DENVER

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DENVER
HSA-120

INSTALLATION AND USER MANUAL

Alarm Security System™

ENG

Features

1. INTRODUCTION

Thank you for purchasing the DENVER - HSA-120 wireless security system.

Read carefully this manual to get the best experience with this product. Keep this manual for future reference.

The accesories for the alarm system is paired with the control panel from factory side. We suggest you remove the paper from the battery on one accessory at a time, and register the name of the zone. This makes it much easier to find out which sensors are giving alarm. (you can rename them through the app, or SMS (see point 8.5 in this manual)

1.1 Box Content
- 1 x Control Panel (with internal siren)
- 2 x Remote Controls
- 2 x Wireless Motion Detector
- 2 x Wireless Window/Door Contact
- 2 x RFID Tags
- 1 x AC Adaptor
- 2 x 800 mAh Battery (8h in standby mode)

1.2 Features
- Wireless alarm system
- Easy to install
- Control from distance by phone call
- Supports up to 10 Remote Controls, 50 Wireless Accessories
- and 50 RFID Tags
- Radio-frequency security of the accessories: more than one million code combinations
- Easy registration of new accessories
- Built-in 90dB siren to deter potential intruders
- Can store up to 5 phone numbers and 5 SMS numbers
- Arm, disarm and monitor from distance by phone operation

1.3 Recommendations
For your safety, it is recommended to follow the following precautions:
- Do not forget to arm the control panel during your absence and make sure it works properly.
- Do not forget to lock the doors, windows and other ways out of your home.
- Always keep your remote control with you and do not leave it visible or noticeable.
- To optimize the operation of the alarm system, it is recommended to select carefully the location where each accessory will be installed. It is recommended to mount the detectors on a smooth wall, to ensure the proper use of the tamper switch.
- Accessories purchased separately must be connected to the control panel manually.
- Wait until the end of the auto-test before putting back the cover of the detector.
- If you do not use this product for a long time, remove the batteries to optimize their lifespan.
- Do not cross the beams of different motion detectors.

1.4 Warnings

- The control panel is provided with a separate battery. Do not scrap used batteries anywhere. They shall be recycled in accordance with the EU Directives 91/157/EEC and 93/86/EEC.
- Do not open the case of the control panel and do not repair it yourself. If you encounter an issue with the product, contact a qualified personnel (technician or manufacturer's service).
- Take care of this product and do not let water get into it as it may damage the product.
- Place the control panel in a cool, dry and well-ventilated area. Do not install detectors near heating, cooling, or ventilation.
- Do not use detergent or other flammable materials to clean this unit.
- Do not let your device fall on the floor.
- Remove the battery holder cover with care.
- DENVER Electronics is not to be held responsible in case of burglary, theft, loss or damage to house/persons/other, power cut off or any other issues.

2. CONTROL PANEL DESCRIPTION

2.1 Control Panel Features

English	Translation
LED GSM Signal	LED GSM Signal
Zone LED indicator	Zone LED indicator
Arm/Disarm LED indicator	Arm/Disarm LED indicator
Setup/Connection LED indicator	Setup/Connection LED indicator
Power/Low Power LED indicator	Power/Low Power LED indicator
RFID Reader	RFID Reader
Arm	Arm
Disarm	Disarm
Home Mode	Home Mode
Phone Call	Phone Call

The upper blue LED is the "Arm/Disarm" status indicator. If the system is armed, the LED is on. If the system is in Home Mode, the LED blinks once every second.

The middle white LED is the Setup and Connection indicator. In Connection and Setup modes, the LED is on.

The green LED at the bottom is the Power indicator. If the control is properly powered, the LED is on. If the power of the control panel is too low (<7V), the LED blinks.

GSM signal LED indicator: when there is no GSM signal or no SIM card, the LED indicator will flash once every second, if GSM find signals, the LED indicator will flash once every 3 seconds.

English	Translation
Monitoring MIC	Monitoring MIC
Battery Holder	Battery Holder
Tamper Switch	Tamper Switch
Speaker	Speaker
Power Interface	Power Interface
Power Switch	Power Switch
SIM card socket	SIM card socket
Wired Zone Interface	Wired Zone Interface

English	Translation
Electronic Door	Electronic Door
SIM Card Slot	SIM Card Slot
Speaker	Speaker
Wired Sensor	Wired Sensor
Power Interface	Power Interface
Power ON/OFF	Power ON/OFF

2.2 SPECIFICATIONS

Control panel

- Power supply: Input AC 110~240V-50~60Hz/Output DC 12V-500mA - Internal battery backup: 3.7V/800 mAh battery pack x 2
- Internal siren: 90dB
- Quantity of accessories supported: 60 (including 10 Remote Control) - Radio frequency: 433MHz (±75 KHz)
- GSM frequencies: 850/900/1800/1900 MHz
- Housing material ABS plastic
- Operating conditions:
  Temperature: -10°C~55°C
  Humidity: ≤ 80% (non-condensing)
- Panel size (L x W x H): 191 x 131 x 26 mm

3. START WITH THE CONTROL PANEL

Before starting with the control panel, make sure each accessory has been assigned to a zone and attach the brackets of each element according to the chosen location.

Do not forget to insert the batteries into each accessory and do not put back the cover of the accessories while testing.

3.1 Connect the Control Panel

The SIM CARD (not included) must have 2G support. Please note that some SIM cards are only 3G SIM cards (no 2G) and so cannot be used for this alarm system. Also the SIM card shall be without simlock. If the card is simlocked you need to remove this (e.g. in a mobile phone) first.

1. Insert the Sim card (NOT included) in the control panel as described in the drawing below.
2. Plug the adaptor into AC power socket.
3. Switch the device on.

4. Turn on the control panel.

3.2 Enter Connection Mode

1. Press the "#" key. Then press the "1" key on the control panel to activate the connection mode. The Connection LED indicator lights up. Trigger the alarm on the wireless accessory to connect it to the control panel.

2. Press the Disarm key (⌂) on the control panel to exit the Connection mode.
3. While in Setup mode, enter "* 22 * password *" (**DEFAULT PASSWORD:1234**) on the control panel to clear the connection to all the connected accessories.

3.2.1 Wireless Remote Control

English	Translation
Disarm	Disarm
LED indicator	LED indicator
Arm	Arm
SOS	SOS
Home Mode	Home Mode

Arm the system

Press the Arm button "⬚" to arm the alarm system. The LED indicator lights up (the control panel beeps once). The system is armed.

If an intruder is detected, the siren rings out. (The siren turns off after 3 minutes as per default settings.) In the meantime, the system dials the pre-stored phone numbers automatically.

Disarm the system

Press the Disarm button "⬚" to disarm the alarm system. The LED indicator turns off (the control panel beeps twice). The system is disarmed.

Home Mode

Press the Home Mode button " ⚲ " on the remote control. The system state LED is on and flashes. All the sensors in regular zones are armed except those in the Home Mode zone. The sensors in the Home Mode zone are disarmed so that users can move inside their home.

Mute Mode

Press the Home Mode button " ⚲ " and the Arm " 🔒 " or Disarm " 🔓 " button immediately after. Doing so, the control panel does not ring out when you arm or disarm your system.

Emergency Mode
Regardless the status of the system, the alarm is triggered when the SOS button "SOS" is pressed on the remote control.
At the same time, the control panel sends a notification by SMS ("RC-*01* SOS", *01* being the remote control's number) and dials the pre-stored phone numbers.

Register in the control panel

Enter Connection Mode on the control panel. Push the button "#", and then push "1" on the control panel.

Press any button on the remote control to register it to the control panel

Specifications

Power supply: DC 3V (CR2025 button battery x1)

Static current: 10 uA

Operating current: ≤7 mA

Transmission distance: ≤ 80 m (in open area)

Radio-frequency: 433MHz (±75KHz)

Housing material: ABS plastic

Operating conditions: Temperature: -10°C~+55°C

Relative Humidity: ≤80% (non-condensing)

Dimensions: 57 x 31 x 11 mm

3.2.2 Wireless Motion Detector

Features

The high performance wireless motion detector is boasting a digital dual-core fuzzy logic infrared control chip with intelligent analysis. This technology identifies interferences created by body motion and reduces the false alarm rate.

With automatic temperature compensation and anti-air turbulence technology, it easily adapts to environmental changes.

Design

1. LED indicator
2. Detection window
3. Bracket

PCB Layout

English	Translation
LED working Indicator	LED working Indicator
Antenna	Antenna
Alarm zone Setup	Alarm zone Setup
Tamper switch*	Tamper switch*
Infrared sensor**	Infrared sensor**
AA 1.5V LR6	AA 1.5V LR6

*Tamper switch

When the alarm system is armed, the tamper switch will trigger the alarm if the case is opened.

**Infrared sensor Detects the infrared rays released by human body motion. Do not touch the surface. Keep the surface clean.

LED indications

Blinks continuously: self-testing

Blinks once: an intruder is detected

Blinks twice: self-testing is complete; entering working mode.

Blinks once every 3 seconds: under-voltage indication: the batteries must be replaced. (You will be informed by SMS when the batteries are low if the motion detector is registered in the control panel.)

Usage

Open the case and remove the battery activation strip. Self-testing will start for 30 seconds. When the sensor is in operation, if it is triggered more than twice within 3 minutes, it switches to standby mode to save power. If no movement is detected within the next 3 minutes, the sensor goes back to working mode.

English	Translation
Connect Button	Connect Button

Register in the control panel

Enter Connection Mode on the control panel. Push the button "#", and then push "1" on the control panel.

Press the connect button at the back of the motion sensor or trigger the sensor (by moving in front of it).

Installation

Avoid mounting the detector close to windows, air conditioner, heater, refrigerator, oven, sunshine and places where the temperature changes fast or where the air stream flows frequently.

If two detectors are installed in the same detection scope, adjust the location to avoid interferences and false alarms.

Fix the bracket on the wall with screws and attach the detector to the bracket.

Adjust the bracket to change the detection distance and angle. It is recommended to mount the detector 2,2 m from the ground.

English	Translation
Top	Top
Ground	Ground
Bottom	Bottom

The detector is more sensitive to cross movements than vertical movements.

English	Translation
Top view	Top view
Side view	Side view

Test
A. After the installation, turn the detector on. After one minute of self-testing, press the test button, walk in the scope of detection and watch the LED indicator to make sure the detector is working.
B. The LED indicator blinks once when body movement is detected.
C. Adjust the detector angle to achieve the best detection performance.

Specifications
Power supply
DC 3V (AA 1.5V LR6 Batteries x 2)

Static current

≤ 30 uA

Alarm current
≤ 15 mA

Detection scope
8m/110°

Transmission distance
≤ 80m (in open area)

Radio-frequency
433 MHz (±75 KHz)

Housing material
ABS plastic

Operating conditions
Temparature: -10°C~55°C
Relative humidity: ≤ 80% (non-condensing)

Detector dimensions (Lx W x H)
107 x 53 x 32 mm

Bracket dimensions (L x W x H)
52 x 30 x 26.5 mm

Detection Scope

Top view

Side view

3.2.3 Wireless Door/Window Contact

Features

The door/window contact can be installed on doors, windows, and any other objects that open and close. The sensor sends signals to the control panel when the magnet is separated from the transmitter.

Thanks to the tamper switch, any attempt to remove the cover of the Door/Window Contact will trigger the alarm.

Design

English	Translation
Magnet	Magnet
Transmitter	Transmitter
LED indicator	LED indicator

PCB Layout

English	Translation
Tamper switch	Tamper switch
A23 12V Battery	A23 12V Battery
Zone setting	Zone setting
LED working indicator	LED working indicator

LED indications

Blinks once: the door or window is open and the transmitter sends a signal to the control panel.

Blinks quickly: Low power indication: the batteries must be replaced. (You will be informed by SMS when the batteries are low if the door/window contact is registered in the control panel.)

Register in the control panel

Enter Connection Mode on the control panel. Push the button "#", and then push "1" on the control panel.

Then separate the magnet from the transmitter.

To check if the registration is complete, arm the system and separate the magnet from the transmitter again by opening the door or window on which it is installed. If the siren rings out, the registration is successful.

Installation

- Open the case and remove the battery activation strip.
- Mount the sensor on the door and the magnet on the door frame.
- Make sure the magnet is placed above the transmitter.
- Mount the magnet max. 1 cm away from the transmitter and secure the transmitter and magnet with double-sided tape or screws.
- Avoid mounting the sensor in areas with a large amount of metal or electrical wiring such as a furnace or utility room.

Specifications

Power supply
DC 12V (A23 12V Battery x 1)

Static current
≤ 30 uA

Alarm current
≤ 15 mA

Transmission distance
≤80 m (in open area)

Radio-frequency
433 MHz (±75 KHz)

Housing material
ABS plastic

Operating conditions
Temparature: -10°C~55°C
Relative humidity: ≤ 80% (non-condensing)

Transmitter dimensions (Lx W x H)
60 x 45 x 18 mm

Magnet dimensions (Lx W x H)

45 x 19 x 17,5 mm

3.2.4 RFID Tag

Features

The RFID tag enables you to disarm your system by swiping it in front of the RFID reader on the control panel.

Register the RFID tag in the alarm system

Enter Connection Mode on the control panel. Push the button "#", and then push "1" on the control panel.

Swipe the RFID tag in front of the RFID reader on the control panel.

Specifications

Dimensions

30 x 30 x 6 mm

3.2.5 Register an Additional Denver External Siren

The control panel of the HSA-120 features a built-in 90 dB siren.

Your Denver security systems supports additional indoor and/or outdoor sirens (NOT included) so to enable you to extend your system according to your needs.

To register an additional Denver siren, refer to the instructions provided in the manual that comes with your siren.

For more information on sirens and accessories compatible with Denver security systems, visit our website denver-electronics.com

3.2.6 Zone Setup of Accessories

Every detector can be assigned to 4 different categories of zones: Home Mode Zone, Delay

Zone, Normal Zone and 24hZone. To assign a detector to a zone, open its case and move its jumpers according to the drawing below:

A. Home Mode zone   B. Normal zone   C. 24h zone   D. Delay zone

Home Mode zone

When the system is armed in Home Mode, the sensors assigned to the Home zone do not trigger an alarm. *It is recommend to assign motion dectors to the Home zone so that you can have your system armed in Home Mode when you are home and move inside your home without triggering any alarm.*

Delay zone

An entry and an exit delay can be set. In such case, sensors assigned to the "Delay Zone" will not trigger an alarm during the time of delay set. For example, if you assign a motion detector to the Delay zone and you set the Entry/Exit Delay to 30 seconds, the motion detector will not trigger an alarm within 30 seconds after you enter your home and within 30 seconds before you leave it so that you can leave and enter your home without triggering an alarm. Refer to the instructions on page 15 or 25 of this manual to learn how to set the entry and exit delay. *It is recommended to assign the Door/Window Contact to the Delay zone.*

Normal zone

When the system is armed, if a sensor is triggered, the siren rings out. When the system is disarmed, sensors do not trigger an alarm.

24h zone

Regardless the system is armed or disarmed, sensors assigned to the 24h zone will trigger an alarm. *It is recommended to set smoke detectors, gas detectors and outdoor beam sensors in the 24h zone.*

Please note DENVER-ASA-40 wireless pet immune motion detector and DENVER-ASA-50 wireless motion detector are default to be Home Mode zone, other accessories are default to be Normal zone. User can move the jumpers by tweezers.

3.2.7 Clear Accessories

While in Setup mode, enter "* 22 * password *" (**DEFAULT PASSWORD:1234**) on the control panel to clear all the connected accessories.

4. ENTER SETUP MODE

1. Press key #, then press key 2 on the control panel to enter setup mode.

4.1 Ringing Time of the Siren

Example: Set the ringing time to be 5 minutes

Enter into Setup mode, type "*1*5*"

You hear "Operation succeeded": the setup is successful.

Note

The ringing time can be set from 1 to 9 minutes. Default setting: 5 minutes.

4.2 Exit Delay & Entry Delay

Example: Program exit delay to be 60 seconds

Enter into Setup mode, type "*2*60*"

You hear "Operation succeeded": the setup is successful.

Note

The delay time can be set from 0 to 300 seconds.

Default setting: no delay (0 seconds).

Example: Program entry delay to be 50 seconds.

Enter into Setup mode, type "*3*50*"

You hear "Operation succeeded": the setup is successful.

Once the function has been set, the panel will beep every second after having armed the system. The beeps will speed up in the last 15 seconds. If an intruder is detected, the alarm and the dialing will be delayed accordingly.

4.3 Change Password

Enter into Setup mode, type "*9*new password*".

You hear "Operation succeeded": the setup is successful.

Note

The password must consist of 4 digits (0 to 9).

Default password: 1234.

4.4 Store Phone Numbers

Example: store the 1st phone number as 12345678.

Enter into Setup mode, type #1#12345678#

You hear "Operation succeeded": the setup is successful.

Example 2: store the 2nd phone number as 23456789.

Enter into Setup mode, input #2#23456789#

You hear "Operation succeeded": the setup is successful.

Up to 10 phone numbers can be stored.

Note

The 1st to the 5th stored phone numbers are for calls from the alarm system.

The 6th to the 10th phone numbers are for SMS alert messages.

You hear "Operation succeeded": the setup is successful.

4.5 Delete Phone Numbers

Example: delete the 1st phone number.

Enter into Setup mode, type "#1##"

You hear "Operation succeeded": the setup is successful.

Example: delete the 2nd phone number.

Enter setup mode, type "#2##"

You hear "Operation succeeded": the setup is successful.

Note

Delete all existing phone numbers: "#*##"

4.6 Exit Setup Mode

Press the Disarm key on the control panel to exit the Setup mode until you hear 2 beeps and the setup LED indicator blacks out: the system has exited the Setup mode

4.7 Alarm Response When Being Out of Home

If the system detects an intrusion, the siren will ring out immediately, and the control panel will send alert SMS and dial the pre-stored phone numbers. The user can monitor the site from distance and control the system by phone when receiving the call from the alarm system.

Note

No need to type password to control the system from distance when receiving the call from the alarm system.

4.8 Control by Phone Call

Method 1

When an alarm has been triggered, the control panel dials the pre-stored phone numbers. When you take the call, you can control the panel from distance according to the instructions in the table below.

Method 2

1. Dial the telephone number of the SIM card in your control panel.
2. Enter your password followed by "#".
3. Select the operations to control the panel (see instructions in the table below).

Note

The call will end automatically if you do not send any command within 30 seconds.

*Default password is 1234.

Table of commands for control by phone call

Command	Function	Comment
Press "1"	Arms the system	-
Press "0"	- Disarms the system and turns the siren off - Stops monitoring without hanging up - Ends the phone call without hanging up	-
Press "*"	Audio monitoring	-
Press "3"	Phone call with control panel	-
Press "6"	Turns the siren off	-
Press "9"	Turns the siren on	-
Press "#"	Exits control by phone call	Hanging up also exits the control by phone call.

4.9 Siren Volume

1. Set high siren volume: enter into Setup mode, and type "*23*1*"

2. Mute the siren: enter into Setup mode, and type "*23*0*"

5. TELEPHONE CALL/EMERGENCY CALL

Phone Call Function

The control panel supports phone calls: Under disarmed status, type the telephone number

and press the key 📞 on the control panel. Press 📞 or 🔒 to end the call.

The middle white LED indicator blinks once every 2 seconds during the call. If a phone call is received on the control panel, the LED blinks once every second.

The middle white LED indicator blinks once every 2 seconds during the call. If a phone call is received on the control panel, the LED blinks once every second.

Speed Dial

This function is only available when the system is disarmed.

Press the Call button "📞" on the control
panel for 3 seconds: the panel autodials
the first stored phone number.

Press the Call button "📞" to end the call.

SOS Emergency Function
Regardless the status of the system, the alarm is triggered when the Panic button {SOS} is
pressed on the control panel for 3 seconds.
Disarm the system on the control panel.

If the alarm system rings out, the user must type the password and the disarm button {🔓} to

disarm the alarm system.
This operation must be completed in 15 seconds.

6. DENVER HSA-120 APP OPERATION

The app DENVER HSA-120 is available for download on Google Play and the App Store. To
find the app in the Google Play and the App Store, search "DENVER HSA-120".
You need to save at least one SMS number in the control panel before you can control the
alarm system via the app. (This is the phonenumber for the phone you want to use to control
the alarmsystem with)
In the app, click on "Arm" or "Disarm" to respectively arm or disarm the system.

7. CONTROL PANEL OPERATIONS

Description	Operation	Functions	Remarks
Enter Connection Mode	#1	The system enters into Connection Mode after 1 beep.	
Enter Setup Mode	#2	The system enters into Setup mode after 1 beep.	
Program Ringing Time of the Siren		[9] is the time the siren rings out (in minutes). It can be set from 1 to 9 minutes.	Default setting: 5 minutes
Exit Delay Time	*2*60*	[60] is the delay set up by the user (in seconds). It can be set from 0 to 300 seconds.	Default setting: no delay (0 seconds).
Entry Delay Time	*3*60*		

Change Password	*9 *new password*	The password can be any 4 digits code.	**Default password: 1234**
Program Phone Numbers	#[1~10]#phone number#	See 4.5 Store Phone Numbers in this manual	[1 ~5] for phone numbers. [6~10] for SMS numbers.
Delete Phone Numbers	#[1~10]##	Delete one of the phone numbers.	
Delete All Phone Numbers	#*##	Phone Numbers and SMS Numbers will be cleared from the system.	If no number is stored, the system will not auto dial when the alarm is triggered.
Clear Accessories	*22* password*	Clear every connected accessory.	
Siren setup	*23*0*	Deactivate the siren	
	*23*1*	Activate the siren	
Exit Setup Mode	Press the Disarm button	The control panel beeps twice: Setup mode has been exited.	

8. SMS OPERATIONS

INSERT A SIM CARD IN THE CONTROL PANEL

MAKE SURE THE SIM CARD DOES NOT REQUIRE ANY PIN CODE.

SAVE A PHONE NUMBER FOR SMS NOTIFICATIONS. (Refer to instructions on the opposite page, or use the free app)

Only stored numbers can control and configure the system.

Each SMS operation defined in this user manual will be illustrated as follows:

You send:

English	Translation
SMS Command	SMS Command

The control panel replies:

English	Translation
Control panel's reply	Control panel's reply

The first DARK GREY speech bubble is the SMS command sent by the user.

The first grey speech bubble is the reply sent by the control panel.

The speech bubbles that follow are the dialogue between the user and the control panel (SMS sent by the user are in DARK GREY, SMS sent by the control panel are in grey).

The system is in English by default. To change the system language, refer to page 27 of this manual.

Before starting the SMS operation, a telephone number must be saved using the control panel's keyboard, as described in 4.5 "Store Phone Numbers" in this manual.

Important

When replying to the control panel by SMS, make sure no space follows punctuation marks like "." or ":".

For examples, to store SMS numbers, your SMS must be formatted as follows:

English	Translation
SMS numbers:	SMS numbers:
No space after "1."	No space after "1."

8.1 Store Phone Numbers for SMS notifications
Send:

English	Translation
SMS numbers:	SMS numbers:

Copy, paste, then edit (case sensitive):

English	Translation
SMS numbers:	SMS numbers:
OK	OK

Note

The first SMS number will receive SMS notifications when the system is disarmed by RFID tag.

8.2 Disarm the System

Send:

0

System disarmed.

English	Translation
System disarmed.	System disarmed.

Arm the System

Send:

1

System armed.

English	Translation
System armed.	System armed.

Home Mode

Send:

2

System in home mode.

English	Translation
System in home mode.	System in home mode.

8.3 Settings Enquiry

Send:

> 00

> System:Disarmed
> AC power:on

English	Translation
System: Disarmed	System: Disarmed
AC power: on	AC power: on

Note

The values indicated hereinabove will change after having set up the system.

8.4 Store Phone Numbers

Send:

> Phone numbers:
> 1.
> 2.
> 3.
> 4.
> 5.

English	Translation
Phone numbers:	Phone numbers:

Copy, paste, then edit (case sensitive):

Phone numbers:
1.067890033
2.067890022
3.067890011
4.067890000
5.

Ok

English	Translation
Phone numbers:	Phone numbers:
OK	OK

8.5 Rename Zones
Send "91~99". For example for zone 1, send:

91

Zones names:
1.

English	Translation
Zones names:	Zones names:

Copy, paste, then edit (case sensitive):

Zones names:
1.Entrance door sensor

Ok

English	Translation
Zones names: 1. Entrance door sensor	Zones names: 1. Entrance door sensor
Ok	Ok

Note

Zones 1 to 9 can be renamed. The name of the zone cannot consist of more than 30 Latin characters. Zones 10 to 50 cannot be renamed.

8.6 SMS Alert for Accessory Low Battery

(available for two-way acessories such as Motion Detectors)

For accessories assigned to zones that have been renamed, an SMS will be sent under the format "Zone number + zone name + Low BAT".

Zone 10 Bedroom PIR Low BAT

English	Translation
Zone 10 Bedroom PIR Low BAT	Zone 10 Bedroom PIR Low BAT

For accessories assigned to zones that have not been renamed, an SMS will be sent under the format "Zone number + Low BAT".

Zone 10 Low BAT

English	Translation
Zone 10 Low BAT	Zone 10 Low BAT

SMS Alert for Accessory Tamper Alarm

(available for two-way acessories such as Motion Detectors)

For accessories assigned to zones that have been renamed, an SMS will be sent under the format "Zone number + zone name + Tamper".

Zone 10 Bedroom PIR Tamper

English	Translation
Zone 10 Bedroom PIR Tamper	Zone 10 Bedroom PIR Tamper

For accessories assigned to zones that have not been renamed, an SMS will be sent under the format "Zone number + Tamper".

Zone 10 Tamper

English	Translation
Zone 10 Tamper	Zone 10 Tamper

8.7 Rename RFID Tag
Send:

10

Rename RFID tags:
1.
2.
3.
4.

English	Translation
Rename RFID tags:	Rename RFID tags:

Copy, paste, then edit (case sensitive):

Rename RFID tags:
1.Tom
2.Nurse
3.Nancy
4.David

Ok

English	Translation
Rename RFID tags:	Rename RFID tags:
Ok	Ok

Note

The first SMS number will receive SMS notifications when the system is disarmed by RFID tag.

If the RFID tag that disarms the system has been renamed, the SMS notification will be "*Tag 01 Tag name* Disarm". ("01" is the number of the tag)

Other tags will be attributed a number based on the order of registration to the control panel; the SMS notifications will in such case be "*Tag-04* Disarm" ("04" is the number of the tag).

Refer to the instructions on page 13 to learn how to register an RFID tag in the control panel.

8.8 Entry and Exit Delay Time
Send:

11

Entry delay time(0-300sec):0
Exit delay time(0-300sec):0

English	Translation
Entry delay time(0-300sec):0 Exit delay time(0-300sec):0	Entry delay time(0-300sec):0 Exit delay time(0-300sec):0

Copy, paste, then edit (case sensitive):

Entry delay time(0-300sec):10
Exit delay time(0-300sec):20

Ok

English	Translation
Entry delay time(0-300sec):10 Exit delay time(0-300sec):20	Entry delay time(0-300sec):10 Exit delay time(0-300sec):20
OK	OK

Note

This function will only affect detectors assigned to the Delay zone. Refer to the instructions on page 14 of this manual to learn how to set up your sensor to the Delay zone.

This function can be used if you do not want to bring a remote control or a RFID tag with you.

When you arm the system, the system will be armed after the delay set. When you disarm the system, the system will be disarmed after the delay set.

When arming the system, you hear one beep every second to remind you to leave.

The beep rhythm speeds up during the last 10 seconds. If an intruder is detected, the alarm will be delayed accordingly.

8.9 Siren Volume and Ringing Time

Send:

12

Siren volume(0=Mute,1=High):1
Siren ringing time(1-9min):3

English	Translation
Siren volume(0=Mute,1=High):1 Siren ringing time(1-9min):3	Siren volume(0=Mute,1=High):1 Siren ringing time(1-9min):3

Copy, paste, then edit (case sensitive):

Siren volume(0=Mute,1=High):0
Siren ringing time(1-9min):1

Ok

English	Translation
Siren volume(0=Mute,1=High):0 Siren ringing time(1-9min):1	Siren volume(0=Mute,1=High):0 Siren ringing time(1-9min):1
Ok	Ok

8.10 Change the Password

Send:

13

Disarm password (4 digits):
1234

English	Translation
Disarm password (4 digits): 1234	Disarm password (4 digits): 1234

Copy, paste, then edit (case sensitive):

Disarm password (4 digits):
8888

Ok

English	Translation
Disarm password (4 digits): 8888	Disarm password (4 digits): 8888
OK	OK

DEFAULT PASSWORD: 1234

8.11 Change System Language
Send the code corresponding to the language you want to set. For example, for English, send "0001".

0001

Ok

Refer to the table below for the full list of language codes:

0001 English	0008 German
0002 French	0009 Spanish

0004 Danish   0010 Finnish

0005 Dutch   0011 Norwegian

0006 Italian   0014 Portuguese

0007 Swedish   0015 Polish

Languages available may vary depending on the version of your product.

8.12 Restore System to Factory Settings by SMS
Send:

The settings will be restored to default values. Stored phone numbers and connected accessories will also be deleted.

Note
Only stored numbers can send the SMS to restore factory settings.

Hard Reset
Turn the control panel on (if the control panel is already on, turn it off and turn it on again). Press the tamper switch at the back of the control panel 5 times within 5 seconds after having turned it on. You have to take off the plastic plate that pushes the tamper switch in order to do so.
Settings will be restored to default values.
Stored phone numbers and connected accessories will be cleared.

9. FAQ

Issue	Cause of malfunction	Solution
No response following interaction with the control panel	The control panel is switched off	Open the battery compartment and turn the power on
	Electricity grid failure	Contact your electricity provider
	Backup batteries are empty	Plug the AC adapter to an AC socket
Accessories cannot connect to the control panel	The control panel is not in Connection mode	Make sure the control panel is in Connection mode
	Accessories have not been triggered for connection	Make sure the accessory is triggered so to send a signal to the control panel
	When attempting the	The accessory has already been

	connection, the control panel beeps twice	connected Make sure you do not trigger any other accessory when connecting one accessory to the control panel (e.g. do not stay in the detection scope of a motion detector if it is not the one you want to connect)
No response from the control panel following commands from the remote control	The remote control has not been connected to the control panel	Follow the instructions on point 3.2.1 of this manual to connect the remote control to the panel
	Remote control is too far from the control panel	Transmission distance of the remote control: 80 m (in open area)
remote control		A signal repeater can be installed to increase the transmission distance
RFID tag fails to disarm the system	RFID tag has not been connected to the control panel	Follow the instructions on point 3.2.4 of this manual to connect the RFID tag to the control panel

If you are experiencing issues that are not described in the FAQ above, visit denver-electronics.com to download the latest update of this user manual and for additional support.

10. STANDARDS

DENVER®

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CE

Electric and electronic equipment and included batteries contains materials, components and substances that can be hazardous to your health and the environment, if the waste material (discarded electric and electronic equipment and batteries) is not handled correctly.

Electric and electronic equipment and batteries is marked with the crossed out trash can symbol, seen below. This symbol signifies that electric and electronic equipment and batteries should not be disposed of with other household waste, but should be disposed of separately.

As the end user it is important that you submit your used batteries to the approriate and designated facility. In this manner you make sure that the batteries are recycled in accordance with legislature and will not harm the environment.

All cities have established collection points, where electric and electronic equipment and batteries can either be submitted free of charge at recycling stations and other collection sites, or be collected from the households. Additional information is available at the technical department of your city.