G50 GSM alarm User Manual

Ver 1210 2008-12-10

Contents

1.Instruction

The alarm system adopts SMS data transmission and voice platform of GSM network to send control command and receive alarm remotely, which is designed for house, office, supermarket etc indoor use. It will call & send alarm SMS to user cellphones immediately when any sensor is triggered. The system can also be used as handfree mobile phone for two-ways communication.

The LCD on the alarm Main unit can show the time, data, operation guide, alarm details and status of arm, disarm, GSM signal, power etc. With the LCD, all the operation and program are visual and intuitive.

The system with human kind voice guide and can be recorded into all different kinds of languages and work well all over the world. The low-voltage warning for sensors and door/window opened reminder make use more friendly. The function in details as follows.

1.1 Function & Feature

● Color LCD screen, keypad with blue background light

● Maximum 4 wireless panic buttons, 4 wireless fire detectors,

16 remote controllers, 32 wireless intruder detectors.

● Maximum 8 wired zones. Zone 1 and zone 2 for wired door/window magnetic contact, which will remind you if the door/window is open.

● Send alarm SMS to 5 preset mobile phone No.

● Auto dial 5 preset user phone No.

● Forward mobile company SMS to user automatically.

● Work with monitoring center, such as police station.

● One relay output control DVR/Home appliance remotely.

● Sensors low voltage reminder

● Learning code for wireless accessories

● Voice operation reminder.

● Recording voice

● Three level password management.

● With independent partial arm function

● Zone classification prevent inside thieves effectively.

● Two fixed arm time, two fixed disarm time and one fixed partial arm time

● 2^{20} wireless address encode reduce the rate of same code greatly.

● SMS control & program

● SMS modifies wireless zones name.

● Arm/disarm by keypad, remote controller, phone or SMS

● Call the main unit to listen in status whenever.

● Internal MIC or external high sensitivity MIC (optional)

● Internal GSM antenna or external antenna(optional)

● Main unit with tamper switch

● External power failure alarm.

● Entry delay alarm

● Two-way communication

● Handfree mobile phone.

1.2 Specification
Main unit

1) GSM frequency

900/1800MHz, 850/1900MHz (optional)

2) External power failure alarm

Start-time: less than 5s

3) Alarm response time

Less than 10s (GSM in normality)

4) Delay arm time: 30s

5) Power

Power requirement:AC110-220V 50Hz or 60Hz; DC9V

Working power consumption：less than 3W

Standby battery:DC7.4V, 700MAH

Standby battery working hours: more than 10 Hours

6) Working conditions

Operating temperature:-20℃ ~ 60℃

Humidity:20% to 95%

Accessories:

1)Remote controller

Power Requirement:DC12V

Transmitting Freqency:315±0.2Mhz/433±0.2Mhz

Transmit Distance:more than 80m   (no obstacle)

Coding type: Learning code.

Lifespan of battery:half year (trigger 20 times everyday)

2)Wireless Door/window magnetic contact

Power requirement:DC=12V-8.4V(23A DC=12V battery inside)

Wireless Freqency:315±0.2Mhz/433±0.2Mhz

Transmit Distance:more than 80m (no obstacle)

Coding type:Learning code.

Lifespan of battery:half year (trigger 20 times everyday)

Low voltage reminder value:≤10.5V

3)Wireless PIR motion sensor

Power Requirements:DC9V

Wireless Freqency:315±0.2Mhz/433±0.2Mhz

The largest coverage:12*12m

Visual Angle:110°

Bracket Adjustable Angle:-45° to +45°(Horizontal line)

Bracket Adjustable Angle:-15° to +45°(Vertical line)

Coding Type:Learning code

Lifespan of battery:half year (trigger 20 times every day)

Low voltage reminder value:≤2.2V

Siren

Power Requirements:DC12V

Volume:More than 110db

Color:black

1.3 Standard packing list

Main unit x 1

GSM antenna x 1

Remote control x 2

Wireless door/window magnetic contact x 1

Wireless PIR sensor x 1

Wired siren x 1

AC/DC adapter x 1

User manual x 1

Optional wired & wireless accessories

Door/window magnetic contact

Magnetic steel scrolling door sensor

PIR motion sensor

Curtain PIR sensor

Ceiling PIR sensor

Vibration sensor

Smoke sensor

Gas sensor

Glass break sensor

Remote control

Panic button

Speaker
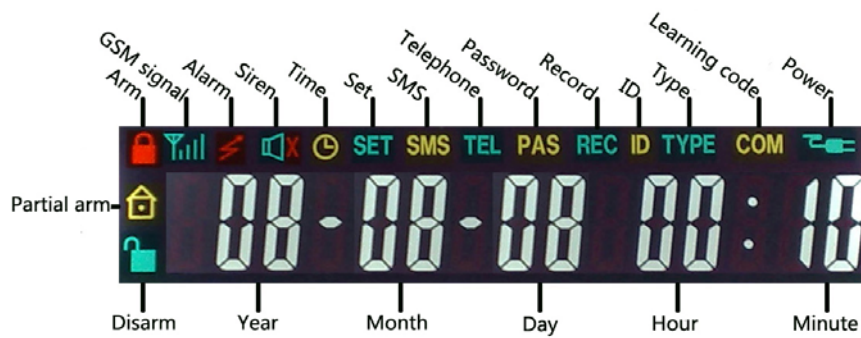
External high sensitivity MIC

Infrared Beam detector

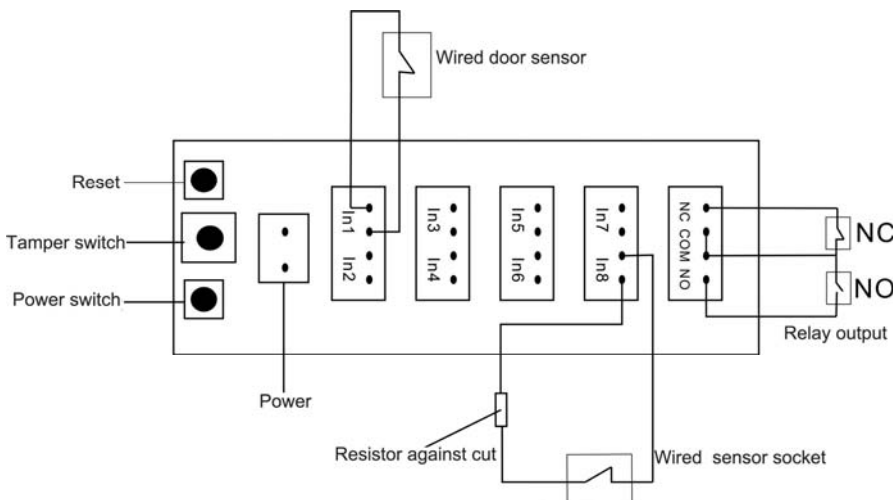Infrared Fence detector etc

Optional sirens

Wired & wireless indoor siren & strobe siren

Wired & wireless outdoor strobe siren

1.4 Main unit layout

Main unit back:

2. Installation

2.1 Install main unit

a) Insert a valid SIM card into main unit

Note: Make sure the SIM card is valid.

b) Install the GSM external antenna

Note: The main unit with internal antenna itself and external antenna available.

c) Fix and hide main unit

2.2 Install accessories
2.2.1 Install the door/window magnetic contact
The principle of door/window contact sensor
The door/window magnetic contact includes two parts. The sensor will send the wireless signal to main unit immediately when the two parts depart more than 15-30mm.
The picture of the installation is as follows,
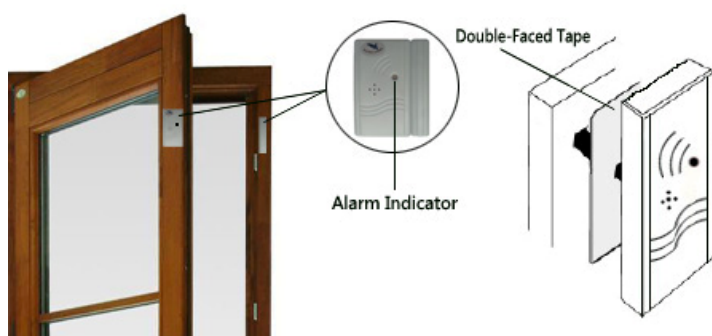
In some circumstances the wired & wireless Infrared Fence detector is more appropriate than magnetic sensors. i.e. veranda, picture window balcony, boundary wall.

Wired or wireless glass break detector can also be used for window (see below)

The sensitivity is adjustable

Wireless scroll steel door magnetic sensor for scrolling steel door,

Installation: Please see below picture

It is triggered when the two parts are separated to 3cm - 5cm.
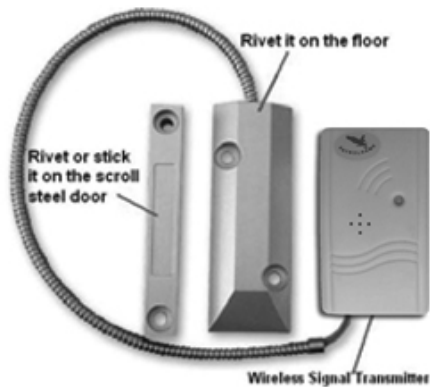
2.2.2 Install PIR motion sensor

PIR refers to passive Infra-red. A Passive Infra-red Sensor is an electronic device that detects the motion or movement of some person or animal by sensing the heat emitted from the body.

Installation:
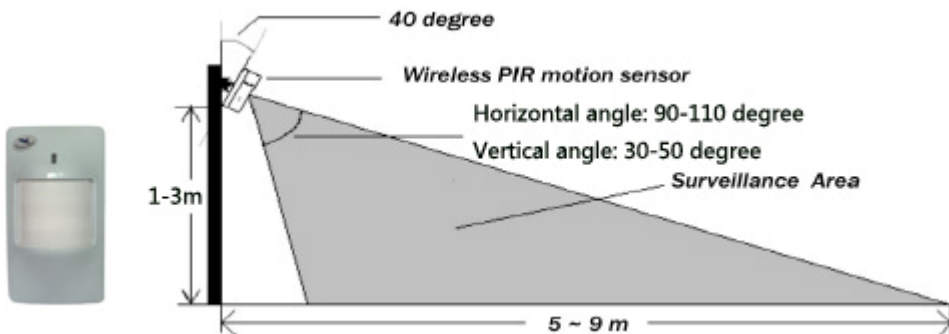
The installation of wireless ceiling PIR sensor
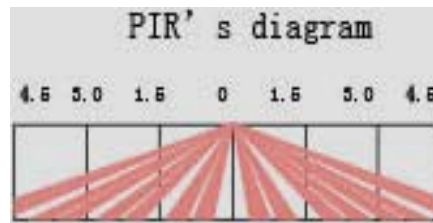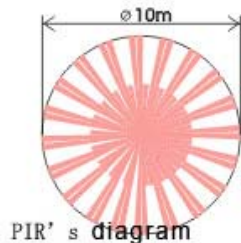
2.2.3 Install smoke/gas detectors

a) Wired or wireless smoke detector

This smoke detector detects smoke by a couple of infrared diodes, which is suitable for detecting the smoke in house, shop, hotel, restaurant, office building, school, bank, library and storehouse etc.
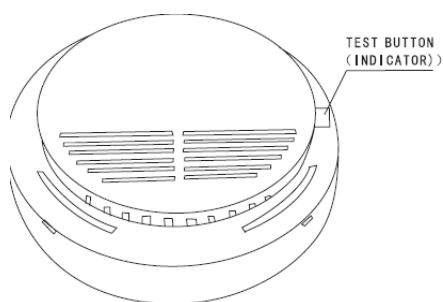
b) Wired or wireless gas detector

The product is ceiling mounted gas detector with high stability. It is used for detecting leaking gas and suitable for the safety of residential house, villas, hotels, boarding house etc.

Detecting the gas heavier than air: installation height from floor: 0.3m ~ 1.0m, semi-diameter to gas sources: ＜ 1.5m; detecting the gas lighter than air: installation height from ceiling 0.3m ~ 1.0m, semi-diameter to gas sources: ＜ 1.5m.
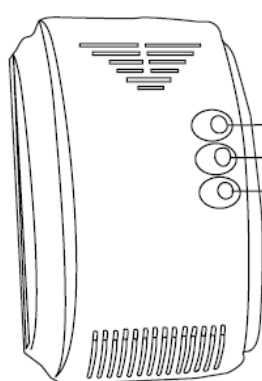
Open or close manipulator /Test button
Power LED (green)
Working LED
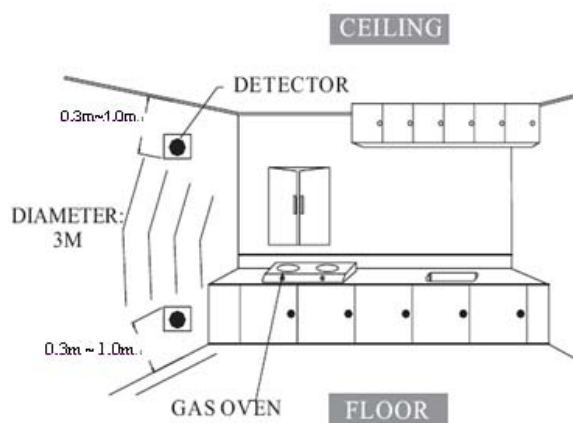
3. Operation steps

3.1 Turn on

Make sure that the power supply is connected correctly, and turn on the main unit power switch. It will search the GSM network automatically within 25 seconds after it is started. Then the LCD display turns on and shows the model No. and the status of arm, disarm, GSM signal etc. GSM network is normal when LED indicators under the disarm button flash regularly. When the external power is normal, the LCD background light keeps on. If there is no external power, it is off automatically after operation.

3.2 keyboard setting

Note: When setting by the keyboard, every time you press the button you will hear "di" sound for confirmation. Please press it again if there's no voice. Press "CLS" button before inputting "OK" to cancel the input numbers. If the LCD display shows "FAIL", check and reset it.

3.2.1 Password verification

Press "*SET*", input password + *OK*, then you will hear "di,di" sound for confirmation. While "SET" and "SMS" appear on LCD display, it means that the password is correct.

Total three level password protection

Level	Type	Factory Password	Functions
1	Administrator Password	1234	Authorized to operation all. E.g. set, disarm, inquiry, remote control etc.
2	Disarm Password	5678	Only for disarm
3	Inquiry Password	9012	Only for check whether the program is correct or not.

3.2.2 Set/delete/check five mobile phone numbers for SMS alarm.

a) Set the mobile phone number

After passing the verification of administrator password, press *"SET" button*, when "SET, SMS" appears on the LCD display, input: N + mobile phone number + *OK*

Note: N stands for 1, 2, 3, 4, 5.

One of them can be for monitoring center.

Max 18 digits of phone numbers

Example: Set 1368888888 as the first SMS receiving mobile phone number, input: 1+ 1368888888 + *OK*, then two sounds of "di, di" for confirmation.

According to the method, you can finish the setting of the other four mobile phone numbers.

b) Delete the mobile phone number

Input: N + "OK" for cancel.

c) Check the mobile phone number

Input: N + check , the programmed phone numbers will appear on the LCD for check.

3.2.3 Set/delete/check five phone numbers for call alarm

a) After passing the verification of administrator password, press *"SET" button,* when "SET, TEL" appears on the LCD display.

Input: N + phone number + *OK*

Note: N stands for 1, 2, 3, 4, 5

The phone number can be mobile phone or telephone (Max 18 digits)

Example: Set 1368888888 as the first alarm call receiving phone number, input: 1 + 1368888888 + *OK,* then two sounds of "di, di" for confirmation.

b**)** Delete the phone number

Input: N + *OK* for cancel

c) Check the phone number

Input: N + check, the programmed phone numbers will appear on the LCD for check.

3.2.4 Set/delete/check one SMS forwarding phone number

The messages from the pre-set phone number can be forwarded to the first alarm SMS receiving phone number. Recommend users to set the mobile company phone number so that users can know the SIM card status of main unit timely to make sure normal communication.

a) After passing the verification of administrator password, press *"SET" button,* when "SET, SMS" appears on the LCD display.

Input: N + phone number + *OK*

Note: N stands for 6

Example: The mobile company phone number is 10086,

The preset first alarm SMS receiving phone No. is 1368888888

input: 6 + 10086 + *OK,* then two sounds of "di, di" for confirmation.

When the mobile company sends a SMS of "Your mobile no enough money, please charge soon", the message will be forwarded to 1368888888 automatically.

Note: The phone No. can be deleted and checked as per the point b) & c) of 3.2.2/ 2.2.3

3.2.5 Record voice

After passing the verification of administrator password, press *SET*, when "SET, REC" appear on the LCD display, press "OK" to begin the 9 seconds record. The main unit LCD starts to count down and exits automatically in 9 second. Press "CHECK" to play the record.

3.2.6 Change password

After passing the verification of administrator password, press *SET*, when "SET, PAS" appears on the LCD display, operate as below

Level	Type	Factory password	Changing command	Check new password
1	Administrator Password	1234	1 + new password + OK	1+ check
2	Disarm Password	5678	2 + new password + OK	2 + check
3	Inquiry Password	9012	3 + new password + OK	3 + check

Example: Set 4321 as the new administrator password.

Input: 1 + 4321 + "OK", then you will hear "di, di" sound for confirmation.

3.2.7 Change ID

After passing the verification of administrator password, press *SET*, when "SET, ID" appears on the LCD display, input: six new ID numbers + *OK*,

Note: the initial ID is 000000.

Example: Set 123456 as the new ID.

Input: 123456 + "*OK*", then two sounds of "di, di" for confirmation.

Press "check*"* to inquiry the new ID

3.2.8 Set data & time

After passing the verification of password, press *SET*, when "SET, ⏱" appears on the LCD display,

Input: * + year/month/day/hour/minute/second (each with two numbers) + *OK*, then you will hear "di, di" sound for confirmation.

Example: Suppose the present time is 12:13.05 and the date is 08-01-2007, input * + 070108121305+*OK*.

3.2.9 Set/cancel fixed arm/disarm/partial arm time

a) Timing arm

In arming status, press *SET*, when "SET, ⏱" appears on the LCD display,   then Input: N + time (hour/ minute) + *OK*. Two sounds of "di, di" will confirm the operation.

Note: N stands for 1 and 2, total two fixed time you can set.

Example: Set 16:08 and 22:30 as the auto arm time,

input 1 + 1608 + *OK*, and 2 + 2230 +OK. The Main unit will be armed automatically at 16:08 and 22:30.

For inquiry, press 1 + check and 2 + check

To cancel it, press N + 9999 + OK in arm mode.

b) Timing partial arm

In partial arm status, press SET, when "SET,⏲" appears on the LCD display, then input: # + time (hour/minute) + *OK*.

Note: Only one auto partial arm time can be programmed.

Example: Set 16:25 as the auto partial arm time, input # + 1625 + *OK*, then two sounds of "di, di" for confirmation. The Main unit will be in partial arm automatically at 16:25.

For inquiry, press # + check

To cancel it, press # + 9999 + OK in partial arm mode.

c) Timing disarm

In disarming status, press *SET*, when "SET, ⏲" appears on the LCD display, then input: N + time (hour/minute) + *OK*. Two sounds of "di, di" will confirm the operation

Note: N stands for 3 and 4, total two fixed time you can set.

Example: Set 19:25 and 7:30 as the auto disarm time, input 3 + 1925 + *OK*, and 4 + 0730 + OK. The Main unit will be disarmed automatically at 19:25 and 7:30

For inquiry, press 3 + check and 4 + check

To cancel it, press N + 9999 + *OK* in disarm mode.

3.3 Learning code

3.3.1 learn/cancel remote controller.

a) Learn remote control

After passing the verification of administrator password, press *"SET" button*, when "SET, COM" appears on the LCD display, input: 1 + N + OK, the LCD flashes, then trigger the remote controller immediately. It means successful learning when the LCD background light stops flashing. The learning time is 10s.

Note: N stand for 01, 02, 03, 04………16, total 16 remote controllers you can learn.

Example: learn first remote controller, input 101OK on keyboard of main unit.

b) Cancel remote controller.

After passing the verification of administrator password, press *"SET" button*, when "SET, COM" appears on the LCD display, input * + N + OK, the LCD will flash three seconds, then stop. The remote controller is deleted successfully. **Note:** N stand for 01, 02, 03, 04………16.

3.3.2 Learn/cancel wireless sensors

a) Learn wireless sensors

After passing the verification of administrator password, press *"SET" button*, when "SET, COM" appears on the LCD display, input: 2 + N + OK, the LCD flashes, then trigger the wireless sensor immediately. It is learnt successfully when the LCD stops flashing. The learning time is 10s.

Note: N stand for 01, 02, 03, 04………40, total 40 wireless sensors you can learn.

Zone 01 to 32 for common wireless sensors, such as wireless PIR sensor, door/window magnetic contact, glass break sensors etc.

Zone 33 to 36 for wireless fire alarm detectors, such as wireless smoke/gas detectors

Zone 37 to 40 for wireless emergency button

Example: learn first wireless PIR sensors, press 201OK on keyboard of main unit.

Learn first wireless smoke detectors, press 233OK

Learn the second wireless emergency button, press 238OK.

b) Cancel wireless sensors.

After passing the verification of password, press *"SET" button*, when "SET, COM" appears on the LCD display, input # + N + OK, the LCD will flash three seconds, then stop. The wireless sensor is deleted successfully. **Note:** N stand for 01, 02, 03, 04………40.

3.3.3 Cancel all the wireless sensors & accessories.

After passing the verification of password, press *"SET" button*, when "SET, COM" appears on the LCD display, input 999 +OK on Main unit keyboard, the LCD will stop to flash in 4s. All of them are deleted.

3.4 Connect wired sensors

3.4 Exit setting

In the setting mode, press *"ESC"* to exit. The setting mode will exit automatically if no response within 15 seconds.

4. Zone classification

Total 40 wireless zones, each zone can only learn one wireless sensors.

01-28: common zones

01-24: can be programmed as independent partial arm zone (please see for details)

29-30: special zones

> *Only fifteenth remote controller can arm/disarm it,
>
> * Only send alert to the preset forth alarm receiving phone number.
>
> * The fifteenth remote controller can control 01 to 28 and 29, 30.

31-32: special zone

> *only sixteenth remote controller can arm/disarm it.
>
> *only send alert to the preset fifth alarm receiving phone number.
>
> *The sixteen remote controller can control 01 to 28 and 31, 32

33-36: 24 hours (full day arm) fire alarm zone specially for wireless gas/smoke detectors.

37-40: 24 hours (full day arm) emergency zone specially for wireless panic button.

Example:

CEO room Zone 29	GM Room Zone32	Financial dept Zone 01	Personnel dept Zone 02	Marketing Dept 03
Customer service Dept zone 04	R & D dept zone 05	Engineering dept zone 06	Shipping dept zone 07	Purchasing dept zone 08
Ware house 09	Production dept 10			

CEO with 15th remote controller,

General Manager with 16th remote controller.

Financial dept zone 01 is programmed as independent partial arm zone.

Personnel dept with 02 remote controller.

*CEO arm/disarm 15st remote controller, all the zone is armed/disarmed except for zone 32 and zone 01

*General manager arm/disarm 16th remote controller, all the zones are arm/disarm except for 29 and zone 01.

*Personal dept arm/disarm 2nd remote controller, all the zones are armed/disarmed except for zone29, 32, 01,

* Financial dept is independent partial arm zone, only SMS can arm/disarm it.

*CEO room is triggered, only send alert to the forth pre-set phone No quietly.

*General manager is triggered ,only alert to the fifth pre-set phone No. quietly.

Zone classification solution can prevent inside thief infectively.

5. SMS control command

5.1 Set/delete five mobile phone numbers for SMS alarm.

a) Set the mobile phone No.

SMS format: four digits of password + DS + N + mobile phone number.

Note: N stands for 1, 2, 3, 4, 5

　　　　One of them can be for monitoring center.

Example: Set 1388888888 as the first SMS receiving mobile phone number. The Main unit's password is 1234.

Send SMS: 1234DS11388888888

b) Delete the mobile phone No.

SMS format: four digits of password + DS + N.

5.2 Set/delete five phone numbers for call alarm

a) Set the phone No.

SMS format: 4 digits of password + DT + N + phone number.

Note: N stands for 1, 2, 3, 4, 5; The phone No. can be telephone or cellphone

Example: Set 01088888888 as the first phone number for auto-dialing alarm. The Main unit's password is 1234.

Send SMS: 1234DT101088888888

b) Delete the phone No.

SMS format: four digits of password + DT + N.

5.3 Set/delete one SMS forwarding phone number

The messages from the pre-set phone number can be forwarded to the first alarm SMS receiving phone number. Recommend users to set the mobile company phone number so that users can know the SIM card status of main unit timely to make sure normal communication.

a) Set the phone No.

SMS format: 4 digits of password + DS + N + phone number.

Note: N stands for 6; The phone No. can be telephone or cellphone.

Example: The mobile company phone number is 10086,

　　　　　The preset first alarm SMS receiving phone No. is 1368888888

　　　　　The password is 1234

Send SMS: 1234DS610086 to main unit

When the mobile company sends a SMS of "Your mobile no enough money, please charge soon", the message will be forwarded to 1368888888 automatically.

b) delete the phone No.

SMS format: four digits of password + DT + 6.

5.4 Change password

SMS format: 4 digits of password + DP + 4 new numbers for password

Example: The initial password is 1234, if you want to set 5678 as the new password,

Send SMS: 1234DP5678.

5.5 Arm/disarm

Arm by SMS: 4 digits of password +A1

Disarm by SMS: 4 digits of password +A2

Example: The Main unit's password is 1234. If you want to set the Main unit in arm mode.

Send SMS: 1234A1

5.6 Change zone's name

SMS format: 4 digits of password + DM + zone's code (2 digits) + changed name

Reply SMS: the new zone's name

Example: The password is 1234. If you want to change zone 06's name to be "PIR *alarm for bedroom"*.

Send SMS: 1234DM06 PIR alarm for bedroom

Note: Changed name should be less than 24 characters.

5.7 Set/inquiry/delete independent partial arm zone.

a) Set partial arm zone: Send the SMS to the main unit, the SMS is like this:

"Password" + "AA" + "Zone(01,02,03...23,24)"

The zone o1 to zone 24 can be set as independent partial arm zone.

B) Inquiry independent partial arm zone:

By the keypad: After passing the verification of password, press *SET*, when "SET, TYPE" appears on the LCD display, press "check". Then all the Alarm receiver numbers can receive a SMS,likes this:

Zone type;

01-A

02-A

...

12-

24-

The zone with the "A" is independent partial arm zone, the one without the A, just a gap isn't the partial arm zone.

By the SMS: Send the SMS to the mail unit, the SMS likes this;

"Password" + "AA"

Then the main unit   will send the SMS back to you about the independent partial arm zone.

C) Delete indepent partial arm zone;

Send the SMS likes this to the main unit

"Password" + "AD" + zone(01,02...24)

5.8 Inquire arm/disarm status

Send SMS: 4 digits of password + W1

Reply SMS: The Main unit's arm/disarm status

5.9 Inquire external power status

Send SMS: 4 digits of password + W2

Reply SMS: The Main unit's external power status

5.10 Relay output control

Send SMS: 4 digits of password + R1 (NC)

Send SMS:: 4 digits of password + R2 (NO)

Reply SMS: relay output NC or NO

## 6. Usage

6.1 Arm/disarm

a) Arm: Press "■" on remote controller or main unit, main unit will make "di" sound, the LCD display is on, "■" is twinkling. 30 seconds later, the main unit enters into arm mode and the "■" is on. Please press "⚡" on remote controller for immediate arm.

b) Partial arm: press "⌂" on remote controller or main unit, the main unit will make "di" sound, the LCD display is on. "⌂" is twinkling. 30 seconds later, the main unit enters into partial arm mode and "⌂" is on. Press the "⚡" on remote controller for immediate partial arm.

c) Disarm: Press "◪" on remote controller to close the system, the main unit enters into disarm status after it makes "di, di" sound and the " ◪ " is on.

Press "◪"on main uint keypad, the Main unit speak " please input password" (administrator password or Disarm password). It is disarmed when you hear "di". The "◪"is on all the time.

6.2 Handfree mobile phone

The main unit can be used as mobile phone.

a) Make a phone call

Press "*", the main unit LCD shows "TEL", then input: phone number + OK to make a call.

Press "ESC" to hand up the phone call. "CLS" clear the wrong numbers.

a) Answer the incoming call.

The main unit voice " di di" when there is a incoming call. Press "OK" to answer it , ESC button   hand up the phone call.

6.3 Door/window open reminder

The LCD show " Door/window is open" with voice warming when user arm it if the door/window in wired zone 1 and zone 2 is not closed.

6.4 Low voltage reminder for sensors.

The main unit sends SMS of " the sensors with no voltage" to first SMS receiving mobile phone , and the LCD show"DAT   LO number"with voice warming to remind of users change battery. And if any sensor is low voltage, the G50E will send a message to the host every 24 hours.

6.5 Alarm and Handle

"⚡", "SMS", "TEL" and zones appear on the LCD display in alarm mode (P: external power failure, E: Emergency alarm, F: fire alarm, 01-32: wireless sensors alarm). The siren sounds loudly for 90 seconds to inform

the neighbors. At the same time, the system automatically sends SMS alert and auto-dial the preset phone numbers. The user can listen to the prerecorded voice warming and what happened in alarm area when any phone is answered and remotely operate as follow,

Press "1"-------------------the Main unit armed

Press "2"-------------------the Main unit disarmed

Press "3"-------------------drive siren

Press "4" ------------------close siren

Press "*"-------------------two way communication

Press "#"-------------------Stop to call the next phone numbers.

The system will auto-dial the next phone number if the phone line is busy or can't put through. It will stop to call the next one when somebody answer the phone and press "#". If nobody answers the phone, the system will stop dialing after auto-dialing circularly for three times.

6.6 Emergency alarm

Press "⚡" on remote control or the emergency button, the Main unit auto-dial the preset phone numbers and send SMS of "Emergency alarm" to ask for help.

6.7 External power failure alarm

When the system checks out that there is something wrong with the external power or the external power is off for more than 2 seconds, it makes alarm call immediately and send SMS of "External power failed". The system stops alarming immediately and send SMS of "External power is OK" when the power supply is OK.

6.8 Delay alarm setting

The zone 1 and zone 2 have this function.So zone 1 sensor and zone 2 sensor can be installed on the way from the door to the G50E machine.

With this function,the user enter the room,can have enough time to disarm the G50E.

Zone 1,send SMS;

12341D00

Zone 2 ,send SMS;

12342D00

1234 is the Administrator Password,

00 is the delay alarm time.It can be 00 seconds,15 seconds,30 seconds,45 seconds.

So you can send these messages to set up this function12341D00,12341D15,12341D30,12341D45.

If you set up this function,you enter the room,can hear the sound "DI DI DI DI DI"..."DI DI DI DI DI",until you disarm the system.

7. Events record/History record

A) After passing the verification of password, press *SET*, when "SET, 🔇 " appears on the LCD display.Press

"00(01,02,03...32)" + "check".Then you can the see the message on the display likes this;

"A0" + "09" + "02" + "08" + "13" + "20"

A0 is the code for the event.

09 is the year.

02 is the month

08 is the day

13 is the hour

20 is the minute

00,01,02 ...32 is the order of the event.

B) The code for the events;

FF	invalid event
71	arm by the keypad
72	arm by SMS or TEL
73	disarm by the keypad
74	disarm by SMS or TEL
75	partial arm by keypad
76	power off
77	power on
7F	turn on the G50E

80	partial arm by first remote controller
81	partial arm by second remote controller
82	partial arm by third remote controller
83	partial arm by 4th remote controller
84	partial arm by 5th remote controller
85	partial arm by 6th remote controller
86	partial arm by 7th remote controller
87	partial arm by 8th remote controller
88	partial arm by 9th remote controller
89	partial arm by 10th remote controller
8A	partial arm by 11th remote controller
8B	partial arm by 12th remote controller
8C	partial arm by 13th remote controller
8D	partial arm by 14th remote controller
8E	partial arm by 15th remote controller
8F	partial arm by 16th remote controller

90	arm by first remote controller
91	arm by second remote controller
92	arm by third remote controller
93	arm by 4th remote controller
94	arm by 5th remote controller
95	arm by 6th remote controller
96	arm by 7th remote controller
97	arm by 8th remote controller
98	arm by 9th remote controller
99	arm by 10th remote controller
9A	arm by 11th remote controller
9B	arm by 12th remote controller
9C	arm by 13th remote controller
9D	arm by 14th remote controller
9E	arm by 15th remote controller
9F	arm by 16th remote controller

A0	disarm by first remote controller
A1	disarm by second remote controller
A2	disarm by third remote controller
A3	disarm by 4th remote controller
A4	disarm by 5th remote controller
A5	disarm by 6th remote controller
A6	disarm by 7th remote controller
A7	disarm by 8th remote controller
A8	disarm by 9th remote controller
A9	disarm by 10th remote controller
AA	disarm by 11th remote controller
AB	disarm by 12th remote controller
AC	disarm by 13th remote controller
AD	disarm by 14th remote controller
AE	disarm by 15th remote controller
AF	disarm by 16th remote controller
01	wireless zone 1 alarm
02	wireless zone 2 alarm
03	wireless zone 3 alarm
04	wireless zone 4 alarm
05	wireless zone 5 alarm
06	wireless zone 6 alarm
07	wireless zone 7 alarm
08	wireless zone 8 alarm
09	wireless zone 9 alarm
0A	wireless zone 10 alarm
0B	wireless zone 11alarm
0C	wireless zone 12 alarm
0D	wireless zone 13 alarm
0E	wireless zone 14 alarm
0F	wireless zone 15 alarm
10	wireless zone 16 alarm
11	wireless zone 17 alarm
12	wireless zone 18 alarm
13	wireless zone 19 alarm
14	wireless zone 20 alarm
15	wireless zone 21 alarm
16	wireless zone 22 alarm
17	wireless zone 23 alarm
18	wireless zone 24 alarm
19	wireless zone 25 alarm
1A	wireless zone 26 alarm
1B	wireless zone 27 alarm
1C	wireless zone 28 alarm

1D	wireless zone 29 alarm
1E	wireless zone 30 alarm
1F	wireless zone 31 alarm
20	wireless zone 32 alarm
21	fire zone 01 alarm
22	fire zone 02 alarm
23	fire zone 03 alarm
24	fire zone 04 alarm
25	emergency zone 01 alarm
26	emergency zone 02 alarm
27	emergency zone 03 alarm
28	emergency zone 04 alarm
29	door or window zone 01 alarm
2A	door or window zone 02 alarm
2B	door or window zone 03 alarm
2C	door or window zone 04 alarm
2D	door or window zone 05 alarm
2E	door or window zone 06 alarm
2F	door or window zone 07 alarm
30	door or window zone 08 alarm
31	tamper switch alarm

Operation Cautions

1.The equipments are not water-proof, not suitable for outdoor use.

2.Install the system in a hidden place.

3.Turn off the power supply before insert/take out the SIM card.

4.Connect the power supply firmly and provide good heat dissipation.

5.Don't install the system close to the objects which generate strong magnetic interference, such as TV set and computer.

6.Check all the detectors and their battery in time and change them when voltage is low.

7.Check the GSM alarm system regularly.