

Multi-function LCD

GSM Alarm System

User Manual

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Dear users,

We thank you for using our product. Please read through this manual before your operation.

The GSM alarm system is a brand-new home alarm control system integrating the security of home, grocery, office, household management with the remote monitor of your private car by adopting the updated GSM network and digital signal processing technology, which is widely used in security field. Because of this, wireless alarm control and remote control becomes a reality, also, the limitation of wired data transmission via wired network has been broken.

With unique outer design, convenient installation, easy operation by wireless control keyboard designed with people-oriented idea, which will make you feel more easy and comfortable.

"People orientation, technology priority" is our business philosophy. To customer satisfaction is our consistent pursuit.

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1. Instructions

The alarm system adopts SMS data transmission and voice platform of GSM network to send control command and receive alarm remotely, and delayed-arm function can be set . When a signal is detected by detectors, the detectors will send alarm signal to host immediately, then the host sends alarm SMS to its preset mobile phone numbers, and meanwhile dials the preset telephone/mobile phone numbers automatically and drive wiretap. In addition, the color LCD can show the time, date and the status of arm, disarm, GSM signal, power, alarm, etc.

The specific functions are as follows:

1. Auto detects doors or windows are closed or not
2. Built-in SIMCOM, GSM module (SIM300 or SIM340)
3. With color LCD screen & keyboard on the host.
4. Total 24 wireless zones, 1 zone for SOS, 1 zone for fire, 1 zone for external power failure, 2 zones for wired alarm.
5. Send SMS to 3 preset mobile numbers & call 3 preset telephone numbers by turns while alarm triggered.
6. 10 seconds recording function when alarming, and support monitor & intercom.
7. Arm/disarm/partial arm/partial disarm by keyboard, remote controller, SMS or remote telephone/mobile phone.(Notes: Disarm by keyboard needs password)
8. Timing control arm/partial arm/disarm.
9. Program alarm host by keyboard or SMS.
10. Modify the content of 26 wireless zones or inquire the status of alarm host by SMS demand.
11. Define the 26 wireless zones into arm/partial arm by keyboard on alarm host.
12. Backup rechargeable battery available.
13. The alarm host automatically stores system status whenever there is power failure.
14. Can work with monitoring software centre
15. Check host's status by SMS

Specifications:

- a) GSM frequency: 900/1800/850/1900MHz (Optional)
- b) Alarm mode: SMS data transmission & voice platform
- c) Stand-by power consumption $\leq 0.6W$
- b) SMS reminding whenever there is external power failure.
- e) Alarm response time: less than 8s (GSM in normality)
- f) The volume of siren: more than 110db
- g) Standby battery: DC 8.4V (Lithium battery)
Standby battery working hours: more than 15 hours
- h) Working conditions
Working temperature: $-10^{\circ}C \sim +55^{\circ}C$

Humidity: ≤ 95% (no condensation)

i) Dimension: 170mm (Long) × 118mm (Wide) × 40mm (High)

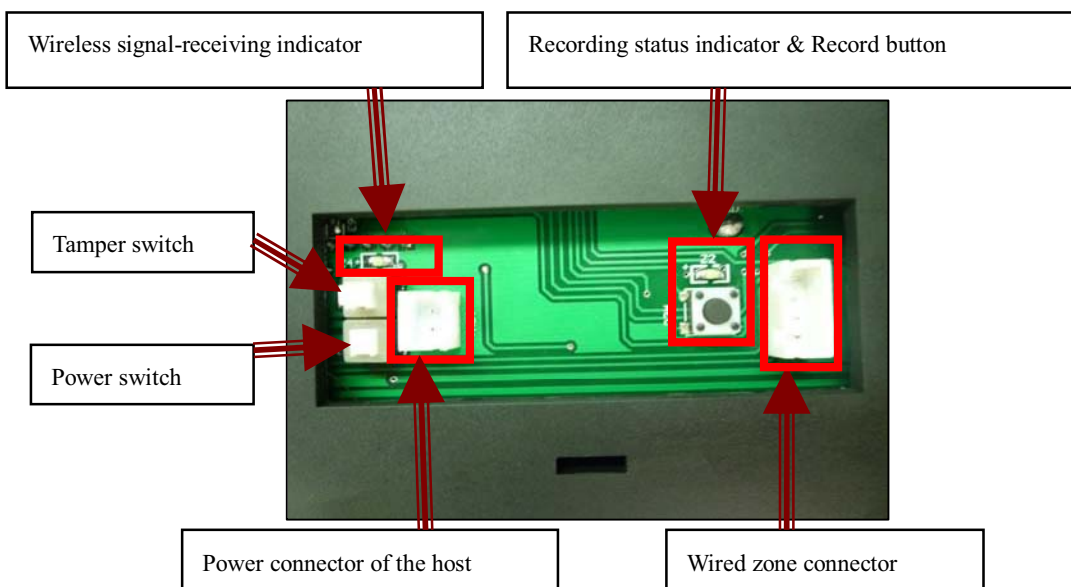
2. Installation

2.1 Diagram of main units in the very front of alarm host:





1. Switch to position B, the build-in speaker & the bug will work.
2. Switch to position A, the external speaker & the bug will work.
3. Switch to position C, the build-in speaker & external bug will work.



2.2.1 How to insert SIM card

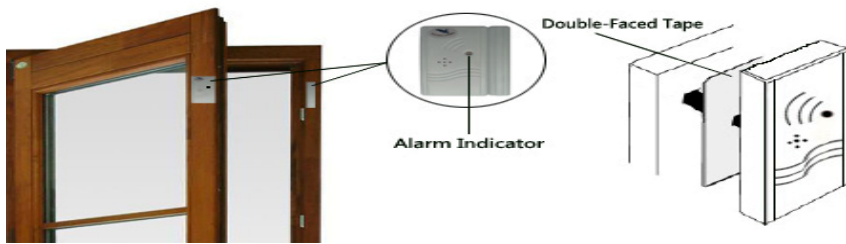
Valid SIM card is a must before your installation due to the alarm host works with GSM wireless alarm system & voice data transmission platform of GSM network to send control command and receive alarm information remotely.

Before installation, valid SIM card & power off are a must, then, open up the cover of SIM card slot to insert it.

How to install door/window magnetic contact?

The door/window magnetic contact includes two parts. The sensor will send the wireless signal to alarm host worked with immediately when the gap of two parts are more than 15-30 mm.

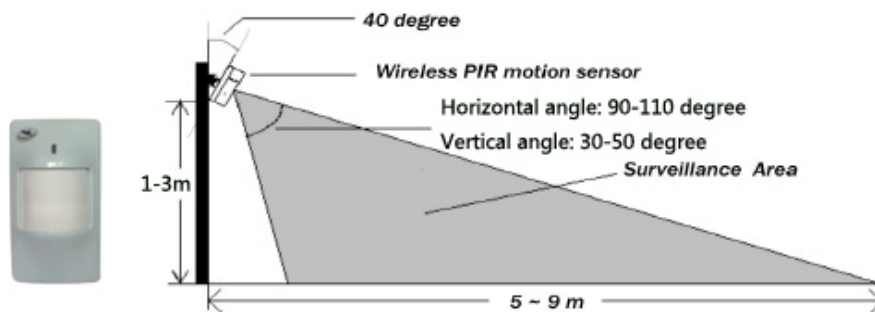
The picture of installation is as follows,



PIR sensor:

Passive infra-red sensor is an electronic device that detects the motion or movement of living objects by sensing the heat emitted.

Installation details:



2.2.2 Wired alarm zones

Alarm host has two wired alarm zones which display 25, 26 on LCD screen (The way of connection please refers to IN1 IN2 on the alarm panel). Inserted

the 4P flat cable in standard package into the wired terminal, the neighboring two lines will form a wired zones.

The factory setting is NC alarm. (NO alarm refers to 3.17)

2.2.3 The anti-dismantling sensor of alarm host

The anti-dismantling sensor must be closely touched with the place where alarm host will be nestled, in this way, the anti-dismantling sensor will be in very high sensitive status. (LCD will display 55, siren will sound, and users will be reminded by SMS & auto-calling.)

2.3 Run when the power of alarm host will be in circuit.

Alarm host will automatically hunt GSM signal and log on the GSM network about 25 seconds when power is on featured with flashing indicator at every 3 seconds interval.

Retting time, the screen will show new time, the strength of GSM signal, arm or disarm status and "COM" blinking. LCD backlight will be off automatically whenever there is external power failure, however, LCD will be on whenever users are in the status of setting alarm, partial alarm, delay alarm,

keyboard setting included as well.

3. Operation steps

3.1 How to set alarm host via keypad?

Notes: When setting by keyboard, every time you press button you will hear “di” sound for confirmation, otherwise, please repress it. Press “CLS” button only to cancel numbers input. Please repeat your operation if LCD shows failure.

3.1.1 Password verification

Press “SET”, input password (four digits) + OK, then you will hear “di, di” sound for confirmation followed by “SET” & “SMS” on LCD display, which means that the password is correct.

Notes: The factory password is 1234 (must be four numbers).

3.1.2.1 How to set or cancel alarm-answering numbers?

a) Please press “SET” button after the success of password identification followed by “SET & SMS” reading on LCD display, then, input: serial number + alarm-answering phone/mobile number + OK

(Notes: The digits of alarm-answering phone numbers are not more than 20 digits.)

E.g.: Set 1368888888 as the first mobile phone number for SMS alarm.

Input: 1+ 1368888888 + OK, then you will hear “di, di” sound for confirmation.

Based on the same reason, you can finish the setting of other numbers.

Note: Serial number must be 1, 2, 3 and the number “1” stands for the first mobile phone number, and the like..

b) How to delete mobile phone number?

Input: serial number + “OK”, then you can cancel mobile phone numbers input.

3.1.2.2 How to check SMS-answering number?

Press “SET” button after the success of password identification followed by “SET, & SMS” reading on LCD display.

Input 1/2/3 + CHECK

3.1.3.1 How to set /cancel three phone numbers for auto-dialing alarm?

a) Press “SET” button after the success of password identification followed by, “SET & TEL” reading on

LCD display.

Input: serial number + phone number + OK

Example: Set 1368888888 as the first phone number for auto-dialing alarm.

Input: 4 + 1368888888 + OK, then you will hear “di, di” sound for confirmation.

Note: Serial number must be 4, 5, 6 and the number “4” is the first phone number for auto-dialing alarm.

The phone number can be either phone or telephone, but the digit length is not more than 20 digits.

b) How to delete auto-calling phone number?

Input: serial number + OK, then you can cancel it.

3.1.3.2 How to check auto-dialing alarm number?

Press “SET” button after the success of password identification followed by “SET, & TEL” reading on LCD display.

Input 4/5/6 + CHECK

3.1.4 How to set password of alarm host?

Press SET after the password identification followed by “SET & PAS” reading on LCD display,

Input: 7 + new password + OK,

E.g.: Set 4321 as the new password.

Input: 7 + 4321 + “OK”, then you will hear “di, di” sound for confirmation.

Note: The factory password is 1234 (must be four numbers).

3.1.5.1 How to set the ID code of alarm host?

Press SE after the success of password identification followed by “SET & ID” reading on LCD display.

Input: 0 + six new ID numbers + OK,

Note: the factory ID is 000000.

E.g.: Set 123456 as the new ID.

Input: 0 + 123456 + “OK”, then you will hear “di, di” sound for confirmation.

3.1.5.2 How to check the ID code of alarm host?

Press SET after the success of password identification followed by “SET, & ID” reading on LCD display, press the button CHECK

3.1.6 How to set whether there is SMS reminding function for arm/disarm via remote control or keypad?

Press *SET* when the success of password identification followed by "ID" reading on LCD display, input 9 + OK, then you will hear "di, di" sound for confirmation.

3.1.7 How to set NC/NO for wired zones alarm?

Factory setting is NC alarm, otherwise, please refers to following steps:

Press "SET" when the success of password identification followed by SET & ID reading on LCD display and then, press "8" +OK

Repeat operation for shifting NO/NC alarm.

3.1.8 How to set partial zones (zone 1 to zone 8 only)?

Press "SET" after the success of password identification followed by "SET & TYPE" reading on LCD display,

Input: # + zone numbers(1-8) (Whenever there is illegal intruder, the zones will alarm in partial arm mode) + "OK"

Example: set zone 4, 6, 8 as alarm zones in partial arm mode, input # + 4 6

8 + OK, then you will hear "di, di" sound for confirmation. When alarming, zone 4, 6, 8 will alarm but other five zones will not alarm in partial arm mode.

Namely, you can disarm in some zones when you back home and others still keep in arm status

3.1.9 How to set the current time of alarm host?

Press "SET" after the success of password identification followed by "SET, ⊕" reading on LCD display,

Input: "*" + "0" + year/month/day/hour/minute/second (each with two numbers) + OK, then you will hear "di, di" sound for confirmation.

Example: suppose present time is 12:12:00", date is January 1st, 2007, input "*0070101121200"+OK.

3.2.0 How to set or cancel fixed-time arm, disarm, partial arm?

a) Fixed-time arm

Press "SET" after the success of password identification followed by "SET, ⊕" reading on LCD display, then Input: "*" + "1" + time (hour/ minute) + OK.

Example: Set 23:43 as the arm time, input "*" + 12343 + OK, then you will hear "di, di" sound for confirmation.

To cancel it, press "*" + 1+ 9999 + OK in arming mode.

b) Fixed-time partial arm

Press "SET" after the success of password identification followed by "SET, ⊕" reading on LCD display,

then input: * + 2 + time (hour/minute) + OK.

Example: Set 00:30 as the partial arm time, input "**20030" + OK, then you will hear "di, di" sound for confirmation.

To cancel it, press * + 2 + 9999 + OK in partial arm mode.

c) Fixed-time disarm/partial disarm

In disarming status, press *SET*, when "SET, ⊖" appears on the LCD display, then input: * + 3 + time (hour/minute) + OK.

Example: Set 09:30 as the disarm time, input "**30930" + OK, then you will hear "di, di" sound for confirmation.

To cancel it, press * + 3 + 9999 + OK in disarm mode.

d) Check the time of fixed arm/partial arm:

In "⊖" state, input CHECK

e) Set the time of alarm response

After setting, "⊖" will on and when the time come, timing arm/disarm/partial arm SMS will send.

3.2.1 Exit setting status

In setting status, the host will exit automatically if there is no any response within 15 seconds.

After setting successfully, press "ESC" to exit.

3.3 Recording

Press "REC", then the recording indicator "Z2" will be on and begin 10 -second record. When recording finishes, release the button, and then the indicator turn off and quit the recording state.

4. Control order via SMS

4.1 Set three mobile phone numbers for SMS alarm.

Input SMS: password in four digits + DD + serial number + mobile phone number.

Example: Set 1388888888 as the first mobile phone number for SMS alarm. The host's password is 1234.

Send SMS: 1234DD113888888888

Note: The serial number shows alarm sequence (must be 1, 2, 3 ,and the like).

4.2 Set three phone numbers for auto-dialing alarm

Input SMS: 4 numbers for password + DD + serial number + phone number.

Example: Set 010888888888 as the first phone number for auto-dialing alarm. The host's password is 1234.

Send SMS: 1234DD401088888888

Note: The serial number shows alarm sequence (must be 4, 5, 6, etc.).

4.3 Delete alarm phone numbers

Input SMS: 4 numbers for password +DD + serial number.

Example: The host's password is 1234. If you want to delete the first alarm phone number,

Send SMS: 1234DD1

Note: The serial number shows alarm sequence (must be 1, 2, 3, 4, 5, 6, etc.).

4.4 Change host's password

Input SMS: 4 numbers for password + DD +7 + 4 new numbers for password

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

Send SMS: 1234DD75678.

4.5 Arm/disarm

SMS for remote arm: 4 numbers for password +A1

SMS for remote disarm: 4 numbers for password +A2

Example: The host's password is 1234. If you want to set alarm host in arming mode.

Send SMS: 1234A1

4.6 How to change the name of zones?

Input SMS: 4 numbers for password + DM + zone's code (2 numbers) + changed name

Reply SMS: Changed zone's name

Note: The name of zone is from 1 to 6 characters, zone number should be two figures form 01 to 26

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: The contents of changed name should be less than 24 characters.

Zone's code: 01 to 08, each code with two numbers.

4.7 Inquire host's arm/disarm status

Input SMS: 4 numbers for password + W1

Reply SMS: The host's arm/disarm status

4.8 Inquire host's external power status

Input SMS: 4 numbers for password + W2

Reply SMS: The host's external power status

4.9 Open/close delay alarm function at 20 seconds

Open delay alarm SMS: 4 numbers for password + SD


Close delay alarm SMS: 4 numbers for password + CD


Notes:


There is no delay alarm when leaving factory, which means it will alarm immediately When alarm host receive alarm signal from detectors. If you want the host alarm After 20 seconds later when trigger, please edit the text message sent to the SIM Card within the host, the host will have a "tick" "tick" TWO tips response for confirmation.

5. User navigation


5.1 Arm/disarm/partial arm through remote controller

a) Arm: Press “

b) Partial arm: press “

c) Disarm: Press “

5.1.1 Disarm by keyboard on the host


In arming status, press "Disarm" button, when “SET,

Note: Keypad will become invalid when in alarm state.

5.1.2 Auto detect doors/windows are closed well or not.

When alarm host in delayed status, It will sound when delay arm or partial arm in the state of alarm from wired zone. LCD will read 1 or 2, means wired zone 1 or wired zone 2 cable input are not normal. (This can use for the wired windows/doors Magnetic Contact to check doors/windows close properly before go out)

5.2 Emergency alarm

In case of emergency, press “

5.3 External power failure alarm

Users will get SMS reminding whenever there is power failure more than 2 seconds and circularly calling trice, however, only SMS reminding to three numbers without any calling whenever there is power restoration.

5.4 LCD alarm instructions

In case of alarming, the LCD will display “

failure, "OE" means emergency call, "OF" means fire, 01-24 are wireless alarm zones, 25 & 26 both are wired alarm zones,55 for anti-tampering alarm).

5.5 The counter measures in case of alarming

The siren will sound loudly about 90 seconds to remind neighbors. At the same time, the system automatically sends SMS alert and auto-dial the preset phone numbers one by one circularly till answering it. The user can listen to the pre-recorded warning voice, then enter into monitoring status, which also supports intercom function. When users answer the alarm call, press any phone key to stop the alarm host from dialing the following preset alarm number.

The system will auto-dial the following phone number if the phone line is busy or can't put through. It will stop calling the next number when somebody answers the phone. If nobody answers the phone, the alarm host will stop dialing after auto-dialing circularly for three times.

5.6 Program wireless sensors to work with GSM alarm panel

Taking PIR motion sensor for example, open PIR, you will see picture below,

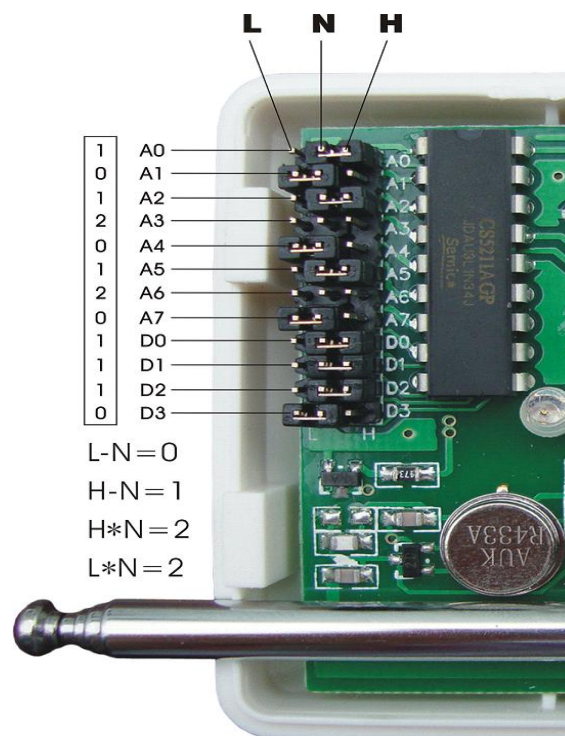
Make A0-A6 the same with GSM alarm panel, A7, D0-D3 are the zone code, please find the zone code in below table C.

Example, on the back of GSM alarm, there is a label reading wireless add 210210

The A6-A0 of PIR also should be 2102101

If you want to make it work in zone 1, A7, D0-D3 should be 01110

Make it work in zone 2, A7; D0-D3 should be 01001



6. Encoding the wireless detectors and remote control please refers to table C:

Name		Wireless address code of product (A0 to A6)	A7	D0	D1	D2	D3
Main unit		Label on the backside A0~A6	NC	NC	NC	NC	NC
Wireless keypad			NC	NC	NC	NC	NC
PIR sensor, Magnetic contact, Beam detector	Zone 01	A0~A6: Match with the wireless address code of the alarm host.	0	1	1	1	0
	Zone 02		0	1	0	0	1
	Zone 03		0	0	1	0	1
	Zone 04		0	1	1	0	1
	Zone 05		0	0	0	1	1
	Zone 06		0	1	0	1	1
	Zone 07		0	0	1	1	1
	Zone 08		0	1	1	1	1
	Zone 09		1	1	0	0	0
	Zone 10		1	0	1	0	0
	Zone 11		1	1	1	0	0
	Zone 12		1	0	0	1	0
	Zone 13		1	1	0	1	0
	Zone 14		1	0	1	1	0
	Zone 15		1	1	1	1	0
	Zone 16		1	0	0	0	1

PIR sensor, Magnetic contact, Beam detector	Zone 17	A0~A6: Match with the wireless address code of the alarm host.	1	1	0	0	1
	Zone 18		1	0	1	0	1
	Zone 19		1	1	1	0	1
	Zone 20		1	0	0	1	1
	Zone 21		1	1	0	1	1
	Zone 22		1	0	1	1	1
	Zone 23		1	1	1	1	1
	Zone 24		1	0	0	0	0
Smoke detector			0	0	1	1	0
Gas detector			0	0	1	1	0
Emergency button			0	0	0	0	1
Remark: "1"Request High level N connect with H "0"Request Low level N connect with L "2"No connect "NC"No request							

7. Operation tips:

- 7.1 Make sure alarm host has no water invading
- 7.2 System should be installed in some hidden places.
- 7.3 Turn off power supply before inserting/taking out the SIM card.
- 7.4 Power supply must be well connected with good heat dissipation.
- 7.5 Try not to install alarm panel close to objects which generate strong interference, such as TV set or computer.
- 7.6 Check all the detectors and their battery in time and change them when voltage is low.
- 7.7 Inspect the GSM alarm system timely.
- 7.8 This product is designed only for the indoor use.

Appendixes:

Operation navigation:

By following steps, users will operate it easily.

1. Open the SIM card cover with screwdriver and insert a valid SIM card. (Please see 2.2).
2. Make sure power supply is well connected and turns on the switch of alarm host. (Please see 2.3).
3. Set mobile phone/telephone numbers for SMS alarm and auto-dialing alarm. (For more details, please see 3.1.2, 3.1.3, 4.1, and 4.2).
4. Set time of the alarm host (for details, please see 3.1.7).
5. As per the operation instruction of page 13, encode the wireless detectors and remote control to match with that of alarm host, and allocate the detectors to wireless zones separately. Please make sure to record the corresponding zone number of each detector.
6. Set zone type (please see 3.1.6 for details.).
8. Change zone's name according to your needing (Please see 4.6 for more details).
9. Change the password of alarm host. (Please see 3.1.4 and 4.4 for more details.).
10. Set the time of arm/disarm as per your actual needs. (Please see 3.1.8 for more details)

For specific operation, please read through this manual carefully.