Program Item and Corresponding Operation Code

Code	Program Item		Code	Program Item
00	Ring Times		**19**	Wireless Zone Activate and Deactivate
01	The 1st group alarm receiving number		**20**	Automatic Time Calibration
02	The 2nd group alarm receiving number		**21**	Timing test report to center
03	The 3rd group alarm receiving number		**22**	Alarm type ***"PERIMETER"***
04	The 4th group alarm receiving number		**23**	Alarm type "***ROBBERY***"
05	The 5th group alarm receiving number		**24**	Alarm type "***STEAL***"
06	The caller number		**25**	Alarm type "***EMERG.***"
07	Report to center number when arm		**26**	Alarm type "***SMOKE/GAS***"
08	Report to center number when diarm		**27**	Alarm type "***OTHERS***"
09	Enter/Exit delay time		**28**	Alarm type ***"AID"***
10	The 1st group arm/disarm timer		**29**	All zones into ***"STEAL"***
11	The 2nd group arm/disarm timer		**Match Code**	Lean Code
12	Current time (24-hour)		**Check**	Alarm history check
13	Password		**Zone**	Partly Arm and Alarm type check
14	Electronic sand table activate or deactivate			Alarm Volume:Sound/Mute
15	Electronic sand table simulation test			Alarm Output: N/C and N/O optional
16	Year,Month,Date,Week			Wired Zone Short-circuit or Open/Short-circuit optional
17	Wireless Zone QTY Activate			Telephone Line Test On/Off optional
18	Clear All Wireless Zone Codes			

Ⅰ.Overview

HT-110B (6.1) GSM/PSTN Dual Network Burglar Alarm System is Contact ID compatibility alarm system, which adopts the advanced security technology, American-originated chipsets and Siemens industrial-grade GSM module. And it boasts its dual network to send alarm information out. When something wrong is on either network, this alarm system can switch automatically to the other one to send the alarm information out rapidly and accurately.

This GSM alarm system is composed of the alarm panel, sensor, remote control and door sensor. When alarm happens, if the landline telephone works well, the alarm system will send the alarm voice notification out by telephone network and send the alarm SMS through GSM network; while the landline telephone cannot work normally, the alarm system will use GSM network to send the alarm voice notification /SMS notification out. Besides, this alarm system can be compatible with Contact ID Communication Protocol.

Ⅱ.Main Function

(1) LCD Display; Perpetual Calendar; Keypad Operation
(2) 248-Wireless Zone; 8-Wired Zone
(3) Each wireless zone can be set as the emergency one.
(4) Supports dual networks (PSTN and GSM)
(5) Store/Check/Delete 6 groups of alarm receiving telephone numbers by SMS
(6) All the program items are under the password protection
(7) Supports arm/disarm the alarm panel by SMS with password protection.
(8) Periodic SMS notification for cell phone recharging
(9) Store/Inquiry/Delete alarm location by SMS
(10) The latest 2 pieces of alarm information available by SMS
(11) 7 alarm types available for your optional
(12) Be compatible with Contact ID Communication Protocol
(13) Supports 6 groups of alarm receiving numbers by PSTN network.
(14) 2 groups of timing arm/disarm time available
(15) Arm/Disarm by cell phone, remote control and keyboard operation
(16) Wireless zone can be activated or deactivated with accordance to your need
(17) Wholly Arm and Partly Arm for your optional
(18) Supports "***Black Box***" function to save alarm information
(19) Learn code for easy to add the additional sensors
(20) Enter/ Exit Delay time available
(21) Metallic and durable cases
(22) Built-in high capacity rechargeable battery (optional)

Ⅲ. Main Component

(1) **Metallic Cover**
(2) **LCD Screen**: It is used to show program items and other data.
(3) **Indicator explanation**

"***Alarm***" Indicator: It shines when alarm panel receives alarm signal and sound alarm.
"***Power***" Indicator: It shines when alarm panel is turn on.
"***L-power***" Indicator: It shines when the voltage is lower than 85% of rated one.
"***Programming***" Indicator: It shines when the "***PROG.***" switch is turn on, and then you can do the

program items.

(4) **Mic. Hole**: It is used for listen-in the locale.

(5) **Cover Lock**

(6) **Keyboard**: It is used to do program items and arm/disarm the alarm panel.

(7) **PCB**

(8) **Power Transformer**: It can transfer the AC 220V into DC 16.5 V.

(9) **Backup Battery**: It can support alarm panel when AC power is failure.

(10) **Terminal Explanation**

AC and AC: AC 18V input terminal ***(No need to distinguish polarity)***

BEL and GND: Siren terminal ***(BEL— "+"; GND— "-")***

12V: DC 12V/300mA power output terminal

18-24V: DC 12V/300mA power output [HT-110B (6.1K)]

B1 and GND: Zone 1 (You should take short-circuit off when using it)

B2 and GND: Zone 2 (The same as above)

B3 and GND: Zone 3 (The same as above)

B4 and GND: Zone 4 (The same as above)

B5 and GND: Zone 5 (The same as above)

B6 and GND: Zone 6 (The same as above)

B7 and GND: Zone 7 (The same as above)

B8 and GND: Zone 8 (The same as above)

BUS：BUS module signal input terminal

NO/NC and COM: Alarm output (Normal Close/Normal Open) optional by jumper

L1 and L2: Telephone line terminal, no power polarity

T 2 and T2: Telephone terminal

(11) PROG. Switch (On/Off): When only the "***PROG.***" switch is turn on, you can do the program items; otherwise, you cannot do any program items except for arm/disarm the alarm panel by cell phone and check alarm information.

(12) MIC. Hole: You can aim to it to record alarm language segment.

(13) Rec. Button: When you hold on these two "***Rec.***" buttons at the same time and the Recording indicator shines, you can record alarm language of 20 seconds.

(14) Recording Indicator: When you hold on the "***Rec.***" button, the indicator shines and you are able to record the alarm language segment; when you release the button, the indicator is off, which means that you can't continue recording.

(15) Replay Button: You can press this button to replay the alarm language segment.

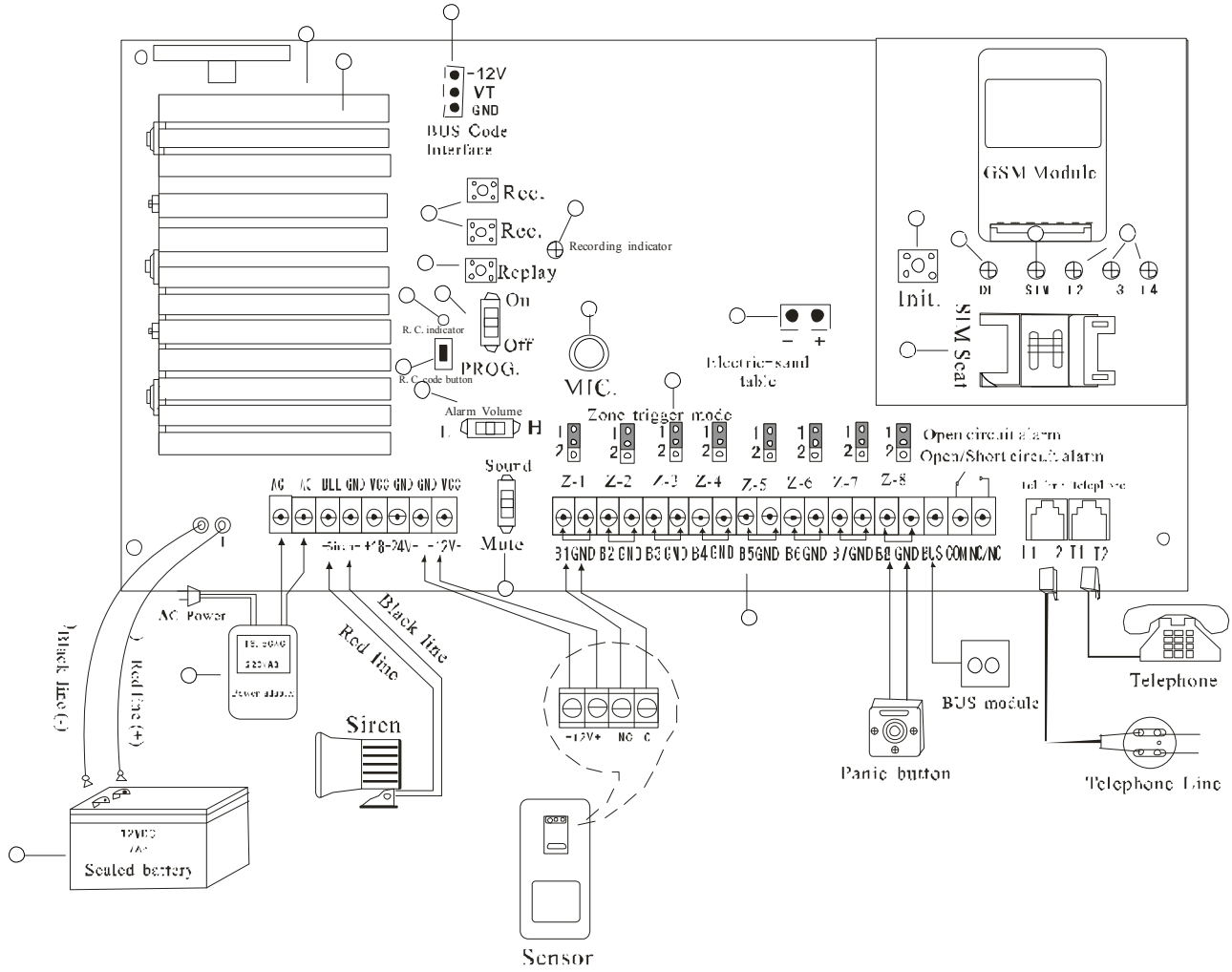
(16) Alarm Volume: When the switch is at "***L***", the alarm volume is low; While at "***H***", the alarm volume is high

(17)Heat Sink: It is used to dissipate heat of stabilivolt ***(Note: it is very normal for the radiator to become hotter when the battery is recharged)***

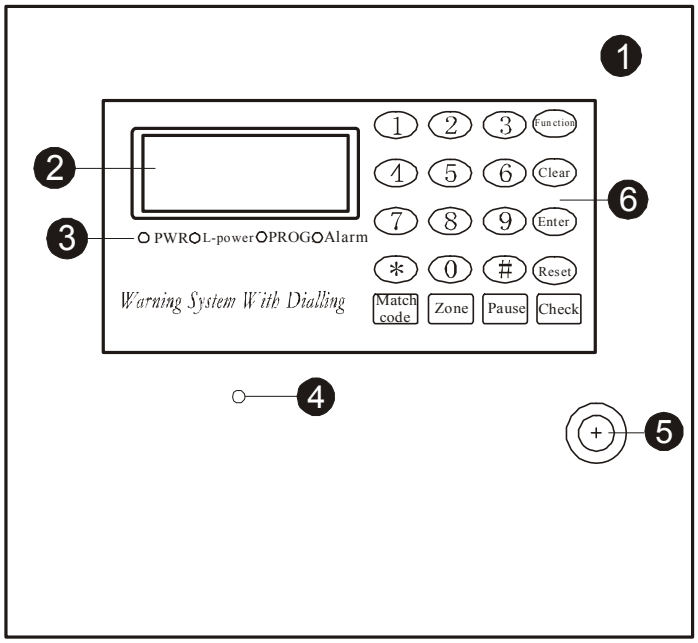
(18)"Sound/ Mute" Switch: When the switch is at "***Sound***" place, the alarm whistle will sound in the spot. And when at "***Mute***" place, the alarm panel still sends the alarm information out in spite of no alarm whistle in spot.

(19)"Zone-trigger Jumper": It is used to choose the alarm burst mode of wired sensors. The zones from the 1st to the 8th are open-circuit alarm when produced originally .But if you want them to be short/open-circuit alarm, you can put jumper into "". （at place "2"）

(20)Electric-sand Table: It is for the linkage devices for comprehensive alarm system.
(21)BUS Code Interface: It is very easy for BUS module to match code with alarm panel.
(22) SIM Seat: It for SIM Card
(23)"Init." Button: It is to initialize the original program password
(24)Signal Strength: It can show the SIM single strength
(25)"Init." Indicator: It will shine when you press the "***Init.***" Button
(26)"SIM" Indicator: GSM signal indicator
(27)R.C. Code Indicator: It is only available for HT-110B(6.1D)
(28)R.C. Code Button: It is only available for HT-110B(6.1D)



Wiring Diagram



Case Cover

Ⅳ.Terminal Explanation and Wiring Method

1. Battery Connection Line: The red line is the battery anode (+) and should be connected with positive electrode of battery, and the black one is the battery cathode (-) and should be connected with negative electrode of battery.

2. The AC Interface (Terminal AC and AC): AC 18V power input interface

3. Alarm Output Interface (Terminal BEL and GND): DC 10.5-13.5V power output for siren [BEL to the anode (red line) and GND to the cathode (black line)] ***(Note: the incoming current to the terminal of external siren cannot surpass 500 mA)***

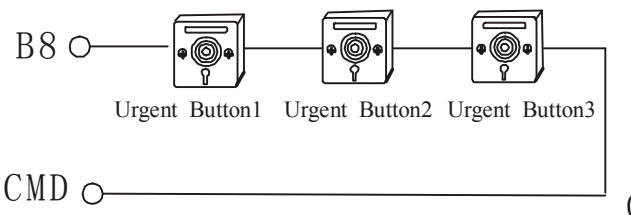
4. Power Output Interface

① DC 12-14V power output

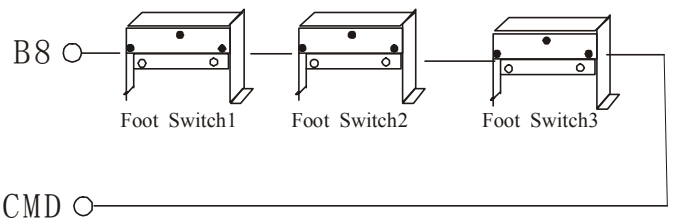
② DC 18-24V power output (HT-110B-6.1K)

***5.* Zone Loop Terminal (B1/GND to B8/GND)**

Terminal B is the positive electrode of zone loop and GND is the negative electrode of zone loop. And the zone loop can support "open-circuit" and "short/open- circuit" alarm function. If the zone loop is open-circuit alarm, the end of all the loops should have 2.2k resistance (the zone loops included that are not connected with sensor or switch). The panic button and foot switch can be directly connected to Terminal B and GND without distinguishing the positive and negative electrodes. And for more panic buttons and foot switches, you should use series connection.



Wiring diagram of several urgent buttons



Wiring diagram of several foot switches

6. Telephone Line Interface (Terminal L1 and L2): This is only available for telephone line. Telephone and other telecommunication devices are not allowed. There is no need to distinguish the electrodes when connection.

7. Telephone Interface (Terminal T1 and T2): In order to achieve alarm call priority function, the telephones (including its inner extensions) should be connected into the Terminal T1 and T2 without distinguishing polarity.

Ⅴ.Technical Requirement for Installation

1. Project Basic Installation Requirement

(1) You should make out a full protection scheme according to the monitored area and then specified the sensors as per security requirement.

(2) You should conceive installation places and their allocation before installation. And it is much better to lay sensors hidden to avoid external destruction. The alarm panel should be installed under the protection of sensors and not easy to see. The siren should be with anti-tamper and be installed at the ideal location. The panic button should be installed at the places where it is easy for you to catch.

(3) The installation and project diagram should be reserved for later maintenance.

2. Alarm System Installation

(1) Sensor

- When installation, the angle and height between the sensors and the level is very important, for it will affect the monitoring scope of sensors.
- Make sure there is no heat-emission objects and strong airflow in the monitored zone.
- Huge obstacle in the monitored zone is not allowed.
- Don't install the sensors outdoors.
- The connection wire should be 4-core one; otherwise, it will lose anti-tamper function. And the anti-tamper switch should be connected to Emergency Zone (24-hour zone).
- The smoke sensor has self-lock function. So it should be reset by alarm panel.
- Vibration sensor should be fixed tightly on the protected objects; otherwise, it cannot work normally.
- Glass break sensor should be installed with face to the windows and doors.
- Door sensor should be installed at the smallest angle of the door and the space should be within 10mm

(2) Alarm Panel

- Telephone Line Interface (L1 and L2 Terminal) should be connected to telephone line, and the transformation from the extension is not allowed.
- The earth wire of alarm panel should be good connection and the installation place should be keep try to enhance anti-jamming.
- Periodic check to make sure the backup battery can work normally when AC power failure. **(*Note: if the AC power is cut off frequently or the time of power-cut reaches 2 hours or more, please use 2 or more to ensure its normal work.*)**

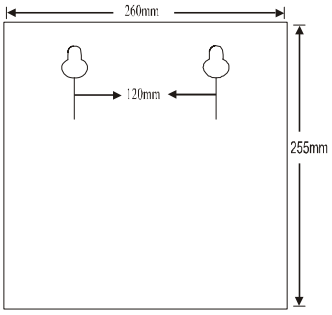
(3) Wiring Requirement

- There are 4 different colored cores in the 4-core wire available, and each of them has different functions. Therefore, you should do the wiring according to their colors and functions separately with strict accordance to the Wiring Diagram when doing the connection. Using the same colored-core wire and the same-colored wire to connect the loop-circuit of 8 zones in one system is forbidden.

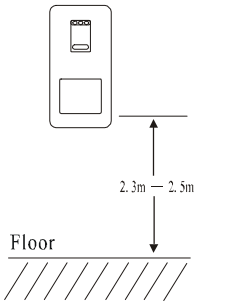
- The length of bare cooper wire at one end of the cable should be the same as depth of the insert-depth of the terminal of alarm panel. Intertwist all the bare copper wires tightly and insert them into the terminal and then use screw to fasten them to make sure that all the wires have been connected effectively.

3. Project Cautions

(1) Before being connected to alarm panel, AC power, backup battery and telephone line should be checked without fault.
(2) The project installation must be carried out by the professional electric team.
(3) The installation requirement mentioned in this chapter is for this system, not for other alarm systems. For more details, please refer to the national standards.



The Installation of Alarm Panel



The Installation of Sensor

(4) This alarm system is not the explosion-proof type, and it can not be installed directly in Grade I, II, III dangerous sits with flammable and explosive substance such as the steam, dust, fibers and so on. And don't install this alarm system into the above-mentioned places without the instruction from the professional team and the permission from relative government authority.

Ⅵ. GSM Module Program and Operation

GSM Module Alarm Receiving Overview:

When alarming, if the local telephone line works normally, the alarm system will send the alarm voice notification out by telephone network and send the SMS notification through GSM network; while if the normal telephone cannot works normally, the GSM module will send alarm SMS to the users' cells first to inform them the alarming zone and alarm type. And then it will dial the alarm receiving numbers in order and circularly to send all the alarm voice notification. After the alarm voice notification, you are allow to listen-in the local for you to catch more criminal plots

Alarm SMS format Demonstration:

Alarm Location: Hongtai Electronic Technology Co.,LTD
Alarm Zone: 007
Alarm Type: Steal
Note: it is ***unnecessary*** for you to turn on the "***PROG.***" switch to do all the GSM program items. But please make sure that before all program items; the "Power" switch is turn on.

1. Program cell phone Login

Program Password Initialization: Press the "**Init**." button for 3-5 seconds, and you will see the SIM Signal Strength indicator shine ***twice***. It means that you have initialized the password successfully. ***(Note: the original password: 888888)***
Log the user's cell phone into the alarm panel first, and make it be the program cell phone. Meantime, it becomes the ***No.0*** group of telephone number. And other alarm receiving numbers and other functions only can be set by this program cell phone. ***(Note: the No.0 group of telephone number will not receive the alarm information)***
Operation steps: Use the user's cell phone to edit "***888888*70*XXXXX…X***" to the GSM SIM card. And then the program cell phone will get a short message "0—XXXXX…X" and "You are welcome" ,which means the program cell phone is set successfully . ***(Note: "888888"----original password; "XXXXX…X"-----program cell phone)***

Important Note:

(1) The GSM SIM number should activate caller ID display function. And other additional functions should be cancelled. otherwise, the user cell phone will not log into normally.

(2) If another cell phone log into the alarm panel successfully to be program cell phone , the former program cell phone will be covered by the latest program cell phone automatically and it cannot do the program again. If the new program cell phone doesn't restore new alarm receiving numbers, the numbers set by the former program cell phone still can receive the alarm information when alarming; otherwise, the former alarm receiving numbers will be covered by new ones.

2. Program Original Password Modification

（1）***Method 1***: Use the program cell phone to edit "***Original Password*New Password***" and send it to GSM SIM card. And the GSM SIM card will send the new password to program cell phone.

(2) ***Method 2***: Use the program cell phone to edit "***Original Password*New Password* XXXXX…X***" and send it to GSM SIM card. And the new password will replace the original one. And the GSM SIM card will send the new program password to the telephone number "***XXXXX…X***".

For example: you use program cell phone to edit "***888888*012345*13912345678***", and send it to GSM SIM card. And the cell phone "13912345678" will receive the new password "012345", which means the new password has been set successfully. ***(Note: the program password should be 6-digit; XXXXX…X-----the alarm receiving number)***

3. Store Common Alarm Receiving Number *(6 Telephone Numbers Available)*

Note: The program password of all the following operation demonstrations is original password (888888). Also, you should use your new program password to do the following operation after you get the new one.

Operation steps:

(1) **Cell Phone**: Use the program cell phone to edit "***888888*71*XXXXX…X***" and send it to the GSM SIM card. And the ***1st*** number is stored successfully. Besides, the ***1st*** number can receive the alarm call and the alarm SMS. Similarly, you can use this way to store other numbers.

For example: you use program cell phone to edit "***888888*71*13912345678***" to GSM SIM card. And the program cell phone will receive "1-13912345678". Besides, the telephone "13912345678" will get such a message "You are welcome", which the 1st group of number has been stored successfully.

(2) **Fixed Phone:** Use the program cell phone to edit **"*888888*71*XXXXX…X/***" and send it to the GSM SIM card. And the ***1st*** number is stored successfully. The ***1st*** number can receive the alarm call but it cannot receive the alarm SMS. Similarly, you can use this way to store other numbers. Similarly, you can use this way to store other numbers. ***(Note: "/" -----the mark of fixed telephone number and no alarm SMS available)***

For example: you use program cell phone to edit "***888888*71*22392288/***" to GSM SIM card. And the program cell phone will receive "1-22392288/", which the 1st group of number has been stored successfully. But this telephone cell will not get any alarm SMS when alarming.

4. Set Alarm Center Number

Note: If this GSM alarm system doesn't network with alarm center, you don't need to set this function

(1) Store alarm center number: Use the program cell phone to edit "***888888*71*XXXXX…X*YYYY***" and send it to the GSM SIM card. And the center number is stored into the 1st group of number. ("XXXXX … X"-----center number; "YYYY"-----User's ID). Similarly, you can use this way to store center number into any other 5 groups)

For example: you use program cell phone to edit "***888888*71*22392288*0001***" to GSM SIM card. And the program cell phone will receive "1-22392288*0001/". It means that the center number is stored into the 1st group of number.

(3) Activate arming/disarming report to alarm center: use the program cell phone to edit "8***88888*7N*XXXXX…***

X*YYYY" and send it to the GSM SIM card, and then arming/disarming report to alarm center is set successfully. (N=7------Arming Report; N=8------Disarming Report)

For example 1: you use program cell phone to edit "***888888*77*22392288*0001***" to GSM SIM card. And the program cell phone will receive "7−22392288*0001/". It means that the arming report to alarm center has been stored successfully.

For example 2: you use program cell phone to edit "***888888*78*22392288*0001***" to GSM SIM card. And the program cell phone will receive "8−22392288*0001/". It means that the disarming report to alarm center has been stored successfully.

Note: the program cell phone is default to be the No.0 group of number when it logs in alarm panel successfully. But it cannot receive alarm information when it is the No.0 group. But if you want the program cell phone to receive the alarm information, you should store it into any other group of number.

5. Check /Delete all the Alarm Receiving Number

You can use the program cell phone to edit "***888888*71****", and send it to the GSM SIM card. On receiving the command message, the alarm panel will send all the alarm receiving numbers to the program cell phone in the form of SMS. And all the alarm receiving numbers will be display.

Demonstration: 1—13XXXXXXXXX (the 1st alarm receiving number)
2—13XXXXXXXXX (the 2nd alarm receiving number)

Delete Alarm Receiving Number:

You can use the program cell phone to edit "***888888*72#***", and send it to the GSM SIM card. And the 2nd group of number will be deleted. Similarly, you can use this way to delete other group of number

6. Alarm Location

This GSM alarm system can inform you of the alarm location in the form of SMS when alarming, and you are allowed to prestore/check/cancel all the alarm location.

- **Store Alarm Location**: you can use the program cell phone to edit "***888888*41*the alarm location***" and send it to the GSM SIM card. On receiving this message, the GSM SIM card will reply you a message with the content of alarm location, which means that you have store the alarm location successfully. ***(Note: the number of characters of alarm location cannot exceed 40)***
- **Check Alarm Location:** if you want review the alarm location that you have prestore, you can use the program cell phone to edit "***888888*41****" and send it to the GSM SIM card. On receiving this message, the alarm panel will reply you a message with the content of alarm location for your review.
- **Cancel Alarm Location:** you can edit "***888888*41#***" to cancel the alarm location.

7. Remote Arming/Disarming Operation Password by SMS

(1) Set: Use program cell phone to edit "***888888*21*XXXX***" and send it to GSM SIM card. And the program cell phone will receive such a message "***XXXX***" (**Remote Operation Password**). It means that the remote arming/disarming password is set successfully.

(2) Inquiry: Use program cell phone to edit "***888888*21****" and send it to GSM SIM card. And the program cell phone will get the operation password

(3) **Delete**: Use program cell phone to edit "***888888*21#***" and send it to GSM SIM card. And the program cell phone will get such a message "***FFFF***", which means that the remote arming/disarming password has been deleted.

8. Check arm/disarming status by SMS

If you are not sure what current status of alarm panel, you are allowed to use the following way to check the current status of alarm panel:

(1) **Method 1:** Use the program cell phone to edit "***Remote operation password0****" and send it to GSM SIM card. And the GSM SIM card will send the current status of alarm panel to program cell phone.

(2) Method 2: Use the program cell phone to edit " ***Remote operation password0****XXXX…X" and send it to GSM SIM card. And the GSM SIM card will send the current status of alarm panel to the number (XXXX…X) (***Note: the remote operation password is 4-digits; 0 is function code ; XXXX…X is alarm receiving number***)

For example: you use program cell phone to edit "***34560*13912345678***" to GSM SIM card. And the telephone number "13912345678" will receive the following SMS content. (Note: 3456---remote operation password; 0---function code; 13912345678----alarm receiving number)

SMS Format:

Hongtai Technology Electronics Co., Ltd. (Alarm Location)-------Disarm **Or**

Hongtai Technology Electronics Co., Ltd. (Alarm Location)-------Arm

9. Arm/Disarm by Cell Phone

You are allowed to use cell phone or fixed telephone to dial the GSM SIM card. And when you hear "di" indicator, please input "***XXXX***" password. And on hearing indicator, please input ***22*** or ***88***, and then the GSM SIM card will hang off automatically. It means that this operation has been made successfully. ***(22----Arm Code; 88---Disarm Code)***

10. Check the Latest 2 Pieces of Alarm Information

You can use the program cell phone to edit "***888888*31****", and send it to the GSM SIM card. And the alarm panel will send the latest 2 pieces of alarm information to you in the form of SMS. And the SMS format is as following

No.: 002 **No.:** 007

Type: Steal **Type**: Emergency

Note: the "002" "007" stands for the zone number and "***STEAL***" and "***Emer.***" is its relative alarm type

10. Arm/Disarm by SMS

(1)***Arm by SMS***: You can use cell phone to edit "***34562*XXXXX…X***" and send it to the GSM SIM card. The telephone number "**XXXXX … X**" will receive such a message: "Hongtai Electronic Technology Co., LTD (Alarm location) -------Arm (Status)", which means that the alarm panel has been armed successfully. ***(Note: 3456---remote operation password; 2----function code; XXXXX…X----cell phone number)***

(2) ***Disarm by SMS:*** You can use cell phone to edit "***34568*XXXXX…X***" and send it to the GSM SIM card. The telephone number "**XXXXX … X**" will receive such a message: "Hongtai Electronic Technology Co., LTD (Alarm location) -------Disarm (Status)", which means that the alarm panel has been disarmed successfully. (***Note: 3456---remote operation password; 8----function code; XXXXX…X----cell phone number***)

11. GSM Module Alarm Dispose

When alarming, the "Dialing" indicator on the keyboard will not glitter. The alarm panel will inform all the alarm receiving numbers in form of SMS with the content of alarm zone and alarm type first. And then it will dial the alarm receiving numbers in order and circulately and reply the alarm languages. After replaying the alarm language, the alarm panel will listen-in the locale. If you want to stop the listen-in in advance, you can hang your cell phone off immediately,

and the alarm panel will not dial this number. And if you want to have more listen-in time, you can press "***9999***" after hearing the indicator. You are allowed to disarm the alarm panel by inputting "*7777*" during listen-in.

Ⅶ.Program Operation

1. Program Caution

(1) Turn on the **"*PROG.*"** switch, and the LCD displays "*PROG.*" with the "Programming" indicator shining, and then you can start do program items. When all the program items have been completed, please turn off the "***PROG.***" switch; otherwise, the alarm panel cannot work normally.

(2) The **"*PROG.*"** switch is turned on, and if you do not operate any program item or forget to turn off the switch within ***30*** seconds, the alarm panel will sound "Di,Di" indicator, which reminds you to turn off the **"*PROG.*"** switch or do continuous operation.

2. **Ring Time (Arm/Disarm by Remote Telephone)**

(23) This alarm panel can support arm/disarm by remote telephone. The alarm panel will automatically hang off after several rings and then you are allowed to arm/disarm alarm panel by remote telephone.

(2) The ring times can be set from 01-10. And if the ring times that you set are ***less than 10***, please add "***0***" ahead. For example, the ring times is ***5***, you are required to input "*05*".

Demonstration: Supposing the ring times is *5*.

Operation Steps: Press (Reset) (0) (0) (Function) , and the LCD displays

, and then press (0) (5) (Enter)

3. Store Common Alarm Receiving Number

Demonstration (1): The 1st group of alarm receiving number is 22392458

Operation: Press (Reset) (0) (1) (Function)， and the LCD displays

And then you input (2) (2) (3) (9) (2) (4) (5) (8) (Enter) . A long indicator implies that the 1st group of alarm receiving number has been stored successfully.

The 1st alarm receiving number

Demonstration (2): The 2nd group of alarm receiving number is 13905973618

Operation: Press (Reset) (0) (2) (Function)， and the LCD displays

And then you input (1) (3) (9) (0) (5) (9) (7) (3) (6) (1) (8) (Enter) . A long indicator implies that the 2nd group of alarm receiving number has been stored successfully.

Note: You can use the above way to store the alarm receiving number from 3rd to 5th.

(3) The "Pause " key is used for segment dialing of alarm receiving number ***(Call from Interior phone to outside phone and transfer from outside phone to interior phone).***When storing the alarm receiving telephone number, press the " Pause " key, the first segment dialing is ***3*** seconds' pause from the 2nd segment dialing, and then press ***twice*** to pause ***6*** seconds.

① **Call from interior phone to outside phone**: After inputting 0 or 9, you press the " Pause " key and then input telephone number. ***For example***, the 1st group number:

Reset 0 1 Function 9 Pause 2 2 3 7 9 6 2 0 Enter

. *That is to say*, the alarm panel will dial ***9*** at first and then dial ***22379620*** after pausing for ***3*** seconds when alarm happens.

②**Transfer from outside phone to interior phone**: After inputting the 1st telephone number, you press the " Pause "key and then input extension number. For example: the 1st group number:

Reset 0 1 Function 2 2 3 7 9 6 2 0 Pause 8 0 1 Enter

; ***That is to say***, the alarm panel will dial ***22379620*** and then dial the extension number: ***801*** when alarm happens

(4) Alarm Receiving Number Modification and Clearance

If the alarm receiving telephone number you stored is wrong, or you want to store a new one, you can press the " Reset " key and then do as the above way. And the new one will cover automatically the former one. If you want to delete a certain group of telephone number, you can press ***01-05*** key till the LCD displays the telephone number you want to delete, and then you press the " Clear " key, then alarm panel sounds a long indicator, which means that you have successfully cleared the number.

(4) Enter/ Exit Delay Time

（1）**Enter Delay**: When the zone is in the armed condition, this alarm panel can support adjustable ***000- 255*** seconds' delay in triggering alarm from receiving the alarm intrusive signal.

（2）**Exit Delay**: The alarm panel has adjustable 000-255 seconds' delay in entering the armed condition from receiving the armed command.

Demonstration: The enter delay time is 10 seconds and the exit delay time is 15 seconds

Operation steps: Press Reset 0 9 Function, and the LCD displays

```
000 000
PROG●
```

, and then press

0 1 0 (Enter delay time) 0 1 5 Enter (Exit delay time) .

And then a long indicator sounds, which means the enter and exit delay time have been stored successfully.

Enter/Exit Cancellation: Press Reset 0 9 Function and the LCD displays

```
010 015
PROG●
```

, and then press 0 0 0 0 0 0 Enter .

5. Arm/Disarm Timer

Demonstration (1): The 1st group of arming time is *23:30* and disarming time is the next day's *06:30* am from Monday to Friday

Operation Steps: Press Reset 1 0 Function , and the LCD displays

```
TIMING FF-FF FF-FF
       TIMING ARM  TIMING DISARM
PROG. 1
```

And then input 2 3 3 0 (The First Day: 23:30) 0 6 3 0 (Disarm time: 6:30) 0 1 (MON.) 0 2 (TUE.) 0 3 (WED.) 0 4 (THU.) 0 5 (FRI.)

. A long indicator means that the 1st group of timing arm/disarm time has been stored successfully.

Demonstration (2): The 2nd group of arming time is at 8 am at Saturday and Sunday and the disarming time is the next day's 8 am.

Operation Steps: Press Reset 1 1 Function, and the LCD displays

```
TIMING FF-FF FF-FF
       TIMING ARM  TIMING DISARM
PROG. 2
```

,

and input (0)(8)(0)(0) (0)(8)(0)(0) (0)(6) (0)(7) (Enter)
Arming time: 8am Diarming time: 8m Sat. Sun.
. A long indicator will implies the 2nd group of timing arm/disarm time has been stored successfully.

Arming/Disarming Timer Cancellation: Press (Reset)(1)(0)(Function) or (Reset)(1)(1)(Function) to cancel the 1st or 2nd group of arm/disarm time. When the LCD displays the 1st and 2nd group of arming/disarming time, press the "(Clear)" key to cancel the timing arm/disarm time. A long indicator will implies timing arm/disarm time has been cancelled.

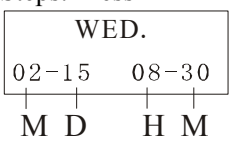
6. Current Time and Automatic Calibration (24-hour system)

(1) This alarm panel can support perpetual calendar function and automatically display odd/lesser month, intercalary month/year and week.

(2) The procedure to set the current time (24-hour system): **Hour→Minute**. Every item should be input with double-digit number, and if it is not double digits, please add "***0***" ahead. For example, the time is ***8*** o'clock, and you are required to input "***08***".

Demonstration: The current time is 8:30

Operation Steps: Press (Reset)(1)(2)(Function), and then press (0)(8)(3)(0)(Enter). And the LCD displays



without year display when you hear a long indicator.

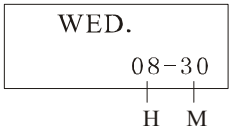
(3) The procedure to set the date and week: **Year→-Month→Day→Week**. Every item should be input with double-digit. If it is not double digits, please add "***0***" ahead. For example, this month is February, and you are required to input "***02***".

(0)(8) (0)(2) (1)(5) (0)(1) (Enter)
Year Feb. 15th WED.

Demonstration: The current time is 8:30 February 15th, 2008, Wednesday.

Operation Steps: Press (Reset)(1)(6)(Function) and then input

And the LCD displays



without year display when you hear a long indicator.

(4) This alarm panel can support automatic calibration function, and it can automatically calibrate the time every 30 days to ensure the accurate time to reduce the running time error of alarm panel. The operation steps as following:

Demonstration: When alarm panel works for a time cycle (30 days as a time cycle), you are allowed to use automatic calibration to correct the time if the time fasts 5 minutes than current time.

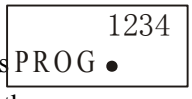
Operation Steps: Press (Reset)(2)(0)(Function), and then input (0)(5) (*) (Enter). There is 00-59
Calibration cost Subtracting mark

minutes adjustable for you to calibrate the time. And if you want to subtract several minutes to make time become slow when the time fasts than the current time, please enter the " (*) " key behind; otherwise, the key is not required.

7. Password for Remote Arm/Disarm (*Note: The original password: 1234*)

Demonstration: The new password is 5678

Operation steps: Press (Reset)(1)(3)(Function), and the LCD displays



,and then input (5)(6)(7)(8)(Enter). A long indicator implies the new password has been set successfully.

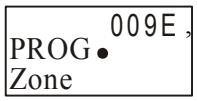
Password Cancellation: You can do as the above way to modify the password, and the new password will

automatically replace the former one. The password is subject to the latest one.

8. Match Code between Wireless Sensor and Alarm Panel

Note: The following way is only available for wireless zone, and 1st -8th zones are wired zone, so they cannot support wireless match code. And ***one wireless*** *zone just can support* ***only one*** *wireless sensor.*

(1)Uncover the plastic cover of sensor. If you want to match code with the 9th zone, you can press (Reset) (0) (0) (9) [Match code] and the LCD displays



among of which "***E***" means the ***9th*** zone has been matched code with another sensor, and if you still want to match code with this zone, please continue to press key and the "***E***" will become "***b***" on LCD, which means the existing code has been cleared, and you can match code with this zone. Hold on the "***Code***" button of the sensor without releasing, and press promptly the "(Enter) " key when you see the "***Transmitting***" indicator of the sensor shining. A long indicator implies the sensor has been matched into the 9th zone.

(2) If you want to match code with other zones, you can input the number of the zone (three-digit) and do as the above way.

(3) ① If you want to clear the matched code of one certain zone, please input the zone number with three-digit and press the " (Enter)" key; when the LCD displays the right zone, press the " (Clear) " key, and a long indicator will imply that you have successfully clear the matched code.

②If you want to clear the matched code of all the zones, please press (Reset) (1) (8) (Function) (6) (6) (8) (8) (Enter) and all the matched code will be clear successfully.

Note: After all the codes have been cleared, all the sensors cannot work. You should match code one by one if you want to make sensors work again.

9. Match Code between Remote Control and Alarm Panel

Note: There is no need for original remote control to rematch code with alarm panel. It is only available for add-on ones)

A. 110B (6.1 Series) Alarm System (6.1D exclusive)

(1) Press (Reset) (0) (0) (0) [Match Code], and the LCD displays "***000***" and "***E"*** or "***b***". Then hold on the "***Disarm***" button on remote control without releasing and press the "(Enter) " key when you see the indicator of sensor shine. A long indicator implies that the remote control has been matched code with alarm panel successfully. ***(Note: one alarm panel is allowed to match code with 10 different remote controls at most)***

(2) **Remote Control Code Clearance**: Press (Reset) (0) (0) (0) [Match Code], And then press (Clear). A long indicator implies that all the remote control codes have been cleared.

B. HT-110B(6.1D) Alarm System

Note: The remote control should be our YK05D, YK07D, YK08D, YK09D and other D series remote controls.

Operation Steps

（1） Hold on the "***Disarm***" button on remote control without releasing. When you see the indicator of remote control shine, press the "***R.C. Code Button***" on alarm panel PCB at the same time. The "***R.C. Code Indicator"*** on alarm panel PCB shines for 2 seconds, and it means that the rolling code of remote control has been matched successfully. ***(Note: one alarm panel is allowed to match code with 15 different remote control rolling codes at most)***

(2) Press Reset 0 0 0 Match Code, and the LCD displays "***000***" and "***b***". Hold on the "***Disarm***" button without releasing, and press the "Enter" key when you see the indicator of remote control shine at the same time. A long indicator implies that the remote control has been matched code successfully. ***(Note: The 2nd operation step isn't necessary when the LCD displays "000 "and "E")***

(3)Remote Control Rolling Code Clearance: Hold on the ***"R.C. Code Button"*** without releasing till the ***"R.C. Code Indicator"*** goes out. It means that all the remote control rolling codes have been matched successfully.

(4) **Remote Control Code Clearance:** Press Reset 0 0 0 Match Code, And then press Clear. A long indicator implies that all the remote control codes have been cleared.

10. Wireless Zone QTY Activate

(1) This alarm panel allows users to activate or deactivate wireless zone with accordance with users' need. It can decrease its futility and avoid the cross-code and false alarm to extend the useful time of alarm panel.

(2) **Wireless Zone QTY Activation**: You can activate the wireless zones which come after the 9th zone with the accordance to users' need. ***(Note: The 1st to 8th zone are wired zone which cannot be set)***

Demonstration: You just want to activate the 40th zone, and you can deactivate the wireless zones from the 41st -255th.

Operation Steps: Press Reset 1 7 Function 0 4 0 Enter.

(3)Wireless Zone Activate/ Deactivate (00: Activate; 01: Deactivate)

If users only want to use wired zones, they can deactivate the wireless zone to avoid the cross-code

Operation Steps: Reset 1 9 Function 0 1 Enter to activate wireless zone

Reset 1 9 Function 0 0 Enter to deactivate wireless zone

11. Wholly Arm/Partly Arm (Zone number should be 3-digit; If not, please add "0" ahead)

(1) **Wholly Arm (Arm Away)**: When there are no stayers in all zones, you can set all the zones into "***Wholly Arm***". Namely, all the zones can send the alarm signal to alarm panel and trigger alarm when someone intrudes the zones. ***(Note: all the zones have been set to Wholly Arm when produced originally).***

(2) **Partly Arm (Arm Stay)**: When there aren't stayers in some zones, you can set those zones into "***Arm Stay***". When someone intrudes those zones, the sensor in those zones can send the alarm signal to alarm panel and trigger alarm. While those zones where some stayers are in will be in disarmed condition and will not send the alarm signal as though someone enters.

Partly Arm Zone Setting

Demonstration:

① Set the 3rd zone into "***Partly Arm***"

Operation: Press Reset 0 0 3 (Zone 3) Zone * (Arm)

② Cancel the 3rd zone as "***Partly Arm***"

Operation: Press Reset 0 0 3 (Zone 3) Zone # (Disarm)

Note: You can use the above way to set other zones into "Partly Arm".

12. Alarm Type

This alarm panel can support 7 alarm types available for every zone. They are "**PERIMETER**", "**STEAL**", "**ROBBERY**", "**EMERG.**", "**SMOKE/GAS**", "**AID**" and "**OTHERS**". When the zone is set into one alarm type, the

LCD displays the corresponding alarm type when alarm happens.

*Note: When one zone is set into "**EMERG.**" "**SMOKE/GAS**", "**AID**" and "**ROBBERY**", this zone will become **24-hour** zone, which is not affected by the arm/disarm operation.*

(1) Set Zone into Alarm Type (Zone number should be 3-digit; If not, please add "*0*" ahead)

Demonstration

① **Set the 1st zone into "*PERIMETER*" *(Note: the alarm type is subject to the last one)***

Operation Steps: Reset 2 2 Function 0 0 1 * Enter

② **Set the 2nd and 9th zone into "*ROBBERY*"**

Operation Steps: Reset 2 3 Function 0 0 2 * 0 0 9 * Enter

③ **Set the 10th , 11th, 12th , 13th, 14th, 15th, 16th, 17th, 18th and 19th zone into "*STEAL*"**

Operation Steps: a. Press Reset 2 4 Function 0 1 0 * 0 1 1 * 0 1 2 * 0 1 3
* 0 1 4 * 0 1 5 * 0 1 6 * 0 1 7 * Reset

b. Press Reset 2 4 Function 0 1 8 * 0 1 9 * Enter

④ Set the 3rd, 4th and 5th zone into "*EMERG.*"

Operation Steps: Reset 2 5 Function 0 0 3 * 0 0 4 * 0 0 5 * Enter

⑤ Set the 20th and 21st zone into "*SMOKE/GAS*"

Operation Steps: Reset 2 6 Function 0 2 0 * 0 2 1 * Enter

⑥ Set the 31st, 32nd, 33rd, 34th, 35th and 36th into "*OTHERS*"

Operation Steps: Press

Reset 2 7 Function 0 3 1 * 0 3 2 * 0 3 3
* 0 3 4 * 0 3 5 * 0 3 6 * Enter

⑦ Set the 100th, 101st ,102nd and 103rd into "*AID*"

Operation Steps: Press

Reset 2 8 Function 1 0 0 * 1 0 1
* 1 0 2 * 1 0 3 * Enter

(24) **Set All the Zones into "*STEAL*" (The 8th zone exclusive)**

Operation Steps: Press Reset 2 9 Function 6 6 8 8 确认.

(3) Check Alarm Type

Demonstration: You want to check alarm type of the 15th zone

Operation Steps: Press Reset 0 1 5 Zone, and the LCD displays "***015***" and corresponding alarm type.

13. Alarm Language

(1) Turn on the "***PROG***." switch and hold on the two "***Rec.***" ⊡+⊡ keys simultaneously without releasing. When seeing the "***Rec. Indicator***" shine, you can aim at the **MIC** to prerecord 20-second alarm language segment.

(2) Replay Recorded Segments: Press the ⊡ key and you can hear the alarm language segment that you prerecorded. If the segment quality is not good, you can record it once again and the new one will automatically cover the former one.

(3) Delete the recorded segment: Press the two "Rec." ⊡+⊡ keys at the same time, and the recorded segment will be deleted.

Ⅷ. Alarm Receiving Center Number

This alarm panel can support Contact ID Communication Protocol and users can choose to use according to their need.

1. Alarm Receiving Center Number

(1) If alarm panel doesn't network with alarm receiving center, you don't need do this operation.

(2) When the alarm panel network with the center, the alarm receiving center number is suggested to stored in the 1st group (Priority to others). And other common telephone numbers are stored into from the 2nd to 5th group.

Demonstration: The alarm receiving center number is 2392468, the user's ID is 0001 and the center number is in the 1st group.

Operation Steps: Press (Reset) (0) (1) (Function), and the LCD displays TEL × × PROG.. And then input (2) (3) (9) (2) (4) (6) (8) (*) (0) (0) (0) (1) (Enter). (Alarm Receiving Center Number; Mark; Use's ID). A long indicator implies the center number has been stored successfully.

Center Number Clearance: Press (Reset) (0) (1) (Function) (Clear), and a long indicator implies that the center number has been cleared.

2. Report to Alarm Receiving Center when Arm

Press (Reset) (0) (7) (Function), and the LCD displays TEL — — PROG.. And then input (2) (3) (9) (2) (4) (6) (8) (*) (0) (0) (0) (1) (Enter). (Alarm Receiving Center Number; Mark; Use's ID). A long indicator implies that report to alarm receiving center when arm has been set successfully

Report to Alarm Center Cancellation: Press (Reset) (0) (7) (Function) (Clear). A long indicator implies that is has been cleared.

2. Report to Alarm Receiving Center when Disarm

Press (Reset) (0) (8) (Function), and the LCD displays TEL — — PROG.. And then input (2) (3) (9) (2) (4) (6) (8) (*) (0) (0) (0) (1) (Enter). (Alarm Receiving Center Number; Mark; Use's ID). A long indicator implies that report to alarm receiving center when disarm has been set successfully

Report to Alarm Center Cancellation: Press (Reset) (0) (8) (Function) (Clear). A long indicator implies that is has been cleared.

3. Alarm Panel Timing Self-test Report to Alarm Receiving Center

Note: This way is suitable for Contact ID Communication Protocol, and the number reported to center is alarm center number.

This alarm panel can send timing self-test signal to alarm receiving center, and after the alarm center receive the signal, the LCD will displays self-test report, which means that alarm panel can work normally and no any fault between alarm panel and alarm receiving center.

Operation Steps: Press (Reset) (2) (1) (Function) (1) (0) (3) (0) (0) (3) (Enter). (10(H); 30(M); Every 3 days)

If you just need timing self-test report to center ***once***, please press Reset 2 1 Function 1 0 (10(H)) 3 0 (30(M)) 0 0 (Once Report) Enter

Ⅸ.Check or Query Program Items

On completing the program tasks, you can turn on the "***PROG***." Switch to check or query whether the programs items are with accordance to you request or not. But when the checking operation is over, you should make sure the switch is turn off.

1. Check Telephone Ring Time

Press Reset 0 0 Function , and the LCD displays the ring times which is preset. And after the checking operation, please press the " Reset " key for next another operation.

2. Check Alarm Receiving Number

Press Reset 0 1 Function , and the LCD displays the 1st group of alarm receiving number. Similarly, you can check the common alarm receiving numbers from 2nd to 5th groups. Also report to alarm center when arm/disarm. And after the checking operation, please press the " Reset "key for next another operation.

3. Check "**Enter Delay Time**" and "**Exit Delay Time**"

Press Reset 0 9 Function , and the LCD displays 6-digit, among which the former 3-digit are the **Enter Delay Time** (second) and the latter 3-digit are the **Exit Delay Time** (second). And after the checking operation, please press the " Reset" key for next another operation.

4. Check the 1st Group of Arm Timer

Press Reset 1 0 Function , and the LCD displays the 1st group of timing arm time. And after the checking operation, please press the "Reset" key for next another operation.

5. Check the 2nd Group of Arm Timer

Press Reset 1 1 Function , and the LCD displays the 2nd group of timing arm time. And after the checking operation, please press the "Reset " key for next another operation.

6. Check Password for Remote Arm/Disarm

Press Reset 1 3 Function , and the LCD displays 4-digit password. And after the checking operation, please press the " Reset" key for next another operation.

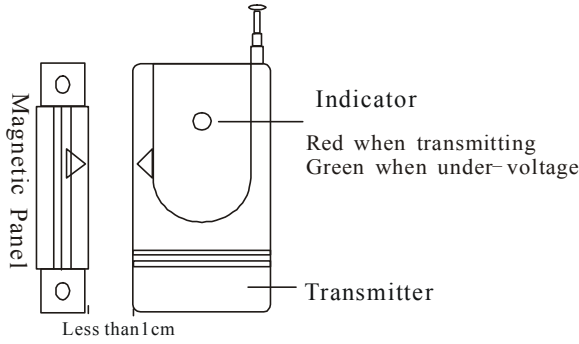


Diagram 1: Wireless Door Sensor

Ⅹ.Operation and Installation

1. Install Wireless Door Sensor/PIR Sensor

(1) Make sure that the door (window) frame where the door sensor is to be installed are enough clean before installation. And when installation, please take off the double-faced adhesive tape coating at their bottom, and then install the transmitter on the fixed door(window) frame while the magnetic panel is installed on the mobile door(window).

(2) The two " ▷ ◁ "on the transmitter and the magnetic panel should aim at each other and the distance between them should be within 1 cm（See Diagram1）

(3) To make sure that you have a successful installation, please open the door for test. The "Transmitting" indicator shines when the door is opened, and alarm panel touches off alarm, which means you have a successfully installation. But when the light becomes green, it means that the battery of door sensor has become flat one and the battery should be changed.

2． Install Wireless Infrared Sensor

Please put the battery of the infrared sensor at the proper place and mount it at the height of 1.8-2m with its lens aiming at the monitored area. And then turn on the "***Power***" switch for test, if someone enters into the area, the "Detecting" indicator will shine and send the alarm signal to alarm panel, which indicates a successful installation. But if the indicator doesn't shine while alarm panel has detected the target, it means the battery needs changing timely to ensure its normal work.

3. Arm

(1) Arm Alarm Panel by Remote Control

Press the "🔒" on remote control, and the LCD displays "Date", "Wholly Arm" and Zone under "Wholly Arm " with "DiDi" indicator. Press the "🔒" on remote control, and the LCD displays "Date", "Partly Arm" and Zone under "Partly Arm " with "DiDi" indicator. If alarm panel has been set into exit delay time, you should leave the monitored area when you hear indicator within the specified time.

(2) Wholly Arm/Partly Arm by Keyboard

A. Wholly Arm:

Press (Reset) (1) (2) (3) (4) (1) (Enter) , and all the zones (255-zone) are set into "Wholly Arm" (are in armed condition) with the LCD displays "Wholly Arm". ***(Note: "1234" is password; "1" is "Wholly Arm" code)***

B. Partly Arm

Press (Reset) (1) (2) (3) (4) (2) (Enter) , and the zones under " ***Partly Arm***" will be in armed condition with the LCD displays "Partly Arm". ***(Note: "1234" is password; " 2 " is "Partly Arm" code)***

(3) Remote Arm by Telephone with Password Protection

Note: *This way only is available when the alarm panel is in stand-by condition. When the alarm panel is alarming, this way is invalid. And alarm panel will be "**Wholly Arm**" status when timing arm and remote arm by telephone.*

Dialing the telephone connected to the alarm panel by remote-site telephone, and you will hear indicator. Several ring times later, the alarm panel telephone will hang off automatically with "DiDi" indicator, and then you input the 4-digit password. If the password is correct, you will hear a long indicator and then you can continue to input "***2***" to arm the alarm panel into "***Wholly Arm***" status. If the password is wrong, you also can hear a short indicator "DiDi" to remind that you can continue to input the correct one without hanging up the telephone.

4. Disarm

(1) Disarm Alarm Panel by Remote Control

Press the "Disarm 🔓 " button on remote control, and alarm panel sounds disarm indicator with LCD displaying "***Disarm***"

(2) Disarm by Keyboard

Press (Reset) (1) (2) (3) (4) (Enter), and the alarm panel sounds disarm indicator with the LCD displaying "***Disarm***"

(3) Remote Disarm by Telephone with Password Protection

Note: *This way only is available when the alarm panel is in stand-by condition. When the alarm panel is alarming, this way is invalid and you can refer to the following way* ***"Receive Arm and Disarm"***

Dialing the telephone connected to the alarm panel by telephone, and you will hear indicator and then you input the 4-digit password. If the password is correct, you will hear a long indicator and then you can continue to input "***8***" to dis arm the alarm panel. If the password is wrong, you also can hear a short indicator "DiDi" to remind that you can continue

to input the correct one directly without hanging up the telephone.

5. Receive Alarm and Disarm

When someone intrudes into the zones which are in armed condition, the alarm panel will trigger alarm with LCD displaying the zone number which has been intruded and their corresponding alarm type, and send voice notification to the alarm receiving numbers that were prestored. On receiving the alarm information, users can dispose of alarm and disarm the alarm panel in the following ways.

(1) Disarm by Remote Control

Press the "Disarm" button on the remote control, and the alarm panel sounds disarm indicator with the LCD displaying "***Disarm***".

(2) Disarm by Keyboard

Press Reset 1 2 3 4 Enter, and the alarm panel sounds disarm indicator with the LCD displaying "***Disarm***"

(3) Remote Disarm by Telephone with Password Protection

After hearing the alarm language segments, users can listen-in the locale for 20-second. When the listen-in is over, you can hear indicator which implies that you can have a 10-second's remote control of alarm panel with accordance to your need. ***(Note: Within 10 seconds, if you don't do any operation, the alarm panel will dial the next group of alarm receiving number)***

Input 00: Dial the next group alarm receiving number and not dial this group again
Input 77: Disarm the alarm panel to stop alarm immediately
Input **: Another more 20-second's listen-in available

6. Emergency Zone

This alarm panel has 1-wired Emergency Zone (Zone 8), which is 24-hour zone without be controlled by arming/disarming operation. Other zones are not emergency zone when originally produced. But you are allowed to set every zone into Emergency Zone. The emergency alarm through remote control also is the 8th zone.

7. Telephone Line Test

Before turning on the "***PROG.***" switch, please make sure all the wiring is with strict accordance to the Wiring Diagram. When the "Telephone Line Test" jumper is at the "***On***", and the telephone line is cut or becomes short-circuit, the alarm panel will sound "Di" indicator every 2 minutes with the LCD displaying "***DISCONN***", and only when you repair the telephone line or make the jumper into "***Off***" can the alarm panel stops the indicator; otherwise, when the jumper is at "***Off***", the telephone line test is deactivated.
(***Note: The jumper is at "Off" when produce originally)***

8. Alarm Volume

This alarm panel can support "***Sound/Mute***" for your optional. When the alarm volume is at "***Sound***", the alarm panel will sound alarm in the field; while at ***"Mute",*** the alarm panel cannot sound alarm but it still send voice notification to alarm receiving number

9. Check Alarm History and Arm/Disarm Information

(1) Press the " Check " key continuously, and the LCD can show 40 pieces of alarm history and 40 pieces of arm/disarm information for your check. If their information exceeds 40 pieces respectively, the alarm panel will automatically cover the earliest one.

Demonstration:

C**heck Alarm History:** Press the " Check " key and the LCD displays 12091317012 STEAL , which means that the 12th zone had alarm incident at 13:17, 9th December.

Check Arm/Disarm Information: Press the " Check " key continuously and the LCD displays

08102330 Wholly Arm , which means that alarm panel has been set in "Wholly Arm" at 23:30, August 10th..

And the LCD will display "***Disarm"*** or "***Partly Arm"*** if you do relative operations.

(2) The alarm history is prior to arm/disarm information, and if you wan to check the arm/disarm information, you should press the " Check" key continuously to check relative information.

Ⅺ.Technical Parameters

(1) GSM Module: TC35i or TC35 Industrial-grade module
(2) GSM Frequency: EGSM 900 and GSM 1800
(3) GSM Module Voltage: 3.3—4.8V/ Working Current: 300mA (average)
(4) GSM Consumption Power: 2W (EGSM900); 1W (GSM1800)
(5) SMS Support Format: AT, Text and PDU
(6) Baud Rate: 300bit/s –115kbit/s optional
(7) Data Transceiver Mode: Asynchronous Serial interface (ITU-T RS232)
(8) The 20-second prerecording alarm language segment through the digital recording chip
(9) DTMF telephone dialing standard frequency: low frequency group: 697、770、852、941Hz; high frequency group: 1209、1336、1477、1633H;Distortion: more than 1.5%
(10) Level: the low frequency group: 9dbm 、3dm ; the high frequency group: dbm、3dm
(11) The distortion that cause by harmonic wave and intermodulation: at least 20db than the level of fundamental wave, the signal limiting length:＞40ms digit, discharge parameter quantity:＜15db
(12) Exit Delay: 000-255 seconds adjustable
(13) Entry Delay: 000-255 seconds adjustable
(14) Power Output: DC 12V, 100mA
(15) External Siren: 12V wired siren (110dB)
(16) Field hearing time when alarming: 30S
(17) Alarm Burst Model: the alarming model is open circuit alarming when the three-leg pin is inserted into the "1" position; and the alarm model is open/circuit alarming when the three-leg pin is inserted into the "2" position.
(18) Working Environment : temperature: 10℃~+45℃; relative humidity:≤95%
(19) Power Supply: AC220V±15%；DC12V/7Ah (optional)
(20) Dimension: 260mm*255mm*80mm

Ⅻ. Cautions

1. Before the program task, please turn the "***PROG.***" switch to the "***On***" position for programming or checking operation. And after the operation task is completed, make sure the "***PROG.***" switch is turn off ; otherwise, the alarm panel cannot work normally or subject to the disorder or deleting operation
2. The alarm panel is available for telephone network with DTMF dialing and GSM network.
3. With the function of anti-cut, anti-demolition for telephone external line, the host will trigger the alarm once the telephone external line is cut off or short- circuit when in both armed and disarmed condition

4. There are "***Sound***" and "***Mute***" switches available in the host. Please make sure that the switch status is in accordance with your requirement, avoiding no alarm when the host triggers the alarm.
5. Periodic test/examination for fault-elimination
6. Pay attention to checking whether the indicator light of wireless infrared sensors shine normally or not. If not, please change the battery to ensure its normal work.
7. After triggering alarm and no "***Reset"*** operation, the host will automatically stop alarm 10 minutes later.
8. With limited capacity, the backup battery is for the emergency. And the alarm panel should be supplied by power AC mainly.
9. The remote control is forbidden being drop heavily or being soaked. The battery for the remote control should be changed timely to ensure its normal work once its controlling distance become shorter
10. The company can offer half and one year warranty for our products.

Special Cautions

- This alarm system is required to be installed by the skilled professionals. And it should be qualified inspected by relative authority before being putting into operation.
- This alarm system is nothing but a complement of civic defense and material protection, which aren't afford to be ignored. To form an all-dimensional security system, please allocate some security staff with rigorous security regulation to strengthen the security where there is equipped with this alarm system.
- As an intelligent advanced burglar alarm system, this system can, to some extent, reduce the criminal rate and your loss and have a strong deterrent to the intruders. But you have to realize that any alarm system have their own limitations. Therefore, this alarm system cannot ensure that there is no any loss in monitored area. The idea that this system is the substitute for the life and property insurance is considered as to be unreasonable. So here we suggest you that you should check this alarm system regularly and cover the insurance on your life and property. Please note that our company will not be liable for any loss.
- Before choosing and operating this alarm system, you are requested to have a comprehensive knowledge about the monitored areas consulting the **<< Security and Prevention Engineering Technology Regulation>> (GB50348-2004)** to make sure this alarm system is up to your security requirement.

The following possible reasons to cause alarm failure:

- You forget to arm the alarm panel or electrify it due to your carelessness
- Your misunderstanding on the Users' Manual and misoperation make this alarm system work abnormally.
- In the sharp working environment, the wireless alarm system is likely to be subject to the transmitting failure or transmit the signal abnormally. Please check the reliability of the wireless transmitting regularly.
- The fault of telephone line connected into the alarm panel also causes the failure in sending the alarm information to you over the telephone timely.
- In order to avoid alarm failure caused by the skilled burglar when he round the sensor or invade from dead zone, you are requested to make out protection scheme and specify the sensor, or adjust the detecting angle for full zone.
- The sensitivity of passive infrared sensor will change along with the variation of temperature of working areas. When the temperature in the monitored areas reaches over 32℃, its detecting distance will become shorter with the temperature becoming higher. Please check the sensor and do some necessary adjustments.
- The component aging and the damage caused by human or itself will make the alarm panel fault alarm; therefore, you make an all-round check over this system to eliminate fault and ensure it work normally.
- Any electronic products have their own useful life. We suggest users getting a new one after 3-5 years to ensure their burglarproof effect.

If you want to store the alarm receiving number of 110 police stations, you should get the permit from them in advance and then transact the register procedure.