ABB Welcome®
M22344-W
Basic 4.3" video hands-free indoor station

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1   Safety

⚠ **Warning**

Electric voltage!

Direct or indirect contact with live components can cause dangerous currents to flow through the body, which may result in electric shock, burns or even death.

– Always disconnect the main power supply prior to installation and/or disassembly.
– Work on the 110 V - 240 V supply system must be performed only by qualified personnel.

2   Intended use

The M22344-W is an integral part of the ABB Welcome door entry system and operates exclusively with components from this system. The device must only be installed in dry indoor rooms.

3   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 and should be disposed of at an appropriate recycling facility.

3.1   ABB devices

All packaging materials and devices from ABB bear the markings and test seals for proper disposal. Always dispose of the packaging material, electronic devices and their components via an authorized recycling facility or disposal company.

4   Operations

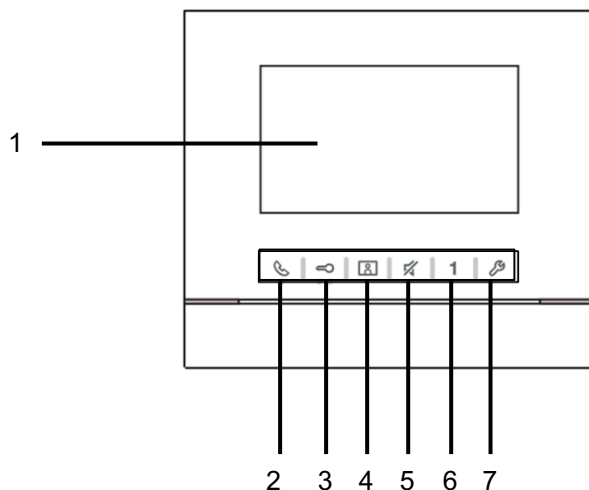### 4.1   Standard operations

4.1.1   Control elements

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Fig. 1   Control elements

No.	Functions
1	**4.3" Color display**
2	Communication button
	2A For incoming call, press this button within 30 seconds to activate communication, and press it again to end the call.
	2B In standby mode, press this button to enter the communication menu.
	If the LED flashes slowly, this indicates an incoming call.
	If the LED illuminates, this indicates that a conversation is in progress.
	If the LED flashes rapidly, it indicates the system is busy.
3	**Unlock button**
	3A Press this button to open the door at any time.
4	**Surveillance button**
	4A In standby mode, press this button to survey the default outdoor station.
	4B While the display is on, press this button to survey the next outdoor station. (Availability of this function depends on the installation type.)
	4C While the display is on, hold this button to take a snapshot.
	4D In standby mode, if the LED flashes, press this button to display the "History" record. If the LED flashes slowly, this represents a notification of a missed call.
5	**Mute button**
	5A In standby mode, press this button to mute ringtone of the indoor station.
	5B In standby mode, hold the button to mute ringtone of all indoor stations in the apartment.
	5C Press this button to reject incoming call.
	5D During the conversation, press this button to mute microphone.
	The LED illuminates to indicate mute status.
6	**Programmable button 1**
	6A Release the second lock connected with an outdoor station (default function).
	6B *Programmable button for additional functions, *e.g.,* call to guard unit.
7	**System setting button**
	Enter the system setting menu for various functions of the device.
	If the LED flashes rapidly, it means that setting is busy.

*For use of these buttons, please contact your electrical installer.

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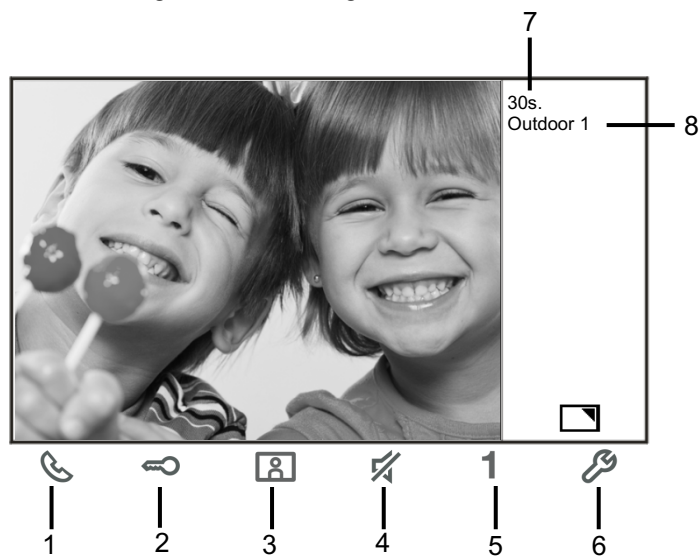## 4.2 Control actions
4.2.1 Incoming call and during call

Fig. 2   Incoming call and during call

During a call, the following functions are available:

No.	Functions
1	Press this button to accept incoming call. During a call, press this button to end the call.
2	Press this button to open the door from which the call originates.
3-A	Press this button to survey the analog camera of the outdoor station if available..
3-B	Hold this button to take a snapshot.
4	Press this button to mute the ringtone of an incoming call. During a call, press this button to mute the microphone.
5-A	Press this button to activate the function of the programmable button.
5-B	If the function "release second lock" or "control switch actuator" is assigned to the programmable button, press this button to activate the function.
6-A	Press this button to enable or disable the full-screen function.
6-B	
	Hold this button to enter the brightness and volume setttings menu.
7	Indicates time remaining for conversation.
8	Indicates the number of the outdoor station from which the call originates.

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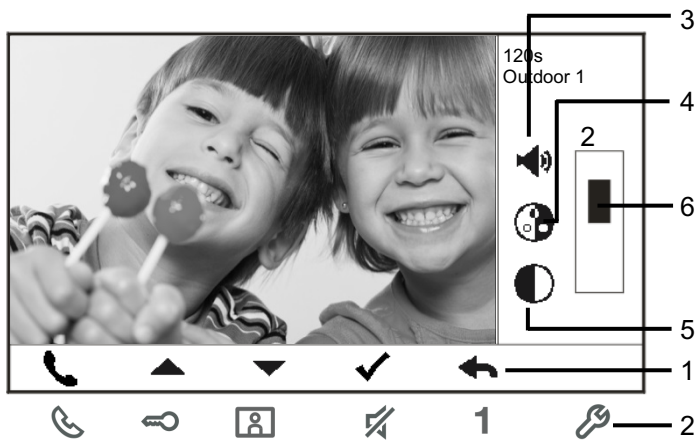## 4.2.2　Display and volume settings during a call

Fig. 3　Display and volume settings during a call

Hold button 🔧 for 3 seconds to enter the display and volume setttings menu during a call or conversation. The following functions are available.

No.	Functions
1	Navigation buttons (up, down, confirm, cancel, etc.)
2	Press the navigation buttons as needed
3	Speech volume (can only be adjusted during conversation)
4	Saturation
5	Brightness
6	Value set

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4.2.3 Communication menu
4.2.3.1 Overview

Press button ✆ to enter the communication menu. The following functions are available:

No.	Functions
1	Call to guard unit
	- Call guard unit directly.
2	Switch actuator
	- Activate the existing actuator list.

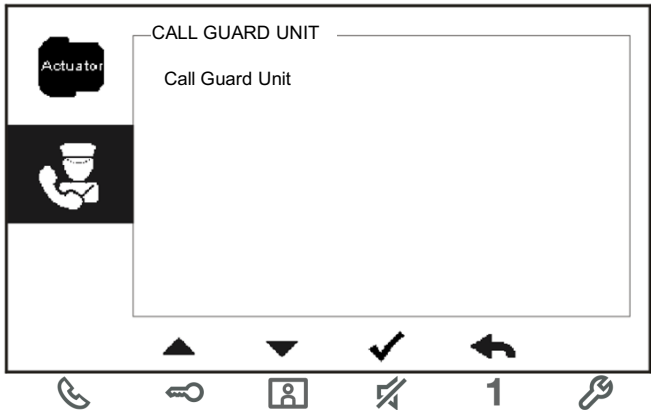### 4.2.3.2 Call to guard unit

Fig. 4: Call to guard unit

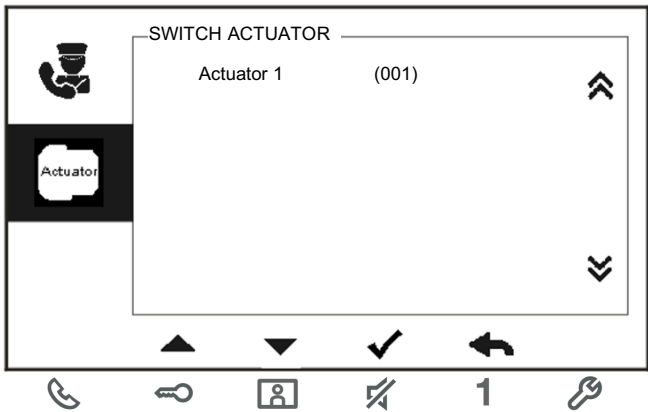### 4.2.3.3 Switch actuator

Fig. 5: Switch actuator

Set the actuator list in the "system settings-switch actuator" menu first.
After choosing a list, press √ button to enable the lock or light that is
connected to the switch actuator.

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4.3   Settings
4.3.1   Overview

Press button to enter the system settings menu. The following functions are available:

No.	Functions
1	Switch actuator - Set the actuator list in this menu.
2	Program button - Set functions for programmable buttons.
3	Ringtone - Set the ringtone for outdoor bells, indoor bell or others.
4	Volume - Set volume of ringtone.
5	Date and time - Set different times.
6	Other settings -Other settings, *e.g*., auto full screen.
7	History - View all communication entries in the menu, *e.g.,* received calls, missed calls.
8	Language -Set the local language.
9	Information
10	Reset factory default

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4.3.2   Switch actuator settings
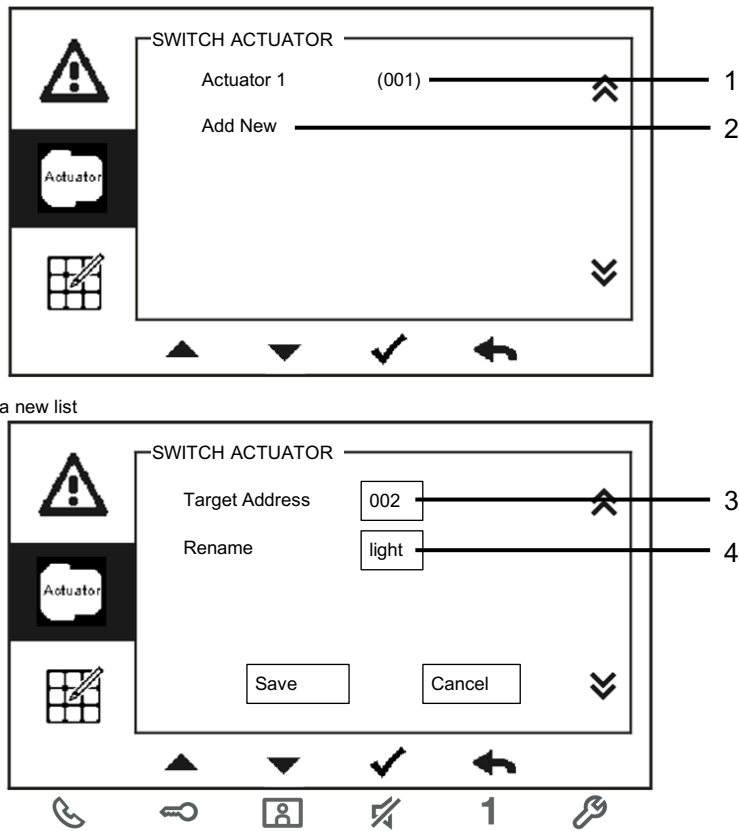
Add a new list

Fig. 6:   Switch actuator settings

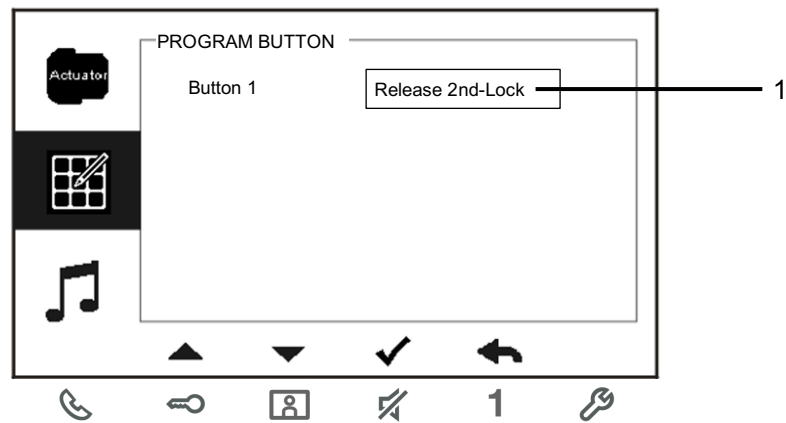| No.	Functions
1	Existing switch actuator list: Press button √ to modify the settings.
2	Add a new actuator list. A total of 10 switch actuator lists can be added.
3	Enter to change target address with "+" or "-" button from 001 to 199.
4	Rename the switch actuator list: - Scroll through letters of the alphabet or numbers one by one using the plus and minus buttons.

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4.3.3   Program button settings

Fig. 7:   Program button settings

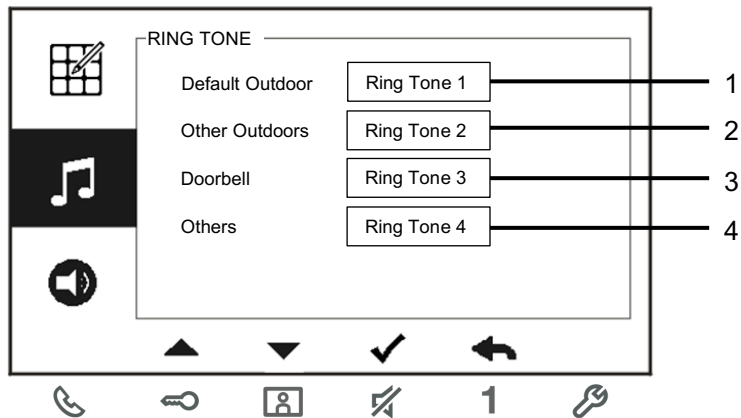| No.	Functions
1	Set functions for the program button, *e.g.,* releasing second lock, calling guard unit, enabling the switch actuator. *Only the switch actuator list can be assigned to the program button.

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4.3.4 Ringtone settings

Fig. 8: Ringtone

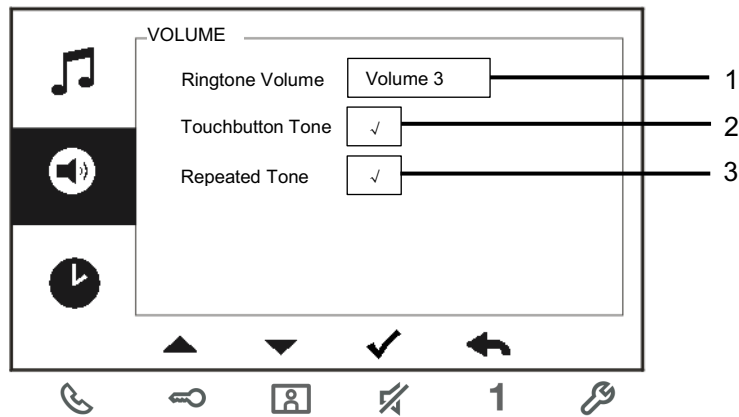| No.	Functions
1	Select the bell sound for the default outdoor station.
2	Select the bell sound for other outdoor stations.
3	Select the bell sound for the apartment door.
4	Select the bell sound for others, e.g., a call from the guard unit.

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4.3.5 Volume settings

Fig. 9: Volume settings

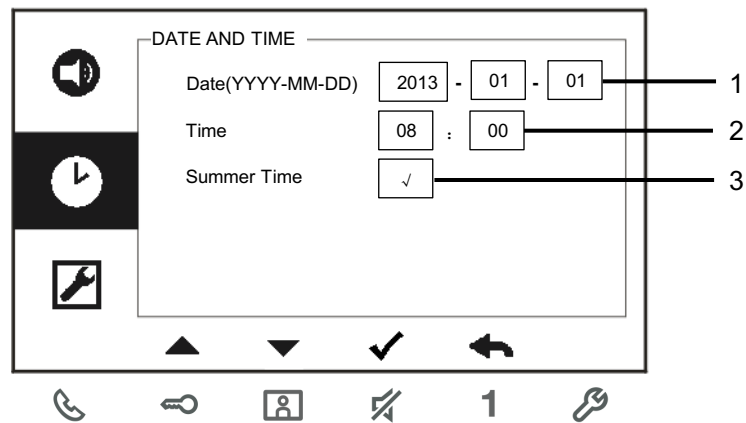| No.	Functions
1	Set the volume of the bell sound.
2	Enable/disable the feedback tone that sounds when the touch button is pressed.
3	Set the ringtone to ring once or continuously.

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4.3.6 Date and time settings

Fig. 10: Date and time settings

No.	Functions
1	Set the date.
2	Set the time.
3	Enable or disable the summertime function.

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4.3.7　　Other settings
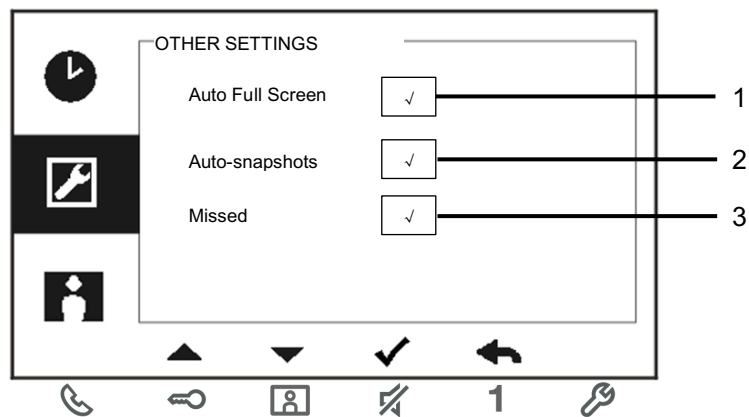
Fig. 11:　Other settings

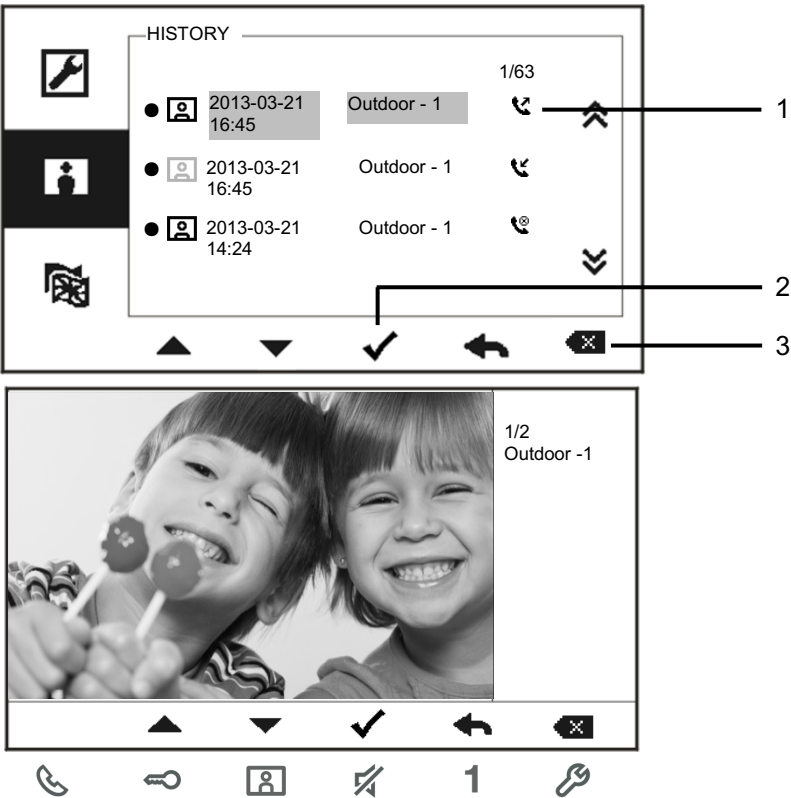| No.	Functions
1	Enable or disable the auto full screen function.
2	Enable or disable the auto-snapshot function.
3	Enable or disable the missed call function. (▣ flashes when there is a missed call.)

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4.3.8   History review

Fig. 12:   History review

No.	Functions
1	Up to 100 events can be recorded in the history menu.
	- If the snapshot function is enabled, an icon is diplayed.
	- Date, time and type of event are recorded together with the snapshot.
	- Directions: ![icon] indicates dialed calls
	![icon] indicates received calls
	![icon] indicates missed calls
2	Press this button to view details of this event.
	Two photos are always taken when a visitor rings the bell.
3	Press this button to delete a record item.

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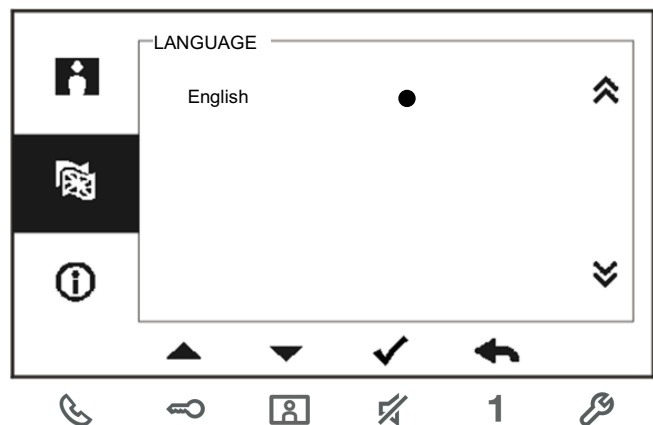## 4.3.9　　　Language settings

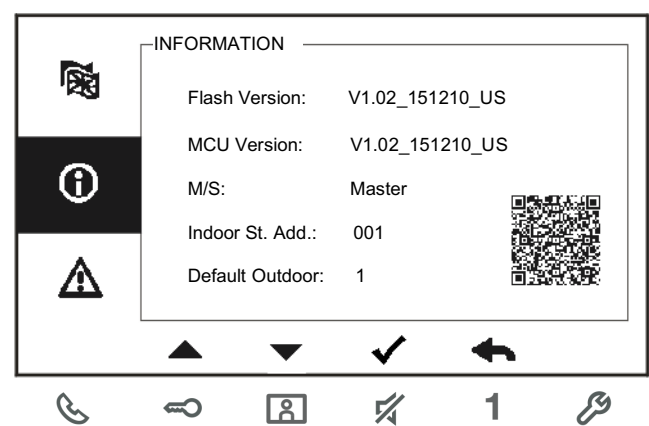Fig. 13:　Language settings

4.3.10　　Information

Fig. 14:　Information for the indoor station. (Scan the QR code to access detailed instruction for indoor station.)
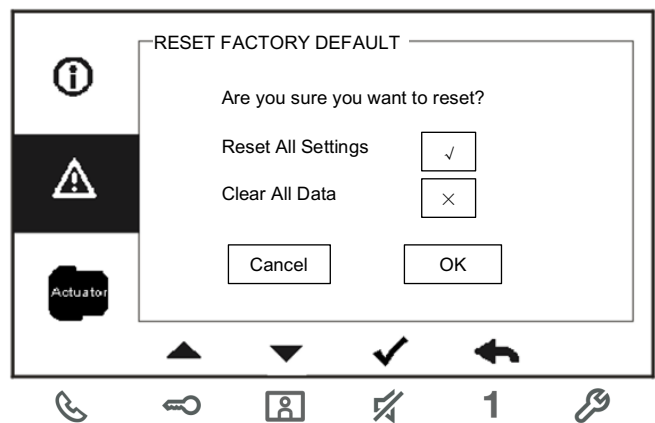
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4.3.11   Resetting factory default

Fig. 15:   Resetting factory default

No.	Functions
1	Reset all settings: Reset the device and restore all default configurations. The operation does not delete programmed data or history, such as switch actuator lists.
2	Clear all data: Delete all programmed data and history. All configurations will be restored to factory default settings.

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4.4   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.

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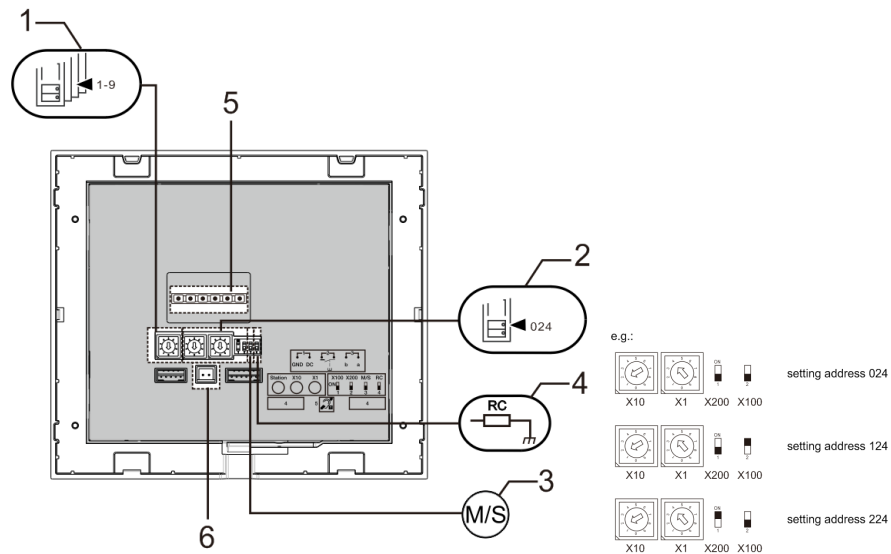## 4.5 Adjusting the device

Fig. 16:

1. **Station**

    Selector switch to set the address of the default outdoor station.

2. **X10 X1**

    Selector switches to set the address (tens and ones) of the indoor station.

    X200 X100

    Dip-switches to set the address (hundreds) of the indoor station.

3. **Master or slave function**

    One indoor station in each apartment must be set as "Master." (Switch should be set as "M/S on.") All additional indoor stations in the same apartment must be set as "Slave." (Switch should be set as "M/S off.")

4. **Terminal resistor**

    In video installations or mixed audio and video installations, the switch must be set as "RC on" on the last device of the line.

5. **a   b** = Bus connection

    ⌐ᴜ = Doorbell connection

    DC GND = Additional power supply

6. **Connector for induction loop**

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5   Technical data

Designation	Value
Display resolution	480 x 272
Display size	4.3"
Operating temperature	+14 °F to +131 °F
Storage temperature	-40 °F to +158 °F
Protection	IP 30
Single-wire clamps	2 x 22 AWG - 2 x 18 AWG
Fine-wire clamps	2 x 22 AWG - 2 x 18 AWG
Bus voltage	20 V - 30 V
Size	5.39" x 6.10" x 0.94"

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6 Mounting and installation

⚠ Warning

Electric voltage!
Direct or indirect contact with live components can cause dangerous currents to flow through the body, which may result in electric shock, burns or even death.

– Always disconnect the main power supply prior to installation and/or disassembly.
– Work on the 110 V - 240 V supply system must be performed only by qualified personnel.

6.1 Requirements for the electrician

⚠ Warning

Electric voltage!
Install the device only if you have the necessary qualifications.

– 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 from power.
    2. Secure against being re-connected.
    3. Ensure there is no voltage.
    4. Connect to earth.
    5. Cover or barricade adjacent live parts.
– Wear 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 earthing, necessary additional measures, etc.).

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6.2   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 or other power supplies (to avoid interference).
- Do not install the wires of the system bus together with 100 V - 240 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.
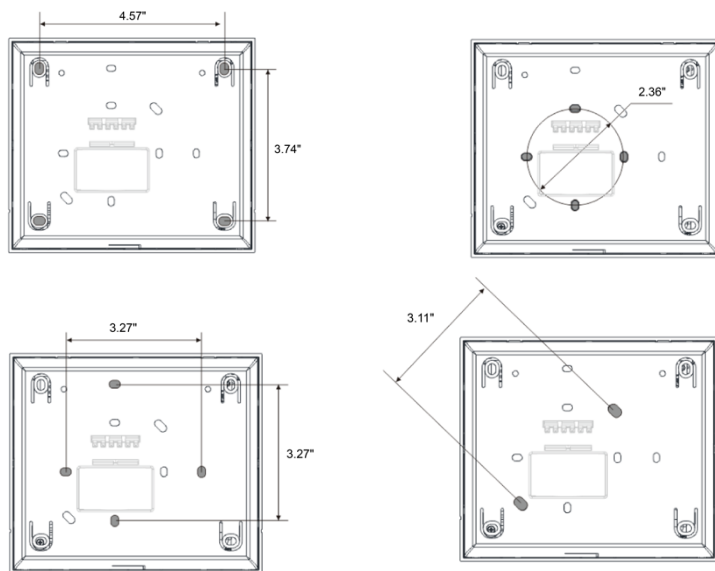
6.3   Mounting

Recommended installation height

1.5 meters (4.9 feet)
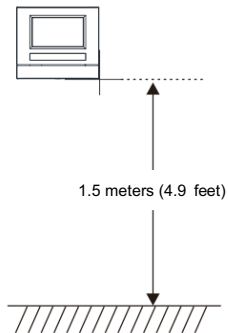
Dismantling
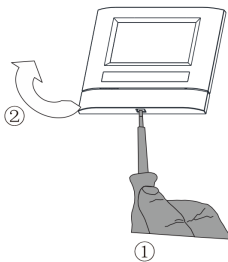
Open the housing of the panel by pulling the clamp at the bottom of the device.

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Installation dimensions

1. The bottom of the device has screw holes for fastening on the wall according to the instructions above.
2. In addition, the bottom of the device can be affixed to an existing flush-mounted box. The dimensions of a compatible flush-mounted box are shown in illustrations above.

Wiring
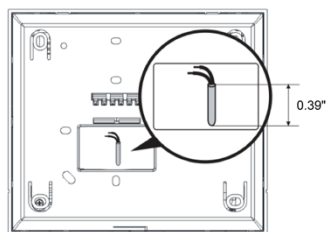
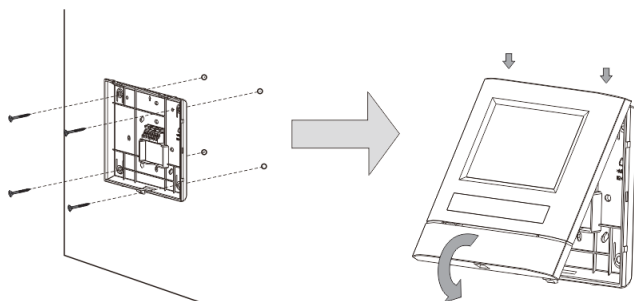Affix the bottom of the device and connect it in accordance with the illustrations. The insulated section of the cable end must not be longer than 0.39".

Settings

Set addresses of the preferred outdoor stations and the address of the indoor station on the jumper. (See chapter "Adjusting the device.")

Three types of installation:

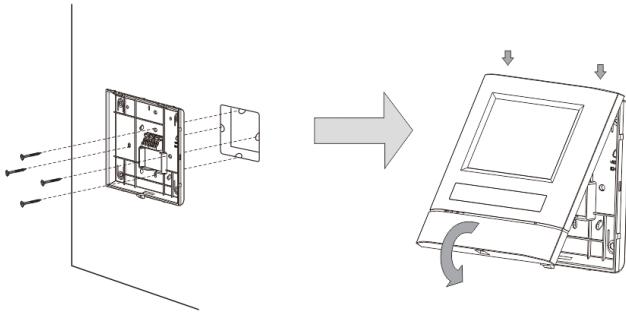**A. Surface-mounted**

1) Mounted on the wall

1. Affix the bottom of the device to the wall.
2. Latch the upper part of the device onto its bottom part: 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.
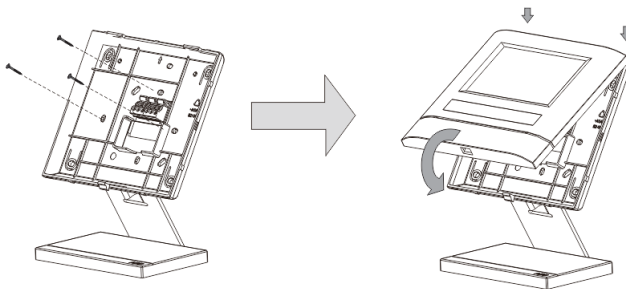
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2)   Mounted with flush-mounted box

1.   Fix the bottom of the device to the existing flush-mounted box.
2.   Latch the upper part of the device onto its bottom part: 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 it is caught by the clamp.

B.   Desktop-mounted

Mounted with desktop bracket

1.   Affix the bottom of the device to the desktop bracket.
2.   Latch the upper part of the device onto its bottom part: 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.

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ABB Inc.
Electrification Products
860 Ridge Lake Blvd.
Memphis, TN 38120
www.abb.com/door-entry-system-us
abbwelcomeinfo@us.abb.com

Customer Service: 800-816-7809
7:00 a.m. - 5:30 p.m., CST, Monday-Friday
elec_custserv@tnb.com

Technical Support: 888-385-1221, Option 1
7:00 a.m. - 5:00 p.m., CST, Monday-Friday
lvps.support@us.abb.com