

Hyperguard, Metalguard and Apparelguard ORC plug-in to EAS systems

New Utility release

Configuration Utility version 2.1.9
Firmware bundle C18



Service App for iOS available in App Store

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1. RELEASE NOTES

News in this new version:

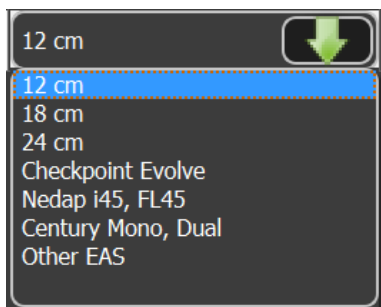
- The antenna “Type/Size” in Antenna network has got new selections:
 - Checkpoint Evolve
 - Nedap i45, FL45
 - Century Mono, Dual
 - Other EAS
- Added feature in selection of alarm relay
- The antenna boards do not need to face the same way in the antennas

1.1 Selection in Utility/Antenna Network - “Type/Size”

External plexi antennas:
12cm, 18cm and 24cm

Integrated antenna boards in OEM antennas:
Checkpoint
Nedap
Century

Special case:
Other EAS



Properties for the various antenna selections

	Used together with the following systems	TX frequency distance in neighbor aisles	Avoid this frequency distance in neighbor aisles
Antennas: 12cm plexi 18cm plexi 24cm plexi	RF (Burst, Sweep), AM RF (Burst, Sweep), AM RF (Burst, Sweep), AM	0.5kHz 0.5kHz 0.5kHz	1.5kHz 1.5kHz 1.5kHz
Integrated into: CP Evolve Nedap FL45-i45 Century Mono, Dual	RF (Burst, Sweep) RF (Sweep) RF (Burst, Sweep)	0.5kHz 0.5kHz 1.5kHz	1.5kHz 1.5kHz
Special case: Other EAS	AM with multiple master controllers	4kHz	

1.2 Examples of frequencies in 11 antenna systems

Type/Size: 12cm, 18cm, 24cm, CP Evolve, Nedap

NB: minimum 0.5kHz between 2 neighbor TX antennas

Example 1

No.	RX/TX	Freq
1	RX	
2	TX	24kHz
3	RX	
4	TX	24.5kHz
5	RX	
6	TX	25kHz
7	RX	
8	TX	26kHz
9	RX	
10	TX	26.5kHz
11	RX	

Example 2

No.	RX/TX	Freq
1	RX	
2	TX	20kHz
3	RX	
4	TX	20.5kHz
5	RX	
6	TX	21kHz
7	RX	
8	TX	21.5kHz
9	RX	
10	TX	22kHz
11	RX	

Example 3

No.	RX/TX	Freq
1	TX	22kHz
2	RX	
3	TX	22.5kHz
4	RX	
5	TX	23kHz
6	RX	
7	TX	23.5kHz
8	RX	
9	TX	24kHz
10	RX	
11	TX	24.5kHz

Type/Size: Century Mono, Dual

NB: minimum 1.5kHz between 2 neighbor TX antennas

Example 1

No.	RX/TX	Freq
1	RX	
2	TX	24kHz
3	RX	
4	TX	25.5kHz
5	RX	
6	TX	27kHz
7	RX	
8	TX	28.5kHz
9	RX	
10	TX	30kHz
11	RX	

Example 2

No.	RX/TX	Freq
1	RX	
2	TX	20kHz
3	RX	
4	TX	21.5kHz
5	RX	
6	TX	23kHz
7	RX	
8	TX	24.5kHz
9	RX	
10	TX	26kHz
11	RX	

Example 3

No.	RX/TX	Freq
1	TX	22kHz
2	RX	
3	TX	23.5kHz
4	RX	
5	TX	25kHz
6	RX	
7	TX	26.5kHz
8	RX	
9	TX	28kHz
10	RX	
11	TX	29.5kHz

Type/Size: Other EAS

NB: Only for AM systems with multiple master controllers

NB: minimum 4kHz between 2 neighbor TX antennas

Example 1

No.	RX/TX	Freq
1	RX	
2	TX	24kHz
3	RX	
4	TX	28kHz
5	RX	
6	TX	21kHz
7	RX	
8	TX	25kHz
9	RX	
10	TX	29kHz
11	RX	

Example 2

No.	RX/TX	Freq
1	RX	
2	TX	20kHz
3	RX	
4	TX	24kHz
5	RX	
6	TX	28kHz
7	RX	
8	TX	23kHz
9	RX	
10	TX	27kHz
11	RX	

Example 3

No.	RX/TX	Freq
1	TX	21kHz
2	RX	
3	TX	25kHz
4	RX	
5	TX	29kHz
6	RX	
7	TX	20kHz
8	RX	
9	TX	24kHz
10	RX	
11	TX	28kHz

1.3 Alarm Relays

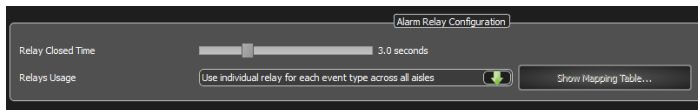
There are 3 relays with dry contacts, AUX 1-2-3

In "Alarm Relay Configuration" three different functions can be selected:

1. "Use individual relay for each event type across all aisles"
2. "Map relays to boosterbag and magnet alarm in specific aisle(s)"
3. "Use all relays simultaneously for any alarm event"

Selection 1: "Use individual relay for each event type across all aisles"

This means that the relay outputs are as follows.



Aux relay number	Event trigger
#1	Foil-lined bag
#2	Magnet
#3	Trolley

Selection 2: "Map relays to boosterbag and magnet alarm in specific aisle(s)"

This is an example with 10 aisles, where:

- Aisles 1-2-3 are assigned to relay 1
- Aisles 4-5-6 are assigned to relay 2
- Aisles 7-8-9 are assigned to relay 3
- Aisle 10 is disabled



Selection 3: "Use all relays simultaneously for any alarm event"

When an alarm is triggered in any aisle, whether it is metal or magnet, then all three relays activates.

This feature can be used if different alarm devices are used like:
12V light and trigger to video system

1.4 Antenna boards orientation

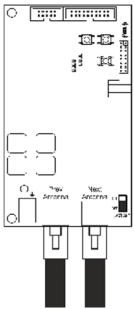
Hyperguard / Metalguard

There is no demand of having the antenna boards facing the same way. The antenna boards can be rotated vertical from 0 degree or 180 degree.

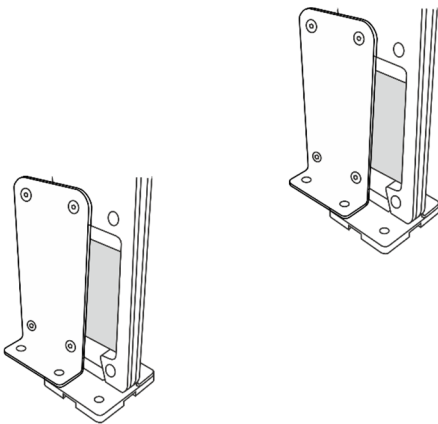
This means that:

- the antenna boards can face the same way
- OR
- the antenna boards can face each other

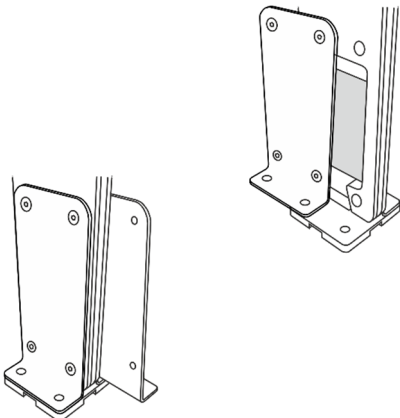
The only demand is that the antenna board is oriented having the antenna cables pointing down as shown below.



1.4.1 How to arrange the antennas for testing (the one antenna foot mounted displaced so that the pcb is seen)



Antenna boards face the same way

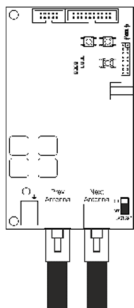


Antenna boards faces each other

Apparelguard:

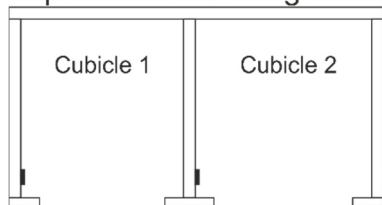
There is no demand of having the antenna boards facing the same way.
The antenna boards can be rotated vertical from 0 degree to 90 degree or 180 degree.

The only demand is that the antenna board is oriented having the antenna cables pointing down as shown below.



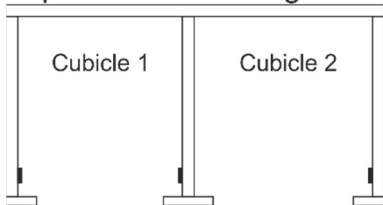
Below are some examples:

Top view of the fitting room



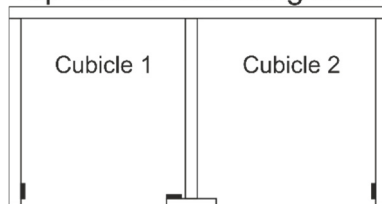
3 antennas: 0 – 0 – 0 degree

Top view of the fitting room



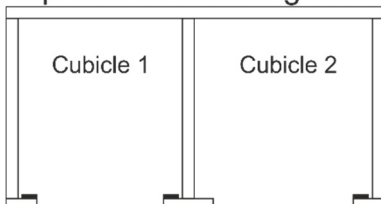
3 antennas: 0 – 180 – 180 degree

Top view of the fitting room



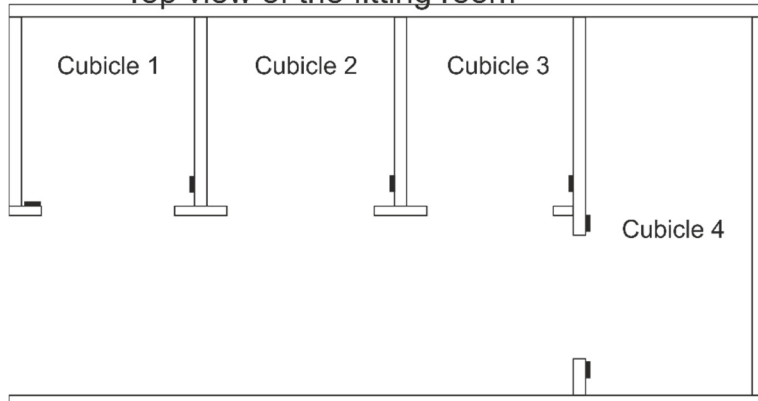
3 antennas: 0 – 90 – 180 degree

Top view of the fitting room



3 antennas: 90 – 90 – 90 degree

Top view of the fitting room



The above fitting room is with 3 standard cubicles and one for disabled persons.
This kind of fitting room cubicle has a design, that makes it difficult to use the detection for High accuracy (entry and activity)

The detection in this kind of fitting room cubicle for the disabled persons shall be set to High (only entry)

2. UPGRADE OF FIRMWARE IN CONTROLLER AND ANTENNAS

Install the utility on the laptop
Connect the laptop to the Hyperguard controller.
From the "Start" and "All Programs" menu, find the folder "Hyperguard Configuration Tool" and start the "Firmware Upgrade Utility".
HyperGuard-C12.HGU is automatically selected
Click "Start"
In the controller board a running green light is seen when upgrading

(NB.: upgrade will last for 1-2 minutes and do not interrupt the process but wait for the message "Upgrade done")

Please note, that the antenna boards might also be upgraded, and this process will last for 2 minutes.
When the led's "APP" and "ANT. LINK" in the controller board are ON, the process is done.

The readings in the Utility shall be:

Info on "Site Info" tap

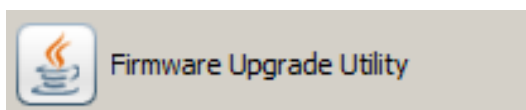
Hyperguard Configuration Utility suite:	2.1.9
Controller information	Serial number: 2ce871001aaf (MAC address)
	Versions per Aug 08, 2018
	Firmware bundle: C18
	Processor version: 5.12
	Monitor version: 1.11
	Web Service version: 1.1
	Database version: 31
	OS Release: 1.2.1-SP2
	SD card is updated via Firmware Upgrade
	SD card is write protected
OS release:	1.3
	SD card factory default or programmed using
	Alert_Hyperguard_SD_card_recovery_B52.exe
	SD card is write protected
OS release:	2.3
	Internal NandFlash is factory default and
	write protected

Info on "Antenna Network" tap

Antenna firmware: 1.56

2.1 In case the Configuration tool will not start

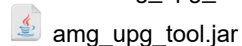
In Start menu "Hyperguard Configuration tool" you will find:



And the icon has to show a coffee cup, which means that Windows has detected it to be a Java program
If the Java icon is not shown, then the upgrade tool will not start, and has to be started another way.

Go to the Hard drive (C:) – program files – Hyperguard Configuration Tool.

The file: "amg_upg_tool.jar" shall have the Java icon



Double click on the file and the upgrade tool will start.

3. HYPERGUARD METALGUARD APPAREL GUARD MANUAL

For detailed information regarding the Hyperguard system please see the manual:
900-1003142_Hyperguard_Metalguard_Apparelguard_V219_C18
"The complete installation and service manual"