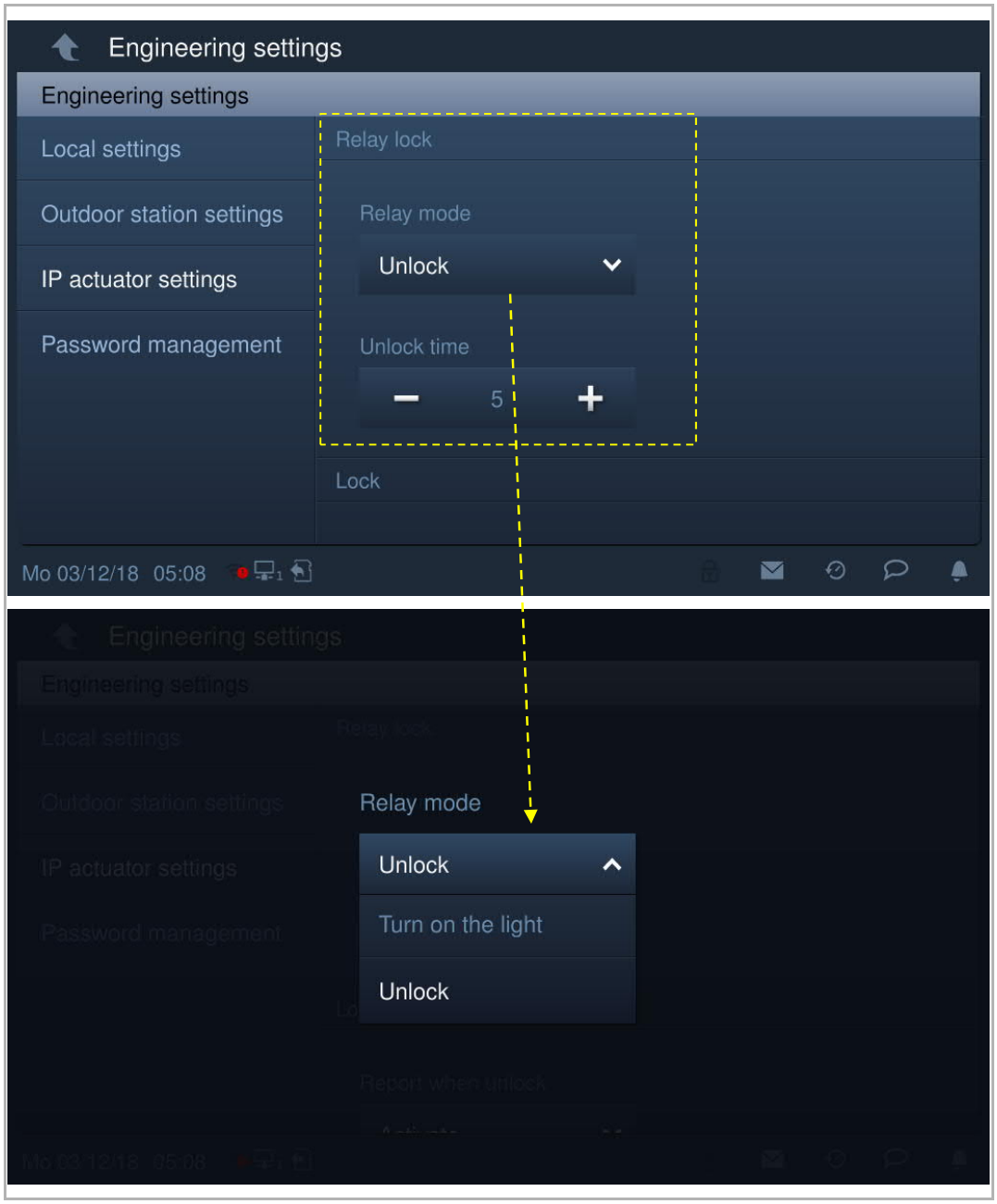
Power lock settings

On the "IP actuator settings" screen, set output mode and unlock time.



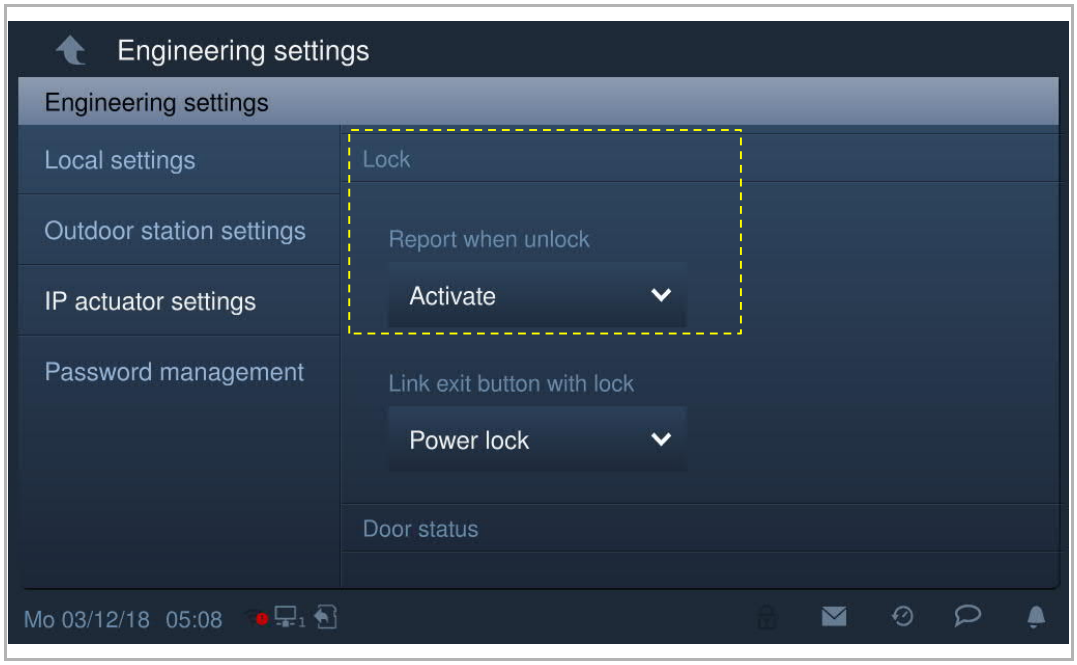
Relay lock settings

On the "IP actuator settings" screen, set Relay mode and unlock time.



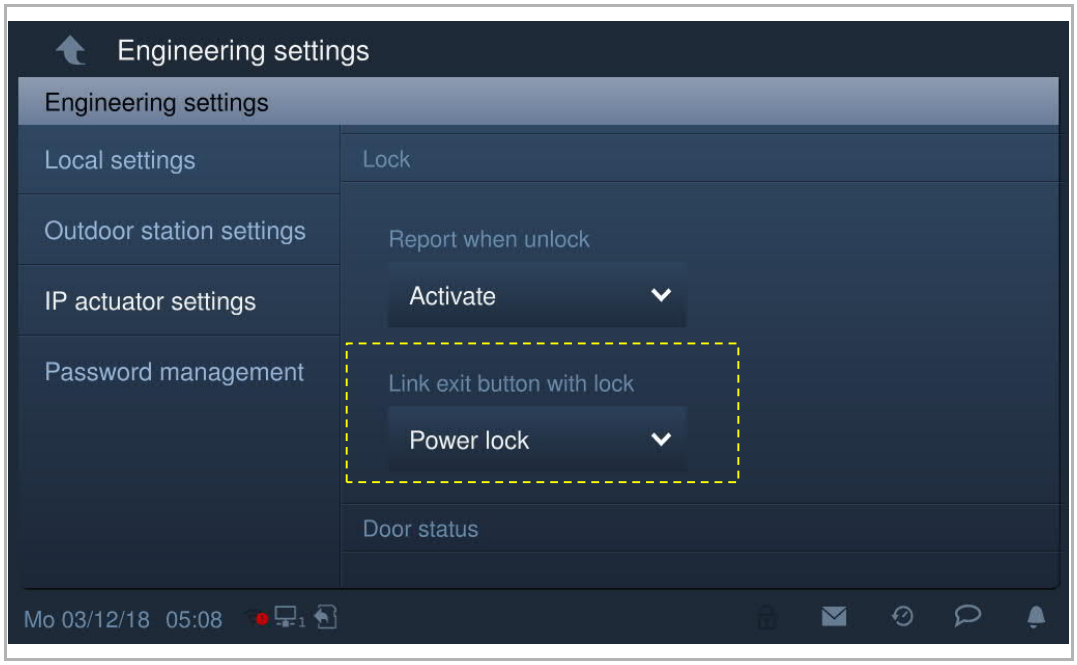
Report when unlock

On the "IP actuator settings" screen, if "Report when unlock" is enabled, each unlock record from the IP actuator will be sent to the management software.



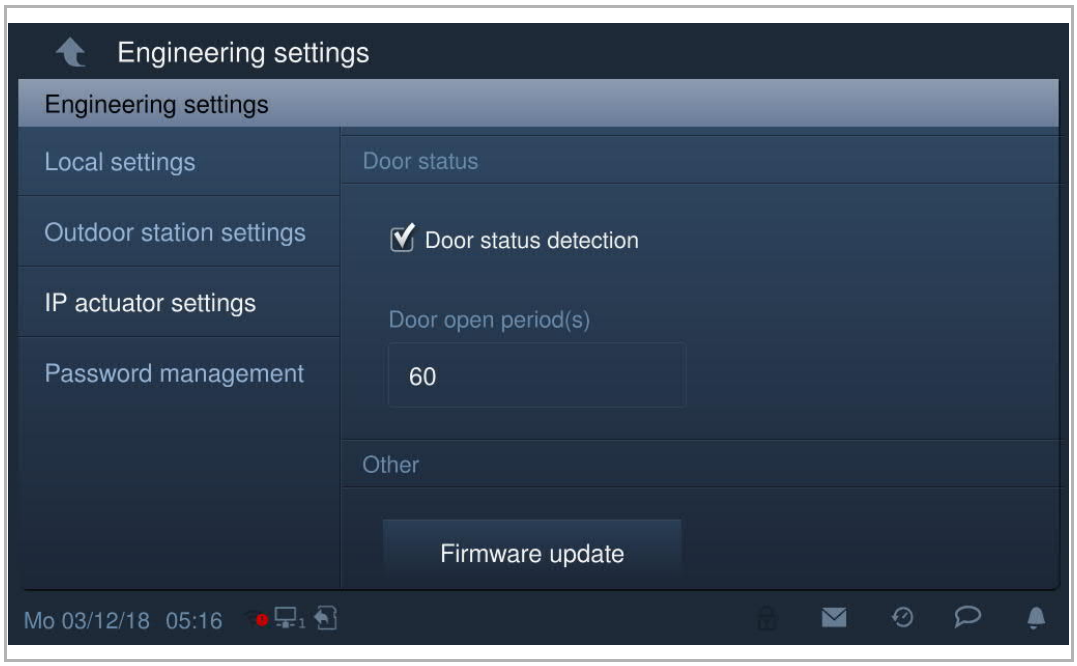
Exit button

On the "IP actuator settings" screen, set the lock type for the exit button ("Power lock" or "Relay lock").



Door status detection

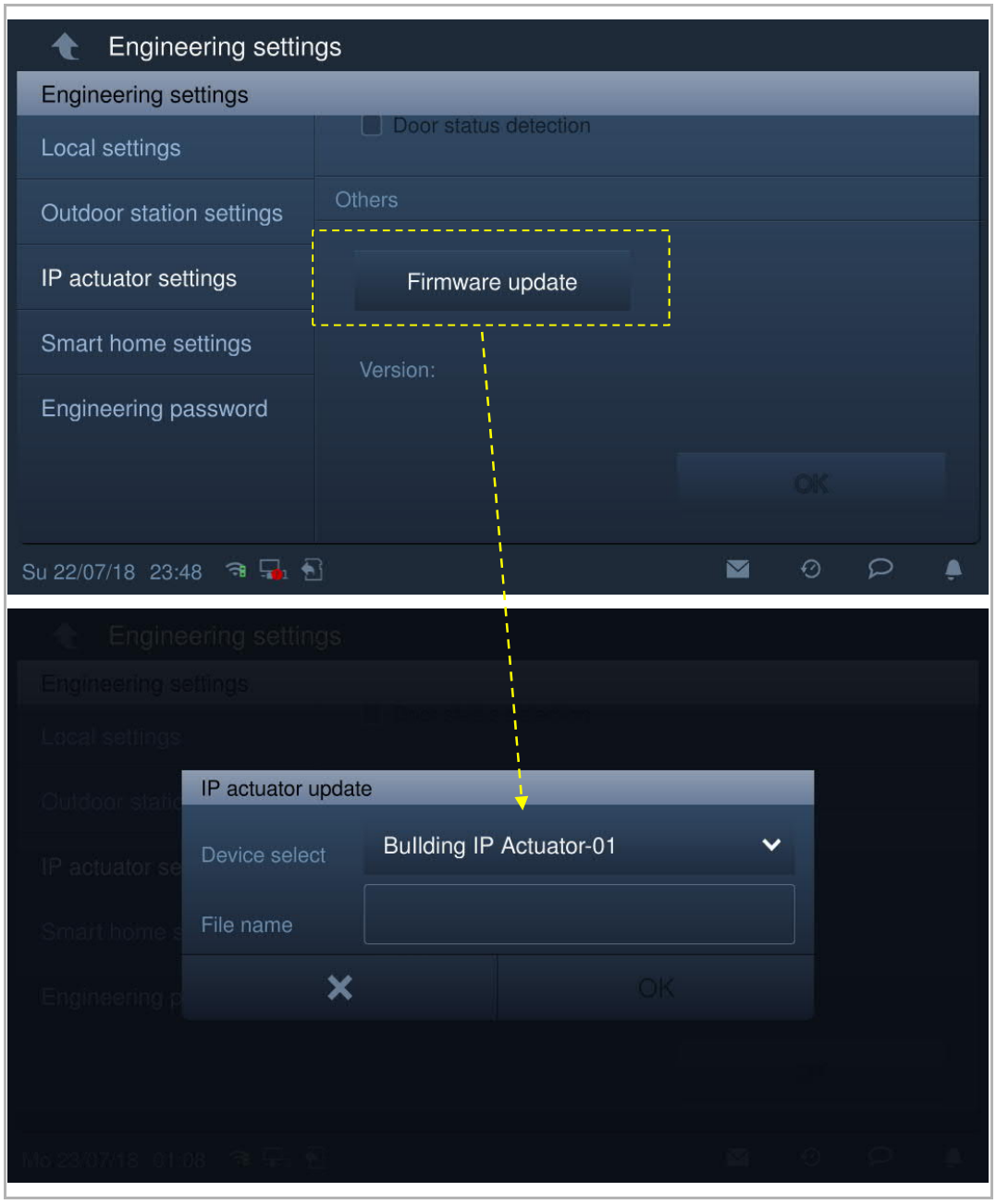
On the "IP actuator settings" screen, tick the checkbox to enable the function. Door open period range is 1…600 s.



Firmware update

The IP actuator must exit engineering mode before the firmware is upgraded.

On the "Engineering settings" screen, click "IP actuator settings" - "Firmware update", select IP actuator and the file from SD card, then click "OK" to update the firmware.



9 Operation

9.1 DES page

No.	Function
1	**Screen name**
2	**Surveillance** Click this icon to initialize surveillance. Please see the "Surveillance" chapter for more details.
3	**Release the default lock** This icon is disabled by default. Please see the "Set the address of default lock" chapter for more details.
4	**Program button** The address of default lock must be set before this function can be used. Please see the " Set the address of default lock" chapter and the "Program button settings" chapter for more details.
5	**Mute** Click this icon to mute the ringtone on this indoor station. Press this icon and hold for 3 s to mute the ringtone of all the devices in the same apartment. Please see the "Mute" chapter for more details.
6	**SOS** In standby mode, press this icon and hold for 1 s to send an SOS call to the guard unit and management software.

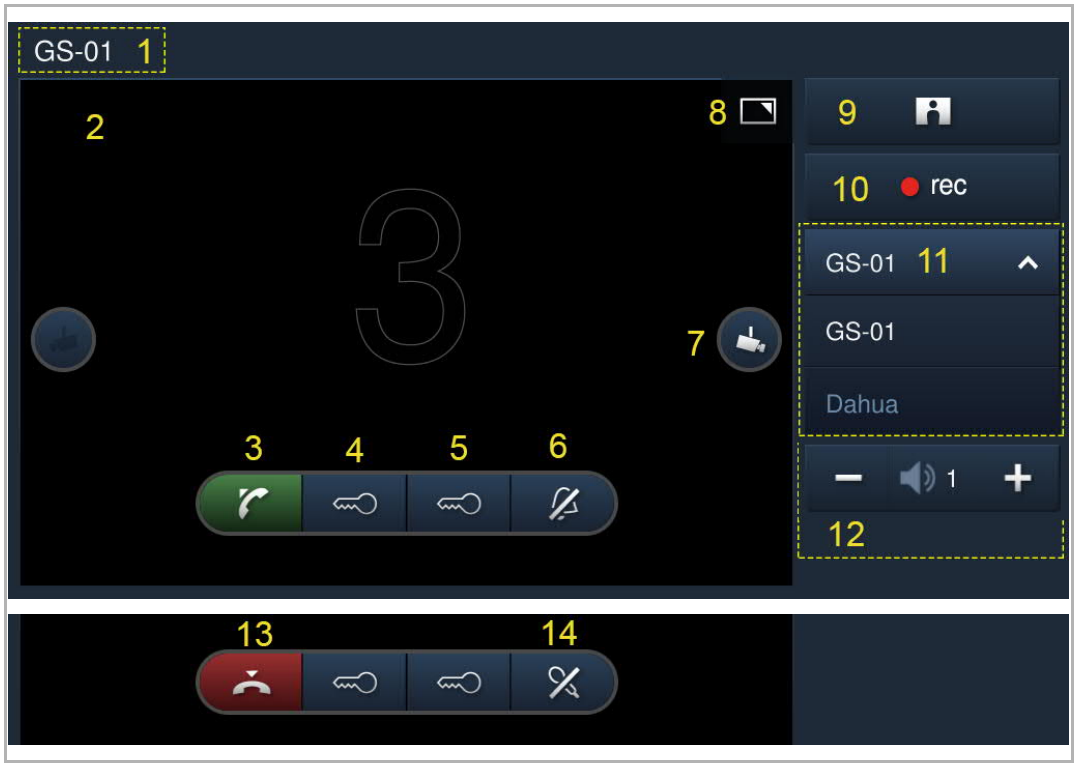
No.	Function
7	**Intercom** Click this icon to enter intercom page. Please see the "Intercom" chapter for more details.
8	**Call guard unit** Click this icon to call the guard unit. Please see the "Call guard unit" chapter for more details.
9	**History** Click this icon to view the history records. Please see the "History" chapter for more details.
10	**Voice message** Click this icon to view the voice messages. Please see the "Voice message" chapter for more details.
11	**Call the lift** Click this icon to call the lift to current floor. Please see the "Call the lift" chapter for more details..
12	**Status bar** Display the status of this indoor station.

9.2 Incoming call

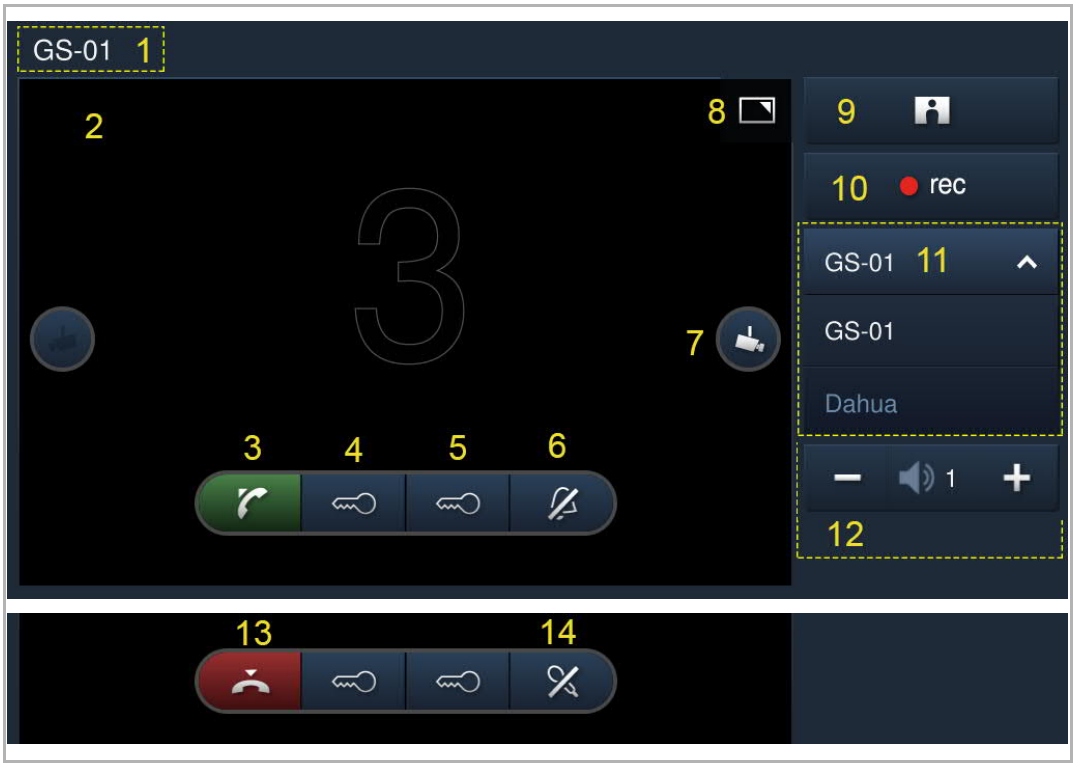
9.2.1 Call from outdoor station/gate station

This indoor station displays the image as full screen by default.

Click to switch to normal screen.

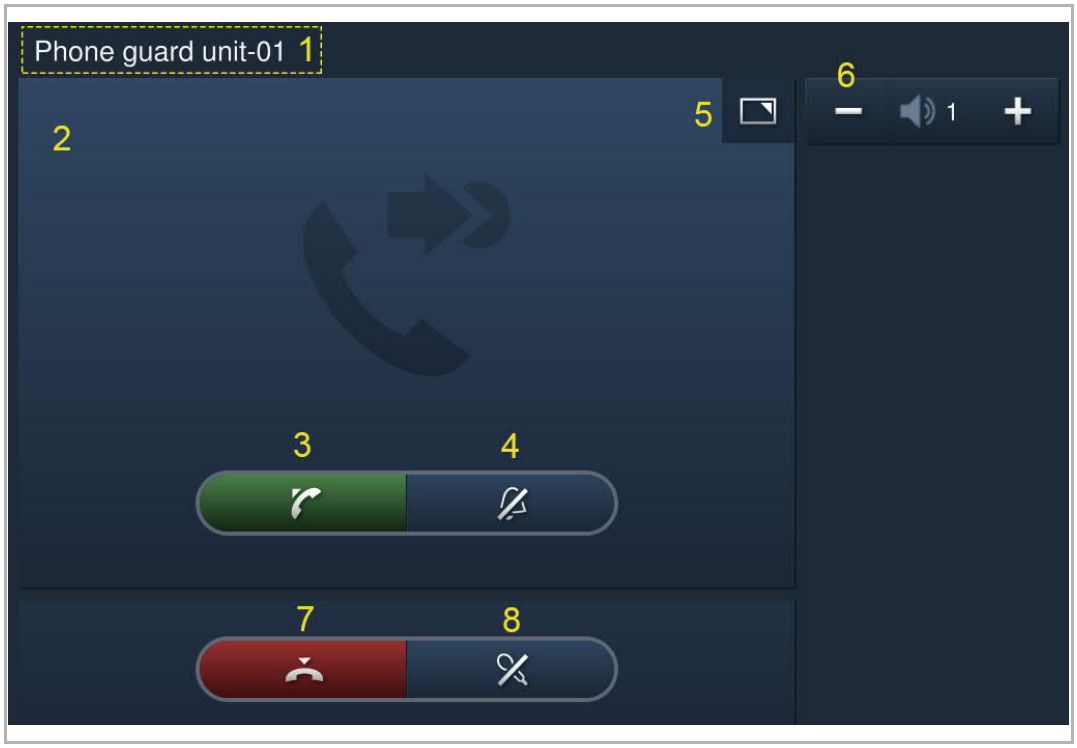


No.	Function
1	Caller ID
2	Display the image of the outdoor stations (The countdown will be displayed in the last 9 s).
3	Click this icon to accept the call.
4	**Release the default lock** Click this icon to release the default lock on the calling outdoor station.
5	**Program button** Click this icon to release the subsidiary lock on the calling outdoor station. It can be set to switch on the light. Please see the "Program button settings" chapter for more details.
6	Click this icon to mute the ringtone on this device.
7	Click this icon to display the image of the next camera.
8	Click here to switch the image between full screen and normal screen.



No.	Function
9	Click this icon to take a snapshot manually.
10	Click this icon to record a video when the SD is inserted.
11	Select the image of the outdoor station or the camera from the drop-down list.
12	Click "+" or "-" to adjust the volume.
13	Click this icon to end the call.
14	Click this icon to mute the volume.

9.2.2 Call from guard unit/indoor station



No.	Function
1	Caller ID
2	Display the the countdown in the last 9 s.
3	Click this icon to accept the incoming call.
4	Click this icon to mute the ringtone on this device.
5	Click this icon to switch between full screen and normal screen.
6	Click "+" or "-" to adjust the volume.
7	Click this icon to end the call.
8	Click this icon to mute the volume.

9.2.3 Call from doorbell

When the doorbell is pressed, this device will display for 5 s on the status bar.

If the doorbell is associated with the camera, this indoor station will display the image from the camera automatically. Please see the "Home monitor" for more details.

9.3 Intercom

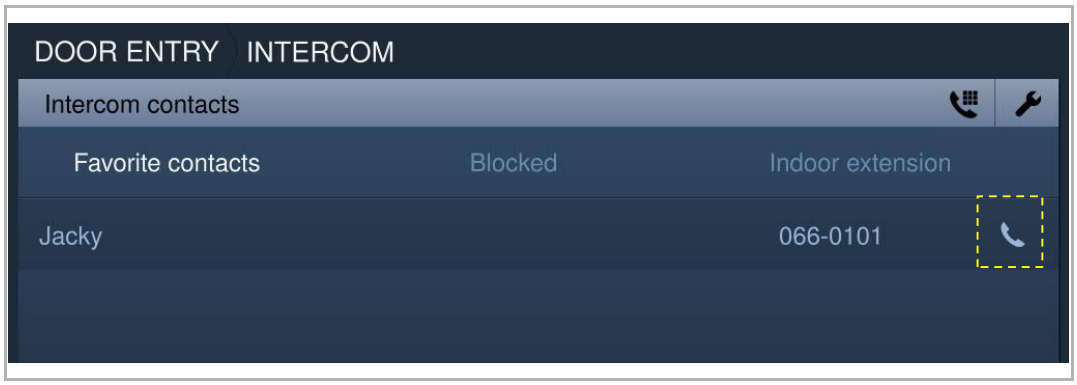
9.3.1 Enter intercom page

In standby mode, click on the DES home screen to enter the corresponding screen.

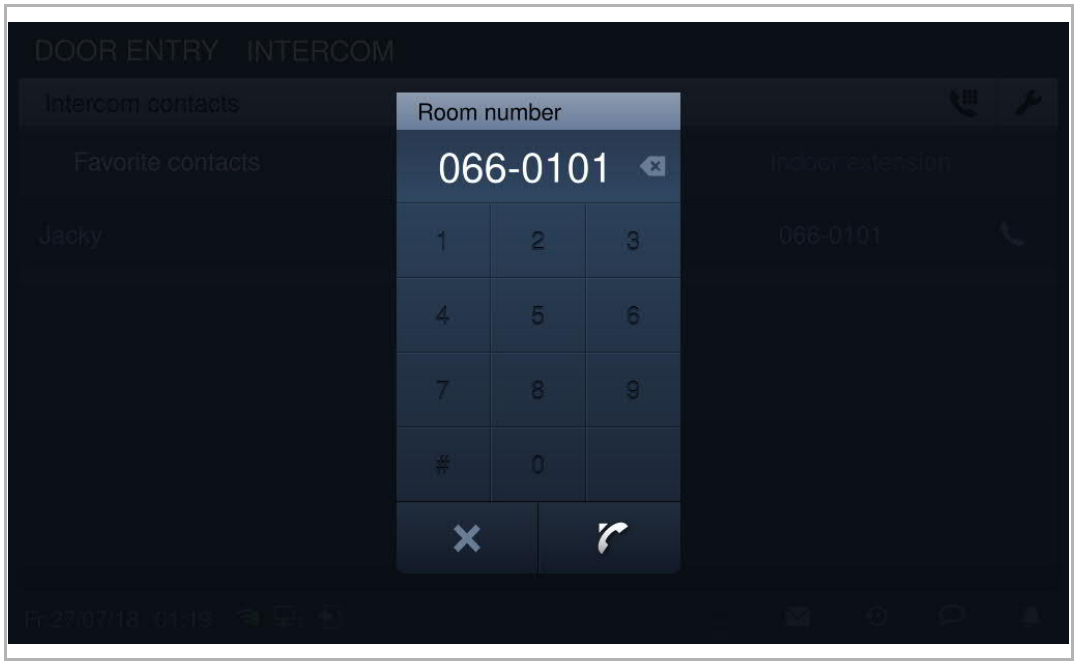
9.3.2 Initiating an intercom call

Home to home

On the "Intercom contacts" screen, click "Favorite contacts", select a contact, then click to initiate an intercom call.



You can also click " and enter the physical address/logic address to initiate an intercom call.

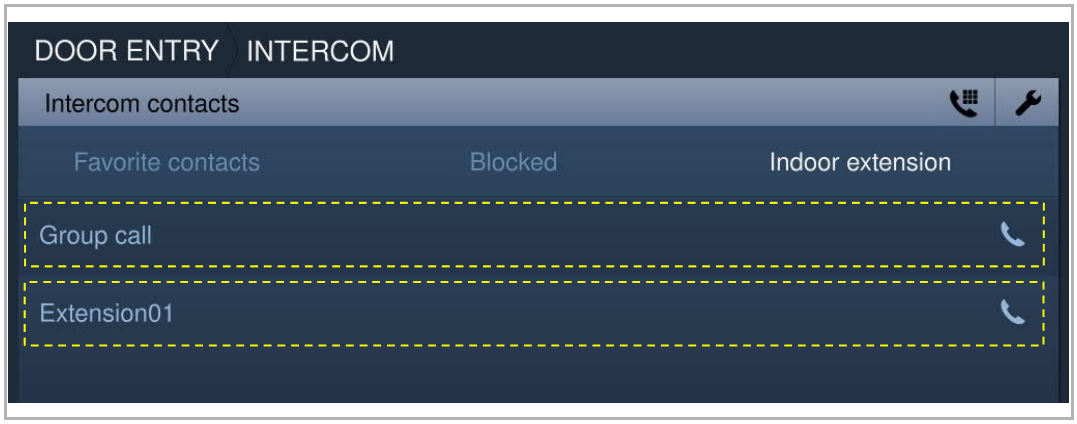


Room to room

On the "Intercom contacts" screen, click "Indoor extension".

Click "Group call" to initiate a call to all indoor stations in the same apartment.

Click a room (e.g. "Extension01") to initiate a call to this indoor station.



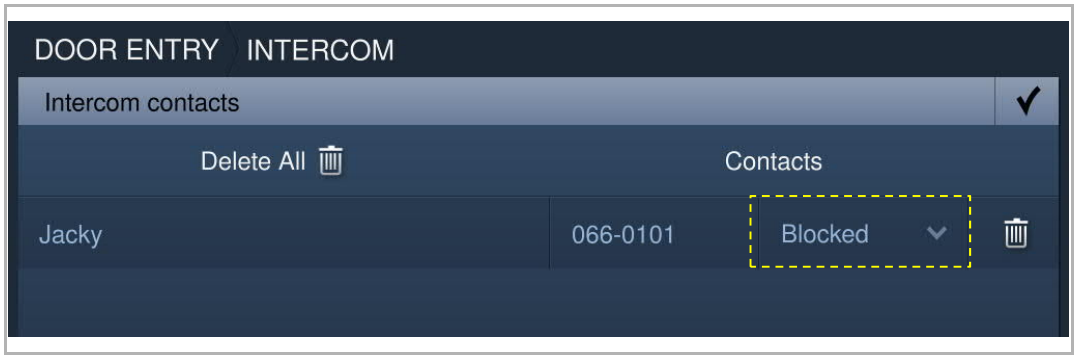
9.3.3 Add to blacklist

There are 2 ways to add a contact to the blacklist.

Option 1

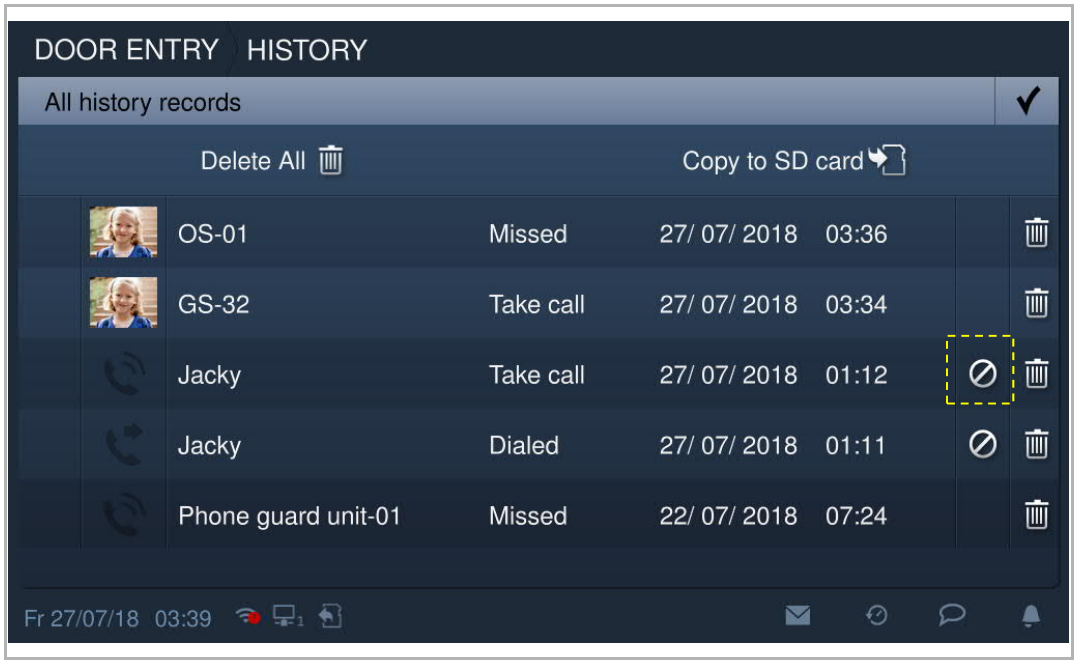
On the "Intercom contacts" screen, click to access the setting.

Click the contact, then select "Blocked" from the drop-down list.



Option 2

On the "History" screen, select an intercom record, then click on the right.



9.3.4 Restoring a contact from the blacklist

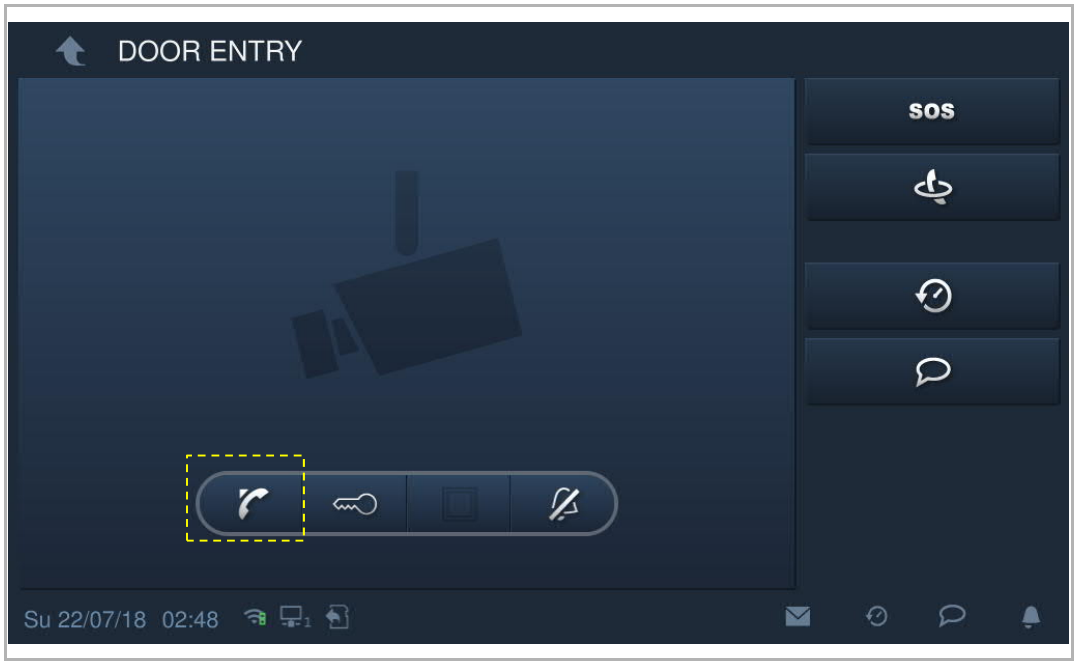
On the "Intercom contracts" screen, press to access the setting.

Click the contact, then select "Allowed" from the drop-down list.

9.4 Surveillance

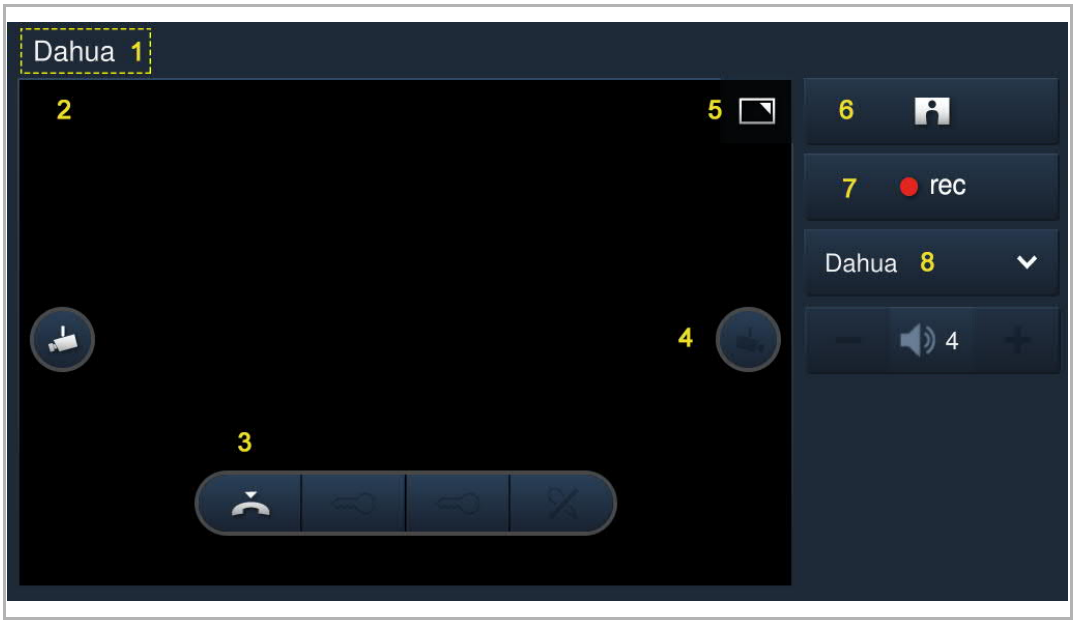
9.4.1 Surveillance from outdoor station

In standby mode, on the DES screen, click to access the corresponding screen.



No.	Function
1	Caller ID
2	Display the image from the outdoor station. (The countdown will be displayed in the last 9 s)
3	End the surveillance.
4	**Release the default lock** Click this icon to release the default lock of the monitored outdoor station.
5	**Program button** Click this icon to release the subsidiary lock on the monitored outdoor station. It can be set to switch on the light. Please see the "Program button settings" chapter for more details.
6	Mute (default) or unmute the volume during surveillance.
7	Click this icon to display the image of the next outdoor station or the next camera.
8	Click here to switch between full screen and normal screen.
9	Click this icon to take a snapshot.
10	Click this icon to record a video only when an SD is inserted.
11	Select the image of the outdoor station or the camera from the drop-down list.
12	Click "+" or "-" to adjust the volume.

9.4.2 Surveillance from IP camera

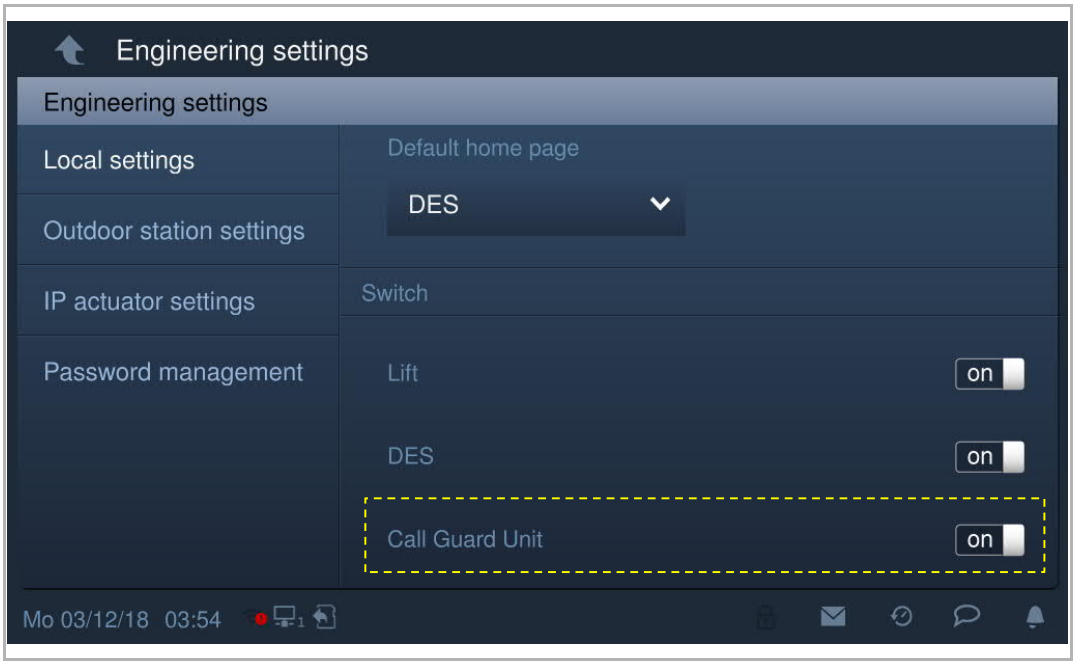


No.	Function
1	Caller ID
2	Display the image from the cameras. (The countdown will be displayed in the last 9 s)
3	End the surveillance.
4	Click this icon to display the image of the next outdoor station or the next camera.
5	Click here to switch between full screen and normal screen.
6	Click this icon to take a snapshot.
7	Click this icon to record a video only when an SD is inserted.
8	Select the image of the outdoor station or the camera from the drop-down list.

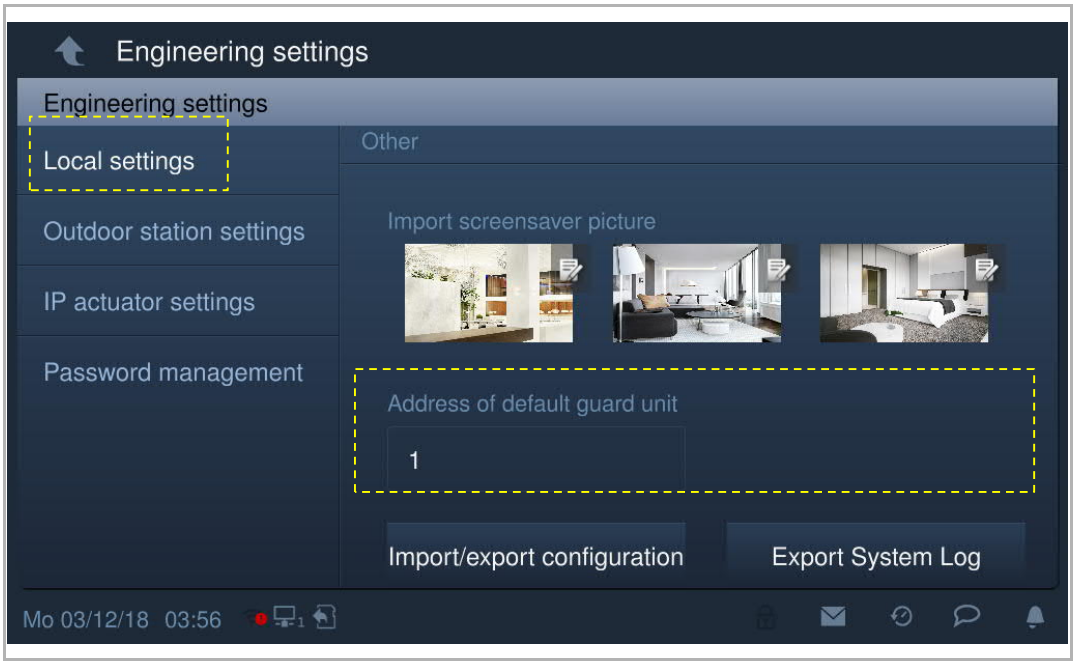
9.5 Call guard unit

"Call guard unit" must be enabled before this function can be used.

On the "Engineering settings" screen, click "Local settings", set "Call Guard unit" to on.



Then set the address of the default guard unit.

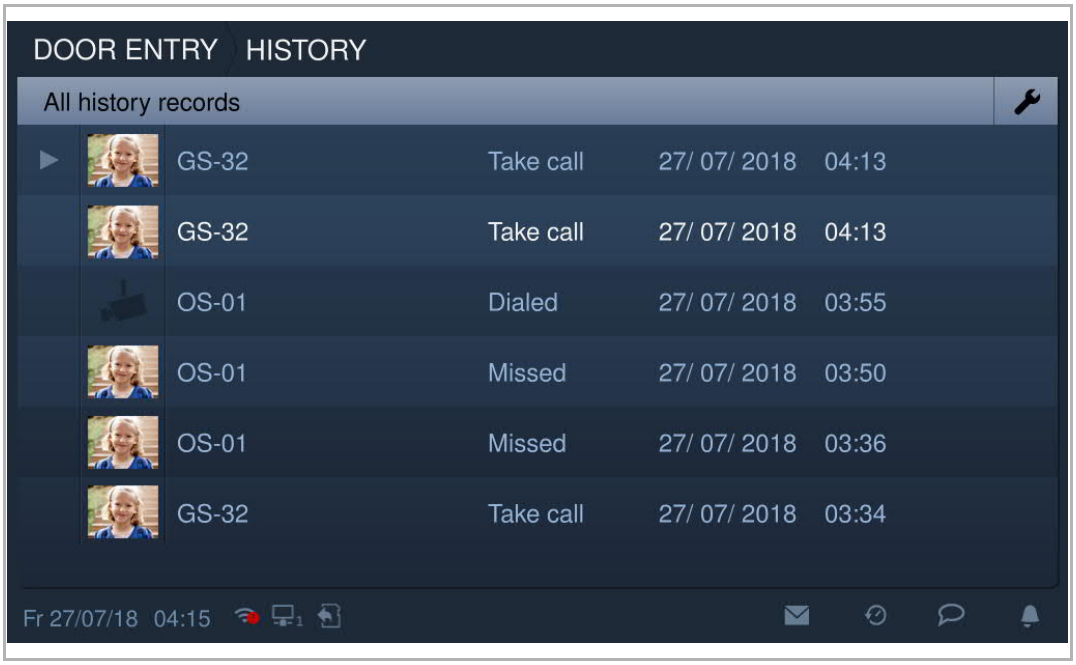


On the "Door entry" screen, click to call the default guard unit.

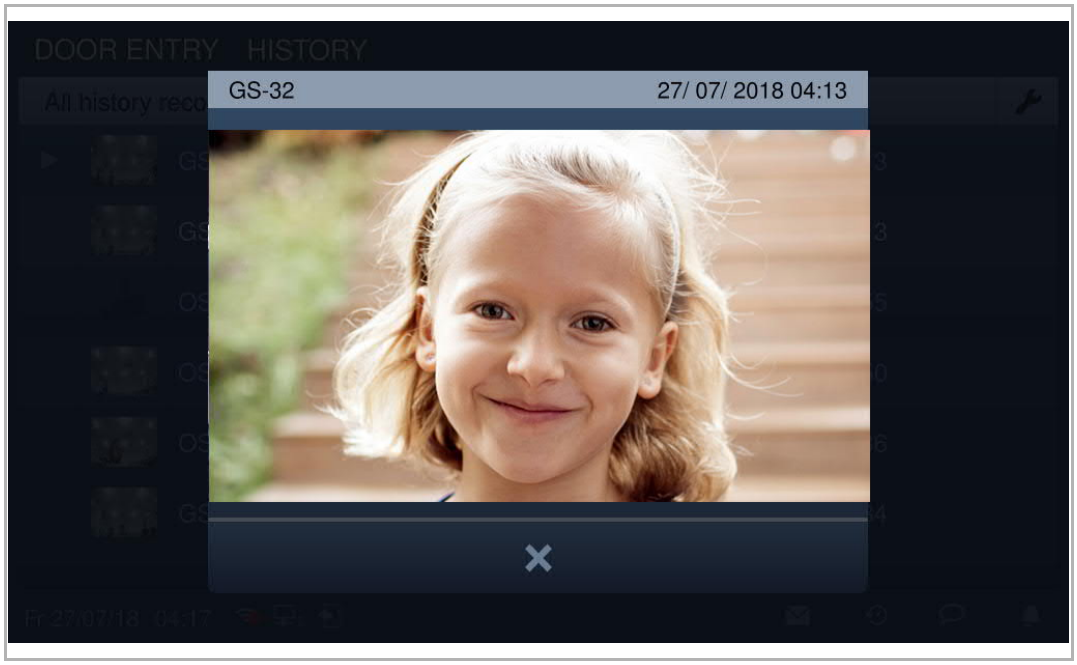
9.6 History

In standby mode, click on the status bar to access the corresponding screen.

A maximum of 30 call records can be stored. Highlighting indicates unread status.

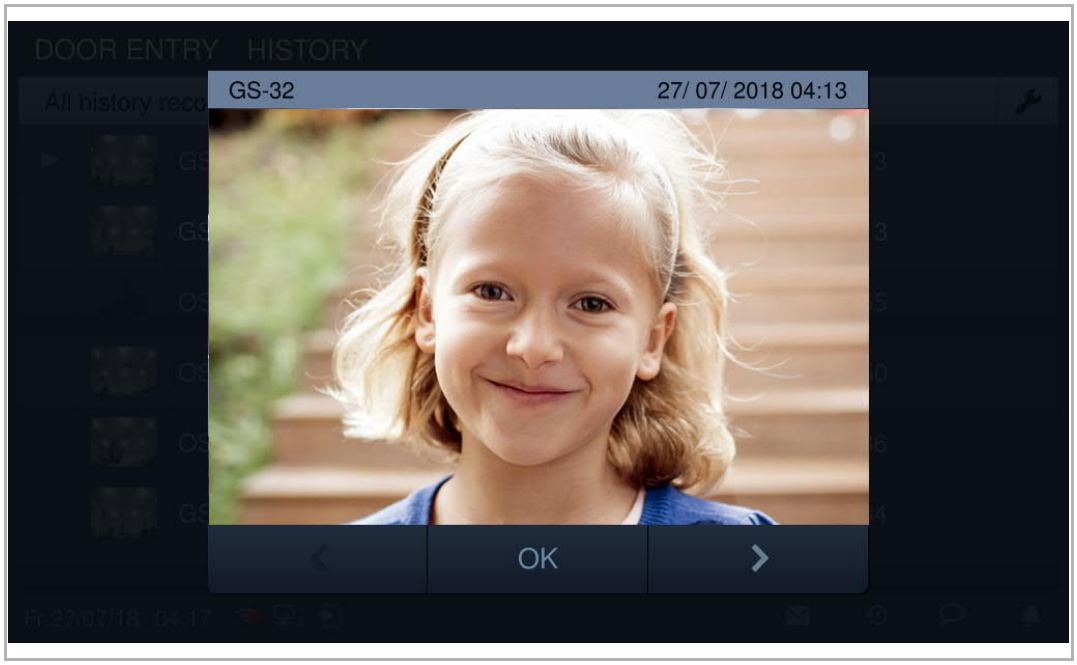


Click ▶ to play the audio or video record on the pop-up window when an SD card is inserted.



Click the picture to see details on the pop up window.

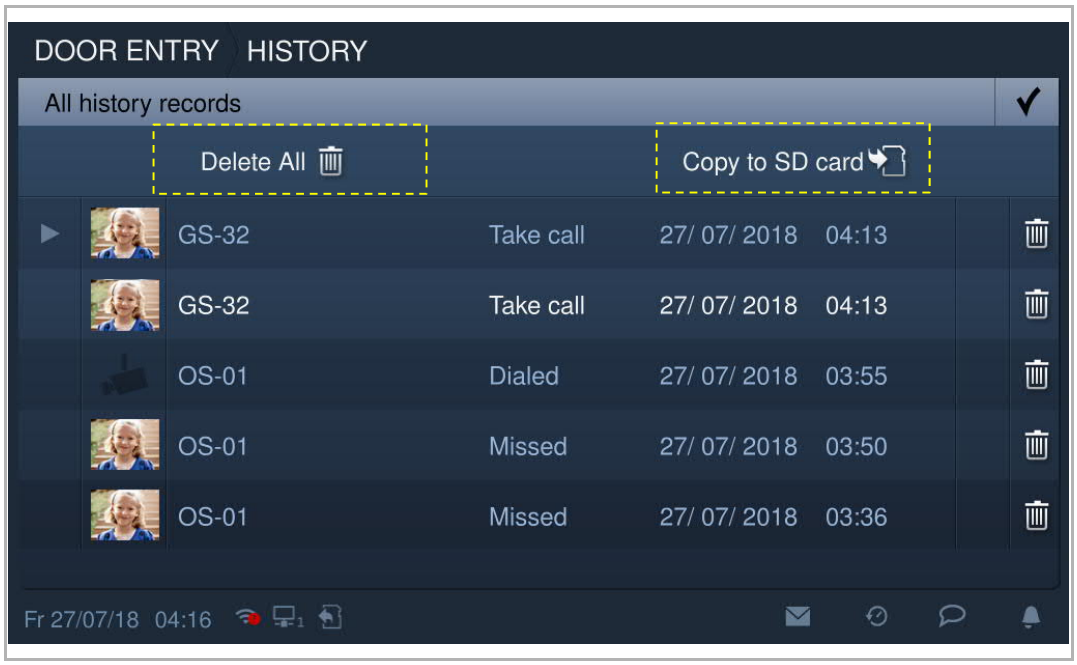
Click "<" or ">" to view the pictures. (a maximum of 3 pictures for each record)



Click to enter the settings.

Click "Delete All" to delete the entire history record.

Click "Copy to SD card" to copy all snapshots to an inserted SD card.



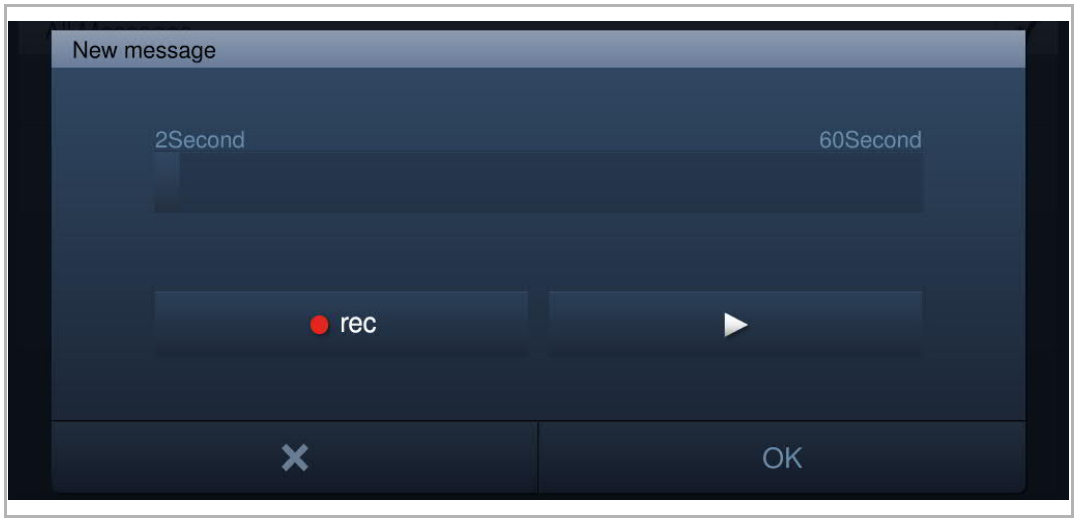
9.7 Voice message

Recording a new voice message

In standby mode, click on the status bar, then click "New voice message" to access the corresponding screen.

Click ● to record a voice message, click ▶ to play the voice message.

A maximum of 30 voice messages can be stored.

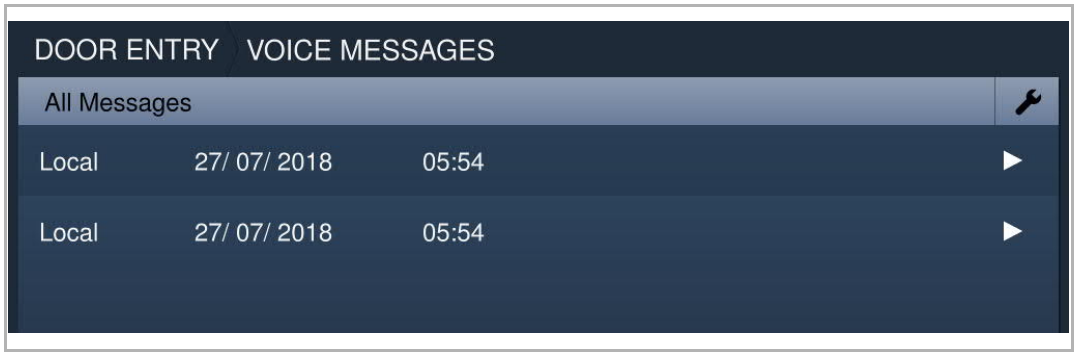


Reading a voice message

The indoor station will flash on the status bar if there is an unread message.

In standby mode, click on the status bar, then click "Voice message" to access the corresponding screen.

Click ▶ to play the voice message.



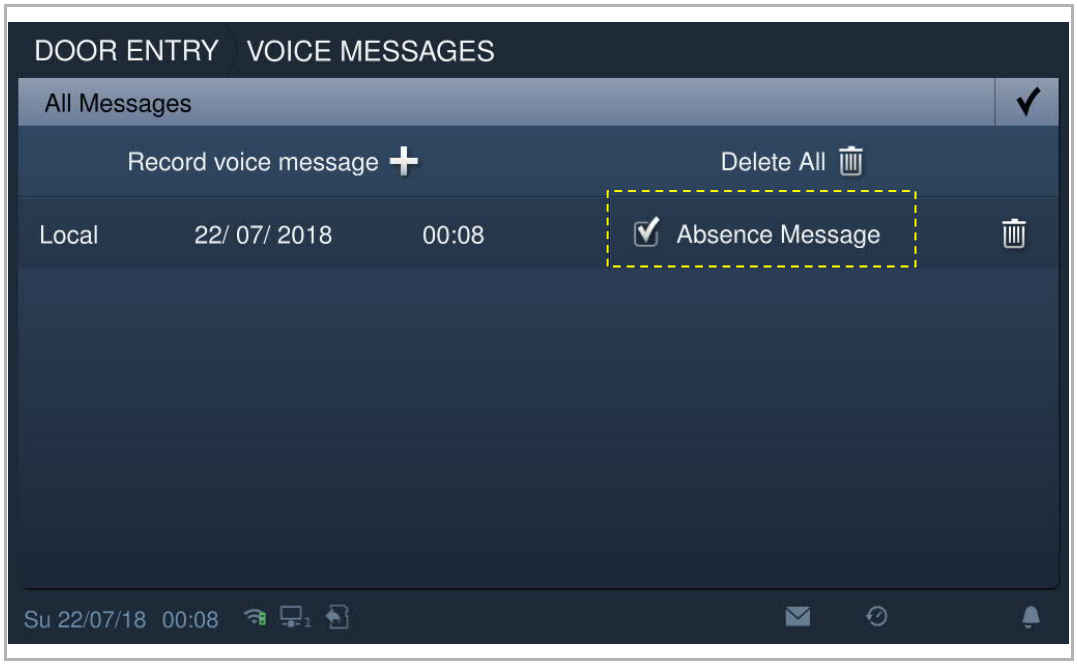
9.8 Absence message

The indoor station allows you to leave voice messages for visitors and to record voice message from visitors.

Enable "Absence message"

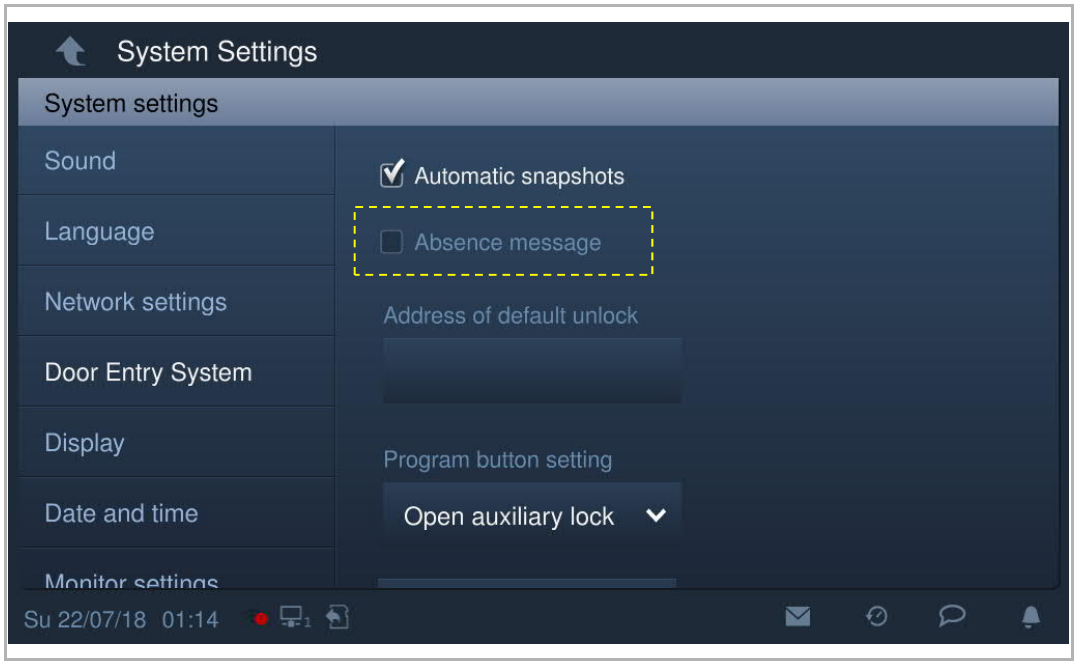
At least one voice message must exist before this function can be used. Please see the "Voice message" chapter to add a voice message.

On the "Voice message" screen, select a voice message and tick the checkbox "Absence message" to enable the function.



Disable "Absence message"

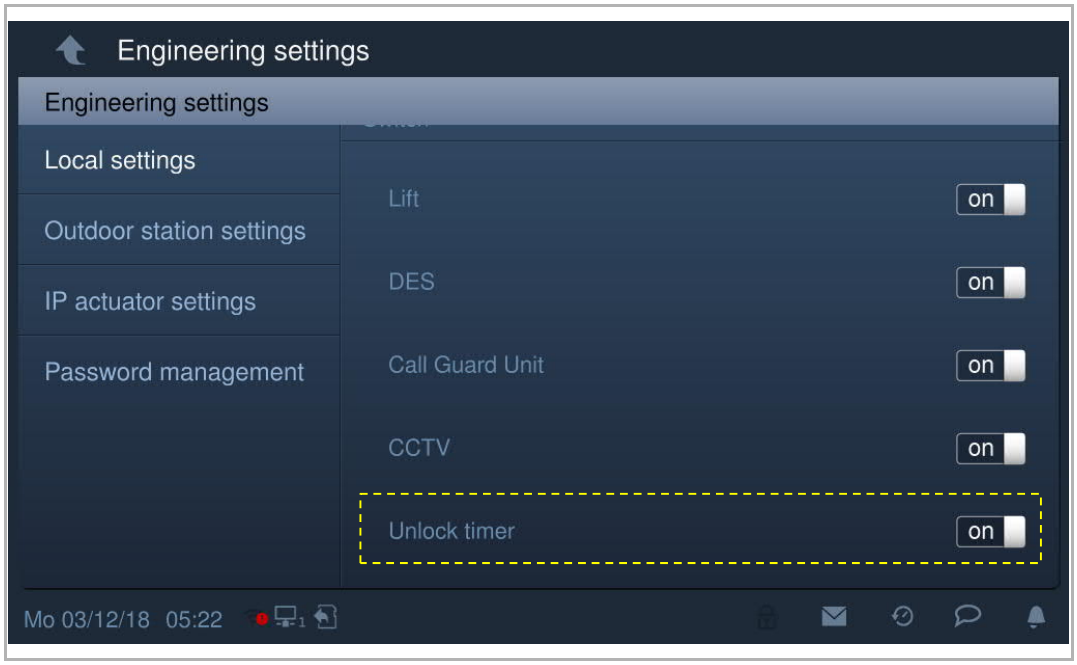
On the "System settings" screen, click "Door Entry System", and untick "Absence message".



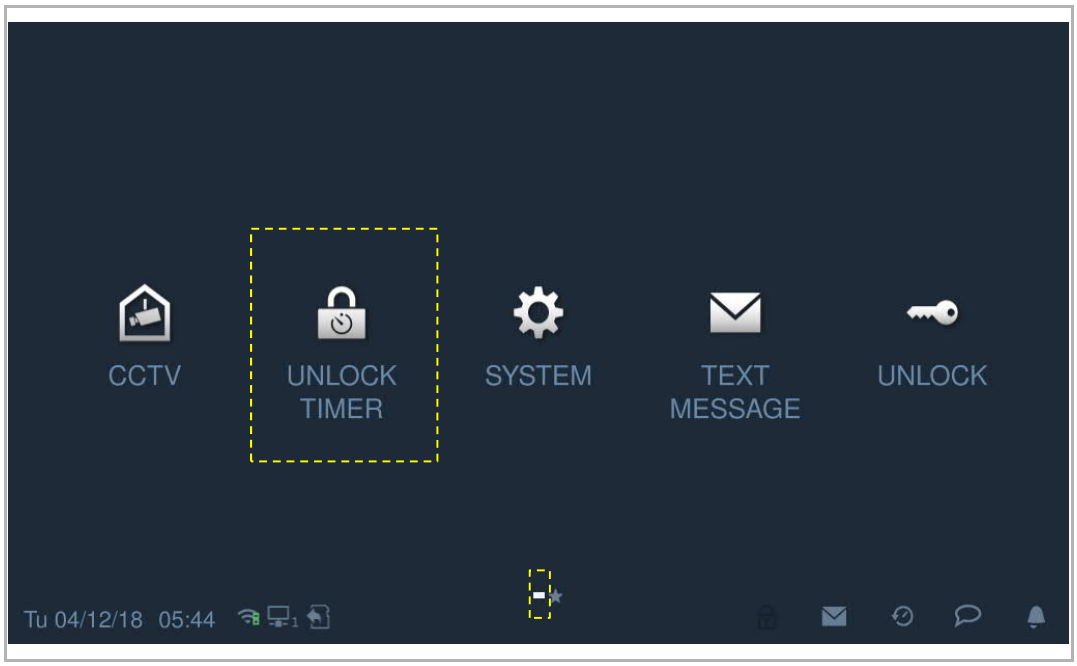
9.9 Automatic unlock

"Unlock timer" should be enabled before this function can be used.

On the "System settings" screen, click "Local settings", then switch "Unlock timer" to on.



In standby mode, click "Unlock timer" to access the corresponding screen.

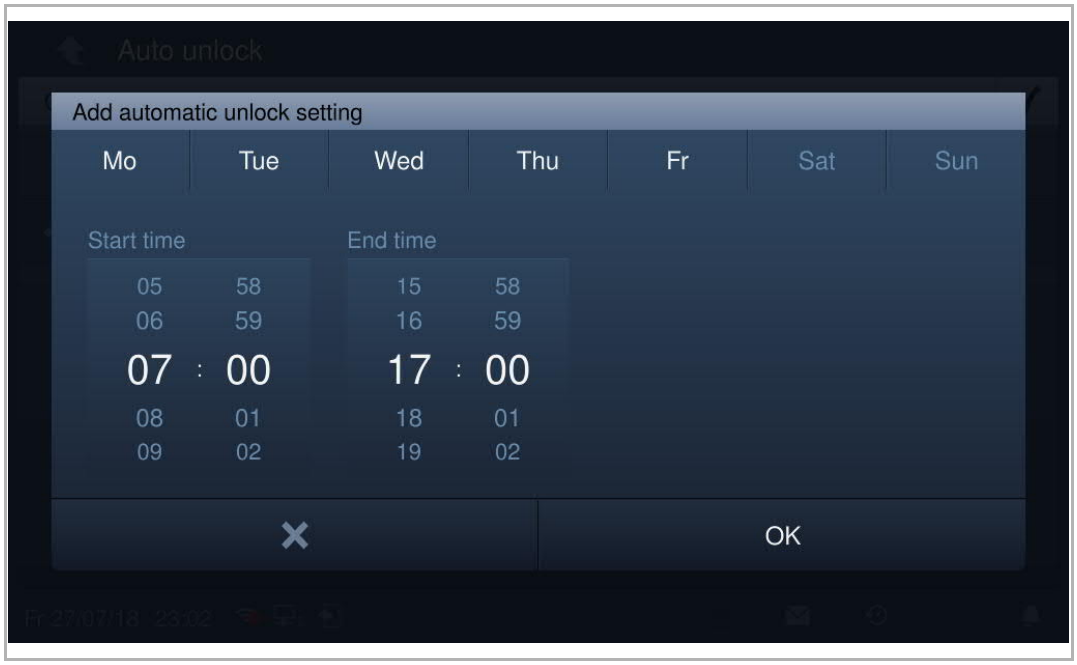


Click to access the settings. Click "+" to add a new setting.

The system allows you to select the days of the week, with the selected options shown with highlighting.

After setting the start time and end time, click "OK" to save.

A maximum of 10 items is supported.

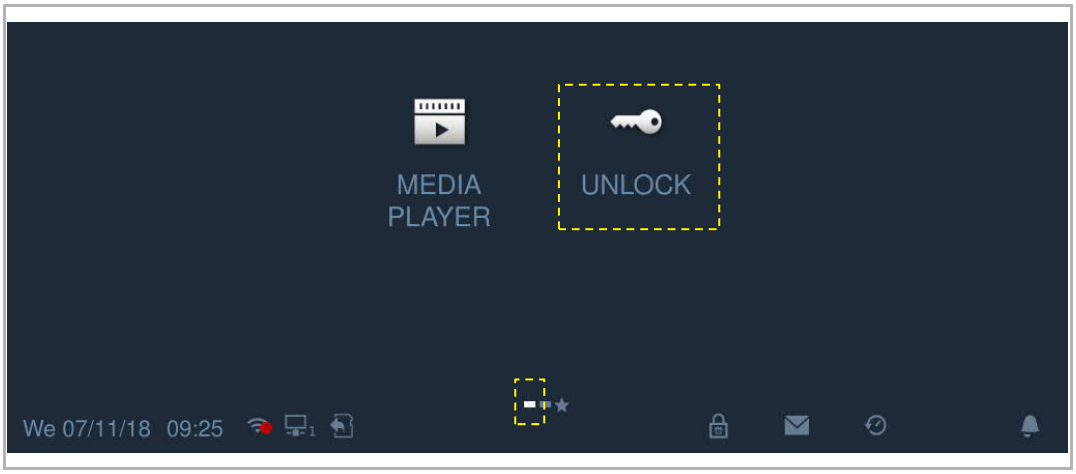


With this setting, this device will enter auto unlock mode automatically and display on the status bar.

The lock will be released automatically 5 s later during an incoming call.

9.10 Standby unlock

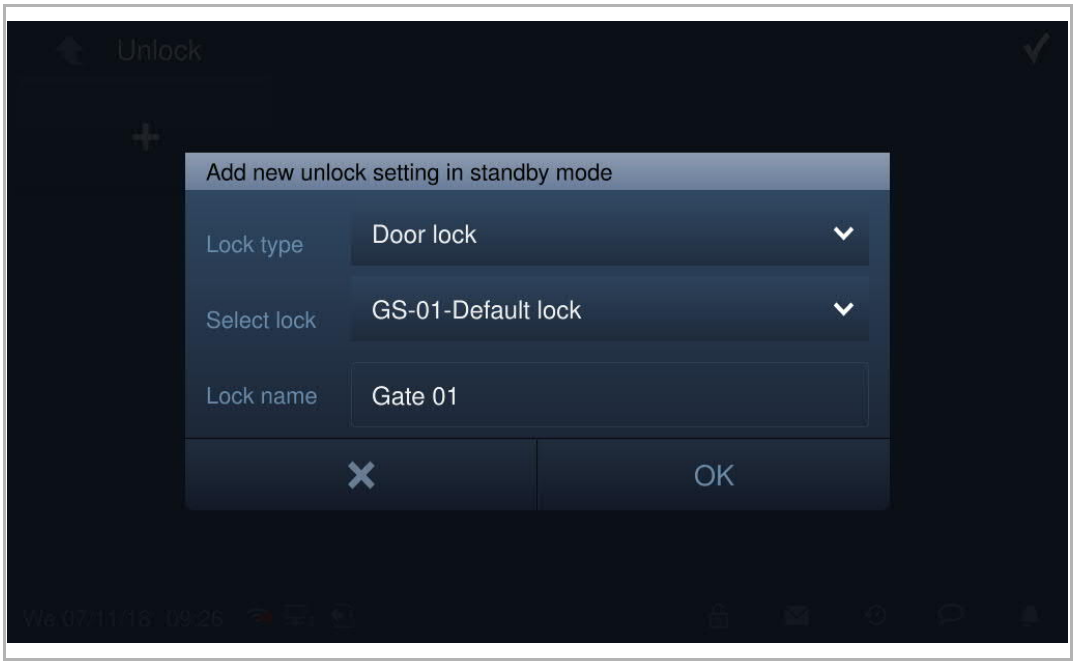
On the extra screen, click "Unlock" to access the settings.



Click and then click "+" to add a new setting.

The lock type can be selected between "Door lock" and "Actuator lock".

Select the lock location from the drop-down list and enter the lock name, then click "OK" to save.



Click to save and quit the setting. A maximum of 16 items is supported.

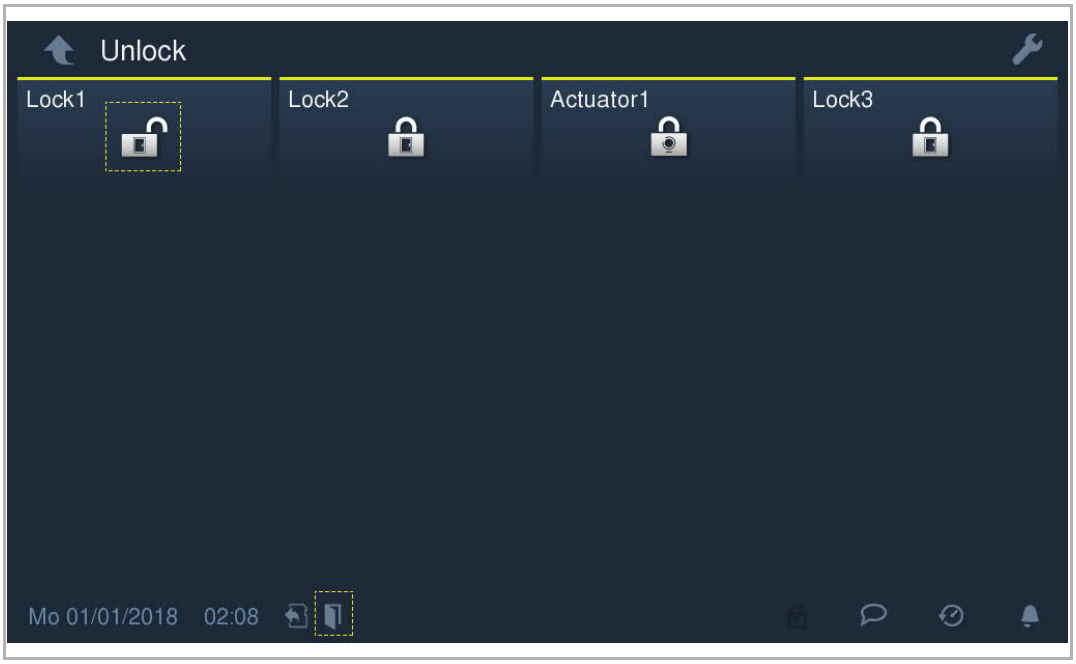
In standby mode, click the lock icon to release the lock.

= the lock is released

= the lock is released

= Door lock

= Actuator lock



9.11 Mute

Mute manually

Click on the status bar and select "Activate mute" to mute the ringtone immediately and is displayed on the status bar.

Mute automatically

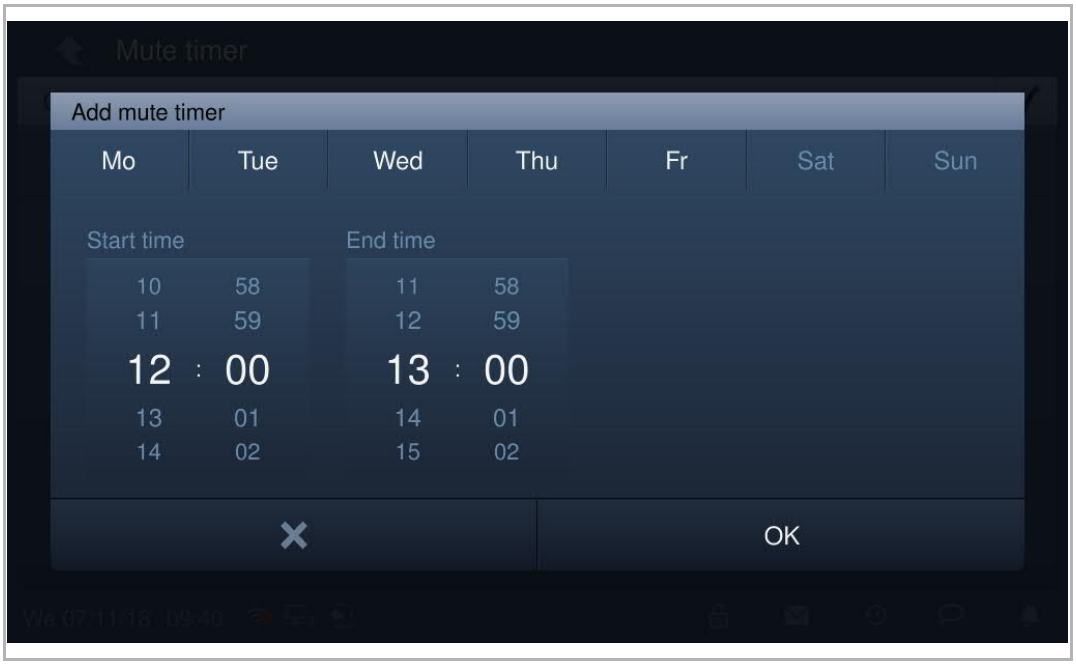
Click on the status bar and select "Mute timer" to access the corresponding screen.

Click and then click "+" to add a new setting.

The system allows you to select the days of the week, with the selected options shown with highlighting.

After setting the start time and end time, click "OK" to save.

A maximum of 10 items is supported.

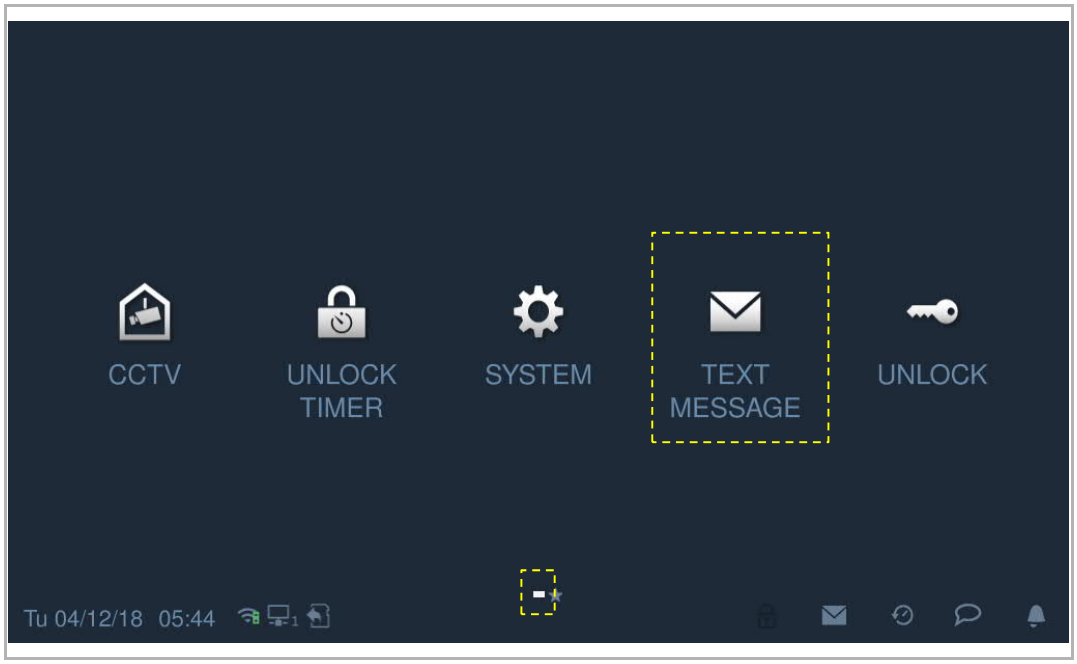


With this timer setting, this indoor station will mute the ringtone automatically and display on the status bar.

9.12 Text message

This indoor station will flash on the status bar if there is an unread text message.

On the extra screen, click "Text message" or click on the status bar to access the corresponding screen.



New text message

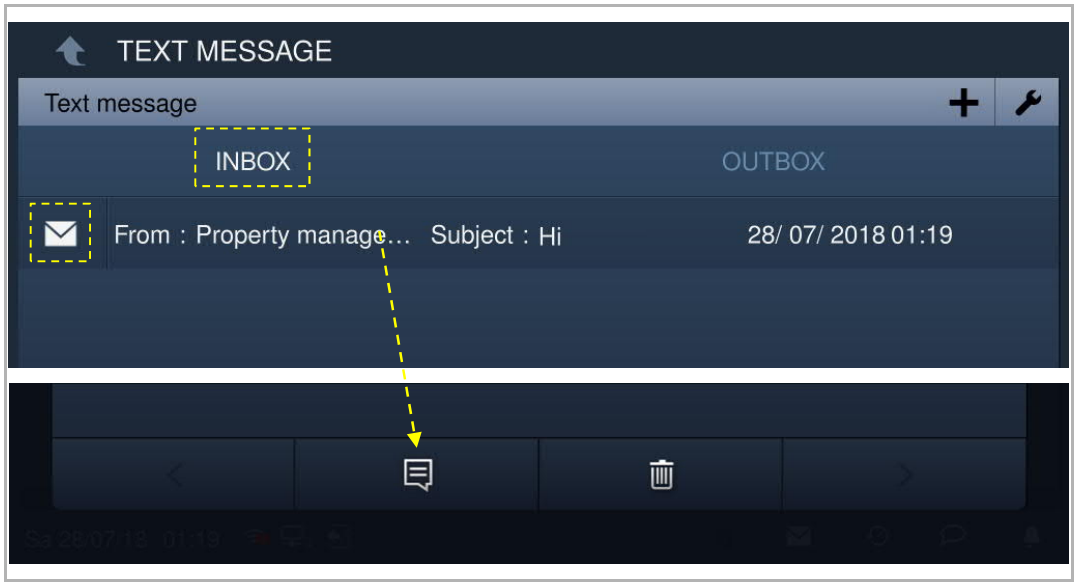
On the "Text message" screen, click , enter the subject and content, then click to send this message to the management software.

Inbox

On the "Text message" screen, click "INBOX" to view the text messages come from management software.

means an unread text message.

Click to reply the text message.

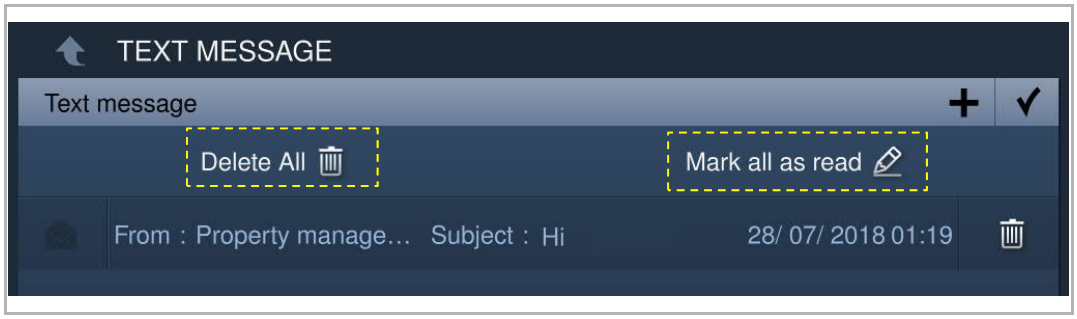


On the "Text message" screen, click "INBOX", then click to access the setting.

Click to mark all text message as read.

Click "Delete all" to delete all text messages.

Click to save and quit the setting.

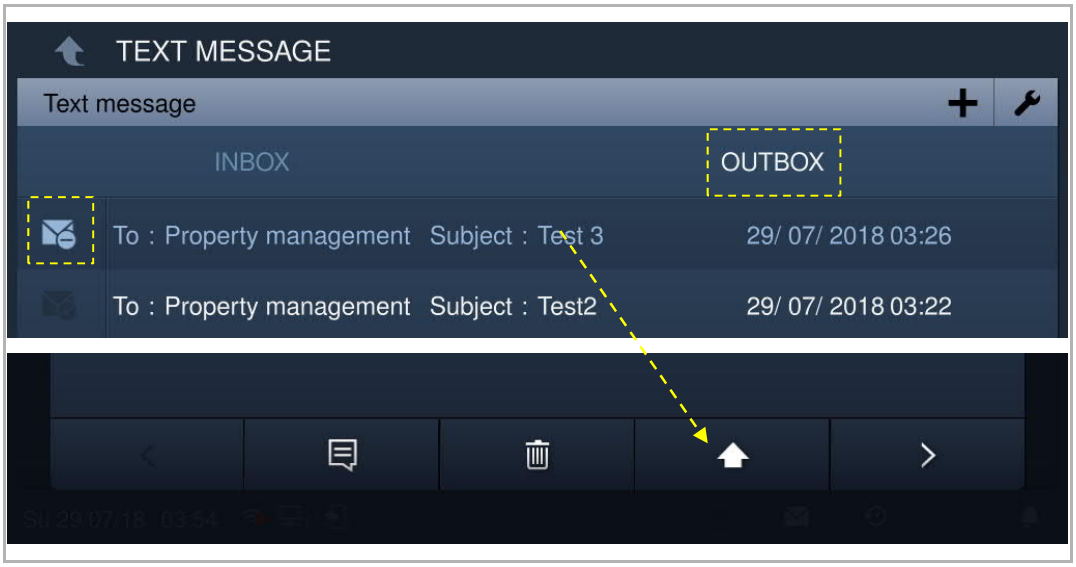


Outbox

On the "Text message" screen, click "OUTBOX" to view the text messages sent to management software.

means an undelivered message.

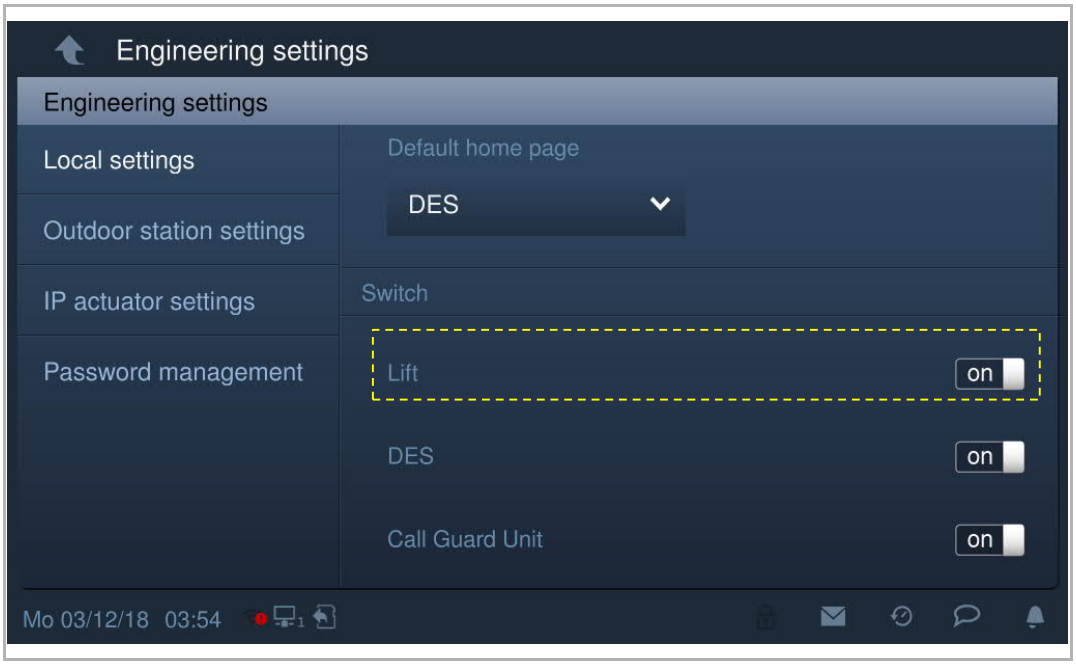
Click to resend the text message.



9.13 Call the lift

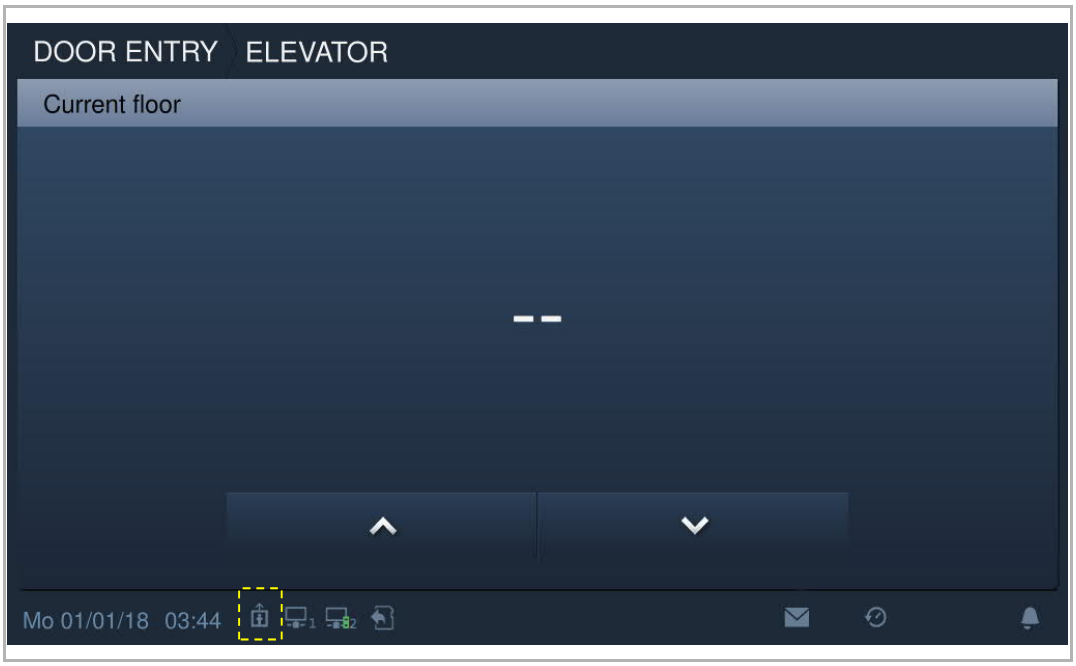
"Lift" must be enabled before this function can be used.

On the "Engineering settings" screen, click "Local settings", then switch "Lift" to "on".



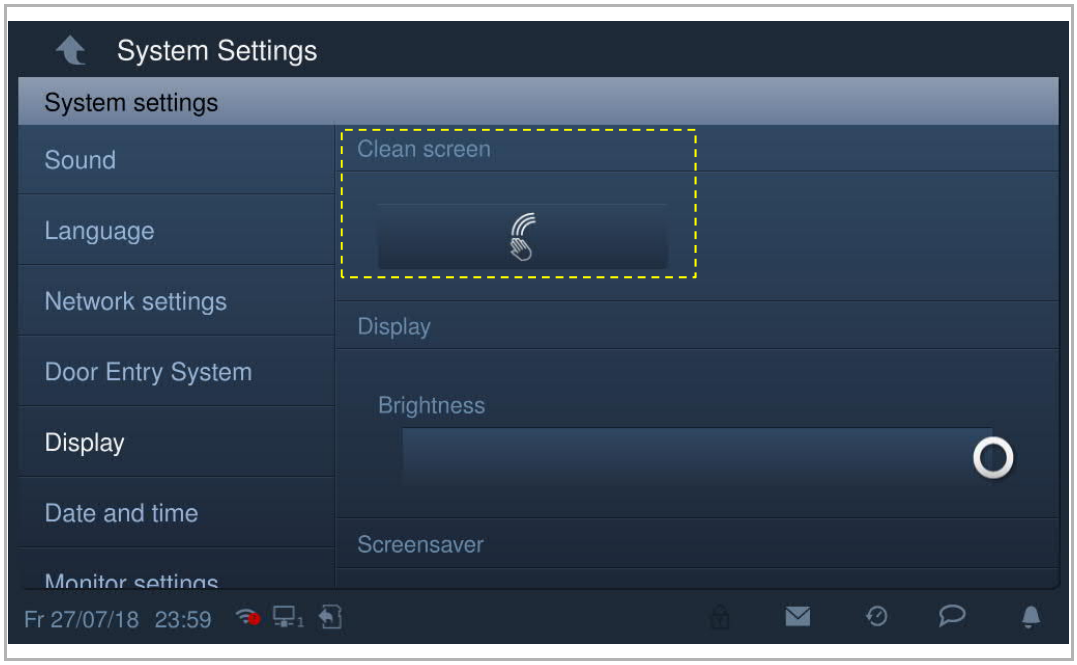
On the Door Entry screen, click to call the lift to the current floor.

will be displayed on the status bar if successful.

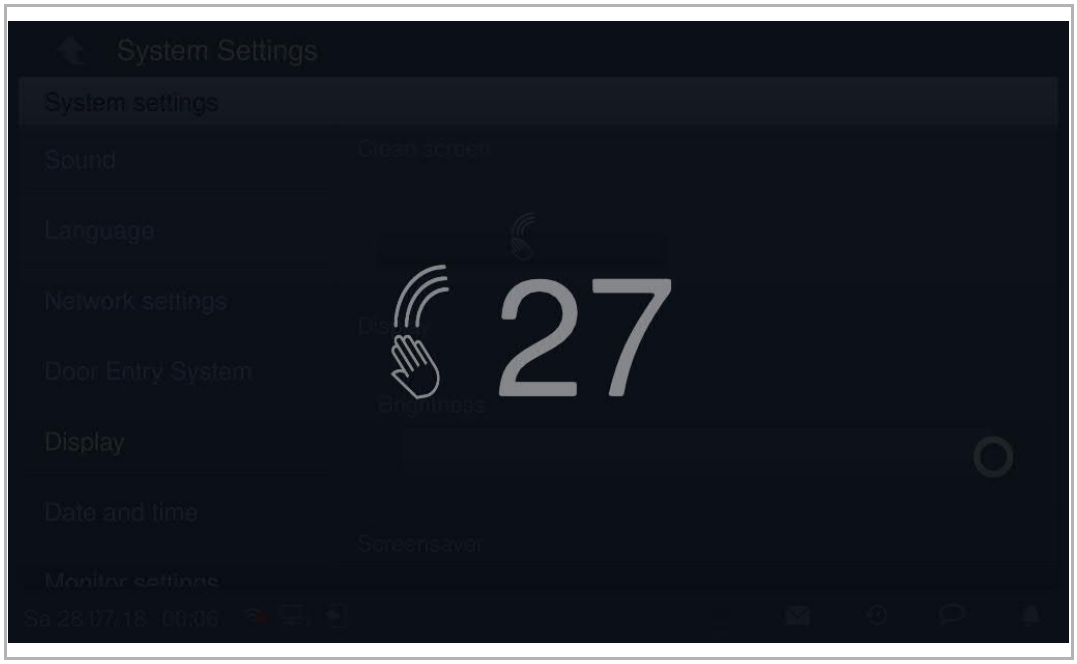


9.14 Clean screen

On the "System settings" screen, click "Display" , then click to access the corresponding screen.



The countdown (1…30) is displayed on the screen. Any operations on the screen will be invalid. This device will exit "Clean screen" mode if an incoming call is received.



10 FCC

FCC ID: 2AEBL-H82364

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Only operate the device in accordance with the instructions supplied.

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

11 Cyber security

11.1 Disclaimer

H8236 products are designed to be connected and to communicate information and data via a network interface, which should be connected to a secure network. It is customer‘s sole responsibility to provide and continuously ensure a secure connection between the product and customer‘s network or any other network (as the case may be) and to establish and maintain appropriate measures (such as but not limited to the installation of firewalls, application of authentication measures, encryption of data, installation of antivirus programs, etc.) to protect the H8236 product, the network, its system and interfaces against any kind of security breaches, unauthorized access, interference, intrusion, leakage and/or theft of data or information. ABB Ltd and its affiliates are not liable for damages and/or losses related to such security breaches, unauthorized access, interference, intrusion, leakage and/or theft of data or information.

Although ABB provides functionality testing on the products and updates that we release, you should institute your own testing program for any product updates or other major system updates (to include but not limited to code changes, configuration file changes, third party software updates or patches, hardware change out, etc.) to ensure that the security measures that you have implemented have not been compromised and system functionality in your environment is as expected.

11.2 Performance and service

Network performance

Type	Value
Ethernet	36 Mbps (53,568 packets/s)
ARP	17 Mbps (25,296 packets/s)
ICMP	14 Mbps (20,832 packets/s)
IP	22 Mbps (32,736 packets/sec)

Port and service

Port	Service	Purpose
5060	UDP	To be used by sip client.
5061	TCP	To be used by sip server
5070	TCP	To be used by sip server
50602	UDP	To be used by sip server
7777	TCP/UDP	To be used for device management
7006	TCP	To be used for connectivity detection when this feature is enabled.
8001	TCP	To be used for calling history report.
8887	TCP	To be used for firmware updating.
10777	TLS	Secure channel for device management
11778	TLS	Secure channel for connectivity detection when this feature is enabled
12779	TLS	Secure channel for calling history report

11.3 Deployment guideline

Please do not install it within a public place and to ensure that physical access to the devices is granted only to trusted personal.

All devices need to work in security mode by default and. all devices in one system shall be signed by a public CA at commissioning stage, normally management software works as CA.

It’s suggest compatible mode only be used when device need to communicate with previous generation products. In this mode, data transmission between devices are not encrypted, it may lead to data leaks and has the risk of being attacked.

When user decide to remove the device from system, user shall reset the device to factory setting in order to remove all the configuration data and sensitive data in the device. This will prevent sensitive data leak.

It is recommended to apply "MAC filter" and "Rate limiter“ in the switch to prevent DOS attack.

11.4 Upgrading

Device supports firmware updating via SD card, in this mode, a signature file will be used to verify the authentication and integrity of firmware.

If Internet services available, device will connect to MyBuilding sever to get new firmware automatically, but needs to be confirmed by end user every time. A signature file will be used to verify the authentication and integrity of firmware.

11.5 Backup/Restore

Some configurations of device can be exported to SD card for backup purpose, and on later use, imported it again to restore configuration.

When connect to management device, user can backup and restore configurations on management device side, this feature is enable or disable by a local setting item.

11.6 Malware prevention solution

The device H8236 is not susceptible to malware, because custom code cannot be executed on the system. The only way to update the software is by firmware upgrading. Only firmware signatured by ABB can be accepted.

11.7 Password rule

The user needs to change the engineering password when entering the engineering settings for the first time. This engineering password is not allowed continuously increasing or decreasing numbers (e.g. 12345678, 98765432). And three consecutive identical numbers are also not allowed. (e.g. 123444, 666888)

Your passwords could not known by the others to guarantee the security.

We reserve the right to at all times make technical changes as well as changes to the contents of this document without prior notice.

The detailed specifications agreed to at the time of ordering apply to all orders. ABB accepts no responsibility for possible errors or incompleteness in this document.

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