Advantages & Features

◇ 2G/3G mobile frequency enable K9 works great in worldwide.

◇ 99 zones for security intrusion alarm, elderly care, SOS help, 7*24 hours safety, door bell, on site alarm applications.

◇ 10 different zone types and zone name editable.

◇ Multiple status optional: Stay, Away, Bypass, Schedule Arm/Disarm.

◇ User friendly menu with more than 12 languages selectable.

◇ Visible information on big LCD screen, easy setting and operation by touch keypad.

◇ Two way voice communications, regular phone call as hand set supported.

◇ 2 wireless switch channel for remote control & door access (*works with WS1,WS2).

◇ Just simply dial in to the K9, change the status to Arm / Stay / Disarm by missed call, or create two way talk automatically.

◇ Monitoring zone for take care of elderly daily life activities.

◇ Temperature monitoring alarm.

◇ Wireless sensors battery low power alarm SMS.

◇ Backup rechargeable battery inside, AC power lost alert available.

◇ Audible alarm inside, support wireless siren too.

◇ Ademco Contact ID protocol over GPRS/UMTS/HSDPA data supported.

◇ Fashion design of sleek panel with a classic elegant piano finish.

◇ Easy DIY--Smart phone APP for remote configuration & operation.

◇ Up to 999 alarm event logs and 99 operation logs for review.

GSM/3G Wireless Security Alarm System

K9

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How the system works for your family?

Security Protection

Press to arm the system when leaving home.

Press to arm the system when at home.

7* 24 hours Home Safety Guard

When smoke, gas, CO or water flood detected, system makes audible alarm, send alert SMS text and call to the alarm receivers/Call center/Firefighting or other CMS system.

SOS Alarm & Call

Press SOS button more than 3 seconds to make SOS Call.

System dial the 1st receiver number and then next numbers if no answering, totally repeat twice, and SOS alert SMS send to receivers at same time for asking SOS help.

Other Wireless SOS button or fall detectors optional.

Make Phone Call

Dial phone number and then press Call button to start talk, when alert receiver’s phone call in, you can press call button to answer and talk.

You can also press Call button to end the talk.

Open the Door

Press 0 1 and Key button to open your door (*if you have installed the WS1 wireless switch on your electronic lock).

How the system works for your family?

Elderly Daily Life Care

System sends alert SMS text if no activities detected by the 5th zone's PIR/Door sensor during the monitoring time period.

For example, install one wireless door sensor at your Dad's bed room, setting the monitoring time period as 05:30~09:00 am, if he didn't get up (didn't open his door) during that time, system sends alert SMS to the you says “Monitor Zone Alarm”---you can edit this SMS text for sure.

You will receive SMS text only for this event, no calls or audible alarm.

Door Bell

Install and connect one door bell button to the system, setting the zone function as “10. Door bell”, when someone push the button, system makes 6 bell sound.

Temperature Monitoring

System sends alert SMS text to you when indoor temperature too hot or too cold.

Other Living Care

System sends alert SMS text to you when AC/DC power lost (default: more than 30 minutes) and recovery, and when the wireless sensor's battery low power(if have).

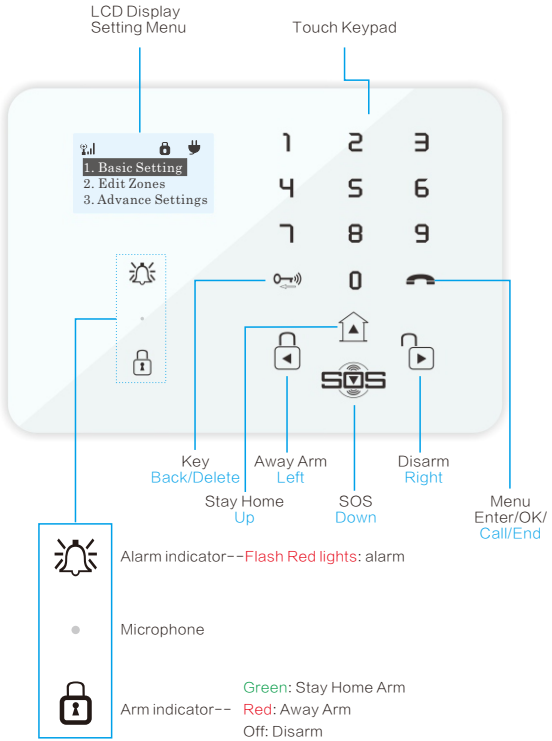
Remote Control

Connect with the alarm interlock relay, system will switch on/off your equipments automatically when alarm triggered.

Call in to control

Connect with the WS2 wireless switch, you can remote switch on/off your equipments by phone call.

Control Panel Layout



Key Buttons

Away Arm Button

Stay Arm Button

All the sensors are Armed except the sensors in Inner zones which disarmed so that users can move freely at home.

Disarm Button

Press Disarm button and 4 digits password (default: 1234), and press to disarm the system after two beeps.

SOS Button

Press the SOS button more than 2 seconds to make SOS alarm.

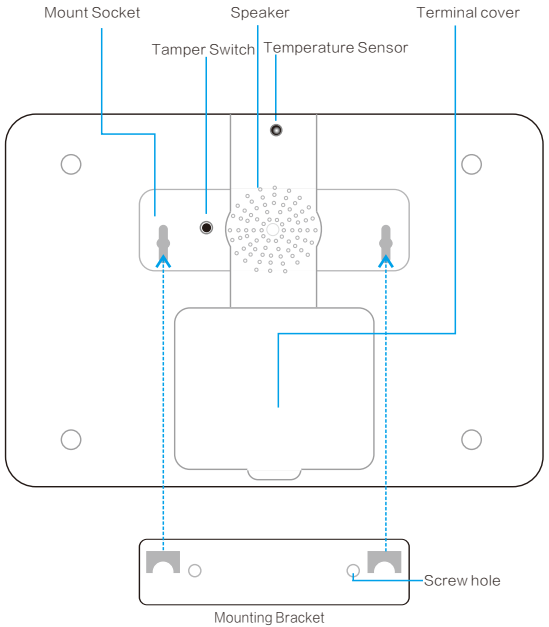
Call Button

Dial phone number and then press Call button to start talk or answer phone call in. You can also press the Call button to end talk.

Key Button

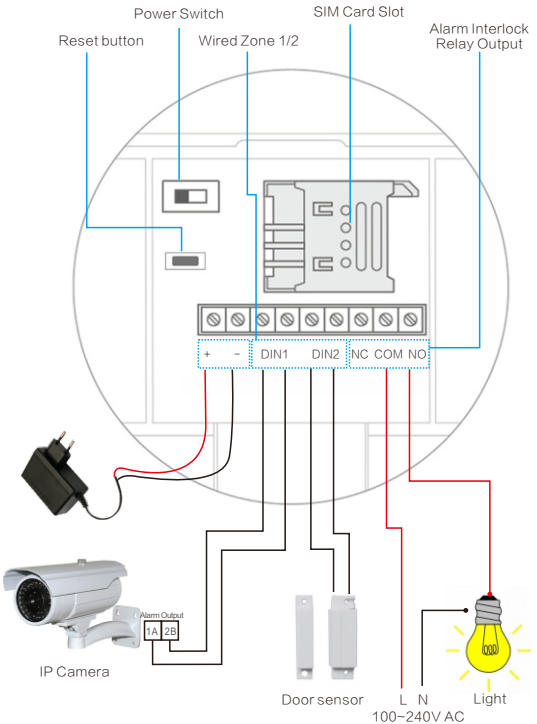
Press 0 1 and Key button to open your door (*if you have installed the WS1 wireless switch on your electronic lock).

Bottom View



Install the bracket on the wall by using screws, after wiring connection and power on, plug the socket to the bracket tightly, make the tamper switch close. When plug out the socket, tamper switch will make alarm.

Wiring Connections



Easy Setting by Keypad

Start:

◇ Put the mobile SIM Card to the slot.

◇ Connect the power supply, Switch ON.

◇ On Setup mode, below buttons used for:

Menu, Enter, OK

Back, Exit

Left, Delete

Right

Up

Down

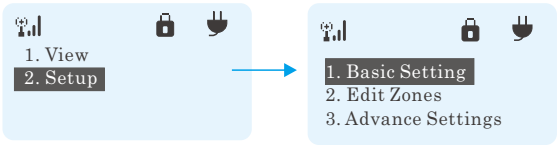
Reset:

◇ Open the SIM Card cover, press and hold the Reset button.

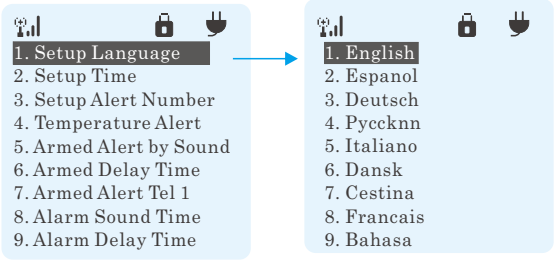
◇ Switch ON.

◇ After 5 seconds, release the Reset button, LCD display “Reset OK”, system back to factory mode.

Basic Settings

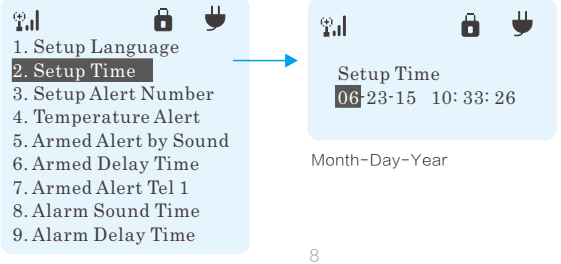


Select Language



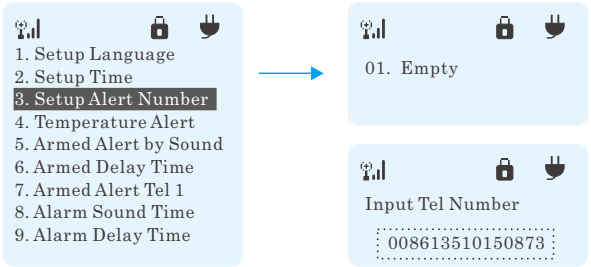
If you changed menu language, you should reset the system and reboot again.
Caution: All settings and sensors are lost after reset except language.

Setup Date & Time



Month-Day-Year

Setup Alert Number (Alarm Receiver)

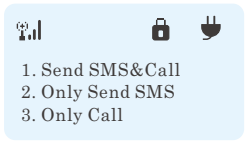


1. Total 9 Alert receiver numbers.
2. **Country code issue**: If you can't received the alert SMS or call, please try to change the country code as **0086**, **86** or just remove the country code on front of your phone number.

Receiver's phone number can be programming to below major functions:

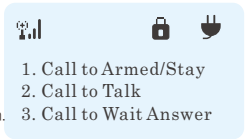
Function code 1 (alarm notify method):

1. receive SMS and call when alarm.
2. receive SMS only when alarm.
3. receive call only when alarm.

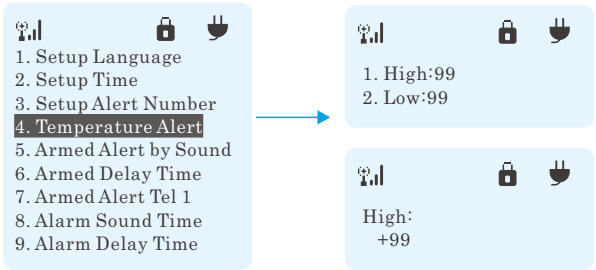


Function code 2 (when this number call to system):

1. system changes status from Away Arm to Stay Arm.
2. system answers the call automatically.
3. system needs to press Call button to answer the call in.

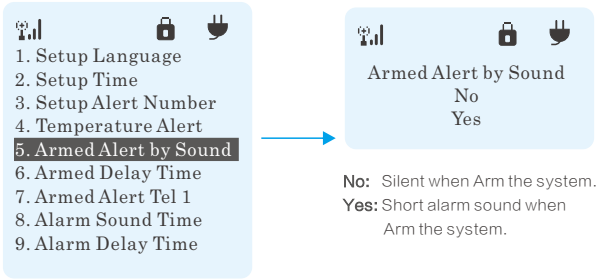


Temperature Alarm Threshold



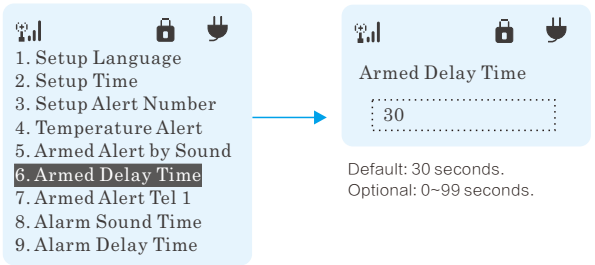
99 means disable the temperature alarm function.
Up/Down button to adjust + and −.
Left/Right button to select number position.

Arm Sound Notification



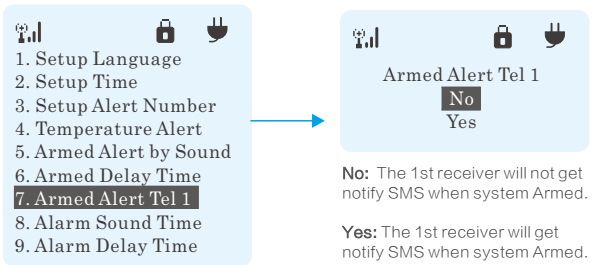
No: Silent when Arm the system.
Yes: Short alarm sound when Arm the system.

Arm Delay Time



Default: 30 seconds.
Optional: 0~99 seconds.

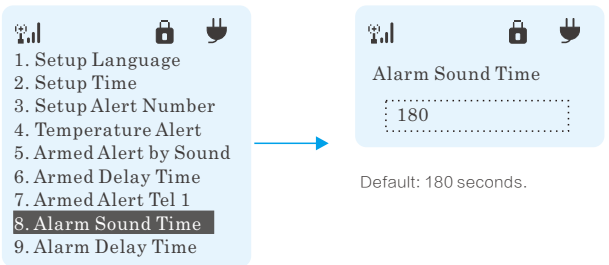
Arm Notify SMS



No: The 1st receiver will not get notify SMS when system Armed.

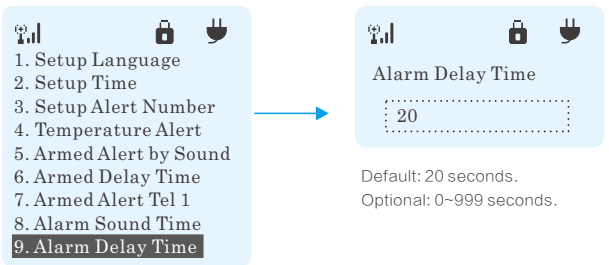
Yes: The 1st receiver will get notify SMS when system Armed.

Alarm Sound Time



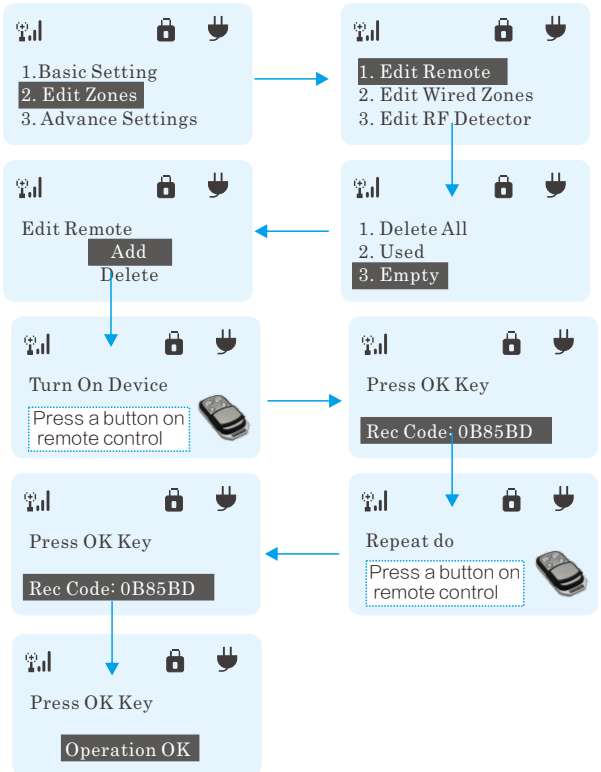
Default: 180 seconds.

Alarm Delay Time

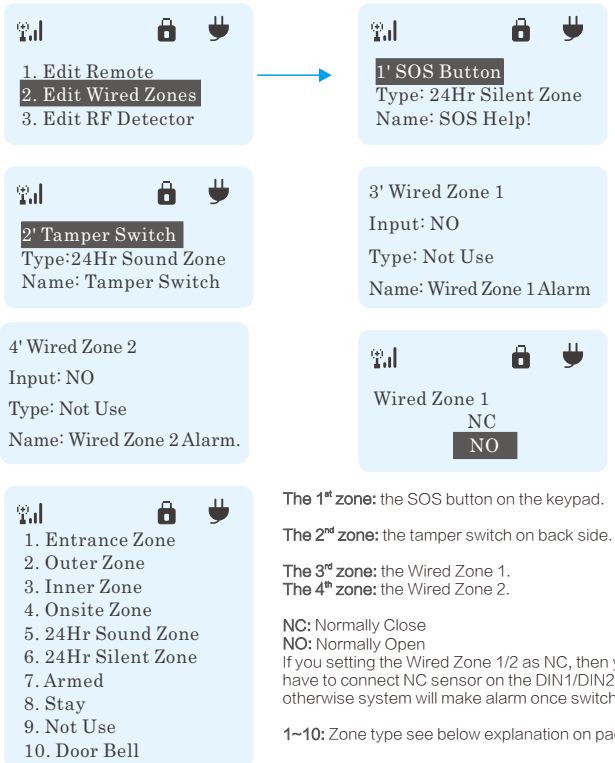


Default: 20 seconds.
Optional: 0~999 seconds.

Add Remote Control



Edit Wired Zone 1 & 2



The 1st zone: the SOS button on the keypad.

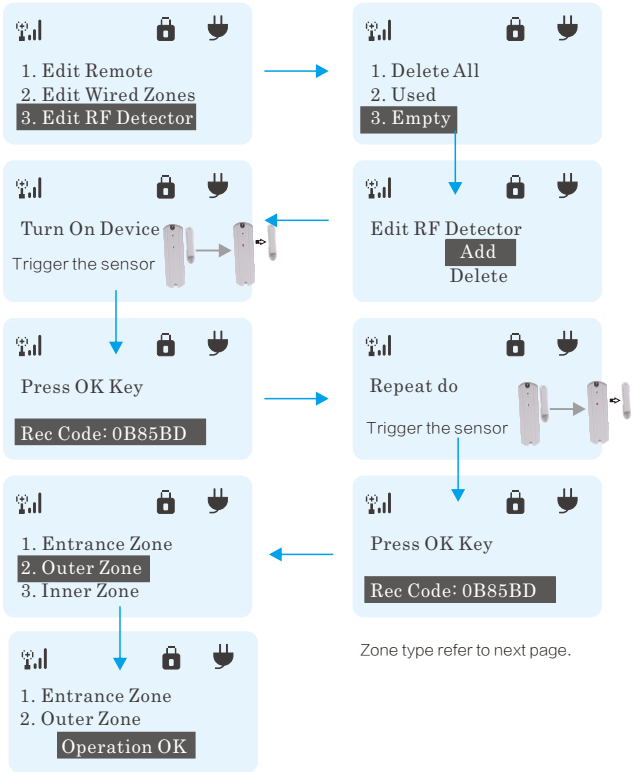
The 2nd zone: the tamper switch on back side.

The 3rd zone: the Wired Zone 1.
The 4th zone: the Wired Zone 2.

NC: Normally Close
NO: Normally Open
If you setting the Wired Zone 1/2 as NC, then you have to connect NC sensor on the DIN1/DIN2 port, otherwise system will make alarm once switch ON.

1~10: Zone type see below explanation on page 16.

Add Wireless Sensors



Zone type refer to next page.

Zone Type Explanation

Zone Type	When sensor triggered, the alarm system will	Used for	Sensors
1. Entrance	When you arm system: 30 seconds delay enter to arm mode, so you have time to leave home. When you back home: 20 seconds delay alarm, so you have time to disarm the system.	Main gate or lobby	Door sensors, PIR sensors
2. Outer	**Stay Home Arm:** Alarm **Away Arm:** Alarm.	Intrusion protection outside of the house	Door, PIR, Been, Vibration, Glass breakage sensors.
3. Inner	**Stay Home Arm:** No alarm. **Away Arm:** Alarm.	Intrusion protection inside the house	CPIR, Door, PIR sensors
4. Onsite	**Stay Home Arm:** alarm sound only **Away Arm:** alarm sound, alert SMS and dial	Windows or rear gate	Windows contact, Curtain PIR
5. 24Hr Sound	Make alarm whenever Away, Stay Home or Disarm. System sends alert SMS, dial and audible alarm sound at same time.	Smoke fire, Gas, Water, CO leakage detection	Smoke, Heat, Gas, Water, CO detectors
6. 24Hr Silent	Make alarm whenever Away, Stay Home or Disarm. System sends alert SMS and dial only, no audible alarm sound.	Emergency help SOS alarm	Fall detector, Panic buttons
7. Armed	Shift to Away Arm mode.	Press to Arm the system, no need remote control.	Wireless buttons
8. Stay	Shift to Stay Home Arm mode.	Press to Stay Arm, no need remote control	Wireless buttons
9. Not Use	Disabled the sensor function.	Disabled the zone	
10. Door bell	Make 6 door bell sounds.	Door bell	Door bell buttons

Unique Monitoring Zone (the 5th zone)

The special zone type for take care of elderly, FIXED in **the 5th zone** only.

System sends alert SMS to the 1st receiver if the sensor did not triggered during monitoring time period, this function works on **Stay Home Arm mode** only, if you changed the system to Away Arm or Disarm status, the monitoring function will be ignored automatically.

The purpose of this Monitoring Zone:
Take care of elder people's activities on daily life.

For example, install one wireless door sensor at your Dad's bed room,
setting the monitoring time period at 05:30~09:00,
If he didn't get up (didn't open his door) during that time,

The monitoring alarm send SMS only, no alarm call or audible alarm sound.

Recommend sensors:
Wireless door sensors, Curtain PIR motion sensors.

Bypass Zone Function

Bypass definition: A bypassed zone will not set off the alarm no matter how often it is tripped. With this function, you can bypass an upstairs window so that you can leave it open during the day without having to worry about it setting off your alarm.

For example, you want to be able to open and close a specific window during the night, while your system is armed; You want to bypass a certain motion sensor so that a person or pet can move through an area without creating an alarm event; While you are making repairs or renovations to your home, a sensor may be temporarily displaced – and you still want to use your system to protect the rest of the house.

How to Bypass a specific zone?

Step 1

Enter the two-digit number for the zone you want to bypass, single digit zones must be preceded by a zero, for example, "03", "06", or "09", etc.

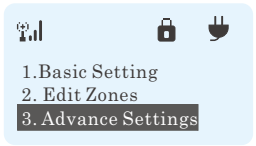
Step 2

Press the Disarm button, wait for the LCD display a "**Zone xx Bypass**" message, the zone bypassed confirmed.

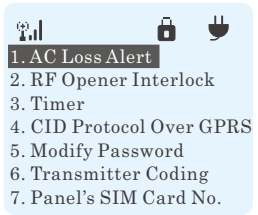
How to Cancel a Bypass zone?

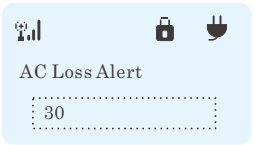
Press the Arm or Stay Home Arm button to arm your system as usual and enter the password, bypass zone function canceled.

Advance Settings



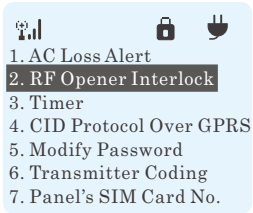
AC Power Lost Alarm

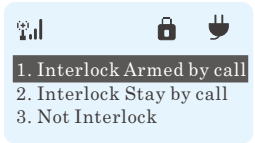




Default: 30 minutes.
Optional: 0~99 minutes.

Remote Access Control Interlock





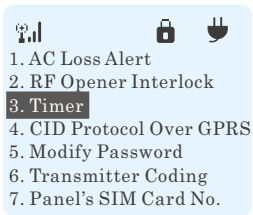
The system can open your electronic lock by pressing 01 and Key button, or interlock with your phone call in (your phone number must on the alert numbers list).
1. Interlock Armed by call: when you call in, system reject and recall back to confirm the arm success (you should reject the system's recall), and open your door at same time.

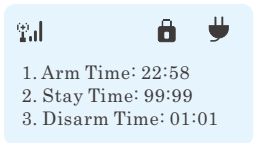
This setting will help you to open the garage or main gate when leaving home by a single phone call.

2. Interlock Stay by call: you should call the system twice within 30 seconds, to change the system to Stay Home Arm mode, and open your door at same time.

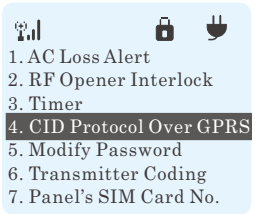
This setting will help you to open the garage or main gate when back home.

Schedule Arm/Disarm



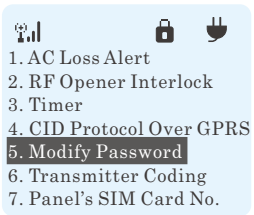


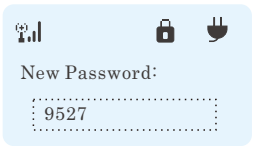
Contact ID Protocol over GPRS/3G Data



The alarm system supports CID protocol to CMS center over GPRS data communication, please setting it by SMS commands.

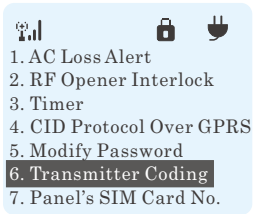
Modify Password

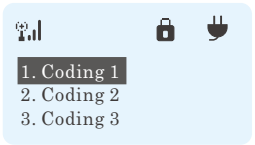




Password: 4 digits
Default: 1234

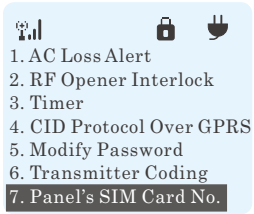
Wireless Switch Code

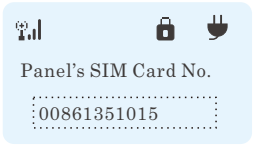




3 wireless code on the system, coding 1 is the default for wireless siren (*optional).

Panel's SIM Card Number



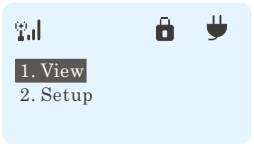


Enter the Alarm panel's SIM Card number for gain date & time from mobile network.

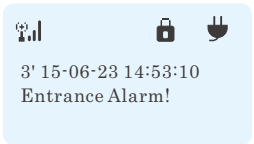
Alarm system will get mobile operator's date & time according to the phone number, LCD will correct and display the real date & time after few minutes when setting done.

If system can't get date & time automatically, please try to add or remove the country code, for example, **0086**1351015 instead of 1351015.

Alarm Event Logs

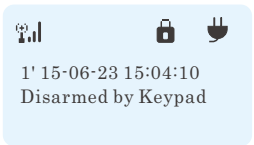


999 alarm event logs for review.



Operation Logs

99 operation event logs for review.



Setting & Operation by SMS commands

The alarm system cab be easily setting by Smart phone APP or SMS commands with password protection remotely.

* The SMS commands should with password, **1234** is the **default** password on below context, please change it to new password if you had changed already.
* The command body AA, EE, etc. must be **Caps Lock**.
* No space and "(" or ")" on the SMS commands, the space on command list just for reading purpose.

Function	SMS Commands	Description & Example
Arm	1234**AA**	Away Arm system without arm delay.
Disarm	1234**BB**	Disarm system.
Alarm sound ON	1234**CC**	Make audible alarm on
Alarm sound OFF	1234**DD**	Make audible alarm off
Inquiry status	1234**EE**	K9 sends back the current status: AC/DC power status GSM Value: xx (01~31, less than 17 means mobile signal weak.) Arm/Disarm status IMEI code: xxx
Modify password	1234**P** new password	1234P6666
Add alert number (alarm receiver)	1234 position(1~9) **A** function code 1(1~3) **#**function code 2(1~3) **#**phone number**#**	12343A1#2#00861351015# Function code 1/2 refer to page 9.
Inquiry alert number	1234**A#**	
Delete alert number	1234position(1~9)**A #**	12343A#

Wired zone 1 sensor type	1234**03** zone type (NC or NO)#	123403NC# to set wired zone 1 sensor as NC connection.
Wired zone 2 sensor type	1234**04** zone type (NC or NO)#	123404NO# to set wired zone 1 sensor as NO connection.
Edit zone alert content	1234**B** zone number# alert SMS content#	1234B05#Dad did not got up yet!# Alert SMS content: Max. 40 characters, can't be empty.
Inquiry zone alert content	1234**B**zone number#	1234B06#
Modify zone function	1234**D** zone number (01~99)#function code(0~9)#	1234D06#1# The 5th zone can't change zone function. One SMS setting more zones available, e.g.: 1234D06#1#07#2#
Alarm sound time	1234**E** sound time (001~999)#	1234E120# Unit: second, Default is 180 seconds.
Alarm delay time	1234**F** alarm delay time (000~999)#	1234F030# Default: 20 seconds
Arm delay time	1234**G** arm delay time (00~99)	1234G15# Default: 30 seconds Tips: When using remote control to Arm the system, press then Arm(A) button and then press the SOS(D) button immediately, K9 system will enter to Arm status without any delay.
Arm notify SMS	1234**H**#	System sends "Arm by xxx", "Disarm by xxx" to the 1st receiver when Armed/ Disarmed by SMS command.
Arm notify SMS disable	1234**J**#	No SMS notification when system Armed/ Disarmed by SMS commands.
Monitor on site voice	1234**K**#	System calls back for on site voice monitoring

AC power lost alarm	1234**M** time(00~99)#	1234M10# Default: 30 minutes, when AC/DC power lost more than 30 minutes, system sends SMS to the alarm receivers.
Monitoring time	1234**Q** start (hh:mm)# end(hh:mm)#	1234Q05:30#09:00# Monitoring time period from 05:30 am to 09:00 am, for the Zone number 5 only.
Wireless Access Control time	1234**GT** time (000~999)	1234GT030 Default: 1 second. To set the Wireless access control time, when press 01 and Key button, how long the wireless signal keep sending to the wireless switch to open the door(or other devices).
Alarm interlock relay working time	1234**RT** time (000~999)	1234RT030 Default: 1 second. To set the alarm interlock relay closure time, how long the relay keep close after alarm occurrence.
Reboot remotely	1234**RESTART**	To reboot the alarm system by SMS.

GPRS Data Function (for engineer only)

For engineer and remote server system only.
Please ignore this part if the total quantity of the alarm system deployed less than 200pcs.

Data Function Setup	1234**APN** apn name; user name;password #	1234APNeverywhere; eesecure;secure#
Contact ID server IP and Port	1234**IP** IP address; port number#	1234IP175.164.49.20;4005#

Alarm Process

Alert SMS → **GPRS data to CID Server system** → **Alarm dial out**

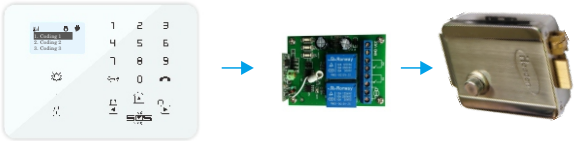
GPRS/UMTS data upload to server system depends on the alarm events(trigger) automatically, data connection off line when data send complete.
The alarm system can't receive data from server.

GPRS/UMTS data following the Contact ID (SIA DC-9) protocol.

SMS Content list

Event	SMS Content	Remarks
AC/DC power lost	AC Power Goes off	Default: AC Power Goes off 30minutes
AC/DC power recovery	AC Power Goes on	
Remote Control SOS	Remote Key SOS Help!	SOS button on remote control pressed.
Zone #1 alarm	SOS Help!	SOS button on panel pressed.
Zone #2 alarm	Tamper Switch Alarm	Tamper switch on the back side triggered.
Zone #3 alarm	Wired Zone 3 Alarm!	Wired zone 1 sensor triggered.
Zone #4 alarm	Wired Zone 4 Alarm!	Wired zone 2 sensor triggered.
Wireless zone #5 alarm	Monitor Zone Alarm!	For monitoring zone only.
Wireless zone #6 alarm	Entrance Alarm!	
Wireless zone #7 alarm	Zone 7 Alarm!	
Wireless zone #8 alarm	Zone 8 Alarm!	
Wireless zone #9 alarm	Zone 9 Alarm!	
Wireless zone #10 alarm	Zone 10 Alarm!	
Wireless zone #11 alarm	Zone 11 Spot Alarm!	
Wireless zone #12 alarm	Smoke Detector Alarm!	For SM-100 or other smoke detector (*optional)
Wireless zone #13 alarm	Water Leakage Alarm!	For WL-100 (*optional)
Wireless zone #14 alarm	Gas Leakage Alarm!	For GL-100/GL-100A (*optional)
Wireless zone #15 alarm	Panic Help Alarm!	For EM-60/EM-100 (*optional)
Wireless zone #16 alarm	Emergency Silent Alarm!	For EM-70/EM-90 (*optional)
Wireless zone #16 alarm	Zone 16 Alarm!	
Wireless zone #17 alarm	Zone 17 Alarm!	
...	...	
Wireless zone #99 alarm	Zone 99 Alarm!	
Wireless sensor's battery low power alert	Zone xx low voltage alert!	Works for the sensors with low batter alarm functions only.

Connect with Wireless Switch



Works with the wireless switch WS1 (optional), you can remote open your electronic lock or other devices by pressing 0 1 or control by incoming phone call.

Add wireless switch steps:

1. Connect WS1 relay output to the electronic lock as a switch.
2. Connect 12VDC from your lock to the WS1.
3. Press the learning button on WS1, LED flash quickly.
4. Press 0 1 , WS1 LED off, connection created.
5. Press 0 1 for test.

How to open the door by phone call

You can also call in to open your door or other devices by interlock settings(your phone number must on the alert numbers list, Caller-ID), setting method refer to page 20.

1. Interlock Armed by call: when you call in, system reject and recall back to confirm the arm success (you should reject the system's recall), and open your door at same time.
   This setting will help you to open the garage or main gate when leaving home by a single phone call.

2. Interlock Stay by call: you should call the system twice within 30 seconds to change the status to Stay Home Arm mode, and open your door at same time.
   This setting will help you to open the garage or main gate when back home.

3. Disabled the remote access control interlock function.

Connect with Wireless Siren

The alarm system inbuilt audible alarm function, in addition, you can also connect with the wireless siren (*optional) for the whole system.
Just connect the power adapter of wireless siren is OK, then you can press for test if the siren is working or not.

Please note that the wireless siren function works only on "Coding 1" on "Advanced Setting"-- "RF Interlock Switch".

If you want to use the alarm system to operate other device but not the siren, you can select code 2 or code 3 and then programming the wireless switch as same as above mentioned on page 31.

Specifications

GSM Frequency	Quad-band 850/900/1800/1900 MHz
Radio Frequency	433.92MHz for sensors, 315MHz for wireless switch (*optional)
Digital Output	1 relay, NC/NO dry contacts,3A/240VAC
Rated Power Supply	9~24V DC/1A
Power Consumption	12V input Max. 270mA, Standby 30mA
SIM Card	Support 3V SIM Card
Antenna	50 Ω SMA Antenna interface
Temperature Range	-20~+60 ° C
Humidity Range	Relative humidity 90% (condensing free)
Backup Battery	3.7V/900mAH Li-ion rechargeable
Exterior Dimension	18.8*13.1*2.8 cm (7.4*5.1*1.1 inch)
Net Weight	320 g (0.7 lb)

Specifications

Safe Startup
Do not use the alarm system when GSM/3G equipment is prohibited or might bring disturbance or danger.

Interference
All wireless equipment might interfere network signals of the alarm system and influence its performance.

Avoid Use at Gas Station
Do not use the alarm system at a gas station. Power off it when near fuels or chemicals.

Power it off near Blasting Places
Please follow relevant restrictive regulations. Avoid using the device in blasting places.

Reasonable Use
Please install the product at suitable places as described in the product documentation. Avoid signal shielded by covering the mainframe.

Use Qualified Maintenance Service
Maintenance can be carried out only by qualified person.

Trouble Shooting

No GSM signal
1)Backup battery low voltage.
2)GSM Module connection loose in transportation.
3)GSM Signal is too weak.
Solution
1)Plug the AC/DC Power adapter.
2)Please take the panel to a mobile phone repair store, and then ask the engineer to check the GSM Module socket and the GSM Module connection.
3)Please change another location to install the alarm panel.

Auto Restart - Backup battery low voltage.
Solution - Plug the AC/DC Power adapter.

False Alarm - PIR Motion sensor installation incorrect.
Solution-- Please install the PIR sensor according to the user manual carefully.

No SMS/Call when alarm,No action when you send SMS command
1)GSM Operator communication protocol.
2)Didn't setup SMS Alert/Call receiver's phone umbers.
3)Caps Lock letters in the SMS.
Solution
1)Change another GSM Operator SIM Card for test.
2)Setting SMS Alert/Call receiver's phone umbers correctly, e.g.: country code.
3)Check the commands with CAPS LOCK and correct format.

Can not call in to the alarm panel
1)Country code incorrect.
2)GSM Signal too weak.
Solutions
1)Check and ensure the country code format, e.g.: 0086 or +86.
2)Please put the alarm panel in strong signal coverage area.

Big noise while two way talk
1)Near-Cross interference.
2)GSM Signal too weak.
Solutions
1)Please make sure the other phone is far away from the panel.
2)Please put the panel in strong signal coverage area.