

Thank you for purchasing the GSM alarm system EVOLVEO Alarmex.

Please, read this user manual carefully and follow strictly the set instructions.

This product uses the most modern technology, yet you cannot rely only on it at protecting your property. So, please pay attention to the bellow mentioned points. The producer, importer and sellers are not responsible for any damage on the property, direct or indirect, that could have occurred in connection with using this product and it is not possible to claim any compensation for potential damage from them.

- the product is suitable as an **additional your property securing** (house, flat, cottage, garage, garden house, caravan and so on)
- it is always recommended to use another alarm system and/or to have the particular property insured
- this product is not a professional alarm system and it cannot be considered to be an unreserved instrument for property securing
- for the proper function of the product, check it and test it at least once a quarter (batteries status, sensor and remote controls functionality, messages sending functionality, main unit functionality and others)
- do not forget the individual components of alarm system to properly deploy; installation and connection should be performed by an expert engineer.

Application for smartphone running Android OS

Download from Google Play (<https://play.google.com>) application "EVOLVEO Alarmex" for easy operation of GSM alarm system. This application serves only as addition intended for maximum user experience, main control is the remote control, which is included in package.

Table of contents

1. Introduction
2. Main unit setup and peripherals (sensors) installation
3. Zones
4. Main unit setup
5. SMS instruction (codes for the main unit) table
6. GSM alarm system maintenance
7. Troubleshooting

1. Introduction

Package content

- 1 pcs - GSM main unit (central unit)
- 1 pcs - wireless PIR detector with a tamper protection and a built-in antenna
- 1 pcs - wireless door gap detector with a tamper protection and a built-in antenna
- 4 pcs - metal key control (remote control)
- 1 pcs - internal 110 dB mini siren
- 1 pcs - central unit power supply (230 V/12 V, 1 A)
- 1 pcs - detailed user manual

It is necessary to match all peripherals with the EVOLVEO Alarmex main unit before the first use. For safety reasons, they are not factory paired.

The main component of the alarm is the main unit. **The default main unit password is 123456**
Please, change this password for safety reasons, see Section 4.e - Password change.

Put the GSM main unit to the safe place so to prevent the possibility of its damage when security violation. **DO NOT PUT** it into a metal cupboard, the radio and GSM signal would not get through metal. Do not place the alarm near devices that can emit strong electromagnetic interference (e.g. motors, computers, etc.). Connect all cables properly and do not cover the main unit because of easy heat dissipation. EVOLVEO Alarmex is designed for indoor use only.

The main unit is powered by an internal battery that is charged continuously by a power adapter. When power failure or disconnection of 230V adapter, the main unit send an owner an informative message about the failure and afterwards inform him about the power return. The main unit has a visual signalling (see Signal LEDs description) and also an acoustic control which can be disabled in the settings. Alarm can also work without a SIM card. It will not inform you with calling or an SMS about violation, it will only start the siren.

The main unit is controlled with key controls or SMS messages. The main unit is programmed using SMS messages sent by a mobile phone. You can connect to the main unit also wire sensors with the "disconnected" function. There

are also two relays for switching appliances up to 1A. The built-in loudspeaker allows you to use the intercom. The main unit monitors also the GSM signal strength and when its quality is reduced, the main unit informs you via SMS. When the signal is completely lost, the main unit raises a siren alarm.

2. Main unit setup and peripherals (sensors) installation

The basic package includes the main unit, PIR sensor, opening sensor, mini keyboard and 4x key controls that can be used for basic building security. This will provide the **zone**. For extending an alarm by other zones, see Chapter 4. Zones

Alarm settings - basic building security

Before inserting the SIM card into the main unit, use it first in the mobile phone and make following steps:

- delete the PIN code
 - delete all saved phone number from the SIM card, if there are any
 - Ensure a sufficient credit for calling and sending SMS. With a low credit, the operator sends you an inform message about your credit recharge and the alarm SMS or the call will be delayed.
1. Open the cover in the middle of the rear panel. There is an SMS card slot on the right side. Pull to the right and up to open it and insert the SIM card.
 2. Connect the provided 230V power adapter and connect it to the grid.
 3. Turn the main power switch on (see Description)
 4. The main unit notifies you about signal detection by an audible signal.
 5. The Power indicator (red) and the Status indicator (green) light up.

Sensors and main unit pairing

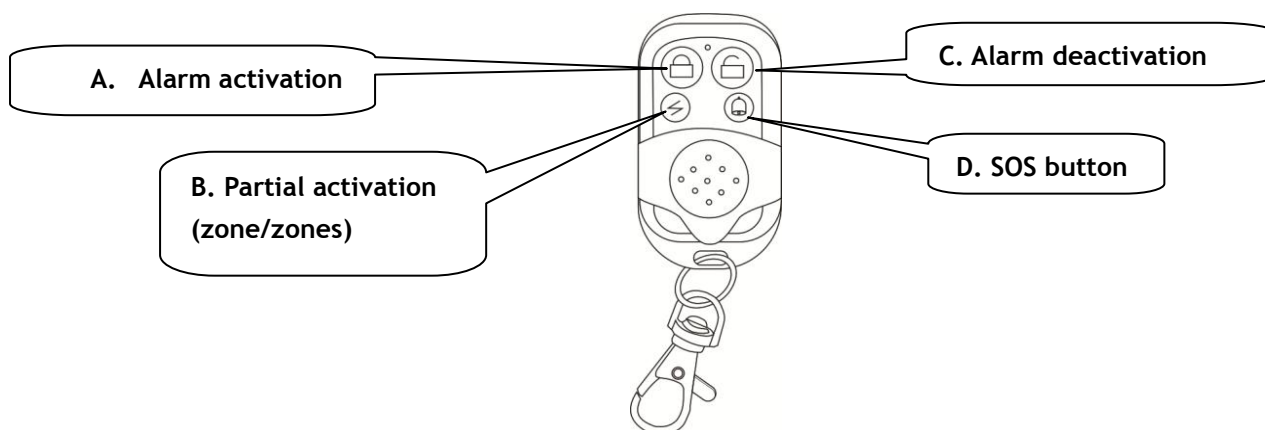
Press the K1 switch at the back of the main unit body

- the first press of the K1 button lights up the RF indicator and the main unit is ready for pairing key controls and the mini keyboard
- the second press (you will hear a long beep) pairs sensors for the zone no. 1
- the third press pairs sensors for the zone no. 2
- the fourth press pairs sensors for the zone no. 3
- the fifth press exits the pairing mode

Key control and main unit pairing

Press any of the four buttons on the key control. After a successful pairing you will hear one beep from the main unit. If the key control is already paired and you are trying to pair it again, the main unit warns you with four beeps (that it is already paired).

- one beep - pairing confirmation
- four beeps - already paired



The key control has four buttons:

Alarm activation: activates the alarm for the situation when nobody is at home. All the sensors are active and the green warning light will slowly flash on the alarm main unit.

Partial activation (zone/zones): activates the alarm for the situation when somebody is at home and so the inner sensors are deactivated and only the outside sensors stay active. People inside can comfortably move without activating the alarm, but whoever would try to break into the house from the outside he/she will activate the alarm.

Alarm deactivation: deactivates all sensors and also the main unit, on which the green warning light will flash continuously

SOS button: this activates the immediate emergency alarm, e.g. in case of hold-up in situation when the alarm is

turned off in the deactivated mode. The green warning light will flash on the alarm main unit and the system will trigger the alarm, send the SMS and dial the preset numbers.

PIR sensor and main unit pairing

Move your hand above the PIR sensor, the PIR sensor indicator will turn blue and the sensor will pair with the main unit. The blue indicator presents the movement in the room, the red light means the low battery which must be replaced (2x, type: CR123A). After a successful pairing you will hear one beep from the main unit. Now, put the PIR sensor aside in order not to activate it by our movement.

PIR sensor uses the infrared technology for movement detection. Please, ensure that no small animals (dogs, cats, birds, etc.) move in the protected area. Do not place the sensor on the direct sunlight or near the heat sources (heating appliances, cookers, heaters, storage heaters). Place it into the guarded room under the ceiling ca 2 metres high in order to prevent unwanted manipulation. The PIR sensor range is 5-12 metres, the range width is 110° horizontally and 60° vertically.

Opening sensor and main unit pairing

Separate two parts of the sensor. The indicator on the magnet turns red and the sensor will pair with the main unit. You will hear one beep from the main unit loudspeaker. Assembly: Attach that the main sensor part with the diode indicator to the stationary part of the door/window and the second smaller part attach to the moving part of the door/window. The sensor is powered by two batteries of the type: CR2032.

Having other additional EVOLVEO sensors, pair all of them according to the instruction above, or follow the instructions in the user manual from the sensor package.

3. Zones

Alarm settings - extended building security

First, draw up how and what areas do you want to guard. EVOLVEO Alarmex is able to secure up to three zones of protection, such as garage, cellar, etc. Each zone can include up to 32 sensors.

To secure the second and the third zone, it is necessary to pair the main unit with other EVOLVEO sensors that are not included. To purchase additional sensors, please contact your dealer where you have purchased your EVOLVEO Alarmex. Find the list of all available sensors for alarm extension also at www.evolveo.eu.

Example of extended building security by adding the second and the third zone

Zone 1: residential area where you live - a house, a flat (the primary zone is always created)

+

Zone 2: garage, is secured, the residential area is not secured, the PIR sensor will be used

Zone 3: cellar, is secured, the residential area is not secured, the opening sensor will be used

1. First zone creating

Chapter 2, Alarm settings - basic building security

2. Second zone crating (garage)

- a. press the K1 button, three times
- b. pair the PIR sensor, see chapter 2
- c. press the K1 button, two times
- d. Send an SMS to the main unit SIM card in the format 123456#38#02#2#1# (main unit password#main unit#zone number#type of guarding#

3. Third zone creating (cellar)

- c. press the K1 button, four times
- b. pair the opening sensor, see chapter 2
- c. press the K1 button, once
- d. Send an SMS to the main unit SIM card in the format 123456#38#03#1#1# (main unit password#main unit#zone number#type of guarding#

The code (instructions) for the main unit to set the zone is #38#

The whole command for the zone setting is 123456#38#AA#B#C#.

AA zone numbers (01-03)

B type of zone guarding

1 immediate (guards for 24 hours)

2 common (when alarm activated, all zones are monitored), when coding only one zone (the B button on the key control), only this zone is protected

3. delayed (exit/entry delay setting, see 44/45)

C zone activation

0 all set sensors deactivation

1 all set sensors activation

The Zone 1 is a residential area - we do not have to set an SMS. It will be always activated when encoding.

Set your garage as the Zone 2 with a continuous monitoring. Send an SMS in the format 123456#38#02#1#1#

The Zone 3 will be set for a cellar where you can set monitoring as needed (e.g. we stay in the Zone 1 in the evening and we can activate alarm in the Zone 3) 123456#38#03#2#1#

Activate the Zone 3 alarm by pressing the B button on the key control. Activate the whole alarm by pressing the A button on the key control.

You can name each zone as you want. The command for the main unit for the zone naming is #39#, change the name by sending an SMS to the main unit SIM card in the format 123456#39#AA#text max.16 characters#

AA The number of zone to be named (01-03) and the text which cannot be longer than 16 characters.

4. Main unit setup

You give the instructions to the main unit via SMS from your mobile phone. It is always necessary to send an SMS in the format as stated in the instruction (code) table, see Code Table, chapter 5. The main unit setting change is confirmed by sending an "Info" SMS.

How to set telephone numbers for SMS sending for the case of the object violation

The main unit is able to send SMS messages to up to five set telephone number. To enter the phone number to which the alarm SMS will be send follow these instruction:

Send an SMS to the main unit SIM card in the format 123456#61#your number#. For other numbers, there are codes 62, 63, 64, 65. Send an SMS in the following format so as the alarm will send an alarm SMS to the preset phone numbers.

123456#61#the first telephone number# (main unit password#main unit#telephone number#)

123456#62#the second telephone number#

123456#63#the third telephone number#

123456#64#the fourth telephone number#

123456#65#the fifth telephone number#

After each setting, the main unit will send you an inform SMS about the set number, i.e. when entering three numbers you will receive three "Info" messages (SMS phone number 1: the phone number). If you want to delete some of the already entered numbers or overwrite it, send an SMS with the code for the particular position with an empty field for the number.

Example:

You want to delete the third telephone number, send an SMS in the format 123456#63##

If you only want to change already entered third number, just send the SMS in the format 123456#63#the third telephone number# once more.

How to set telephone numbers for voice calling for the case of the object violation

The main unit is able to dial up to five set telephone number. It dials entered numbers in turn when the previous call is not answered. To enter the phone numbers which will be called follow these instructions:

Send an SMS to the main unit SIM card in the format 123456#51#your number#. For other numbers, there are codes 52, 53, 54, 55. Send an SMS in the following format so as the alarm will call the preset phone numbers.

123456#51#the first telephone number# (main unit password#main unit#telephone number#)

123456#52#the second telephone number#

123456#53#the third telephone number#

123456#54#the fourth telephone number#

123456#55#the fifth telephone number#

After each setting, the main unit will send you an inform SMS about the change, i.e. when entering three numbers you will receive three "Info" messages (Call phone number 1: the phone number).

If you want to delete some of the already entered numbers or overwrite it, send an SMS with the code for the particular position with an empty field for the number.

Example:

You want to delete the third telephone number, send an SMS in the format 123456#53##

If you only want to change already entered third number, just send the SMS in the format 123456#53#the third telephone number# once more.

After entering phone numbers to the main unit, you can check your set parameters functionality. Activate an alarm with your key control and then raise the alarm. Wait for 30 seconds and deactivate an alarm with your key control again. Check that there were sent SMS messages to the set phone numbers and that they were also called.

Other main unit settings

a. Sending SMS and calling activation/deactivation

Code	12#0#	disable SMS
Code	12#1#	enable SMS
Code	15#0#	disable calling
Code	15#1#	enable calling

Example: When you want to disable SMS upon alarm - send SMS to the main unit SIM card in the format 123456#12#0#

b. GSM signal strength and loss monitoring

After alarm setting and its safe positioning, you can check the GSM signal. Send an SMS in the format 123456#32## The main unit sends back an "Info" SMS about the GSM signal status with the number "0"- "31".

- If the signal strength is greater than "11", the GSM signal is sufficient for the proper main unit functionality.
- When the signal strength falls below "20" the main unit sand an SMS "Bad GSM signal"
- When the GSM signal is lost the system will raise an alarm

Settings

Send an SMS to the main unit SIM card in the format 123456#17#1# (permanent GSM signal strength monitoring enabled)

Send an SMS to the main unit SIM card in the format 123456#17#0# (permanent GSM signal strength monitoring disabled)

It is recommended to enable this control for better security. In the default setting, this control is disabled.

c. Intercom (listening-in)

When calling the main unit phone number, this call will be answered automatically and you can listen-in the monitored area with an integrated microphone in the main unit. During this call, enter on your mobile phone keypad the code #93#1# and you can speak to the guarded area using the integrated speaker in the main unit. Enter the #93#1# code slowly so that the main unit can recognize entered numbers - tone dialling.

d. Voice recording

You can record 10-second voice memo to the main unit. This will be send upon alarm to set phone numbers. Press the K2 switch in the back of the main unit. The REC indicator on the front panel switches on and you can record a 10-second message. After 10 seconds, the recording turns off and the memo is saved in the memory.

e. Password change

The default password is 123456. For security reasons, change the main unit password b sending an SMS to the main unit SIM card in the format 123456#31#new alarm password#.

f. Main unit settings change via SMS (remote access)

An SMS must contain the password - command (code) - and a code number.

Example: To decode an alarm, send an SMS in the format 123456#1#0# to the main unit SIM card or you can switch the P2 relay on by sending an SMS in the format 123456#94#1#

g. Relay usage in the main unit

The P2 (OUT2) relay can be used to control appliances 1 A/220 V. The relay closes after entering the code 94#1#. To open, send the code 94#0#. The P1 (OUT1) relay closes automatically in case of alarm, which can be used for example to turn on the lights in the house in case of alarm. The switched current must not be higher than 1A/220V. Connecting an appliance with a higher input (e.g. a heater) must be solved by using an external contractor or a power relay.

Example: P2 relay switching, send an SMS to the main unit SIM card in the format 123456#94#1#

h. Wire sensors connection

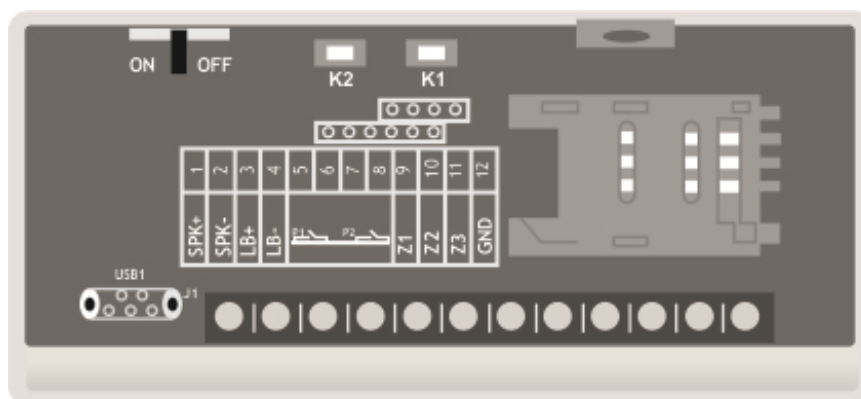
You can connect also wire sensors to the main unit. Connect them to the terminal (Z1-Z3). Send an SMS to the main unit SIM card in the format 123456#95#1# (see the Code Table).

There are three connectors for wire sensors connection. Inputs are independent and they are not coded like different

zones. When sensors are activated, the alarm sends an SMS: **Wired Activated (1-3) (wire sensor activated (sensor number))**.

Sensors can be of the NO type (opened in normal state) or of the NC type (normally closed). The default setting is NC. More sensors can be connected to the one input if their contacts are connected in parallel.

There can be connected any number of wire sensors to the alarm inputs, but their total resistance can not exceed 220 ohms. For the code for the change see the Code table (code 95-97)



- | | | | |
|----------|--------------------------|-------------|-------------------|
| 1 (SPK+) | Siren (+) | 9 (Z1) | Wire zone 1 |
| 2 (SPK-) | Siren (-) | 10 (Z2) | Wire zone 2 |
| 3 (LB+) | External loudspeaker (+) | 11 (Z3) | Wire zone 3 |
| 4 (LB-) | External loudspeaker (-) | 12 (GND) | Grounding |
| 5 P1 | Relay contacts 1 | 13 (ON/OFF) | Main switch |
| 6 P1 | Relay contacts 1 | 14 K2 | K2 switch |
| 7 P2 | Relay contacts 2 | 15 K1 | K1 switch |
| 8 P2 | Relay contacts 2 | 16 (SIM) | Slot for SIM card |

5. SMS instruction (codes for the main unit) table and SMS answers

Reset of the GSM alarm main unit

Turn off alarm >> press simultaneously switch K1 and K2 >> switch the Main switch to the ON position and wait 5 seconds for the beep which confirms successful resetting of the GSM alarm.

Command	Function	Default value	SMS answer of the main unit ("Info" SMS message)
1#1#	System activated		System armed
1#2#	Partial activation (zone/zones)		Home armed
1#0#	System deactivated		System disarmed
4#1#	Allow telephone listen-in	Disabled	
4#0#	Disable telephone listen-in		
11#1#	Siren when alarming enabled	Enabled	Siren when alarming enabled
11#0#	Siren when alarming disabled		Siren when alarming disabled
12#1#	Alarm SMS enabled	Enabled	Alarm SMS Enabled
12#0#	Alarm SMS disabled		Alarm SMS Disabled
15#1#	Alarm phone call enabled	Enabled	Alarm Phone Call Enabled
15#0#	Alarm phone call disabled		Alarm Phone Call Disabled
17#1#	GSM signal strength monitor enabled		GSM Signal Monitor Enabled
17#0#	GSM signal strength monitor disabled		GSM Signal Monitor Disabled
30##	Main unit state monitor (system activated /partial		System armed
			Home armed

	enabled		
46#0#	Voice Guide for alarm activation/deactivation disabled		Arm/Disarm Voice Guide Prompt: OFF
47#1#	Voice guide enabled	Enabled	Voice guide: ON
47#0#	Voice guide disabled		Voice guide: OFF
48#1#	Enable Voice of Buzz	Enabled	Voice of Buzz: ON
48#0#	Disable Voice of Buzz		Voice of Buzz: OFF
50##	Check the set phone numbers for calling upon alarm		Take reference of: Remote SMS inquiry
51#xxxxx#	First phone number for alarm call setting		Call phone number 1: xxxxx
52#xxxxx#	Second phone number for alarm call setting		Call phone number 2: xxxxx
53#xxxxx#	Third phone number for alarm call setting		Call phone number 3: xxxxx
54#xxxxx#	Fourth phone number for alarm call setting		Call phone number 4: xxxxx
55#xxxxx#	Fifth phone number for alarm call setting		Call phone number 5: xxxxx
51##	Delete the first phone number for alarm call		Call phone number 1 deleted
52##	Delete the second phone number for alarm call		Call phone number 2 deleted
53##	Delete the third phone number for alarm call		Call phone number 3 deleted
54##	Delete the fourth phone number for alarm call		Call phone number 4 deleted
55##	Delete the fifth phone number for alarm call		Call phone number 5 deleted
60##	Check the set phone numbers for sending alarm SMS		Take reference of: Remote SMS inquiry
61#xxxxx#	First phone number for sending alarm SMS setting		SMS phone number 1: xxxxx
62#xxxxx#	Second phone number for sending alarm SMS setting		SMS phone number 2: xxxxx
63#xxxxx#	Third phone number for sending alarm SMS setting		SMS phone number 3: xxxxx
64#xxxxx#	Fourth phone number for sending alarm SMS setting		SMS phone number 4: xxxxx
65#xxxxx#	Fifth phone number for sending alarm SMS setting		SMS phone number 5: xxxxx
61##	Delete the first phone number for sending alarm SMS		SMS phone number 1 deleted
62##	Delete the second phone number for sending alarm SMS		SMS phone number 2 deleted

63##	Delete the third phone number for sending alarm SMS		SMS phone number 3 deleted
64##	Delete the fourth phone number for sending alarm SMS		SMS phone number 4 deleted
65##	Delete the fifth phone number for sending alarm SMS		SMS phone number 5 deleted
92#1#	Enable the siren sound during the main unit activation/deactivation		Enable the siren sound when use remote controller to Arm/Disarm
92#0#	Disable the siren sound during the main unit activation/deactivation	Disabled	Disable the siren sound when use remote controller to Arm/Disarm
93#1#	Enable an intercom	Disabled	
94#1#	P2 Relay connected		Relay P2: ON
94#0#	P2 Relay disconnected		Relay P2: OFF
95#1#	Z1 97 wire zone set to: NO		Z1 97 defense zone set to: NO
95#0#	Z1 97 wire zone set to: NC		Z1 97 defense zone set to: NC
96#1#	Z2 98 wire zone set to: NO		Z2 98 defense zone set to: NO
96#0#	Z2 98 wire zone set to: NC		Z2 98 defense zone set to: NC
97#1#	Z3 99 wire zone set to: NO		Z3 99 defense zone set to: NO
97#0#	Z3 99 wire zone set to: NC		Z3 99 defense zone set to: NC
98#1#	Enable the main unit tamper protection	Disabled	Alarm panel tamper switch enabled
98#0#	Disable the main unit tamper protection		Alarm panel tamper switch disabled
99##	Delete the guarded area name		Common SMS content deleted
99#xxxxxx#	Guarded area naming		Common SMS content set to: xxxxxx

Alarm type	SMS content
Tamper alarm (the main unit violation)	Tamper alarm
SOS alarm triggered with the key control	Remote X SOS alarm! (X is the key control serial number)
Wireless and wire sensors	X zone alarm! (X is the zone number)
Low battery in the sensor	X zone low power! (X is the zone number where the sensor is located)
Sensor tamper alarm	X zone tamper alarm! (X is the zone number where the sensor is located)

LED indicators on the main unit front panel description



LED indicator	Status	Main unit status
POWER	Not lit	OFF
	Lit red	ON
	Flashes red	Powered by the built-in battery
STATUS	Flashes slowly in orange	Searching GSM signal or SMS card
	Lit orange	There is no GSM signal or SMS card
	Lit green	The main unit is ready

	Flashes green in the second interval	The main control is activated
	Flashes faster in green, two flashes per second	The main control is activated (zones)
	Lit red	Alarm
	Flashes red, once per second	Alarm delay
	Flashes red quickly	Active GSM module
MON/SPK (Tapping and intercom)	Not lit	Not in use
	Lit	Tapping and microphone activated
REC	Lit	10 second voice message recording
	Flashes quickly	Saved to memory
RF	Not lit	Not in use / pairing completed
	Lit	Sensors pairing
ZONE	Not lit	Not in use
	Lit	Pairing for the zone (1-3)
OUT2	Not lit	Not in use
	lit red	Relay 2 closed
OUT1	Not lit	The main unit is inactive and the relay 1 is opened
	Lit red	The main unit is active and the relay 1 is closed
Inner speaker	Status	Main unit status (can be switched on / off via SMS)
Short beep		Pairing successful
		Main unit activation
Longer beep		SMS receipt confirmation
Short double beep		Main unit deactivation
Four short beeps		Pairing error/re-pairing of the same sensor
	English voice response from the main unit	Main unit status can be switched on / off via SMS)
	System armed	System activated
	System disarmed	System deactivated
	Coding completed	Pairing successful
	Please enter password	Enter the password
	Wrong password	Enter the password again, wrong password
	Delete completed	Deleting completed
	Setting completed	Setting completed
	Please enter instruction	Please enter instruction

GSM Alarm technical specification

A. Main unit with a tamper protection

Power supply: AC = 100V-250 V, DC = 12 V, 1.2 A

GSM: 850/900/1800/1900 MHz

Frequency: 433 MHz \pm 0.5 MHz

Operating temperature: +10°C ~ +40°C

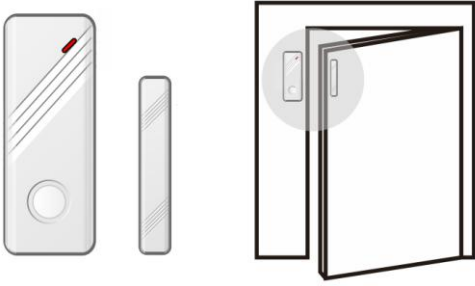
Built-in battery: 7.4 V, 1000 mA battery

Input: 65 mA

Receiving code: ASK

Humidity: \leq 90%

B. Wireless sensor of opening with a tamper protection and an integrated antenna



Installation

It is designed for indoor use, for mounting on the door jamb or window frame, see the picture. The sensor consists of two parts. The alarm is triggered when they are further than 2 cm from each other. When movement monitoring, the blue LED is lit. When the battery capacity is below 4.4V, the red LED switches on and the batteries must be replaced.

The main unit pairing

Open the back cover and remove a protective foil on the battery contacts and pair the sensor (see chapter 2). The button on the sensor does not have any function assigned. The sensor is protected by a tamper protection.

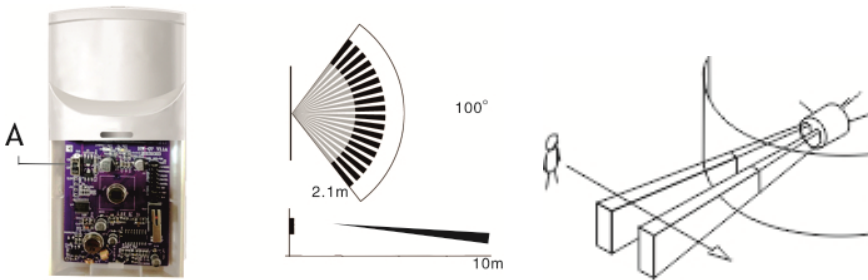
Power supply: DC6V (2x CR2032)

Transmission frequency: $433 \pm 0,5$ MHz

Operating temperature: $+10^{\circ}\text{C} \sim +40^{\circ}\text{C}$

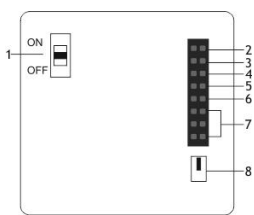
Humidity $\leq 90\%$ rh

C. Wireless motion sensor with a tamper protection and an integrated antenna



Installation

Remove the front cover and turn the "A" power sensor switch to "ON". Then attach the sensor holder to the wall and insert the PIR sensor. A recommended ideal detector high is approximately 1.8 ~ 2.5 m while it should be tilted with the sensor to the ground at an angle of $6^{\circ} \sim 12^{\circ}$ (from the vertical wall). Check the detecting radius and adjust the sensor according to your needs.



1. Switch on / Switch off (On/Off)
2. The highest sensitivity
3. Medium sensitivity
4. Low Sensitivity
5. Sensor selectivity, 3.3m
6. Sensor selectivity, 1.5m
7. Sensor delay setting (8 s / 50 s / 15 min.)
8. Tamper protection

To avoid false alarms and to ensure the standard sensor functionality, place it far enough away from windows, air conditioning, fans, refrigerators, stove, etc. These devices and windows can cause rapid temperature changes and interfere with the sensor activity. Do not point the sensors to the sources of; expose them to drafts, install them outside the enclosure; attach them to a solid wall with flat surface; protect them from the direct sunlight. If the sensor must be turned to the window, pull the curtains before alarm activation or roll down the shutter to insure reliable PIR sensor operation. The active area of the sensor can not be covered by any objects, such as indoor plants or furniture. The sensor is most sensitive to the cross movement, so the direction of the sensor rotation should be at a particular angle to the protected area (corridor), as shown in picture 2.

Low battery detection and indication

When movement monitoring, the blue LED is lit. When the battery capacity is below 4.3V, the red LED flashes and the batteries must be replaced.

Technical specification

Power supply: DC 6 V (2 pc, 3V CR123A battery)

Frequency: 433 MHz

Operating temperature: +10°C ~ +40°C

Humidity ≤ 90% rh

D. Key control (remote control)

Power supply: DC12V (inner 12V battery)

Transmission frequency: 433 ± 0,5 MHz

6. GSM alarm system maintenance

Check the main unit every three months whether:

- Activation/deactivation is finished successfully
- Calls phone numbers/sends alarm SMS messages without problems
- Receives signal from peripherals without problems
- The standby battery in the control panel works without problems

Check wireless sensors once a month whether:

- The alarm is triggered without problems
- Sensor batteries have a sufficient capacity
- Wireless sensors send a signal to the main unit

Check the SIM card once a month whether:

- The GSM signal is sufficient at the main unit location
- The card has a sufficient credit for calling and SMS

7. Troubleshooting

Signs	Reasons	Solving
Alarm cannot be activated by the phone	<ol style="list-style-type: none">1. The alarm is not connected2. The alarm is connected for less than 30 seconds3. The wrong telephone number is set4. Opening sensor counterparts were installed too far from each other5. The PIR sensor is not activated6. The code was not checked	<ol style="list-style-type: none">1. Turn on the alarm2. Activate it 30 seconds after turning on3. Set the number again exactly according to the instructions4. Adjust placing of sensor counterparts5. Activate PIR6. Check the code
Alarm does not send SMS messages	<ol style="list-style-type: none">1. Faulty SIM card2. SIM card is protected by a PIN code3. Insufficient credit on the SIM card	<ol style="list-style-type: none">1. Replace the SIM card2. Delete the PIN code3. Increase the credit on the SIM card
It is necessary to use the remote control from near and the indicator gives a dim light	<ol style="list-style-type: none">1. The battery in the remote control is rusted2. The battery is low	<ol style="list-style-type: none">1. Remove the rust2. Change the battery
The door sensor and PIR indicators shine permanently.	The battery is low	Change the battery
Dialling is slow	The main unit has saved another numbers	Set the numbers again exactly according to the instructions
The main unit does not receive signals from the sensors	The code was not checked	Check the code

The warranty DOESN'T APPLY to:

- using the device for other purposes than it was designed to
- electrical and mechanical damage caused by improper use
- damage caused by natural effects like fire, water, static electricity, overvoltage, etc.
- damage caused by an unauthorized repair

- damage of the guarantee seal or unreadable serial number of the device



Disposal

The symbol of crossed out bin on the product, within the literature or on the packaging reminds you that in the European Union, all electric and electronic products, batteries and accumulators must be stored as assorted waste after the end of their service life. Do not throw these products into the unsorted municipal waste.

ⓘ CE DECLARATION OF CONFORMITY

The ABACUS Electric spol. s r.o. company hereby declares that the model EVOLVEO Alarmex (EAN: 8594161335702) is in compliance with the requirements of the standards and regulations relevant for the given type of device.

Find the complete text of Declaration of conformity at <ftp://ftp.evolveo.eu/ce>

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