

2TMD041900D0015 | 26.12.2024

Product manual ABB-Welcome IP

H8131.P.-. Mini Video OS H8136.P.-. Mini Video OS



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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

As part of the ABB-Welcome IP system, this device can only be used with accessories from that system.

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)

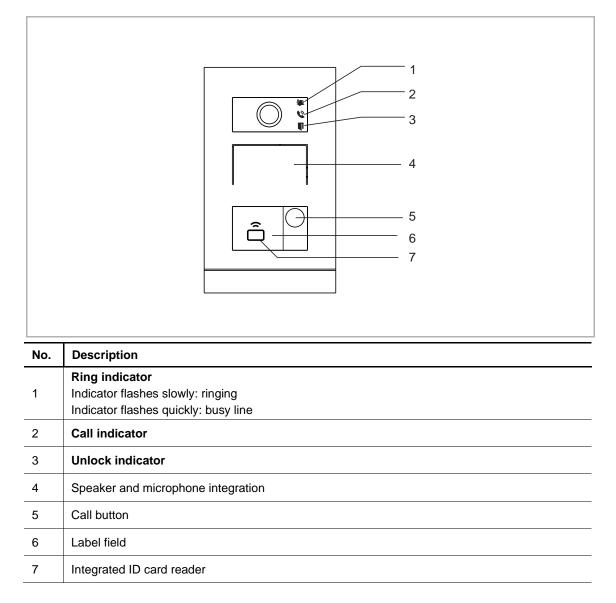
(EU-REACH ordinance and law for the implementation of the ordinance (EG) No.1907/2006)

5 Product description

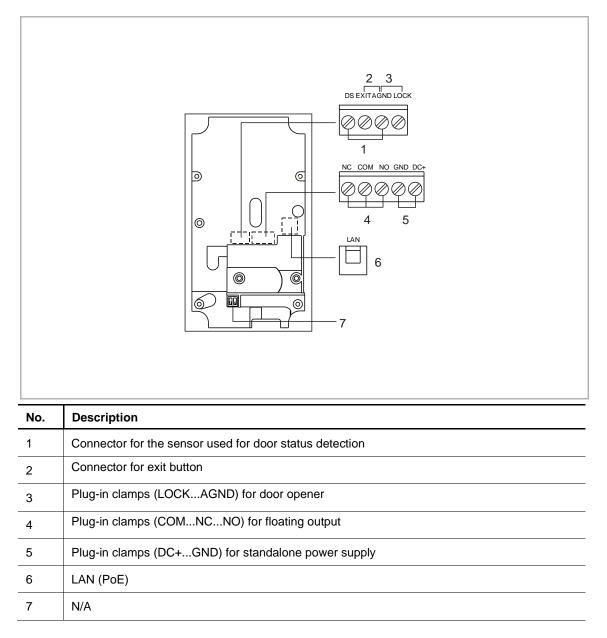
5.1 Device type

Article number	Product ID	Product name	Colour	Size (HxWxD) Unit: mm
H81313P1-A	2TMA130010A0001	Mini video outdoor station, 1 gang, ID, SM	Aluminum alloy	99 x 168 x 26
H81313P2-A	2TMA130010A0004	Mini video outdoor station, 2 gang, ID, SM	Aluminum alloy	99 x 168 x 26
H81363P1-A	2TMA130010A0007	Mini video outdoor station, 1 gang, ID,FM	Aluminum alloy	105 x 180 x 43
H81363P2-A	2TMA130010A0010	Mini video outdoor station, 2 gang, ID, FM	Aluminum alloy	105 x 180 x 43
H81364P1-A	2TMA130010A0013	Mini video outdoor station, 1 gang, FM	Aluminum alloy	99 x 168 x 26
H81316P1-A	2TMA130011A0003	Mini video outdoor station, 1 gang, IC/DESFire, SM	Aluminum alloy	99 x 168 x 26
H81316P2-A	2TMA130011A0004	Mini video outdoor station, 2 gang, IC/DESFire, SM	Aluminum alloy	105 x 180 x 43
H81366P1-A	2TMA130011A0005	Mini video outdoor station, 1 gang, IC/DESFire, FM	Aluminum alloy	105 x 180 x 43
H81366P2-A	2TMA130011A0006	Mini video outdoor station, 2 gang, IC/DESFire, FM	Aluminum alloy	105 x 180 x 43

5.2 Control elements

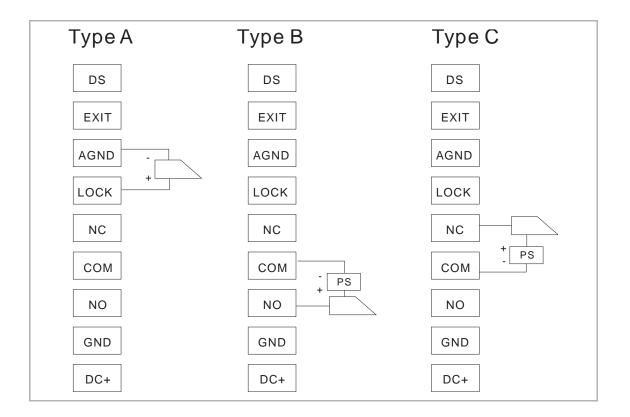


5.3 Terminal description



5.4 Lock type and connection

Lock type	Pic	Operation type	Voltage	Wiring type
Electrical strike lock, 12V		Power on to open	12 V ==/~	Type A/B
Electrical strike lock, 24V		Power on to open	24 V ==/~	Туре В
Electrical rim lock, 12 V		Power on to open	12 V	Type A/B
Electrical mortise lock		Power off to open	12 V =	Туре С
Magnetic lock		Power off to open	12/24 V ==	Туре С



6 Technical data

Designation	Value
Rating voltage	24 V =
Operating voltage range	20-27 V ==
Rating current	27 V, 310 mA
	24 V, 350 mA
Operating temperature	-40 °C+55 °C
Product dimensions	99 mm x 168 mm x 26 mm (H8131.P)
	105 mm x 180 mm × 43 mm (H8136.P)
Camera type	CMOS
Camera viewing angle	104°
Power supply for door opener	15 V -, 4A impulse, max. 250 mA holding
Floating output for door opener	30 V =, 3 A
IP level	IP 54
IK level	IK 07
Network connection standard	IEEE802.3, 10/100 Mbps, auto MDI/MDI-X

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.

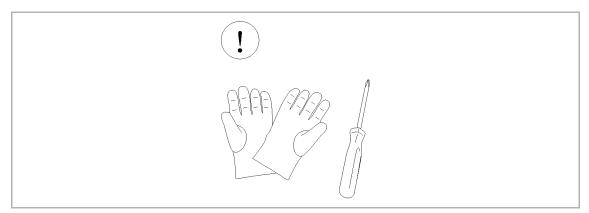
Incorrect installation can cause serious damage to property, e.g. due to fire.
 The minimum necessary expert knowledge and requirements for the installation are as follows:

- 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.).

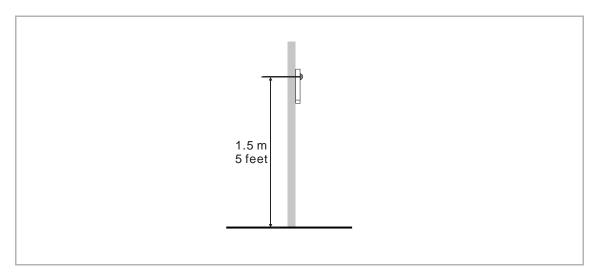
7.2 Mounting

7.2.1 Preparation

Use gloves to protect yourself against cuts.



7.2.2 Installation height



7.2.3 Installation situation



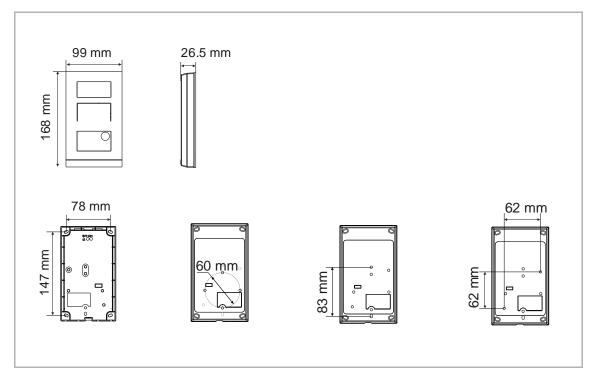
Note

The following installation situations must be avoided without fail to ensure picture quality:

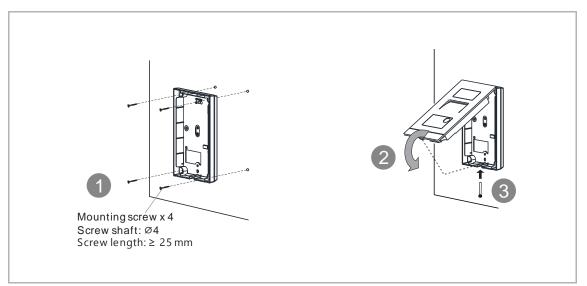
- Direct light
- Direct sunlight
- Extremely bright picture background
- Highly reflective walls on the opposite side of the door station

7.2.4 Surface-mounted installation

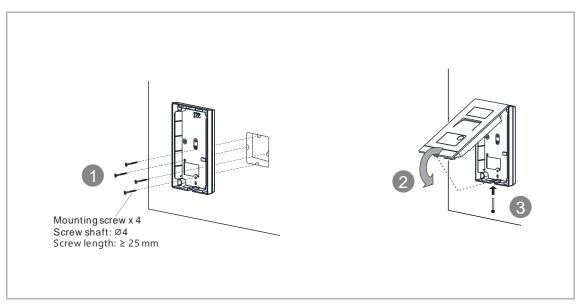
Product dimension



Surface-mounted on the wall

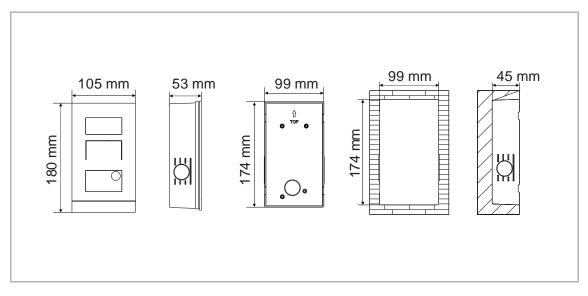


Surface-mounted on the box (e.g. VDE box)

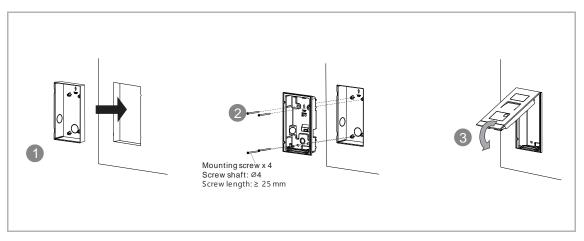


7.2.5 Flush-mounted installation

Product dimension

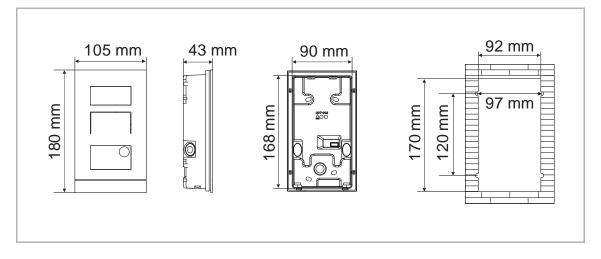


Flush-mounted with pre-installation box

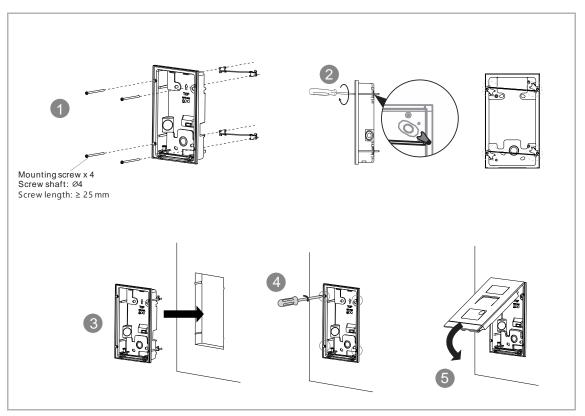


7.2.6 Cavity wall installation

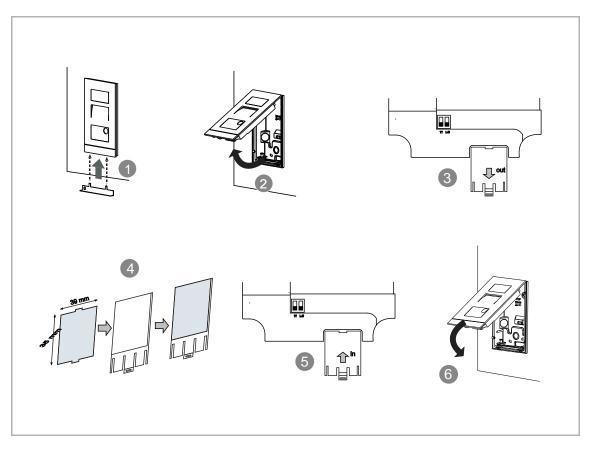
Product dimension



Mounting



7.2.7 Replacing the nameplate



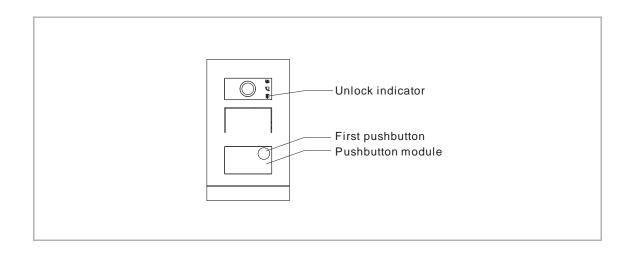
8 Commissioning

8.1 Configure the settings on Indoor Station

8.1.1 Enter engineering mode of Outdoor Station



Note The Outdoor Station must be on the same network as the Indoor Station.



- [1] Power on the Outdoor Station, wait until all 3 LED indicators go out.
- [2] Press and hold the first pushbutton for 5 seconds until all 3 LED indicators flash.

8.1.2 Accessing the "Outoodr Stations" screen

Please follow the steps below:

- [1] Ensure that the Outdoor Station is in engineering mode.
- [2] On the "Settings" screen of the panel, tap "Advanced Settings".
- [3] Tap "Outdoor Stations" to access the corresponding screen.

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	User Settings		Unlock Type Wh Default Loc	en Swiping :k	~				
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Ø	Software Update		Detecti	ion alarm		Tamper proof alarm			
	About		Anti-flicker	Settings		Outdoor Station Language			
			Screen Refresh 50 Hz	Rate	~	Language	Ý		



Note

The Outdoor Station will exit engineering mode if no operation is carried out for 5 minutes.

8.1.3 Configuring the device type

Configuring the Outdoor Station

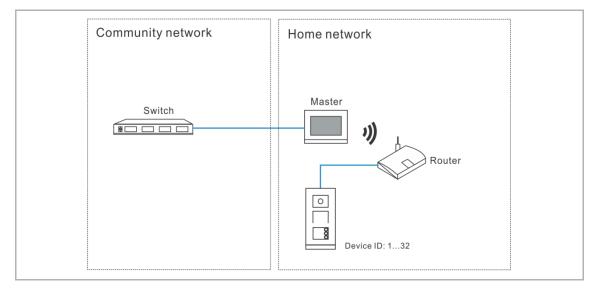
- [1] On the "Outdoor Stations" screen, go to the "Device setting" section.
- [2] Select "OS" from the drop-down list.
- [3] Tap "Set device details".
- [4] Enter the block number (001...999) and the device number (01...64).
- [5] Select the network type, it can set to "DHCP", "Customizable address" or "ABB Legacy".
- If "ABB Legacy" is selected, IP address will be "10.0.x.x".
- [6] Tap "Save & Close".

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Configuring the 2nd Outdoor Station

1. Location of IP Actuator = Internal

In this case, the 2nd OS is connected to the router in the apartment (see the diagram below).



- On the "Outdoor Stations" screen, go to the "Device setting" section, select "2nd OS" from the drop-down list.
- [2] Tap "Set device details".

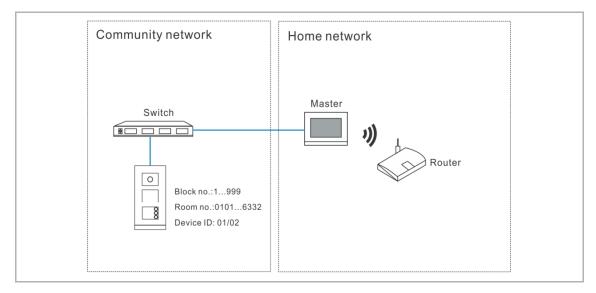
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 ℓ _∭ Time & Date	2nd OS	Set device details
🖘 Access Management	Lock Management	
人 User Settings	Unlock Type When Swlping Default Lock ~	
。	Default Lock V	Substitliary Lock NO-NC-COM
↓ Intercom List	Time of Power Lock(s) 5	Time of Signal Lock(s) 5
Program Button		
없 Advanced Settings	Door Alarm	_
\bigcirc Software Update	Detection alarm	Tamper proof alarm
(i) About	Anti-flicker Settings	Outdoor Station Language
	Screen Refresh Rate 50 Hz	Language

- [3] Select "Internal IP gateway".
- [4] Enter the device number (1...32).
- [5] Select the network type, it can set to "DHCP", "Customizable address" or "ABB Legacy".
- If "ABB Legacy" is selected, IP address will be "10.0.x.x".
- [6] Tap "Save & Close".

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入 User Settings 3	💿 Internal IP gateway 🛛 🌔	External IP gateway				
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♀ Intercom List						
Program Button						
र्िुः Advanced Settings						
💭 Software Update				б 📃		
i About			Save	& Close		
		50 Hz	简体中文	~		

2. Location of IP Actuator = External

In this case, the 2nd OS is connected to the switch outside the apartment (see the diagram below).



- [1] On the "Outdoor Stations" screen, go to the "Device setting" section.
- [2] Select "2nd OS" from the drop-down list.
- [3] Tap "Set device details".

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Program Button	-			-			
ැටූ3 Advanced Settings	D	Door Alarm		_			
\bigcirc Software Update		Detection alarm		Tamper proof alarm			
(i) About	A	Anti-flicker Settings		Outdoor Station Language			
		Screen Refresh Rate 50 Hz	~	Language	×		
				·			

Commissioning

- [4] Select "External IP gateway".
- [5] Enter the block number (001...999), floor number (01...63), apartment number (01...32) and device number (01...02).
- [6] Select the network type, it can set to "DHCP", "Customizable address" or "ABB Legacy".
- If "ABB Legacy" is selected, IP address will be "10.0.x.x".
- [7] Tap "Save & Close".

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다) Sound	Set Device Details			×
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റ User Settings	Floor 01	Apartment 01		
🖉 Video Surveillance 3	📄 Internal IP gateway 🧿 Exte	ernal IP gateway		~
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\mathcal{G} Software Update			6	
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	50 Hz		》 简体中文	~



Note

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

8.1.4 Configuring the lock

1. Configuring the default lock

- [1] On the "Outdoor Stations" screen, go to the "Lock Management" section, select the lock type from the drop-down list.
- It can be set to "Lock-GND", "NO-NC-COM" or "IP Actuator".
- If the lock type is set to "IP Actuator", you need to select the lock type from the drop-down list. It can be set to "Power lock" or "Relay lock".
- [2] Enter the unlock time.
- If lock type = "Lock-GND" or "Power lock", you need to set the time for the power lock.
- If lock type = "NO-NC-COM" or "Relay lock", you need to set the time for the signal lock.

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Program Button								
铰 Advanced Settings		Door Alarm			_			
💭 Software Update		Detecti	ion alarm		Tamper proof alarm			
i About		Anti-flicker	Settings		Outdoor Station Language			
		Screen Refresh 50 Hz	Rate	~	Language	v		

2. Configuring the subsidiary lock

Please follow the steps below:

- [1] On the "Outdoor Stations" screen, go to the "Lock Management" section, select the lock type from the drop-down list.
- It can be set to "Lock-GND", "NO-NC-COM" or "IP Actuator".
- If the lock type is set to "IP Actuator", you need to set the lock type from the drop-down list. It can be set to "Power lock" or "Relay lock".

[2] Enter the unlock time.

- If lock type = "Lock-GND" or "Power lock", you need to set the time for the power lock.
- If lock type = "NO-NC-COM" or "Relay lock", you need to set the time for the signal lock.

imes Settings		¢	¢≫				
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Cloud Connections		Device Setting		Set device details			
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		Lock Management					
		Unlock Type When Swiping Default Lock	×				
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Program Button				5			
ේදී Advanced Settings		Door Alarm					
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i About		Anti-flicker Settings		Outdoor Station Lar	guage		
		Screen Refresh Rate 50 Hz	v	Language	~		

8.1.5 Configuring the "Door alarm" function

- [1] On the "Outdoor Stations" screen, go to the "Door Alarm" section, tick the check box to enable the functions.
- If the "Detection Alarm" function is enabled, the panel will send an alarm to SmartAP when the door is open for longer than 120 seconds (a sensor should first be connected to the Outdoor Station).
- If the "Local Alarm" function is enabled, the panel also sounds an alarm locally.
- If the "Tamper proof Alarm" function is enabled, the panel will send an alarm to SmartAP if the Outdoor Station is removed from the wall.

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🖘 Access Management				
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Q Intercom List	Card mode			
Program Button	V Safe mode			
Юූ Advanced Settings				
💭 Software Update	Sound Sound Voice prompts			
(i) About				
	Ringtone Volume			

8.1.6 Configuring the "Anti-flicker" function

Please follow the steps below:

[1] On the "Outdoor Stations" screen, go to the "Anti-flicker settings" section, select the refresh rate from the drop-down list. It can be set to "60 Hz" or "50 Hz".

× Settings			01:30 Sat 01-12-2018 [1 27.9°C	\sim	С р	¢≫
Oisplay	PANEL	ACTUATORS	OUTDOOR STATIONS	TRUSTED DEVICES			
්, Sound							
Cloud Connections		Door Alarm		_			
© _∭ Time & Date		Detecti	ion alarm	Tamper proof alarm			
		Anti-flicker	r Settings	Outdoor Station Langua	ge		
 人 User Settings		Screen Refresh 60 Hz	Rate	 Language English 	v		
۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔							
Intercom List		Card mode					
Program Button		<u></u> Juie III					
ැලූ Advanced Settings		Sound					
🏳 Software Update		🗸 Button		Voice prompts			
(i) About		Ringtone V	/olume				
		4		2	— ⊲»		

8.1.7 Configuring the language

Please follow the steps below:

[1] On the "Outdoor Stations" screen, go to the "Outdoor Station Language" section, select the language from the drop-down list.

× Settings			01:30 Sat 01-12-2018 👔	27.9	°C	\sim	Ċ,	4»
Oisplay	PANEL #	ACTUATORS	OUTDOOR STATIONS	TRUS	TED DEVICES			
弌》 Sound								
Cloud Connections		Door Alarm			_			
 ™ Time & Date		Detecti	on alarm		Tamper proof alarm			
🖘 Access Management		Anti-flicker	Settings		Outdoor Station Language			
人 User Settings		Screen Refresh 60 Hz	Rate	~	Language English	v		
🕁 Video Surveillance								
↓ Intercom List		Card mode						
Program Button								
ැටූ Advanced Settings		Sound			_			
💭 Software Update		J Button	tone		Voice prompts			
i About		Ringtone V	olume					
					c	1»		

8.1.8 Configuring the ringtone volume

Please follow the steps below:

[1] On the "Outdoor Stations" screen, go to the "Ringtone volume" section, select the ringtone volume (1...3)

×	Settings		0	1:30 Sat 01-12-20	18 🕼 27.9	°C			С р	
۲	Display	PANEL AC	TUATORS	OUTDOOR STATIC	NS TRUS	TED DEVICES				
	Sound		Ringtone Vo	lume						
	Cloud Connections				<u> </u>			\$		
o ^m	Time & Date									
	Access Management		Voice Volum	ne						
	User Settings			C						
ø	Video Surveillance									
	Intercom List		Buttons Set	-up						
	Program Button		Columns of Button 1	ns	~	Push button	settings			
ţĞì	Advanced Settings		Sync Time Sync with Sm	nartAP	×					
S	Software Update									
	About		Device Versi							
			Mainboard :			tal_V1.13_20240		26		
			MCU :	H	E07-IC_MCL	J_V2.07_202401	08_MP			
			Serial Numb	oer: 10	1807A7F06D	AF6(LOK)				

8.1.9 Configuring the "Button tone" function

- [1] On the "Outdoor Stations" screen, go to the "Sound" section, tick the check box to enable the function.
- [2] Go to the "Voice Volume" section, select the voice volume (1...5).

× Settings		01:32 Sat 01-12-2018 👔 27.9°C	~ C di)
Oisplay	PANEL	ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES		
්) Sound		Card mode		
S Cloud Connections		🗾 Safe mode		
© _∰ Time & Date				
🗝 Access Management		Sound Sound Voice prompts		
ーー・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・		Ringtone Volume		
Untercom List		ದು ರಶಿ		
Program Button				
ැලූ Advanced Settings		Voice Volume		
💭 Software Update		∠ ⊲' —		
(i) About				
		Buttons Set-up		
		Columns of Buttons		

8.1.10 Configuring the "Voice prompts" function

- [1] On the "Outdoor Stations" screen, go to the "Sound" section, tick the check box to enable the function.
- [2] Go to the "Outdoor Station Language" section, select the language.
- [3] Go to the "Voice Volume" section, select the voice volume (1...5).

× Settings		03:27 Sat 01-12-2018 👔 28.3°C		С г	¢≫
Oisplay	PANEL	ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES			
다》 Sound		Anti-flicker Settings Outdoor Station Language			
ି ତି Cloud Connections		Screen Refresh Rate	v		
^စ ြူ Time & Date		50 Hz English Z			
🗢 Access Management		Card mode			
റ User Settings		V Safe mode			
。台 Video Surveillance		Sound			
♀ Intercom List		🗸 Button tone 🛛 🚺 🚺 Voice prompts			
Program Button					
없 Advanced Settings		Ringtone Volume			
⊖ Software Update		ದು ರಶಿ			
(i) About		Voice Volume			
		3 a, a,			

8.1.11 Configuring the push buttons

- [1] On the "Outdoor Stations" screen, go to the "Buttons set-up" section, select the column number. This setting is only available when detecting the bar push-button module on the Outdoor Station. It can be set to "1" or "2".
- [2] Tap "Push button settings".
- [3] Tap the relevant push button.
- [4] Tap "Edit device".

× Settings	01:32 Sat 01-12-2018 🍙 27.9°C		\sim	Ç	⊲ »
Oisplay	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES				
口, Sound	⊲,				
💮 Cloud Connections					
စိ _ဤ Time & Date	Voice Volume 2				
 کل User Settings	Buttons Set-up 2				
🚽 Video Surveillance	Columns of Buttons				
Intercom List	1 Sync Time				
Program Button	Sync IIIM SmartAP				
 දබූ Advanced Settings	Device Version				
💭 Software Update	Mainboard : HSE07-IC_Digital_V1.13_20240326_PP_N	32926			
	MCU : HSE07-IC_MCU_V2.07_20240108_MP Serial Number : 101807A7F06DAF6(LOK)				
	Signature :				
imes Settings	01:32 Sat 01-12-2018 🔒 27.9°C		\sim	Ç	⊲ »
Display	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES				
Sound Push But	ton Settings	~1× ×			
Cloud Connections	un settings				
^စ ္ဗ Time & Date	Push Button List Button 1				
🗝 Access Manageme	Button 1 3 Call				
ہے۔ رکم User Settings	Button 2 Type Indoor Station				
🕁 Video Surveillance	Device Indoor Station-01				
🔱 Intercom List					
Program Button					
ැටූ Advanced Settings					
💭 Software Update	4				
(i) About	Edit devic				
	organicale :				

Commissioning

- [5] Select the function from the drop-down list. It can be set to "Call", "Turn on the light" or "None".
- [6] Select the device type from the drop-down list. It can be set to "Indoor Station" or "Phone Guard Unit".
- [7] Enter the address according to the device type.
- [8] Tap "Save".

imes Settings		01:33 Sat 01-12-2018 (€ 27.9°C		\sim	С р	¢≫
O Display		OUTDOOR STATIONS	TRUSTED DEVICES				
く Button 1		4.		×			
© Cloud Connections					—		
စ် _ဤ Time & Date	Function Set-up						
🖘 Access Manageme	Call 5	Ý					
入 User Settings	Device Type Indoor Station 6	v					
d Video Surveillance	Physical Address 7						
♀ Intercom List	Block 001	Device 01					
Program Button	Floor 01	Apartment 01					
ැටූ Advanced Settings							
$igcar{l}$ Software Update				8			
(i) About			(Save			

8.1.12 Configuring the "Time sync" function

- [1] On the "Outdoor Stations" screen, go to the "Buttons set-up" section, select the sync time method from the drop-down list.
- If "Sync with SmartAP" is selected, the Outdoor Station will sync the time from the management software.
- If "No sync" is selected, tap "Set time manually" to enter the time and date manually.

× Settings		0	1:40 Sat 01-12-2018	🔝 28.4°C		\sim	С <mark>р</mark>	⊴ »
Oisplay	PANEL	ACTUATORS	OUTDOOR STATION	S TRUSTED DE	VICES			
්, Sound								
Cloud Connections		Buttons Set						
^စ ္က Time & Date		Columns of Button	15	Y Push	button settings			
ංන Access Management		Sync Time No sync	1	Y Set 1	time manually			
ററ User Settings								
🕁 Video Surveillance		Device Versi Mainboard :		07-IC_Digital_V1.13	3_20240326_PP_N32926			
Intercom List		MCU :		07-IC_MCU_V2.07				
Program Button		Serial Numb Signature :	er: 1018	07A7F06DAF6(LO)	Ø			
හී Advanced Settings								
🎵 Software Update		ОК						
(i) About		Update fro	m SD card:					
		C Re	ad SD card					

8.1.13 Configuring call forward

This function can be available only when "Device type" is set to "OS".

- [1] On the "Outdoor Stations" screen, go to the "Call Forward" section, tick the check box to enable the function.
- [2] Enter the address of default Guard Unit.

imes Settings		01:40 Sat	: 01-12-2018 🔒 28.4	۴C		Ċ,	
Oisplay	PANEL	ACTUATORS OUTDO	OR STATIONS TRUE	STED DEVICES			
්) Sound		LOCK-GND	Ý	NO-NC-COM	ř		
Cloud Connections		Time of Power Lock(s) 5		Time of Signal Lock(s) 5			
မို္က္ဆ Time & Date							
🖘 Access Management		Door Alarm Detection alarm		Tamper proof alarm			
्रि User Settings							
。		Call Forward	1				
↓ Intercom List		Address of Guard Unit	•				
Program Button		01 🖊					
्रि Advanced Settings		Anti-flicker Settings		Outdoor Station Language			
💭 Software Update		Screen Refresh Rate 50 Hz	~	Language	Ý		
i) About							
		Card mode					
		<mark> S</mark> afe mode					

8.1.14 Configuring Card mode

This chapter applies to the Outdoor Station which supports IC cards.

If "Safe mode" is enabled, when you register an IC card on the Outdoor Station, a security key will be written to the IC card to achieve higher security.

Please follow the steps below:

[1] On the "Outdoor Stations" screen, go to "Card mode" section, tick the check box to enable the function.

× Settings			01:42 Sat 01-12-2018 👔	1 28.5°C	\sim	С р	d»
Oisplay	PANEL	ACTUATORS	OUTDOOR STATIONS	TRUSTED DEVICES			
ද්) Sound		Address of Guar 01	d Unit				
Cloud Connections							
ංංක වස Time & Date		Anti-flicker		Outdoor Station Languag	e		
		Screen Refresh 50 Hz	Rate	Language	~		
		Card mode					
🕁 Video Surveillance		1 🗾 Safe mo					
Intercom List							
Program Button		Sound	tone	Voice prompts			
🛱 Advanced Settings							
\bigcirc Software Update		Ringtone V	olume				
(i) About				é			
		Voice Volur	ne				

8.1.15 Viewing the information

Please follow the steps below:

[1] On the "Outdoor Stations" screen, scroll down to view the information.

× Settings	01:55 Sat 01-12-2018 👔 29.1°C	Ċ,	⊴»
Oisplay	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES		
弌》 Sound			
Cloud Connections	Buttons Set-up		
^စ ္က Time & Date	Columa of Buttons Push button settings		
🖘 Access Management	Sync Time Sync with SmartAP		
入 User Settings			
。 Video Surveillance	Mainboard : 1 HSE07-IC_Digital_V1.13_20240326_PP_N32926		
Intercom List	MCU: HSE07-IC_MCU_V2.07_20240108_MP		
Program Button	Serial Number : 2 101807A7F06DAF6(LOK) Signature : 2		
颂 Advanced Settings			
${\cal O}$ Software Update	Ск		
(i) About	Update from SD card:		
	Read SD card		

No.	Description
1	Mainboard version and MCU version
2	Serial number
3	Signature

8.1.16 Updating the firmware

- The Outdoor Station can update the firmware via the Indoor Station which supports micro SD card.
- The Outdoor Station must exit engineering mode before the firmware is upgraded.

Updating the firmware via the Indoor Station

Please follow the steps below:

- [1] On the "Outdoor Stations" screen of the panel, tap "Read SD card".
- [2] Select the designated Outdoor Station.
- [3] Select the updating file from SD card.

File name

Cancel

[4] Tap "Save & Close".

× Settings		(01:15 Sat 01-12-2018 👔	〕27.8°C	\sim	Ç	d»
O Display	PANEL A	CTUATORS	OUTDOOR STATIONS	TRUSTED DEVICES			
්) Sound		Buttons Se	t-up				
Cloud Connections		Columns of Butto 1	ons	V Push button settings			
ூ Time & Date		Sync Time Sync with Si	martAP	v .			
🗝 Access Management				_			
人 User Settings		Device Vers Mainboard					
🕁 Video Surveillance		MCU :					
🔱 Intercom List		NFC :					
Program Button		Serial Numl Signature :					
ល៍ Advanced Settings							
${\cal C}$ Software Update		ОК					
(i) About		Update fre	om SD card:				
			ead SD card				
imes Settings			01:16 Sat 01-12-2018 [〕27.8°C	\sim	¢	⊲»
O Display			OUTDOOR STATIONS	TRUSTED DEVICES			
다) Sound (i) Informat	tion	_			×		
	rom SD card:						
ම _ল Time & Date							
🖘 Access Manageme Select	Device	Select Device 2nd OS-01	2	~	_		

...IC_V1.13_20240326_PP_N32926_factory.img 3

(🛛 Read SD card

- [5] "Loading..." will be displayed to indicate that the upgrade is in progress.
- [6] "Push success!" will be displayed if the upgrade is successful.

imes Settings	01:17 Sat 01-12-2018 👔 27.8°C	\sim	С р	d»
	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES			
다) Sound 📿 Loa	ding			
Cloud Connections				
ව _{ිඩ} Time & Date				
←⊃ Access Manageme	5	-		
入 User Settings	C Loading			
。 Video Surveillance	~			
0 Intercom List				
Program Button				
ର୍ଣ୍ପୈ Advanced Settings				
💭 Software Update				
i About				
	Read SD card	`		
🗙 Settings	01:23 Sat 01-12-2018 🔒 27.8°C		Ω,	
	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES			
다) Sound () Info	ormation X			
Cloud Connections OUT	TDOOR STATIONS			
စ်္က Time & Date				
Constant Access Manageme Pus	ih success! 6			
റ User Settings				
↓ Video Surveillance				
0 Intercom List				
Program Button				
ැටූි Advanced Settings				
☐ C Software Update				
(i) About				
	Read SD card			

8.2 Configure the settings on "Smart Access Point"

8.2.1 Adding the Outdoor Station



Note

Only an Outdoor Station without a certificate can be added by SmartAP. This Outdoor Station will lose its certificate if its physical address is changed. The Outdoor Station needs to be powered on before being added.

On the "Smart Access Point" configuration screen, follow the steps below,

[1] Click "Door Entry System".



- [2] Click "Add device".
- [3] Select the device type from the drop-down list. It could be set to "Outdoor station" or "Second-confirm station".
- [4] Enter the device address,
- [5] This function is available only when device type is set to "Second-confirm station".
- If the Outdoor Station is installed in the community network, "Installed in the community network" should be enabled.
- [6] Enter the serial number.
- [7] Click "Save".

HOME 🚺 😥 SOS 🕐 🕽 COOR ENTRY SYSTEM >					
0	OUTDOOR STATIONS	2 ADD DEVICE	LIST VIEW		
Outdoor stations	ADD DEVICE Device type Second-confirm station 3	· · ·	Outdoor stations		
Public area	Device addr. 1 1 1 1 1				
Flashi, atria	1		Public area		
B Outdoor station Inde	Cancel	rator			

8.2.2 Accessing the designated Outdoor Station screen

- [1] On the "Main Menu" screen, click "Door Entry System".
- [2] Click "Outdoor Station".
- [3] Click the designated Outdoor Station to access the corresponding screen.

✓ 10 Pa so	es 👔 🔋		MAIN MENU			
			<u>•</u>			
			USER MANAGEMENT			
						1
Design a building by creating floors and rooms	Configure the devices of the access control system e.g. Cylinder, repeater	Locating and linking devices	Add and edit users. Create user groups	Create and edit actions	Create time control	Configurate door entry system devices, e.g. indoor station, outdoor station
iacky					Device configura	ation 🔅 Preferences
HOME 🕕 🖓 SOS		<	DOOR ENTRY SYSTEM	1 >		
0	τυο	DOOR STATIONS			_	LIST VIEW
Outdoor stations					2nd-OS 001-0101-0	1 >
2nd-OS 001-0101- 01						
Public area						
					Public area	
	2					
	Cutdoor station	o tion IP actuator	Guard unit Elevato Controlli			

8.2.3 Viewing the serial number

Please follow the steps below:

[1] On the designated Outdoor Station screen, go to the "Serial No." section to view the serial number.

HOME 🔟 🗟 SOS 💽 🗜	< DOOR ENTRY SYSTEM	>
a:	2nd-OS 001-0101-01	LIST VIEW
		Device type
		Second-confirm station
		Physical address
		Block No.: 1
		Floor No.: 1
	the second s	Room No.:
		Device No.: 1
		Serial No.:
	â	101807A7F06DAF6
		Version
		HSE07-IC_Digital_V1.13_20240326_PP_N32926
	ABB	Additional settings
		Physical address >
	Settings	Door lock setting

8.2.4 Viewing the version

Please follow the steps below:

[1] On the designated Outdoor Station screen, go to the "Version" section to view the firmware version.

HOME 🔞 🗟 SOS 🂽 🗜	C DOOR ENTRY SYSTEM	
=	2nd-OS 001-0101-01	LIST VIEW
		Device type
		Second-confirm station
		Physical address
		Block No.: 1
		Floor No.: 1
		Room No.: 1
		Device No.: 1
		Serial No.:
		101807A7F06DAF6
		Version
		HSE07-IC_Digital_V1.13_20240326_PP_N32926
	ASE	Additional settings
		Physical address >
	پر Settings	Door lock setting

3

4 √ Save

8.2.5 Configuring the physical address

1. Outdoor Station

Please follow the steps below:

- [1] On the designated Outdoor Station, go to the "Additional settings" section, click "Physical address".
- [2] Go to the "Device type" section, select "Outdoor Station".

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ABB

- [3] Enter the block number (001...999) and the device number (01...64).
- [4] Click "Save".

HOME 🔞 🗟 SOS 💽 🗜	< DOOR ENTRY SYSTEM >	
	2nd-OS 001-0101-01	LIST VIEW
		Additional settings Physical address
		Door lock setting
		IP address >
		Card mode setting
		Time synchronization >
	A85	Local firmware update
		Design label
		Online firmware update >
	Settings	List of trusted devices >
HOME 🔟 🗟 SOS 🕥 🖡	< DOOR ENTRY SYSTEM >	
-	2nd-OS 001-0101-01	LIST VIEW
		Device type
		Outdoor station 2 ~

2. Second-confirm Station

Please follow the steps below:

- [1] On the designated Outdoor Station, go to the "Additional settings" section, click "Physical address".
- [2] Go to the "Device type" section, select "Second-confirm Station".
- [3] Enter the physical address.
- [4] Click "Save".

HOME 🔟 🗟 SOS 💽 🖡	COOR ENTRY SYSTEM	
æ	2nd-OS 001-0101-01	LIST VIEW
		Additional settings Physical address
	- • • · ·	Door lock setting
		IP address >
		Card mode setting
		Time synchronization
		Local firmware update
		Design label
	ABB	Online firmware update
	بو Settings	List of trusted devices >
HOME 🚺 🗟 SOS 안 県	COOR ENTRY SYSTEM CONTINUES 2nd-OS 001-0101-01	LIST VIEW Device hype
		Second-confirm station 2 ~
		Physical address
		Block No.: 1
		Floor No.: 1 Room No.: 1
		Device No.: 1
	Ê O	

ABB

بر Settings

4√ Save

4

8.2.6 Configuring the IP address

- On the designated Outdoor Station screen, go to the "Additional settings" section, click "IP address".
- [2] Select the network type, it can set to "DHCP" or "Static address.
- If "Static address" is selected, you need to enter the IP address manually.
- [3] Click "Save".

Home 🔟 🗟 sos 💽 🖡	< DOOR ENTRY SYSTEM >		
	2nd-OS 001-0101-01	LIST VIEW	
		Additional settings Physical address Door lock setting IP address Card mode setting Time synchronization Local firmware update Design tabel Online firmware update	> > > > > > > >
	Settings	List of trusted devices	>
HOME 🔞 🖓 SOS 💽 💂	2nd-OS 001-0101-01	LIST VIEW	
		IP address	~
		IP address 192.162.1 Subnet mask 255.255.255	
	ABB	DNS server 192.168.1.1	

8.2.7 Configuring the lock

- [1] On the designated Outdoor Station screen, go to the "Additional settings" section, click "Door lock setting".
- [2] Set the lock type of default lock, it can be set to "Lock-GND", "NO-NC-COM" or "IP Actuator".
- If "IP Actuator" is selected, you need enter the device number of IP Actuator of select the designated IP Actuator.
- [3] Set the lock type of subsidiary lock, it can be set to "Lock-GND", "NO-NC-COM" or "IP Actuator".
- If "IP Actuator" is selected, you need enter the device number of IP Actuator of select the designated IP Actuator.
- [4] Set the unlock time for "Lock-GND".
- [5] Set the unlock time for "Relay lock".
- [6] Click "Save".

Home 🔟 🗟 sos 💽 💂	< DOOR ENTRY SYSTEM >		
ā	2nd-OS 001-0101-01	LIST VIEW	
		Additional settings	
		Physical address	>
		Door lock setting	>
		IP address	>
		Card mode setting	>
		Time synchronization	>
		Local firmware update	>
	ABB	Design label	>
		Online firmware update	>
	Settings	List of trusted devices	>



8.2.8 Configuring the card mode

Please follow the steps below:

- [1] On the designated Outdoor Station screen, go to the "Additional settings" section, click "Card mode setting".
- [2] Tick/untick the check box to enable/disable the function.

â

Settings

- If the function is enabled, when you register an IC card on the Outdoor Station, a security key will be written to the IC card to achieve higher security.
- [3] Click "Save".

HOME 🔟 🗟 SOS 💽 🖡	< DOOR ENTRY SYSTEM >	
ā	2nd-OS 001-0101-01	LIST VIEW
		Additional settings
		Physical address
		Door lock setting
		IP address >
		Card mode setting
		Time synchronization
		Local firmware update
	ABB	Design label
		Online firmware update
	Settings	List of trusted devices >
HOME 🔟 🗟 SOS 💽 💂	< DOOR ENTRY SYSTEM >	
	2nd-OS 001-0101-01	LIST VIEW
		Card mode setting

-

3

8.2.9 Configuring the "Time sync" function

- [1] On the designated Outdoor Station screen, go to the "Additional settings" section, click "Time synchronization".
- [2] Tick/untick the check box to enable/disable the function.
- If the function is enabled, the Outdoor Station will sync the time from the management software.
- [3] Click "Save".

HOME 🔟 🗟 SOS 💽 🖡	< DOOR ENTRY SYSTEM >	
ā	2nd-OS 001-0101-01	LIST VIEW
		Additional settings Physical address
	-1 (9 - 1)	Door lock setting
		IP address >
	The subscreen set of the set of t	Card mode setting
		Time synchronization
		Local firmware update
	Ann	Design label
		Online firmware update
	Settings	List of trusted devices >
HOME 🔟 🗟 SOS 🛈 🖡	C DOOR ENTRY SYSTEM	
<u></u>	2nd-OS 001-0101-01	
		LIST VIEW Time synchronization

8.2.10 Configuring the trusted devices

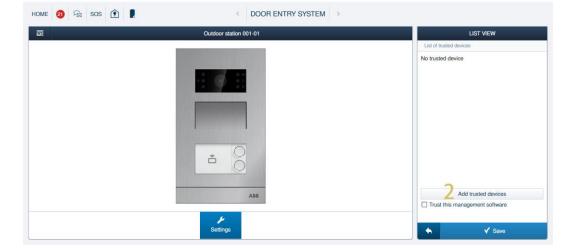
If you want to release the lock on the Outdoor Station, you need to check:

- The Indoor Station and the Outdoor Station have been signed on "Smart Access Point".
- The Indoor Station has been added on the trusted list on the Outdoor Station.

Please follow the steps below to add the trusted device:

- [1] On the designated Outdoor Station screen, go to the "Additional settings" section, click "List of trusted devices".
- [2] Click "Add trusted devices".

HOME 🕘 😼 SOS 💽 💂	< DOOR ENTRY SYSTEM >	
æ	2nd-OS 001-0101-02	LIST VIEW
		Additional settings
		Physical address
		Door lock setting
		IP address >
	Contraction of the local division of the loc	Card mode setting
		Time synchronization
		Local firmware update
	EEA	Design label
		Online firmware update
	Settings	List of trusted devices



- [3] Select the designated Indoor Stations to trusted list.
- [4] Click " \checkmark " to confirm.
- [5] [Optional] You need to enable the "Trust this management software" function if you want this Outdoor Station to unlock in the event of an emergency.
- [6] Click "Save".

HOME 🕘 🗟 SOS 💽	Add trusted devices	_
	Please select device	LIST VIEW
		sted devices
		d device
	E Building1	
	G I Floor 1	
	 ✓ Indoor station 001-0101-01 ✓ Indoor station 001-0101-02 	
	✓ Indoor station 001-0102-01	
		Add trusted devices this management software
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		Indoor station 001-0102-01 10282C987871F97 Indoor station 001-0101-02 102807A7F063253
		Indoor station 001-0102-01 10282C987871F97 Indoor station 001-0101-02
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8.2.11 Updating the firmware

1. Local firmware update

- [1] On the designated Outdoor Station screen, click "Local firmware update".
- [2] Click "Browser" to select the update file (.img).
- [3] Click "Browser" to select the signature file (.sig).
- [4] Click "Save".
- [5] Click "I agree" to accept the end user license agreement.

HOME 🔟 🗟 SOS 💽 💂	< DOOR ENTRY SYSTEM >	
.	2nd-OS 001-0101-01	LIST VIEW
	-	Additional settings Physical address
	······································	Door lock setting
		IP address >
		Card mode setting
		Time synchronization
		Local firmware update >
	ABB	Design label
		Online firmware update
	Settings	List of trusted devices >
HOME 🔞 🖓 SOS 论 🖡	COOR ENTRY SYSTEM	
=	2nd-OS 001-0101-01	LIST VIEW
	End User License Agreement	
	End User License Agreement ABB End User License Agreement ("EULA")	Local firmware update
		Local firmware update Firmware update file CrifakepathIENC_HSE07-IC_V1.13_20240326_PP_NC
	ABB End Liter License Agreement ("EULA") MMPORTANT: PLSAE READ THE TERMS AND CONDITIONS OF THIS LICENSE AGREEMENT CAREFULLY BEFORE CONTINUING WITH THIS PROGRAM RISTALL THE End Liter License Agreement ("EULA") a subgat agreement between you (either an individual or a	Local firmeuro update Firmeuro update file Colakepath/ENC_HSE07-IG_V1.13_20240326_PP_N: Browser
	ABB End User License Agreement ("EULA") IMPORTART: PEAKE READ THE TERMS AND CONDITIONS OF THIS LICENSE AGREEMENT CAREFULLY BEFORE CONTINUON WITH THIS PROCIPAM INSTALL. This End User License Agreement ("EULA") is a logit agreement between you (either an individual or a single entity and ABB GENWAY XAMENE ELECTRICAL EQUIPMENT CO., LTD or is additise; (the "Company") on the "SOFTWARE PROLICET. SOFTWARE PROLICET means the machine readable	Local firmware update Firmware update file CrifakepathIENC_HSE07-IC_V1.13_20240326_PP_NC
	ABB Brid Ider License Agreement (EULA*) IMPORTANT: PLASE FRAD THE TENDS AND CONDITIONS OF THIS LICENSE AGREEMENT CALEFULLY REFORE CONTINUING WITH THIS PROVIDEM INSTALL The Brid Ider License Agreement (EULA*) is a logid agreement between you (other an individual or a single entity) and ABB (GRIWAY MAKEN LICENTEAL EQUIPMENT CO., LTD or is atiliated (the Company) for this '35C FWIRE FROCUCT': SOF TWEE FROCUCT means the FROCUCT means the instant of the single remains and the the Soft FWIRE FROCUCT means the the single antity and ABB (GRIWAY MAKEN LICENSE of COMPANIE), using the single antity and ABB (GRIWAY MAKEN LICENSE of COMPANIE), using the single antity and ABB (GRIWAY MAKEN LICENSE of COMPANIE), using the single antity and the single and the single antity and the single ant	Local Immere update Firmware update file Critakepath/ENC_HSE07-IC_V1.13_2024/0326_PP_NC Browser Z
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- [6] Update status will be displayed.
- [7] Click "Close" when the update is completed.

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	20003001010101			Floor No.:	
				Floom No.:	
				Device No.:	
				Serial No.	
				101807A7F06E	MF6
				Version	
		Close		HSE074G_Dig	
	The section of the se	ABS		Additional setti	
	×			Physical add	ess >
	Settings			Door lock set	ting >

2. Online firmware update

- [1] On the designated Outdoor Station screen, click "Online firmware update".
- [2] Current firmware version will be displayed.
- [3] "Current firmware is up to date" will be displayed if no newer version is available.

HOME 🔞 🗟 SOS 💽 🗜	< DOOR ENTRY SYSTEM >	
	2nd-OS 001-0101-01	LIST VIEW
		Additional settings Physical address
		Door lock setting
		IP address
		Card mode setting
		Time synchronization
		Local firmware update
	ABB	Design label
	4	Online firmware update >
	Settings	List of trusted devices >
Home 🔞 Pa sos 🏚 🖡	< DOOR ENTRY SYSTEM >	
Home 🔞 🕫 sos 🕦 🖡	< DOOR ENTRY SYSTEM > 2nd-OS 001-0101-01	LIST VIEW
		LIST VIEW Online firmware update Current software vension:
		Online firmware update
		Online firmware update Current software version: HSE07-6_Digital_V1.13_20240326_PP_N32526 New firmware
		Online firmware update Current software version: HSE07-0C_Digital_V1.13_20240326_PP_NS2528 2

8.3 Card management

The chapter applies to the Outdoor Station integrated with ID or IC card reader.

(С)	

Note

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

1. Card management on local outdoor station

Initiate status

When the device is powered on the first time, all 3 indicators flash in red, orange & green.

Create admin card

The first card swiped after powering up the device within 60 seconds will be as the admin card.

Function	Action	Unlock indicator
Create admin card	Swipe card 1x	Green

Enter settings

In standby status, swipe the admin card once to enter the settings.

Function	Action	Unlock indicator
Enter settings	Swipe admin card 1x	Orange

Normal settings

After entering the settings, following functionalities can be implemented:

Function	Action	Unlock indicator
Enrol user	Swipe admin card 1x	Orange flashes 1x
	Swipe user card 1x	Green
Delete user	Swipe admin card 2x	Orange flashes 2x
	Swipe user card 1x	Green
Enrol new admin	Swipe admin card 3x	Orange flashes 3x
	Swipe new admin card 1x	Green
Delete admin	Swipe admin card 4x	Orange flashes 4x
	Swipe other admin card 1x	Green
	Swipe admin card 5x	Orange flashes quickly
Delete all users	Swipe admin card 1x	Green

During setting, please swipe the same admin card.

Function	Action	Unlock indicator
Exit settings	Swipe admin card 1x or no cards swiped within 15 seconds	

Function	Action	Unlock indicator
Open a door	Swipe the enrolled keycard	Green

Technical data of ID card

Used frequency	Standard
125KHz	EM4100, EM4205, EM4305, EM4450, TK4100, T5567/T5577

Technical data of IC card

Operating frequency	13,56 MHz
Standard	ISO 14443A
Support card	Mifare one S50/S70, Mifare desfire EV1/EV2
Output format	Wiegand 26/34 bit



Note

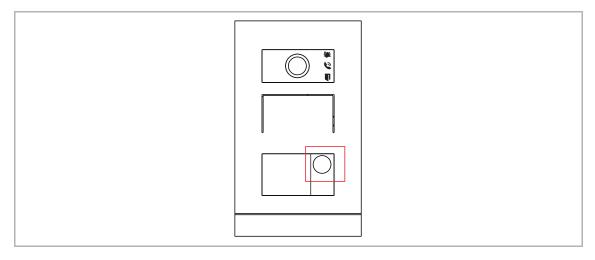
A maximum of 64 ID cards can be supported. A maximum of 64 IC cards can be supported.

2. Card management on management software

Please see the "Management software" product manual for more details.

8.4 Restoring to factory default

- [1] Power on the Outdoor Station, wait until all 3 LED indicators go out.
- [2] Within 2 minutes of powering on the Outdoor Station, press and hold the first pushbutton for 5 seconds until all 3 LED indicators flash.
- [3] Press and hold the first pushbutton again for the 10 seconds until the Outdoor Station emit a "di" sound and 3 LED indicators go out.



9 Cyber security

9.1 Disclaimer

These 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 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 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.

9.2 Performance and service

Network performance

Туре	Value
Ethernet	24 Mbps (37,449 packets/sec)
ARP	12 Mbps (18,724 packets/sec)
ICMP	22 Mbps (34,328 packets/sec)
IP	22 Mbps (34,328 packets/sec)

Port and service

Port	Service	Purpose
5070	UDP	To be used by SIP client.
7777	TCP/UDP	To be used for device management.
10777	TLS	Secure channel for device management
7005	ТСР	To be used for connectivity detection when this feature is enabled.
8887	ТСР	To be used for firmware update.

9.3 Deployment guideline

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 acts as CA.

It's suggested that compatible mode only to be used when device needs 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.

9.4 Upgrading

Device supports firmware updates via management software, a signature file will be used to verify the authentication and integrity of firmware.

9.5 Backup/Restore

None.

9.6 Malware prevention solution

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

10 Notice

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