

2TMD041800D0018 | 20.06.2019

Product manual ABB-Welcome IP

H8303 Guard unit H8303-02 Guard unit



1	Notes on the instruction manual4			
2	Safety	۲	4	
3	Intend	ed use	4	
4	Envir	nment	5	
	4 1	ABB devices	5	
	7.1		0	
5	Produ	ct description	6	
	5.1	Control elements	6	
	5.2	Terminal description	7	
6	Techr	ical data	8	
7	Moun	inα/Installation	9	
	7.1	Requirement for the electrician	9	
	7.2	, Mounting	10	
	_		-	
8	Comn	nissioning	11	
	8.1	Initial setup	11	
	8.2	Enter System settings	14	
	8.3	Sound settings	15	
	8.4	Language settings	16	
	8.5	Display settings	17	
	8.6	Date and time settings	18	
	8.7	Monitor settings	19	
	8.8	Engineering settings	20	
		8.8.1 Enter engineering settings	20	
		8.8.2 Local settings	21	
		8.8.3 Change password	22	
		8.8.4 LOCK group	23	
	8.9	Reset settings	24	
	8.10	About	27	
	8.11	Add a contact	28	
٥	Onera	tion	20	
3			23	
	5.1	9.1.1 Call from outdoor station/gate station	23	
		9.1.2 Calling from the guard unit/indoor station	23	
	9.2	Intercom	31	
		9.2.1 Accessing the intercom screen	31	
		9.2.2 Initiating an intercom call	32	
	9.3	Surveillance	33	
		9.3.1 Surveillance from outdoor station/gate station	34	
	o 1	9.3.2 Calling other guard unit	35	
	9.4	HISTORY	36	

	9.5	Call forwarding	39
	9.6	Emergency unlock	40
	9.7	Lock group	43
	9.8	Alarm record	45
10	FCC		47
11	Cyber	security	48
	11.1	Disclaimer	48
	11.2	Performance and service	48
	11.3	Deployment guideline	49
	11.4	Upgrading	49
	11.5	Backup/restore	49
	11.6	Malware prevention solution	49
	11.7	Password rule	49

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 a part of the Busch-Welcome IP system, this device can only be used with accessories from the 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 Control elements



5.2 Terminal description



6 Technical data

Designation	Value		
Rating voltage	24 V DC		
Operating voltage range	20-27 V DC		
Rating current	27 V DC, 230 mA 24 V DC, 260 mA		
Display size	7"		
Resolution	1024 x 600 pixel		
Product dimensions	265 mm × 165 mm × 115 mm		
Operating temperature	-10 °C+55 °C		
PoE standard	IEEE802.3 af		
Network connection standard	IEEE 802.3, 10Base-T/100Base-TX, 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



8 Commissioning

8.1 Initial setup

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

1. Select system language

INSTALLATION		
	Please select system language	
	English	
	简体中文	
	Deutsch	
	Español	
	Français	
	Start	

2. Accept licensing terms

INSTALLATION						
	ABB End User License Agreement ("EULA")					
IMPORTANT: PLEASE READ THE TERMS AND CONDITIONS OF THIS LICENSE AGREEMENT CAREFULLY BEFORE CONTINUING WITH THIS PROGRAM INSTALL						
This End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a single entity) and ABB GENWAY XIAMEN ELECTRICAL EQUIPMENT CO., LTD or its affiliates (the "Company") for the "SOFTWARE PRODUCT". SOFTWARE PRODUCT means the machine readable (object code) version of the						
	I accept the terms "Licensir	ng Terms"				
	<	>				
INSTALLATION						
	Licensing Terms ABB-Welcome					
	Open source licenses					
	Following Licenses are used in the products Guard unit H8303 & H8303-0x					
	Component: Linux OS License : GNU GENERAL PUBLIC LICENSE V2 Copyright year: 1992 - 2010 Copyright holder: Linus Torvalds et al.					
	Component: Rueyboy					
	✓ I accept the terms "Licensing Terms"					
	< >					

3. Set date and time

INSTALLATION							
	Please select date and time						
	Time		Date				
	03	20		21	12	2017	
	04	21		22	01	2018	
	05 :	22	2	23	02	2019	
	06	23	1	24	03	2020	
	07	24		25	04	2021	
	Time Format		Date	Forma	at		
	24 hours	~	DD)/MM/	YYYY	~	
		<			>		

8.2 Enter System settings

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



8.3 Sound settings

On the "System settings" screen, click "Sound" to access the settings.

System Settings	
System settings	
Sound	Sound
Language	1 Touch tone
Display	Ringtone settings
Date and time	2
Sound	Ringtone of outdoor station Ringtone of guard unit
Language	Ringtone 1 V Ringtone 2 V
Display	Ringtone of indoor staiton
Date and time	Ringtone 3 V
Monitor settings	3 Volume settings
Engineering settings	
Reset settings Su 22/07/18 05:54	4 Repeated tone on

No.	Function
1	Touch sound setting
2	Ringtone setting Click the drop-down list to select the ringtones for outdoor stations, indoor stations, guard unit (4 bulit-in ringtones).
3	Volume settings Adjust the ringtone volume.
4	Repeated tone setting ON = repeated ringtone within 30 s, OFF = rings only once

8.4 Language settings

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

System Settings		
System settings		
Sound		
Language	English	
Display	简体中文	
Date and time	Deutsch	
Monitor settings	Español	
Engineering settings	Français	
Reset settings	Italiana	
Su 22/07/18 05:54		۵

8.5 Display settings

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

★ System Settings		
System settings		
Sound	Clean screen	
Language	1 🖏	
Display	Display	
Date and time	Prichtness	
Monitor settings	2 O	
Engineering settings	Carooneovor	'
Depat pattings		
Display	3 30 seconds ✓	
Date and time	End time	
Monitor settings	3 minutes 🗸	
Engineering settings	Screensaver type	
Reset settings	Digital clock 🗸	
About	☑ Auto full screen 4	
Su 22/07/18 02:24		0 🌲

No.	Function
1	 Clear screen The countdown (130) is displayed on the screen if this function is activated. Any actions on the screen will be invalid. The guard unit will exit "Clean screen" mode if an incoming call is received.
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.
4	Auto full screen (default)

8.6 Date and time settings

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

•	System Settings						
Sys	stem settings nguage	Sync with mana	gement center 1				
Display		Time 2	Date	Date			
Date and time		2 00 22 01 23	20 21	05 06	2016 2017		
Мо	nitor settings	02 : 24	22	07	2018		
Eng	gineering settings	03 25 04 26	23	08	2019 2020		
Reset settings		Time Format	Date Forn				
Abo	out	24 hours		I/YYYY	~		
Enę	gineering settings	Summer time 3					
Reset settings Image: Control of the setting s				<i>%</i>			
No.	Function						
1	Sync time type Tick the checkbox to syn	c the date and time from	the management	software a	utomatically.		
2	Time and date setting						
3	Summer time Tick the checkbox to ena	ble the function.					

8.7 Monitor settings

On the "System settings" screen, click "Monitor settings", and then click "Download the camera list" to download the camera list from the management software.

System Settings			
System settings			
Sound	Name	Address	Enable
Language	IP camera	10.0.0.57	V
Display			
Date and time			
Monitor settings			
Engineering settings		[
Reset settings		Download the	camera list
Su 22/07/18 00:04			Ð 🌢

8.8 Engineering settings

8.8.1 Enter engineering settings

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

Local settings	Engineering password		
	Input original password:	****	
	Input new password:	****	
	Enter new password again	****	
	×	ОК	



Password rule

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



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.

8.8.2 Local settings

•	★ Engineering settings			
Eng	Engineering settings			
Loc	cal settings	Device no. 1		
Pa	ssword management	01		
Loc	ck management	Call mode 2		
		Physical address 🛛 🗸		
		the 2nd lock 3	off	
		Compatible mode 4	off	
			5 Clear all data	
Sa 23	8/02/19 05:23		Ø 🌲	
No.	Function			
1	1 Device No Range is 132.			
2	Call mode Toggles the call mode between "Physical address" (default) and "Logical address".			
3	3 The 2nd lock Releases the secondary lock on the outdoor station if the function is enabled.			
4	Security mode/Compatible mode The guard unit works in "Security mode" by default to guarantee high security (switch is set to "off"). In this mode, the certificate issued by the management software must be set up on the guard unit before use.			
	If there is no management software, the guard unit works in "Compatible mode" to work normally. (switch is set to "on").			
5	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			

8.8.3 Change password

On the "System settings" screen, click "Password management" to access the settings.

Engineering settings				
Engineering settings			_	
Local settings	Engineering password	1		
Password management				
Lock management	Lock group	2		
	Emergency unlock	3		
Sa 23/02/19 05:51			Ø	۵

No.	Function
1	Change engineering password
1	Click here to change the engineering password (the system default is 345678).
	Change lock group password
2	Click here to change the lock group password (the system default is 123456). Please see the "Lock group" chapter for more details.
	Change emergency unlock password
3	Click here to change the emergency unlock password (the system default is 123456). Please see the "Emergency unlock" chapter for more details.
0	Password rule
П	This password must not include continuously increasing or decreasing numbers
	(e.g. 123456, 654321). Three consecutive identical numbers are similarly

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).

8.8.4 Lock group

This function is only available on the guard unit which is set to "Security mode".

On the "Engineering settings" screen, click "Lock management" and "Add area" to access the settings.

Tick the "Lock group" checkbox to enable the function, select the lock, enter the area name (e.g. "E01") and click "OK" to save.

Engineering setting	S
Engineering settings	
Local settings	Add area
Password management	
Lock management	
🔶 Engineering setting	S
Area name	
E01	
Emergency unlock	🗹 Lock group
Select lock	
GS-01	Sullding IP Actuator-001-01
×	ОК
Mo 23/07/18 00:27	

8.8.5 Emergency unlock

On the "Engineering settings" screen, click "Lock management", then click "Add area" to access the settings.

Tick the check box "Emergency" to enable the function, select the lock, enter the area name (e.g. "All") and click "OK" to save.

Engineering setting	ngs
Engineering settings	
Local settings	Add area
Password management	
Lock management	
👌 Engineering settir	gs.
Area name	
All	
Schergency unlock	Lock group
Select lock	
🗹 GS-01	Sullding IP Actuator-001-01
×	ОК
**	
M6-23/07/18 00:26	

Fire linkage

This function is only available on the guard unit which is set to "Security mode".

On the "Engineering settings" screen, click "Lock management", tick the "Fire linkage" checkbox to enable the function (the system default is disabled).

Select lock open type (e.g. "Normally closed") and then click "Related area", select an emergency unlock area and click "OK" to save.

Engineering settir	ngs	
Engineering settings		
Local settings		
Password management		
Lock management		
	🗹 Fire linkage	
	Normally open 🗸 Related area	
Sa 23/02/19 05:51	ଡ	۰
🔶 Engineering settin	igs	
 Engineering settin All 	ngs.	
Engineering settin	ngs.	
Engineering settin	ngs.	
 ← Engineering settin ✓ All 	ngs.	
C Engineering settin	ngs.	
 € Engineering settin ▲ 	Igs.	
C Engineering settin	ngs.	
All	IGS.	
Engineering settin	IGS.	

8.9 Reset settings

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

System Settings	
System settings	
Language	
Display	Reset user settings
Date and time	
Monitor settings	
Engineering settings	
Reset settings	
About	
Su 22/07/18 02:17	Ð 🌲

8.10 About

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

System Settings	
System settings	
Language	Firmware version
Display	1 HGM53_Main_V0.55_20181229_ES_IMX6 Extended version
Date and time	HGM53_MCU_V0.15_20180419_PP_IMX6
Monitor settings	2 Address of guard unit:
Engineering settings	Device no. 01
Reset settings	3 Serial number:
About	103807A7F02801B(GVT)
Monitor settings	signature: 4 007898BB7A920521
Engineering settings	Manual:
Reset settings	
About	
Su 22/07/18 05:49	Ð 🌲

No.	Function
1	Version information
2	Address of the guard unit
3	Serial number This number is used to obtain the certificate from the management software.
4	Signature This number is displayed when the guard unit receives the certificate from the management software successfully.
5	Manual Scan this QR code to call up the product manual for the guard unit.

8.11 Add a contact

DOOR ENTRY

On the DES home screen, click to access the corresponding screen.

On the "Intercom contacts" screen, click 📕 to access the settings.

Click "Add contacts" to add a contact.

Click "Download contacts" to download the contacts from the management software.

Click "Delete All" to delete all contacts.

		\checkmark
nload contacts 🛃	Delete All 🔟	
	001-0101	١.
	vnload contacts 🛃	vnload contacts 🛃 Delete All 前 001-0101

9 Operation

9.1 Incoming call

9.1.1 Call from outdoor station/gate station

The guard unit displays the image as full screen by default.

Click to switch to normal screen mode.

OS-001-01 1				9	<u>.</u>
2				8 🗖	9 P
					OS-001-01 10 ¥
					- 📣 3 +
				7	
;	3 4	5	6		
	~	ŝ	%		
Su 22/07/18 06:14					0 <i>1</i> /2

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.
	Release the default lock
4	Click this icon to release the default lock on the calling outdoor station.
	Release the 2nd lock
5	Click this icon to release the secondary lock on the calling outdoor station. This function is disabled by default. Please see the "Local settings" chapter about how to enable the function.
6	Click this icon to mute the ringtone on the guard unit.
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.
9	Click this icon to take a snapshot manually.
10	Select the image of the outdoor station or the camera from the drop-down list.
11	Click "+" or "-" to adjust the volume.



9.1.2 Calling from the guard unit/indoor station

9.2 Intercom

9.2.1 Accessing the intercom screen

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

DOOR ENTRY	
	Ę
	Q
==★ Su 22/07/18 05:59	A

9.2.2 Initiating an intercom call

On the Intercom screen, select a contact, then click L to initiate an intercom call

DOOR ENTRY	INTERCOM		
Intercom contacts	S Q	٣	۶
JACKY	001-0101		5

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

Intercom contacts	Room number			
JACKY	00	1-010)1 🔍	
	1	2	3	
	×		1	

9.3 Surveillance

DOOR ENTRY

In standby mode, on the DES screen, click to start a surveillance.

OS-002-02 <mark>1</mark>						<u> </u>
2					8 🗖	9 H
						OS-002-02 10 🗸
						- • • • • 11+
					7 📥	• ₁₂
	3	4	5	6		
	•	Ĵ	Ĵ	*		
Su 22/07/18 05:22	2					A

9.3.1 Surveillance from outdoor station/gate station

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	Release the 2nd lock Click this icon to release the secondary lock of the monitored outdoor station.
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	Select the image of the outdoor station or the camera from the drop-down list.
11	Click "+" or "-" to adjust the volume.
12	Click this icon, enter "Building no."+ "Device no." to monitor the dedicated outdoor station or enter "Device no." to monitor the dedicated gate station.

9.3.2 Calling other guard unit

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

Click Manual and entert "#"+ "Guard unit no.", then click it to initiate an intercom call.

DOOR ENTRY INTERCOM						
Intercom contacts	Address of guard unit					
		#1	Ø			
	1	2	3			
	4	5	6			
	7	8	9			
		0				
	×		r			
Sii 22/07/18 - 00:22						y.

9.4 History

In standby mode, click on the DES home screen or click on the status bar to access the "History" screen.



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

DOOR ENTRY HISTORY								
All history records								
63	Indoor station-001-0101	Take call	23/ 07/ 2018	00:44				
C.	Indoor station-001-0101	Dialed	23/ 07/ 2018	00:43				
	GS-01	Take call	22/ 07/ 2018	07:42				
	GS-01	Take call	22/ 07/ 2018	07:41				
	GS-01	Take call	22/ 07/ 2018	07:40				
0	Indoor station-001-0101	Take call	22/ 07/ 2018	07:35				
Mo 23/0	07/18 00:46				۵			

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 for enter the settings.

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

DOOR ENTRY HISTORY								
All his	story records				v			
		Delete All 🔟						
0	Indoor station-001-0101	Take call	23/ 07/ 2018	00:44	Ū			
2	Indoor station-001-0101	Dialed	23/ 07/ 2018	00:43	Ū			
<u>_</u>	GS-01	Take call	22/ 07/ 2018	07:42	Ū			
	GS-01	Take call	22/ 07/ 2018	07:41	Ū			
	GS-01	Take call	22/ 07/ 2018	07:40	Ū			
Mo 23/0	7/18 00:46			Ø	٠			

9.5 Call forwarding

When the guard unit receives a call from an outdoor station, you can click static to access "Call forward" screen, then click to transfer the call to the indoor station. Or you can click and then enter the address of the indoor station to transfer the call.



9.6 Emergency unlock

On the extra screen, click "Emergency unlock" to access the corresponding screen.



Click Click . then enter the emengency unlock password (the system default is 123456), click "OK" to unlock. will be displayed if successful.



If you want to lock again, you can click a then enter the emengency unlock password, click "OK" to lock.

Fire alarm

If the "Fire linkage" function is used and related to the emergency unlock or lock group, when the alarm is triggered, the guard unit may receive the the message below.

i 17 Equine Te			
	Informatio	n	
	()	Fire alarm has been triggered! Area:aa	
		OK	
Engine			
Engineering se			
Engineering se	ering setti ettings	aa Emergency unloc	
Engineering se Local settings Change passw	ering sett ttings Informatio	ings aa Emergency unloc on	
Engineering se Local settings Charige passw Lock managen	ering sett offings Information	Fire alarm been triggerred! Please evacuate the relevant people.	
Engineering se Local settings Charige passw Lock managen	ering setti tilings Informatio	Fire alarm been triggerred! Please evacuate the relevant people.	
Engineering se Local settings Change passw Lock managen	ering sett offings Information	Ings Ings Ings Ings Ings Ings Ings Ings	

9.7 Lock group

On the extra screen, click "Lock group" to access the corresponding screen.



Click , then enter the lock group passward (the system default is 123456), click "OK" to unlock.

Lock group						
Lock group						
E01	Enter lo	ock group	pas			
	*	****	8			
	1	2	3			
			6			
	×		ОК			
No 23/07/18 01:16					9	
Lock group						

If you want to lock it again, you can click , then enter the lock group password and click "OK" to lock.

9.8 Alarm record

On the extra screen, Click "Alarm record" to access the corresponding screen. A maximum of 100 alarm records is supported.



The guard unit will display the alarm message and paly the alarm sound if there is an alarm (e.g. SOS, zone alarm, duress alarm, tamper alarm) is sent from the indoor station or the outdoor station.

Alarmitime		Room number	Sensor	Zone no.
	ALARM			
23/07/2018/05				
	N	Alarm position:001	-0101	
		Alarm type:Sos		
		Zone number:Non	2018 05.28	
		Alami lime.23/ 07/	2010 03.20	
		O	<	

Operation

10 FCC

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.

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 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

H8303 product is 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 H8303 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

Туре	Value
Ethernet	36 Mbps (56,174 packets/s)
ARP	20 Mbps (31,208 packets/s)
ICMP	25 Mbps (39,010 packets/s)
IP	25 Mbps (39,010 packets/sec)

Port and service

Port		
5070	UDP	To be used by SIP client.
7777	TCP/UDP	To be used for device management
8887	ТСР	To be used for firmware update
10777	TLS	Secure channel for device management

11.3 Deployment guideline

All devices need to work in security mode by default and. all devices on one system are to be signed by a public CA at commissioning stage; normally the management software acts as CA.

It is suggested that compatible mode is only used when the device needs to communicate with previous generation products. In this mode, data transmission between devices is not encrypted, may lead to data leaks and involves a risk of attacks.

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

The device supports firmware updates via the management software, where a signature file is used to verify the authentication and integrity of the firmware.

11.5 Backup/restore

None

11.6 Malware prevention solution

The device H8303 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 signed by ABB can be accepted.

11.7 Password rule

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

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.

We reserve all rights to this document and the topics and illustrations contained therein. The document and its contents, or excerpts thereof, must not be reproduced, transmitted or reused by third parties without prior written consent by ABB.



Contact us

ABB (United Arab Emirates)

Industries(L.L.C) P.O.Box 11070 Dubai-UAE T : +971 4 3147 586 F : +971 4 3401 541

ABB (Turkey) Eletrik San.AS

ABB Élektrik Sanayi AS. Organize Sanayi Bolgesi 2 Cadde No: 16 Y. Dudullu-Istanbul T : +90 216 528 2281 F : +90 216 528 2945

ABB (Thailand) Ltd.

161/1 SG Tower, 1st-4th Floor, Soi Mahadlekluang 3, Rajdamri Road, Lumpini, Pathumwan Bangkok 10330, Thailand T : +66 2 6651 000 F : +66 2 6651 043

ABB (Korea) Ltd.

Oksan Bldg, 10th Fl. 157-33 Samsung-dong, Gangnam-gu, 135-090, Seoul, Korea T++82 2 5283 177 F:+82 2 5282 350

ABB Global Marketing - Lebanon

Down Town, Beirut, ebanon T : +961 1983 724/5 F : +961 1983 723

ABB (India) Ltd.

Plot No.1, Sector-1B, I.I.E.SIDCUL, Haridwar-249403.India T : +91 133 423 5447 F : +91 133 423 5449

ABB Australia Pty Ltd.

601 Blackburn Road 3168, Notting Hill, Victoria, Australia T : +61 3 8577 7139 F : +61 3 9545 0415

www.abb.com

Approvals and Compliances

ABB (Vietnam) Ltd.

Km 9 National Highway 1A , Hoang Liet, Hoang Mai, Hanoi, Vietnam T : +84 4 3861 1010 F : +84 4 3861 1009

ABB (KSA) Electrical Industries Co. Ltd.

P.O.Box 325841, Riyadh 11371 T : +966 1 1484 5600 F : +966 1 1206 7609

ABB (Russia) Ltd.

3121 Wiring Accessories 30/1 bld.2, Obrucheva str. RU T : +7 495 777 2220 F : +7 495 777 2220

ABB Malaysia Sdn Bhd

Block A, Level 2, Lot 608, Jalan SS13/IK 47500 Subang Jaya Selangor T : +60 3 5628 4888 F : +60 3 5635 8200

ABB (Hong Kong) Ltd.

3 Dai Hei Štreet, Tai Po Industrial Estate, Tai po, Hong Kong T : +852 2 9293 912 F : +852 2 9293 505

ABB Pte. Ltd.

2 Ayer Rajah Crescent, Singapore 139935 T: + 65 6 7765 711 F: + 65 6 7780 222

Notice

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 upon apply for orders. ABB accepts no responsibility for possible errors or incompleteness in this document.

We reserve all rights to this document and the topics and illustrations contained therein. The document and its contents, or extracts thereof, must not be reproduced, transmitted or reused by third parties without prior written consent by ABB Error! Use the Home tab to apply Überschrift 1 to the text that you want to appear here.

Copyright[©] 2019 ABB All rights reserved