SM-G12   GSM Alarm System Instruction

User Guide

1.   Introduction

1.1 General Description

This Voice GSM alarm system is suitable for both home and commercial use. It uses the advanced GSM digital signal process technology. This intelligent alarm system is developed on wireless GSM network. It has highly integrated digital voice, SMS, self-learning wireless communication code, remote appliance control and text messaging technologies. The alarm provides automatic voice or SMS message as notifications for incidents. It is a choice of stability, reliability, security, and user friendliness. Features are very practical, cost-effective, completed configuration and ease of use. Six LED display alarm can integrate with a lot of alarm accessories including door sensor, smoke detectors, gas detectors, emergency buttons and other accessories to build a powerful security setup. It has been widely used in homes, factories, schools, shops, convenience stores, financial and banking workplace, community center and residential area to provide protection to valuable assets.

1.2 System Features

- Super GSM wireless signals, voice prompt, ease of use.Can install GSM SIM card.
- Allow up to 6 wireless zones and 4 wired zones.
- Each can be defined as one of the 5 zone types including NORMAL, STAY, INTELLIGENT, EMERGENCY, CLOSED.
- Two sets of scheduled arm/disarmed function, each time disarmed you can select the included period of time and different defense zone, eliminating of need of the manual procedure, realizing the beauty of automatic controls.
- Support configuration via phone (handset) or SMS messages to System Setup text messaging costs associated with the alarm panel.
- 6 groups voice alarm telephone number, 3 groups for SMS messaging. SMS notification for AC power outage will be sent to 3 groups SMS number and dial the 6th group voice alarm phone number.
- Support ISD automatic voice mailbox for playback message upon alert. Maximum length of voice message is 10 seconds.
- Telephone (phone)/SMS long-distance control for arming, disarming, monitoring, remote announcement.
- 1 Set of normally open signal outputs, relay linkage output, home appliances remote control can be realized.
- Wireless intelligent study coding, compatible with PT2262 normal encoding and a 1527 encoding, convenient and flexible for adding or reducing accessories. Maximum support 50 remote control and 50 sensors.
- Built-in Ni-Hi rechargeable battery and automatically switchable upon power failure, and notification will be sent via SMS.
- Panel integrated with newest either dual-band, triple-band, quad-band GSM/GPRS industrial graded module, adapt to different countries,stable and reliable.

2.   Anatomy of the Voice GSM Burglar Alarm System

2.1 System Components and Usage

ARM

The system is at a fully ready status where all detectors are activated in a working state, when the some events (burglar, fire, gas leak, etc) happened and detected, , alarm system alarm right away. In a ARM status, the panel [ARM] light is on.
To activate using remote control: press [ARM] key once.

STAY ARM

This is for partial arming of the alarm system when there are people at home, only some of the selected sensors are activated and could be triggered by events.In a STAY ARM status, the panel [STAY] light is flashing.
To activate using remote control: press [STAY] key once.
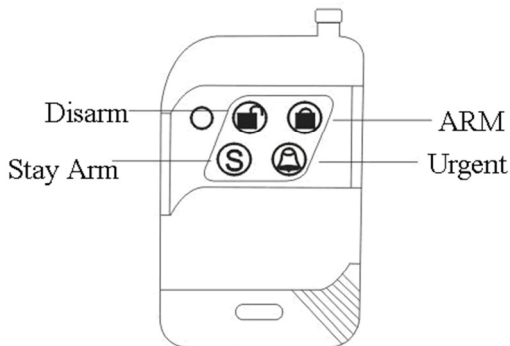
DISARM

All sensors are deactivated and will not be respond to any events.
In a DISARM status, the panel [ARM] light is off.
To activate using remote control: press [DISARM] key once.

EMERGENCY

When an emergency occurs, press the emergency button on the remote control host into the emergency state.
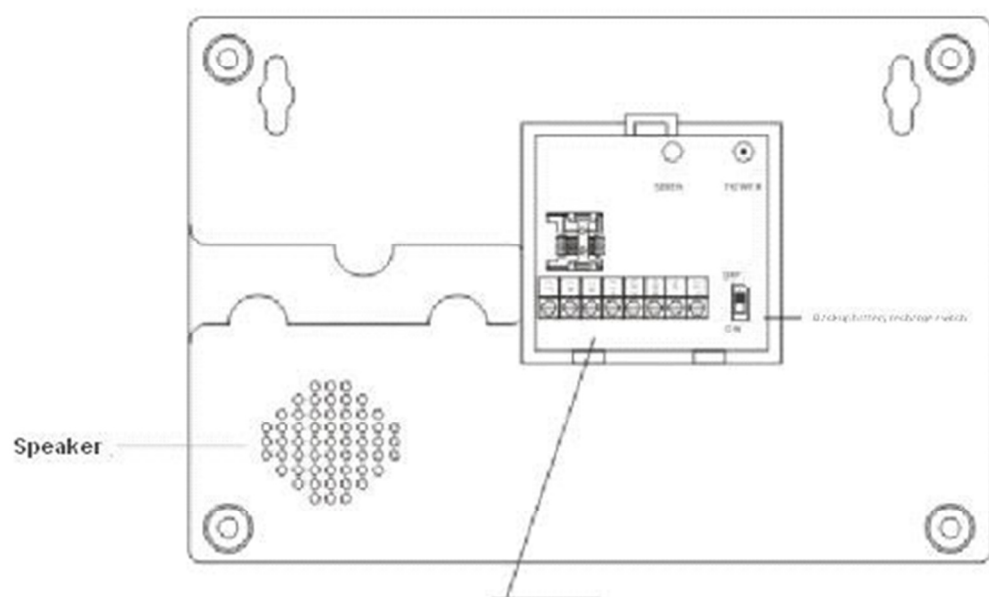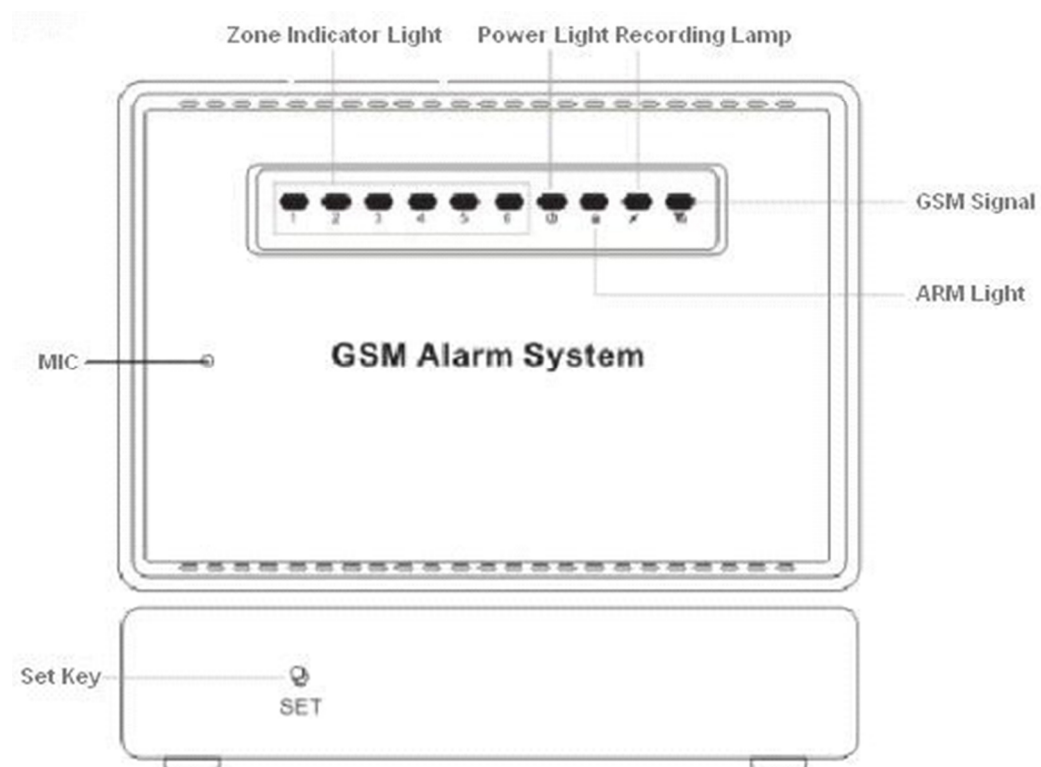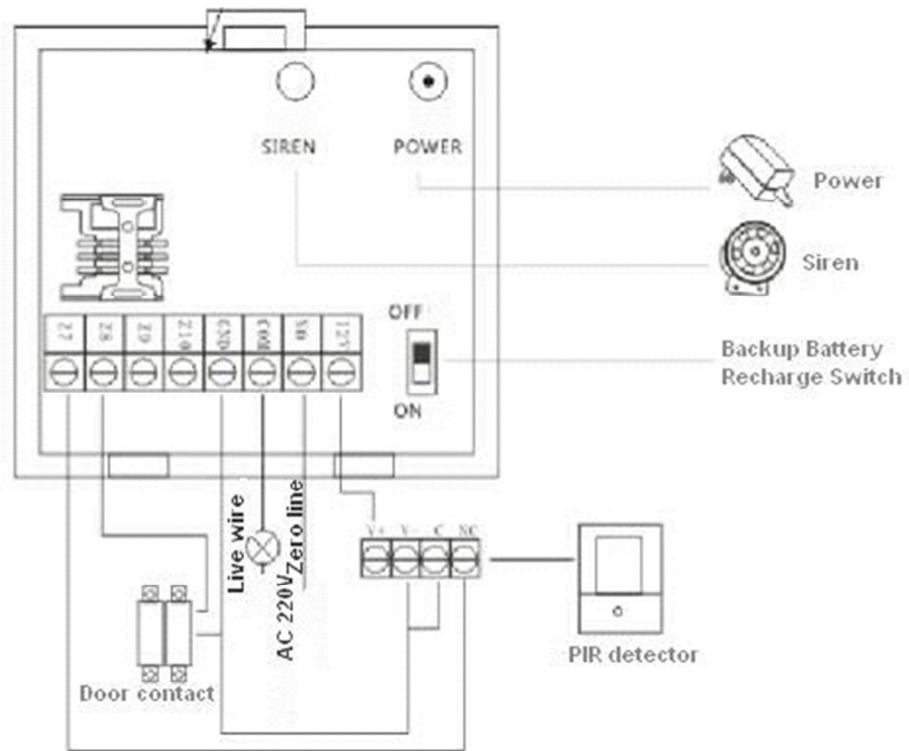

2.2 System Setup

2.2.1 Panel Setup

Alarm panel should be installed at a central location with best transmission to all the wireless sensors and accessories. Keep the panel well away from large metal objects or household appliances with high-frequency interference, and avoid barriers such as concrete walls with metal frame inside and fire doors.

Alarm Panel

Zone Indicator Light Power Light Recording Lamp

GSM Signal

ARM Light

MIC

GSM Alarm System

Set Key

SET

Speaker

2.2.2 SIM Card installation

SIM card installation is simple. Firstly remove the cover of SIM card slot at the back of the alarm panel and then place the card according to direction indicated. Make sure the cover of SIM card slot is fixed suitably.

SIM Installation
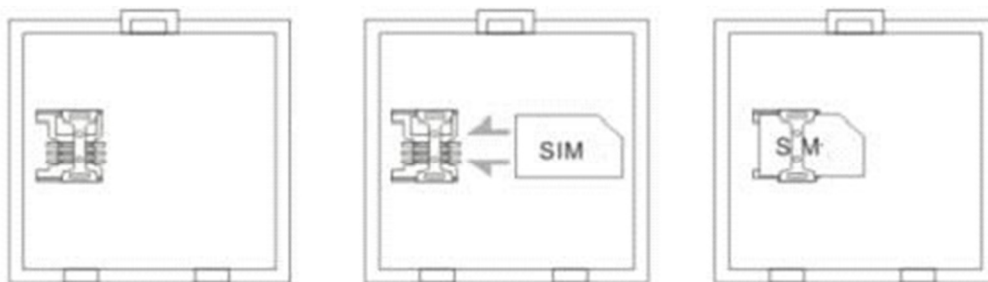
2.2.3 Summary of Indicators

Function	Indications	Description
Built-in speaker	short "beep" once	Confirming key signal received
	"beep", "beep" two short tones	Exit configuration or learning success
	"beep", "beep", "beep" three short tones	Error indication
	Voice prompt	The function and status of the prompt voice
	Light up	Panel power is normal

Power LED	Is off	Alarm panel external power disconnect, using battery
ARM LED	Light up	Alarm panel at ALL ARM state
	Blinking quickly	Alarm panel at STAY ARM state
	Blinking slowly	Is changing to the DELAY ARM
	Is off	Alarm panel at DISARM
Recording Lamp	Light on	Is in recording status
	Is off	Exit the recording status
Defence Zone LED	Light on	Defence zone alarming
	One LED flashing	This Defence zone coming into delayed alarming
	6 zones LED flashing	not installed SIM card or without GSM signal
GSM signal LED	Blinking every 1 second	GSM signal are weak, or SIM card not installed
	Blinking every 3 seconds	GSM module, and SIM card working properly

3   Installation of Panel

3.1 Alarm Panel Initial Setup

Load the SIM Card, put SIM card into the SIM seats behind the panel, then power up alarm panel. The alarm panel voice prompt "Welcome to use alarm system", and start self-test the GSM network, "GSM signal LED" flashing(flashing once for 1S) when is searching the GSM Signal.until networking properly,"GSM signal LED" flashing once for 3S,means GSM signals and SIM card are normal. If appear 6 zones flashing and host restart every 20 seconds means not installed SIM card or testing the SIM card is wrong .

Upon everything working properly, the battery switch should be at the [ON] position for continuous charging.

3.2 Pre-record Voice Message

Alarm panel will play a pre-recorded voice message after the alarm call when a pre-set phone number upon alarm. To record customized message:

● Hold the [**SET**]key 3seconds ,the panel will send a sound "di",and the recording light on .

● Speak your message at the panel for recording .

● System will record 10 seconds and then automatically exit or press [**SET**]key when the recording LED light to end.

3.3Enable or disable the GSM Module:

System default the GSM module is on . if the user not installed the SIM card , the host will restart until find SIM card and GSM signal.

Remark: If set the GSM module to off, the alarm system only used as the live alarm

system,only cleared the police , can not dialed the phone alarm number.Moreover ,the host without the SIM card would not restart when you closed the GSM module.

3.3.1 Close GSM module method:

● In the disarm status, press [**SET**] key for 3 seconds, release it when the recording light on .

● Wait 2seconds, and then hold the [**SET**] key 3 seconds once again, the panel will respond with "di ,di,di" three times means changing into the state of closed the GSM module   .

● Turn on the power supply again after power off . the panel will prompt "welcome to use alarm system ", and "di di di" three times ,means the GSM module is off.

3.3.2 Open GSM module method:

●   In the disarm status, press [**SET**] key for 3 seconds, release it when the recording light on .

● Wait 2seconds, and then hold the [**SET**] key 3 seconds once again, the panel will respond with " di,di" twice means changing into the state of open the GSM module   .

● Turn on the power supply again after power off . the panel will prompt "welcome to use alarm system ", and "di" once ,means the GSM module is on.

Remark:If the GSM module is off,the alarm system would be can not read the SIM card .

3.4 Add Remote Control:

●Press [**SET**] key 1 second ,the panel will "di " once and 6 zone lights on ,then the panel will respond with " Add remote control" means enter the configuration mode .

●Then press any key of the remote control to send a signal to the alarm panel,the panel respond with " successfully " means successful ."di " once means the remote control has been configured before.

●If want to add another remote control,directly press any key of the remote control which you want to add .Alarm panel can configure up to 50 remote control of different addressing.

●Press [**SET**] six times to exit ,press [**SET**]once every 1second.All the zone light off means exit the configuration mode.

3.5 Delete the remote control:

●Press [**SET**] key 1 second ,the panel will "di " once and 6 zone lights on ,then the panel will respond with " Add remote control" means enter the configuration mode .

●Then hold the [**SET**] key 3 seconds,the panel will respond with "di,di' twice ,and all zones lights off ,means delete all remote controls .

3.6 Add detector

●Press [**SET**] key 1 second ,the panel will "di " once and 6 zone lights on , means enter the configuration mode.

● Press the [**SET**] key 1 second again ,the first zone light on ,the panel will prompt "Add one zone " ,then trigger the detector to send a signal to the alarm panel ,the panel respond with " successfully " means successful . "di " once means the remote control has been configured before.

●Then press [**SET**] key once again ,the second zone light will on ,means enter the second zone configuration mode, and trigger the detector to send a signal to the alarm panel .

●Press [**SET**] key once again to enter the configuration mode of 3th ,4th ,5th ,6th defence

zone .when enter the configuration of 6th defence zone ,press the [SET] again ,the panel will "di,di" twice ,all zones lights will off means exit .

● Alarm panel can configure up to 50 detectors of different addressing.

3.7 Delete detector

● **Delete the detector of 1st defence zone :**

Press [**SET**] key twice, and then hold the [**SET**] key 3 seconds when the 1st defence zone light on ,the panel respond with "di ,di " twice ,means delete the detector of 1st defence zone successfully .

●**Delete the detector of 2rd defence zone :**

Press [**SET**] key three times, and then hold the [**SET**] key 3 seconds when the 2nd defence zone light on ,the panel respond with "di ,di " twice ,means delete the detector of 2nd defence zone.

● **Delete the detector of 3th defence zone :**

Press [**SET**] key four times, and then hold the [**SET**] key 3 seconds when the 3th defence zone light on ,the panel respond with "di ,di " twice ,means delete the detector of 3th defence zone.

● **Delete the detector of 4th defence zone :**

Press [**SET**] key five times, and then hold the [**SET**] key 3 seconds when the 4th defence zone light on ,the panel respond with "di ,di " twice ,means delete the detector of 4th defence zone .

● **Delete the detector of 5th defence zone :**

Press [**SET**] key six times, and then hold the [**SET**] key 3 seconds when the 5th defence zone light on ,the panel respond with "di ,di " twice ,means delete the detector of 5th defence zone.

● **Delete the detector of 6th defence zone :**

Press [**SET**] key seven times, and then hold the [**SET**] key 3 seconds when the 6th defence zone light on ,the panel respond with "di ,di " twice ,means delete the detector of 6th defence zone.

4   Command Reference

This system supports two methods of configuration including telephone set and SMS messaging. Following are examples how instructions are given via one of the two methods of setting.

Example: you want to change the first phone number for voice calling to 13899998888:

Method 1: By telephone set
Calling into the alarm panel, upon connected, alarm panel will ask for password, it is 1234 as the default, then press #, and then press 3113899998888# , press the * to exit

configuration mode.
Method 2: Using SMS
On your mobile phone, compose a SMS message as 12343113899998888# and send to your alarm panel.

4.1 Commands for Configuration

Set up voice alarm phone number	To set the 1st group to the 6th group of voice alarm phone number 【 1-6 】 indicates that the first group to the Sixth group alarm number correspondingly. **Method one:** Remote calling into the alarm panel put in password (initial password: 1234) when being asked, then press the # key, hear the voice prompt and then press 3113812345678#, press * to exit the remote setting status.
Syntax: 【 3 】+【 1-6 】+【Phone number】+ 【 # 】	**Method two:** Send SMS messages 12343113812345678# to a alarm panel (which at the beginning of 1234 is the user password,31 means the first group command,13812345678 means user alarm-receiving number), the alarm panel will reply"1:13812345678 2: 3: 4: 5: 6: 7: 8: 9:"means the first group number has been set as13812345678 successfully. If alarm receiving number have an extension, setting method is the same with above, when input number,input 13812345678 + * + extension. * means waiting for 1 second, * * means waiting for 2 seconds. **Remark:**the 6th group voice alarm number is special for AC power outage . If the 6th is set to 13855556666,when power off and then on again , the host will automatically dial to 13855556666.At the same time sent message to three groups SMS number, and the host prompt 0 defence zone alarm.
Delete voice alarm phone number	**Used to delete the first group to the Sixth group alert phone numbers** **Example:** If you want to delete the first set of telephone alarm number,
Syntax: 【3】 + 【1-6】 + 【 # 】	**Method one:** After entering the telephone remote setting status, press 31#. **Method two:** Send SMS message 123431# On the alarm panel, alarm panel reply " 1: 2: 3: 4: 5: 6: 7: 8: 9: " to confirm the 1st group alarm phone number has been removed.
Set phone number to receive SMS message	**To set the first group to the third group of phone number for SMS message. When alarm panel is alert, it sends a SMS**

Syntax: 【3】 + 【7-9】 + 【Phone number】 + 【 # 】	**message to the three sets of numbers one by one.** Example: If the user wants to set 13812345678 SMS for the first group of SMS message **Method one:** After calling and connected to the panel from remote, press 3713812345678# **Method two:**
Delete SMS phone number Syntax: 【3】 + 【7-9】 + 【 # 】	**Used to delete the first group to SMS of the third group police number** Example: If you want to delete the first set of SMS message phone number, **Method one:** After calling and connected to the panel from remote, press37# **Method two:**Send SMS message123437# to the panel.
Password modification Syntax: 【50】 + 【4 digits new password】 + 【#】	**Used to modify the user password, the default user password is 1234** Example: If you want to set up a new user password 4321 **Method one:** . After calling and connected to the panel from remote, press 504321# **Method two:** Send SMS message 1234504321# to the panel.
Set delay for system arm Syntax: 【 51 】 + 【 00-99 Second】 + 【 # 】	**Upon armed from the remote control or alarm panel, the alarm panel is set to delay 0 - 99 before at the ready status of ARM. The system default is 00 seconds.** Example: users need to set the delay time for 60 Seconds. **Method one:** After calling and connected to the panel from remote, press 5160# **Method two:**Send SMS messages12345160# to the panel.
Set the time of delay for alarming Syntax: 【52】 + 【00-99 Second】 + 【#】	**Set the time of delay upon alarm, it can be set to 0-99 seconds, the system default is 00 seconds.** Example: the user needs to set the alarm delay time to 60 Seconds. **Method one:** After calling and connected to the panel from remote, press 5260#. **Method two:** Send SMS message 12345260# to the panel.
Set length of Siren sound Syntax: 【53】 + 【00-20 Minutes】 + 【 # 】	**Set alarm length of sounding when panel alarm, could be set to 0-20 minutes, factory default is 1 minute.** Example: you want to make a siren sound 5 Minutes. **Method one:** After calling and connected to the panel from remote, press 5305#
	Method two: Send SMS messages12345305# to the panel.
Set integrated alarming	**Enable or disable the integrated alarm upon alarm. 1 is enabled**

Syntax: 【54】+【0/1】+【#】	**and 0 is disabled, the system default is 1.** Example: users need to set the integrated alarming off, **Method one:** After calling and connected to the panel from remote, press 540# **Method two:**
Set audible confirmation for remote control operation Syntax: 【55】+【0/1】+【#】	**1 means on and 0 means closed, the default is on.** Example: Set panel without sound when remote control operation **Method one:** After calling and connected to the panel from remote, press 550#. **Method two:** Send SMS messages1234550# to the panel
Set date and time settings Syntax: 【56】+【00-99 2-digits year】+【01-12 month】+【01-31day】+【00-23 hour】+【00-59 minute】+【00-59 second】+【#】	**Set the system date and time** Example: it is now 1st of October of 2011 9：00： 00 am **Method one:** . After calling and connected to the panel from remote, press 56111001090000#. **Method two:** Send SMS message 123456111001090000# to the panel.
The first group Scheduled arm and disarm time setting Syntax: 【57 】+【AAAA Scheduled time of arm】+【 BBBB Scheduled disarmed time】+【Number week】+【 # 】	**To set the first group Scheduled arm/disarm time** Example: set up the first group scheduled time to arm at 22： 00 pm and disarm at 07:00 am, this is valid for Monday,Tuesday,Wednesday,Thursday and Friday of each week. **Method one:** After calling and connected to the panel from remote, press 572200070012345# **Method two:** Send SMS message 12345722000070012345# to the panel. **Remark:**Set the scheduled arm and disarm time to 24:00 will close the scheduled arm and disarm.
The second group Scheduled arm and disarm time setting Syntax: 【58】+【 AAAA Scheduled time of	**To set the second group Scheduled arm/disarm time.** Example: set up the second group scheduled arm/disarm time to arm at 12:00 am and disarm at 13:00 pm , this is valid for all 7 days of each week. **Method one:** After calling and connected to the panel from remote, press 58120013001234567# **Method two:**
arm】+【 BBBB Scheduled disarmed time】+【Number week】+【 # 】	Send SMS message123458120013001234567# to the panel. **Remark:**Set the scheduled arm and disarm time to 24:00 will close the scheduled arm/disarm.
Set the type of defense zone	To set 6 wireless zone type, 01-06 represents 1-6 zone number, 1-5

Syntax: 【 60 】 + 【01-06 zone number 】 + 【 1-5 Type 】 + 【 0/1 】 + 【 # 】	represents one of the 5 zone type: 1. NORMAL 2. STAY ARM 3. INTELLIGENT 4. EMERGENCY 5. CLOSED The last 【0/1】, 0 means siren of panel produce no sound upon alarming while 1 is sounded . Example: Set 2 zone as STAY, and siren not sound upon 2 zone alarm. **Method one:** After calling and connected to the panel panel from remote, press 600220#
Set mode of wired alarm zone	**Set four wired alarm zone to NO or NC . The zone number of 7-10 are wired defense zones, system default is 7-10 are wired zones with NO mode.** 07-10 represents 7-10 zone number,
Syntax: 【61 】 + 【07-10 zone number】+【1-5 Type】+ 【0/1】+【0/1】 + 【 # 】	1-5 represents one of the 5 zone type: 1. NORMAL 2. STAY ARM 3. INTELLIGENT 4. EMERGENCY 5. CLOSED The first 【0/1】, 0 means siren of panel produce no sound upon alarming while 1 is sounded. The last 【0/1】, 0 means NO (short-circuit to alarm) and 1 means NC(open-circuit to alarm) Example: Set 7 zone to Normal,siren not sound ,and NC alarming. **Method one:** After calling and connected to the panel panel from remote, press 6107101# **Method two:** Send SMS message 12346107101# to the panel.
Siren volume adjustment	**Valid value is from 00 to 99 as largest, system default is the largest.**
Syntax: 【62】+ 【 00-99 】	Example: users need to set volume to 50. **Method one:** After calling and connected to the panel panel from remote, press
+ 【 # 】	6250# **Method two:** Send SMS message 12346250# to the panel.
Set audible confirmation from panel to on or off	**Alarm panel will produce audible confirmation beep upon receipt of signal from remote control. 1 is on, 0 is off, default is**

Syntax: 【11】 + 【0/1】 + 【#】	**on.** Example: users need to disable the audible confirmation. **Method one:** After calling and connected to the panel panel from remote, press 110#
Enable or disable the SMS Messaging Syntax: 【12】 + 【0/1】 + 【#】	**1 is on and 0 is off. Default is on** Example: the user will need to turn off the text messaging feature **Method one:** After calling and connected to the panel panel from remote, press 120# **Method two:** Send SMS message 1234120# to the panel.
Restore factory setting Syntax: 【13】 + 【0000】 +【#】	**System restore factory setting** **Method one:** After calling and connected to the panel panel from remote, press 130000# **Method two:** Send SMS message1234130000# to the panel. **Remark:** This feature will restore all settings to factory default apart from the configuration of sensors and remote control.
Total System Reset Syntax: **Press and hold the 【SET】button on the keyboard and power on.**	Disconnect power to the alarm panel, turned off the battery switch alarm panel, then press and hold the alarm panel of SET button while power-on. The system will respond with "beep...." long ringing for 5 seconds, then can release SET button. The system is now totally reset. All configuration has been cleared, all sensors and remote controlled are deleted and password is restored to original 1234.

4.2 SMS Commands

The following instructions are only for SMS command to control panel remotely:

Remote SMS disarm **0#**	Send SMS message 12340# into alarm panel Note: 1234 is the password
Remote SMS NORMAL arm **1#**	Send SMS messages 12341# to set the alarm panel to ARM
Remote SMS STAY arm **2#**	Send SMS message 12342# to set alarm panel to STAY ARM.
Remote SMS turn on relay **3#**	Send SMS message 12343# to turn on the relay of the alarm panel
Remote SMS turn off relay **4#**	Send SMS messages12344# to turn off the relay of the alarm panel

Query the AC power 6#	Send SMS message 12346# to the alarm panel to query the AC power ON or AC power OFF.
Query the alarm panel general settings **20+【#】**	Query the alarm panel status included: arm/disarm, relay status，audible confirmation，status of power supply，status of integrated alarm，status of SMS messaging，status of remote operation，password，delay alarming setting，delay arm setting，length of time of siren sounding，volume of siren Example: Send SMS message 123420# to the alarm panel, the alarm panel replies with a list of related setting: Defense on → arm status Relay out off → relay off Voice on → voice on Alarm out on → integrated alarm on Send SMS on→SMS messaging on RC Siren on →Siren sound when arm/disarm by remote control Password:1234→the password is 1234 Alarm delay:00s→delay alarming 0 second Defense delay:00s→ delay arm 0 second Siren on 01 min→ siren sounding time 1 minute Siren VOL:99→ volume of siren 99
Query alarm phone number **21+【#】**	Query a list of 1st to 6th phone number group for voice alarm and first to third group of phone number for SMS message.1-6 behind the Numbers is voice alarm number, 7-9 behind the Numbers is SMS messages , namely after alarm first sent SMS message to 7-9 group number, then take turns call 1-6 group telephone number. Example: send SMS message 123421# to the host Reply message format and analytic: 1:13812345678 means the first group voice alarm is 13812345678 2:13788889999 means the second group voice alarm is
	13788889999 3:8854 means the third group voice alarm is 8854（cornet） 4:26553366 means the forth group voice alarm is 26553366 5: means the fifth group voice alarm is not set 6: means the sixth group voice alarm is not set 7:13656343322 means the first group SMS message is 13656343322 8: 8932 means the second group SMS message is 8932(cornet) 9: means the third group SMS message is not set Remark:voice alarm number can be the same with SMS number.
Query the status of scheduled arm/disarm	Query the two group of the scheduled arm and disarm Send message 123422# to the panel.

22+【#】	Reply message format and analytic: System Clock>11-01-01 12:30 Arm time 1>22:00 Disarm time 1>07:00 Arm/Disarm week>1234567 Arm time 2 >24:00 Disarm time 2 >24:00 Arm/Disarm week>1234567 Means now the panel time is 2011-10-1 12:30 The first scheduled time to arm at 22:00pm and disarm at 07：00 am.this is valid for Monday, Tuesday, Wednesday, Thursday and Friday of each week.
Query the setting of zone **23+【#】**	Query the setting of zone(including defence zone type , siren on or off , open or short circuit alarm) Example:Send message 123422# to the panel. Reply message format and analytic: 1:Normal On　means the first zone is normal zone,siren on. 2:Stay Off　means the second zone for STAY alarm, siren off 3: Smart On means the third zone for INTELLIGENT,siren on 4: Urgent On means the fourth zone for EMERGENCY,siren on 5: Off　On means the fifth zone for CLOSE, in close state 6: Normal On means the sixth zone for NORMAL,siren on 7: Normal On NO means the seventh zone is NORMAL,siren on,and short-circuit to alarm 8:Normal On NC means the eighth zone is NORMAL, siren on,and open-circuit to alarm. 9:Normal on NO means the ninth zone is NORMAL,siren on, And short-circuit to alarm 10: Normal siren NO means the tenth zone is NORMAL,siren will alarm ,and short-circuit to alarm
Query the customized SMS message content **80 +【#】**	Query the customized SMS message content(The content is sent into users reset the first to the third group SMS messages number after the zone alarm) Example:Send message 123480# to the panel. Reply message format and analytic: 1：The first zone message content"1 zone alarm " 2：The second zone message content"2 zone alarm " 3：ditto 10：ditto
Customize the SMS message for certain zone	Used to customize the SMS message for zone ((this content is sent into the first to the third SMS message numbers users reset after

8+【0-9】+【message content】+【#】	this zone alarming,content confined within 12 Letters) Example: want to change the first zone message content to "1 door open," send a message "1234811 door open #" to the host. Reply message format and analytic: 1：the first door open means the first zone message content to "1 door open" 2：2 zone means the second zone message content"2 zone alarm" 3: 3 zone means the third zone message content"3 zone alarm" 4： ditto
Set the tenth zone message content 90+ 【 10 zone message content】+【#】	Set the tenth zone message content Example:change the tenth zone message to "1 win open" send a message "123490 1 win open" to the panel.

Note: "1234" string shown above table all represents the password. User can change password and thus should adjust the commands listed accordingly.

5   Remote Control of Panel

5.1 After receiving the Panel Alert:

After Panel alerts, it will automatically dial the preset telephone number for three times until connected. When the user picks up the phone, a piece of pre-recorded voice message will be played back immediately and let the receiver noted about the event. Upon receiving the call, it can also control the alarm panel remotely via the phone (according to the command below). User will not be asked for password upon connected and alarm will automatically hang up call within receiving any instruction within 20 seconds.

[1] key: arming   [2] key: disarming
[3] key: listening   [4] key: stop to listening
[5] key: talking   [6] key: stop to talking
[7] key: siren on   [8] key: siren off
[9] key: relay on   [0] key: relay off
[*] key: hang up, system will not dial the next number on list.

Remark:
-   If not hang up using [*] key or disarm using [2] key, the system will retry to call the next phone numbers on list until one connected.
-   Panel will not ask for password when dialing out upon alarming.
Press 3 then 5 can realize to call the intercom function,If you need to continue the intercom in 20 seconds by 5 key again.

5.2 Remote Dialing In Operation:

Remote-control operations can be done via any phone. You can just dial into the alarm panel and user will be asked for password upon connected and alarm will automatically hang up call within receiving any instruction within 20 seconds or

password is incorrect. (original password 1234)

[1] key: arming   [2] key: disarming
[3] key: listening   [4] key: stop to listening
[5] key: talking   [6] key: stop to talking
[7] key: siren on   [8] key: siren off
[9] key: relay on   [0] key: relay off
[*] key: hang up,
[#] key: Enter the system remote configuration mode, Without receiving no
        instruction, the panel will automatically hang up after 20 seconds.

Remark:
Press 3 then 5 can realize to call the intercom function,If you need to continue the intercom in 20 seconds by 5 key again.

6   Types of Alarm Zone

6.1   Definitions of Zones

The alarm supports 10 distinguishable defense zones and they can be classified into one of the 5 Zone Types with their respective characteristics.

Type ID	Zone Type	Interpretation
1	NORMAL Defense Zone	the Panel only works on the arming status. When disarming, there is no response.
2	STAY Defense zone (AT-HOME Defense zone)	can be shut off solely through the remote control (keyboard) to avoid the Infrared Detectors and other in-room detectors from misinformation when master is resting at home.
3	INTELLIGENT Defense zone:	if the detector in the Defense zone is triggered only once, it will not immediately alarm. But if being triggered once again within 30 seconds after the first triggering, it will alarm immediately.
4	EMERGENCY Defense zone:	no matter on arming or disarming status, if detector is triggered it will alert. Usually used in connecting with Smoke Detectors, Gas Detectors and emergency button, etc.
5	CLOSED Defense zone:	no matter arming or disarming status, detectors will not alert even being triggered.

6.2 Other System Default

Operation password	1234
Siren Volume	99
1-10 defence zones attribute	Normal zones
Siren Sound	1 minute
Delay ARM	No
7-10 wired zones	Normal ,NO
SMS Message	Enable

Integrated Alarming	Enable
GSM Module	Enable
Audible confirmation for remote operation	Enable
Delay alarming	Disable
1-10 Zone alarm	Siren sound enable
1-10 Zone SMS message content	xx Zone alarm

6.3 Fitting parameters:

- Input voltage: DC9V-12V
- Standby currents: < 25 m A
- Alarm current: ＜ 450 m A
  - ☒ Wireless frequency: 315/433MHz，2262/1.5-4.7M,EV1527/300K
- GSM Format: Support GSM850/900/1800/1900MHz (option)
  - ■ Backup battery: NI-HI AAA*6　DC7.2V
  - ■ Alarm loudness: 110dB
- Detailed parameters: The alarm should be compatible with PT2262, PT2240 and EV1527. Using PT2262 encoding, the resistance is recommended 1.5M-4.7M; using with EV1527 encoding, the resistance by 300K, data recommended 1010.

7　Guideline of Installation Sensors

7．1　Guideline for Installing Door or Window Sensor

1. The surface for door sensor installation should be clean so door sensor can be attached to the door and frame firmly with double faced adhesive.
2. Each door sensor is a pair of sensor and magnet. The sensor (A as in diagram) should be installed on the fixed door frame and the magnet (B as in diagram) should be placed on the movable door with a distance not exceeding 1 cm.
3. Upon installed, door sensor should be tested by open the door and check if the indicator on door sensor flashes for 1 second.
4. In case the door sensor is running out of battery, the indicator should be kept lit as a low-voltage notification.

7.2 Guideline for Installing PIR Motion Sensor
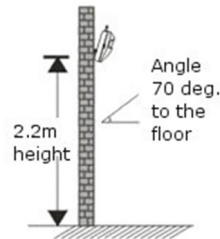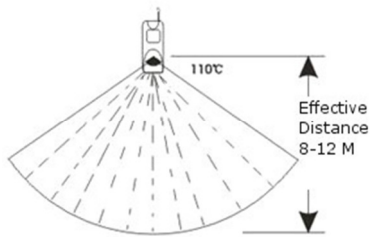
1. Before use, make sure the power switch of PIR motion sensors is at the ON position.
2. Installation height is about 2.2 meters above ground and the optimized detection angle for most motion sensor is 90 degree. The sensor should face the detected area with this consideration for best coverage. It is advised to install with the face of motion sensor perpendicular to the most probable moving detection of people for the highest effective detection.
3. Within coverage of detection, there should be no any objects for obstruction.
4. There should be no two infrared detectors in the same as they will possibly intervene with each other.
5. Avoid the detector facing window, cooling or warming machines, or other appliances that cause the temperature changing sharply and thus cause false alarm.
6. Most infra-red detector needs about 5 minutes to heat up before READY for normal operation.
7. Regular PIR motion sensor is for indoor use unless the specification stated otherwise.

Unless specifies otherwise, most infra-red detector are indoor use and not reliable to use outdoor.

8   Troubleshooting

Troubleshooting	Reasons	Methods
● Can not dial for alarm	●No arming ●Alerting phone unset ●Parts improperly installed, distance too far away,code no match	●Do arming operation ●Re-set according to the specification ●Coordinating the location of parts,re-coding

●SIM card not found,GSM not dialing out or no SMS sent	●SIM card unloaded ●SIM requires a password to dial ●GSM signal not good ●SIM card contact points not good ●Voice calling disable ●SMS message disable ●SIM card is a pre-paid type of card and no enough deposit ●Closed the SMS messages function	●Install SIM card ●Cancel the password of SIM ●Change place of alarm panel to test signal ●Change other SIM for trial ●Make sure voice calling and SMS messaging are enabled ●Re-fill the SIM card deposit ●Open the SMS messages function
●Can not long-distance operation	●Password input wrongly	●Retry password or reset password
●No record indication when alerting	●Voice message not recorded	●Record voice message
●Remote controller out of order	●Coding unmatched with the panel ● Insufficient battery power ● Battery pieces poor contact or corroded ●Voltage unmatched with panel	●Re-learn the remote control ●Change battery to correct type ●Polish the surface of contact of battery ●Contact the local dealer to change the matched remote controller
●Infrared detector out of order	● Low power	●Change to the same type battery
●Siren without sound	●Siren plug or jack in short circuit or broken-line ● Plug line in short circuit ● Siren closed	●Repair or change plug or jack ●Change the jack line ●Set siren ringing time on the host
●The transmission distance of detector to panel shorten	● A nearby emitter is sending code ●Panel receiver stoppage ●Standby battery of the host insufficient	●Move one detector next to panel and try ●Identify the interfering source and eliminate it ●Check Panel power whether plugged well
●Host no voice prompt	●Closed the voice prompt functions	●Open voice prompt functions