

TI110B1 GSM/PSTN Dual Network

Burglar Alarm System

I .Overview

TI110B1 GSM/PSTN Dual Network Burglar Alarm System is ADEMCO compatibility alarm system, which adopts the advanced security technology, American-originated chipsets and siemens industrial-grade GSM module. And it boasts its dual networks to send alarm information out. When something wrong is on one network, dual 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 host, detector, remote control and magnetic contact. And the large LCD and English intelligent operation window make it be user-friendly. It can be used in the institutional groups and business units for the security purpose. When alarm happens, if the normal telephone works well, the alarm system will send the alarm voice notification out by telephone network and send the SMS notification through GSM network; While the normal telephone cannot work normally, the alarm system will use GSM network to send the voice/SMS notification out. Besides, this alarm system supports network with ADEMCO Contact ID alarm receiving center to form a comprehensive monitoring system. When alarming, the computer of the center can show the alarm detailed information like alarm place, address, location, time and police resource distributor of the local police station through the electronic map, database and other so that the police dispatch will be arranged rapidly and timely.

II .Main Feature

- 16-wireless zone;2-wired zone; 1 emergency zone
- LCD Display; Keypad Operation; Perpetual Calendar
- Supports PSTN/GSM Dual Network
- Store/Check/Delete 6 groups of alarm receiving telephone numbers by SMS
- Store/Inquiry/Delete the alarm location by SMS
- Inquiry the latest 2 pieces of alarm information
- Two alarm volumes (High volume and Mute) available for your optional.
- Be compatible with ADEMCO Contact ID Communication Protocol
- 2 groups of timing arm/disarm time available
- Arm Stay and Arm Away for your optional
- Supports arm/disarm by remote control, cell phone and SMS
- Every defense zone can be set as emergency zone freely
- Learn code for easy to add the additional sensors
- Enter/Exit Delay time can be adjusted freely.
- 20 pieces of alarm information for your optional
- Supports wired interfaces for external siren and wired sensors
- Build-in large capacity rechargeable battery

III. GSM Module Program and Operation

GSM Module Alarm Receiving Overview:

When alarming, if the local telecommunication 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: Protected Business Center

Alarm Zone: 007

Alarm Type: Steal

Note: it is unnecessary for you to turn on the "Program" 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 programming 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*7I*XXXXX...X” and send it to the GSM SIM card. And the *Ist* number is stored successfully. Besides, the *Ist* 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 “8888*7I*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*7I*XXXXX...X/” and send it to the GSM SIM card. And the *Ist* number is stored successfully. The *Ist* 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 “8888*7I*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*7I*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 group)

For example: you use program cell phone to edit “8888*7I*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 “888888*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 “8888*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 “8888*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—13XXXXXXXXXX (the 1st alarm receiving number)

2—13XXXXXXXXXX (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.

- (1) **Store the 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)
- (2) **Check the 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.
- (3) **Cancel the Alarm Location:** you can edit “888888*41#” to cancel the alarm location.

7. Remote Arming/Disarming Operation Password

- (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:

Protected Business Center (Alarm Location)-----Disarm Code
Protected Business Center (Alarm Location)-----Arm Code

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 voice, 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: THIEF Type: Emergency

Note: the “002” “007” stands for the zone number and “Steal” and “Emergency” 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: “Techwell 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: “Techwell 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 circulate 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 voice. You are allowed to disarm the alarm panel by inputting “7777” during listen-in.

IV. Fixed Telephone Program and operation:

Fixed telephone alarm receiving overview: when alarming, the fixed telephone will dial the alarm receiving numbers to send the alarm voice notification out (Note: the GSM auto-dial will not dial the numbers stored in the GSM SIM card when the fixed telephone works well). And meantime please note that you make sure that the “Edit” switch be turn on before starting programming.

1. Operation Notice

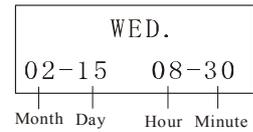
- (1) Turn on the “Program” switch, and simultaneously the screen displays “Program” with the “ Program ” indicator shining, and then you can start operating programming item. On finishing the program task every time, please press “ (Reset) ” key for next operation.
- (2) After all the program tasks have been completed, please turn off the “program” switch. Otherwise, the alarm panel will not work normally.
- (3) The “Program” switch is turned on, and if you do not operate any program task or forget to turn off the switch within 30 seconds, the alarm panel will give “di” prompt voices, which remind you to turn off the “program” switch or do continuous operation.

2. Set the current time (24-hour system)

- (1) With the perpetual calendar, the alarm panel can automatically calculate and display odd/lesser month, leap month/year and week.
- (2) The procedure to input the current time (24-hour system): Year—week—month—date—hour—minute. Every item should be input with double-digit number, and if it is not double digits, please add “0” ahead. For example, this month is February, and you are required to input “02”
Demonstration: supposing the current time is 8:30, Wednesday, 15th, February, 2006
Operation steps: press the key “ (Reset) ”, and then input

0 6 0 3 0 2 1 5 0 8 3 0 Enter
 Year(06) Wednesday February 15th Hour(08) Minute(30)

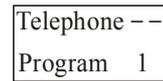
and the alarm panel sounds a long indicator with the screen displaying but no year.



3. Store the common alarm receiving number

(1) Demonstration: supposing the first group of alarm receiving number is 22392458

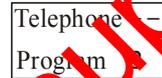
Operation steps: press the key “Store”, and the screen displays Telephone -- , and then input



2 2 3 9 2 4 5 8 Enter , and then a long prompt voice, which means the first group of alarm receiving number has been stored successfully.

(2) Demonstration: supposing the second group of alarm receiving number is 1390597368

Operation steps: press the key “Store”, and the screen displays Telephone -- and



then input 1 3 9 0 5 9 7 3 6 8 Enter , and then a long prompt voice, which means the second group of alarm receiving number has been stored successfully

Note: The above way is applicable for storing the third to the sixth groups of alarm receiving numbers.

(3) The key “Ring Stop” is used for dialing interrupting and pausing key of alarm telephone, and it can be applied for segment dialing of dialing extension number. After entering the telephone number, press the key “Ring Stop”, the first segment dialing is 3 seconds from the second segment dialing, and then press twice to pause 6 seconds. For example, the telephone is 22379620 5 8 after dialing 22379620, pause 3 seconds and then dial 518.

4. Modify and delete telephone number

If the telephone number you stored is wrong, or you want to store a new one, you can press the key “Reset” 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 the key “Store” till the screen displays the telephone number you want to delete, and then you press the key “Delete”, then the host sounds a long prompt voice, which means that you have successfully deleted the number.

5. Set arming model (Note: each zone should be input with two-digit number. If not, please add “0” ahead)

- (1) **Arm Away (Wholly Arm):** when there are no stayers in all zones, you can set all the defense zones into “Arm Away” model. Namely, all the zones can send the alarm signal to the alarm panel and trigger alarm whistle when some intruders enter the zones.
- (2) **Arm Stay (Partly Arm):** when there are stayers in some zones, you can set those zones

into “Arm Stay”. When some intruders enter those zones, the detectors in those zones can send the alarm signal to the alarm panel and trigger alarm whistle. While those zones where some stayers are in will be disarmed condition and will not send the alarm signal as though intruders enter into.

a. Set zones into Arm Stay

Demonstration: set the 2nd zone, and the zones from the 4th to 16th into Arm Stay while the 1st and 3rd ones are set into Arm Away

Operation steps: Press the key “Zone” key, and the screen displays

PROG.	Partly Arm
Zone	

Then input

0 2 0 4 0 5 0 6 0 7 0 8 0 9 1 0 1 1 1 2 1 3 0 4 1 5 1 6

Enter. The alarm panel sounds a long indicator voice to inform you that you have set the Arm Stay successfully

b. Set zones into Arm Away

Demonstration ①: set the zones from 1st to 12th into Arm Away

Operation steps: Press the key “Zone” continuously, and the screen displays

PROG.	Wolly Arm
Zone	

Then input

0 1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0 9 1 0 1 1 1 2

Enter. The host sounds a long indicator voice to inform you that you have set the Arm Away successfully.

Demonstration ②: set all the zones into Arm Away

Operation steps: press the key “Zone” key continuously, and the screen displays

PROG.	Wolly Arm
Zone	

.Then press the key “Enter” directly. The alarm panel sounds a long indicator voice to inform you that you have set all the zones into Arm Away successfully.

c. Set Emergency Zone

Demonstration: set the 9th and 10th zone into Emergency Zone

Operation steps: press the key “Zone” repeat, and the screen displays

PROG.	Disarm
Zone	

Then input 0 1 0 Enter. The alarm panel sounds indicator voice. The “Emergency Zone” is 24-hour zone without controlling by the arm/disarm operation, so the zone status show “Disarm

Cancel “Emergency Zone”: press the “Zone” continuously till the screen displays the “Emergency Zone” under the Disarm condition. Then then input 8 Enter. The alarm panel sounds indicator voice to inform that you have cancelled the “Emergency Zone”

d. Modify the Arm Stay/Arm Away/Emergency Zone

You can use the above way to reset the zones, and the new setting will automatically cover the former zones. And the setting is subject to the latest one.

6. Set the alarm type (Note: each zone should be input with two-digit number. If not, please add “0” ahead)

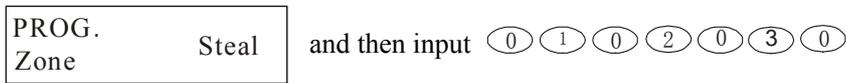
(1) There are seven alarm types available (Perimeter, Robbery, Steal, Emergency, Smoke/Gas and

Aid". Press the key "Alarm type", and the screen display these seven alarm types in order. (Note: all the zones will be default to be alarm type "Steal" if you don't do this program)

(2) Set the "Steal" alarm type

Demonstration: set the zones from 1st to 5th, 10th and 12th zones into "Steal"

Operation steps: press the key "Alarm type" continuously, and the screen displays



4 0 5 1 0 1 2 Enter. and the alarm panel sounds a long indicator to inform that you have set the alarm type successfully. When alarming, the screen will display the alarming zone and their alarm types

(3) Set other alarm type

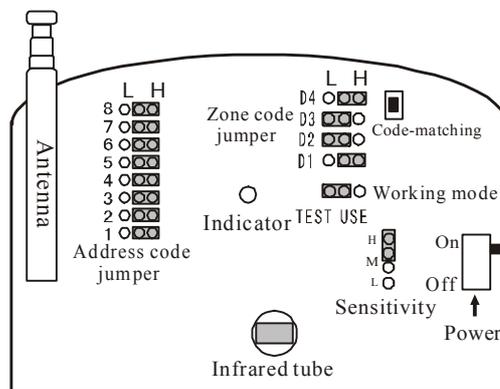
Similarly, you can press the key "Alarm type" continuously and when the screen displays the alarm types, and you input the zones and press the key "Enter". And then you can set the alarm type successfully. (Note: the zone number should be 2-digit; if not, please add "0" ahead)

(4) Cancel the alarm type: press the key "Alarm type", and when the screen display the alarm type which you want to cancel, please input 8 Enter. The host sounds a indicator voice to inform that you have cancelled it.

7. Prerecord the alarm language segment

- Turn on the "program" switch and press the "Rec." key without releasing. When seeing that the recording indicator shining, you can aim at the microphone to prerecord 20-second alarm language segment. On prerecording the language, please turn off the "Program" switch.
- Replay recorded segments: press the "Play" key and you hear the segment that you prerecorded. If the segment is not clear, you can record once again and the new one will automatically cover the former one.
- Delete the recorded segment: press the "Rec." keys and the recorded segment will be deleted.

8. Match code between the detector and the host (Note: this way is suitable for the add-on detectors, and there is no need for the original detectors to rematch code with host)



The structure of Circuit Board of Detector

- (1) Uncover the plastic shell of the detector, and if you want to make it match code into the

PROG	
Zone	1

- first zone, you can press the “” once. And the screen displays
and then you press the built-in “code-matching” button of detector without releasing. When seeing the transmitting indicator of detector shining, you press the “”. Simultaneity, you can hear a long prompt voice, which means your successful operation
- (2) Press the key “” continuously, and the screen displays will display zone number. And you can use the above way to match code with Zone 2-16
- (3) When matching code, if the alarm panel sounds “di di” indicator voice, it means that the code of this detector is the same as that of one of matched detectors or this zone have been matched code with 3 detectors. And you can choose another zone to match code this detector into or clear one of matched ones for this new one (Note: a zone is allowed to match code with 3 different detectors at most)
- (4) **Clear the matched code:** press the key “” till the screen displays the number of zone that you want to clear, and then press the “” key. And a long indicator voice will imply that the matched code has been cleared.

9. Match code between the alarm panel and remote control

- (1) Please press continually the “” key till the light of all the defense area, and press the “” key on the remote control without releasing, and then press the key “” of the alarm panel. You will hear a long indicator voice to inform that the remote control has been matched code successfully. (Note: a host is allowed to match code with 15 different remote controls at most)
- (2) When coding with a new remote control, the alarm panel sounds “di di” indicator voice, which means that the code of this new one is the same as that of one of the matched ones or the host has been coded with 15 remote controls. You are not allowed to code the remote control again. And if you want to re-code, please clear the matched code first.
- (3) Clear the matched code: press continually the key “” key till all the indicators of 16 zones glitter, and then press the “” key. And you can clear all the matched code with the remote control successfully.

10. Rise/Modify the password

Demonstration: supposing that the password is 5678

Operation steps: press the key “”, and then press     
and a long indicator voice will imply that you have set it successfully.

Modify the password: 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.

11. Set Ring Times (Arm/Disarm by telephone)

(1) You are allowed to arm/disarm this system by remote telephone. The alarm panel will automatically hang off after several rings and then you can arm/disarm this system by telephone.

(2) 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 that the ring times is 5

Operation steps: press the key "Ring Stop", and then press 0 5 Enter, and a long indicator voice reminds that you have set it successfully.

(3) Cancel ring times (Cancel the function of arm/disarm by telephone): press the key "Ring Stop", and the press 0 0 Enter.

12. Set the time of "Timing Arm/Disarm"

(1) Demonstration ①: Supposing that the first group of timing arm time is 23:30 from Monday to Friday, and the timing disarm time is 6:30am next day.

Operation steps: press the key "Timing" once and the screen displays

FF - FF	FF - FF
Timing L Timing Arm	L Timing Disarm
PROG. 1	

Then input 2 3 3 0 0 6 3 0 0 2 0 3 0 4 0 5

23:30 6:30 (Next day) Monday Tuesday Wednesday Thursday Monday

Enter. The alarm panel sounds a long indicator voice, which means that you have set it successfully.

Demonstration ②: Supposing that the second group of timing arm time is 8:00 am on Saturday and Sunday while the timing disarm time is 8:00 am next day.

Operation steps: Press the key "Timing" twice, and the screen displays

FF - FF	FF - FF
Timing L Timing Arm	L Timing Disarm
PROG. 2	

Then input 0 8 0 0 0 8 0 0 0 6 0 7 Enter. The alarm panel sounds a long indicator voice, which means that you have set it successfully.

8:00 8:00 (Next day) Saturday Monday

(2) Cancel the timing arm/disarm time

Press the key "Timing" once, and the screen displays the time of the first group of timing arm/disarm. And then you can press the key "Enter". The host sounds a long indicator voice to inform that the first group of timing time has been cancelled.

You can use the above way to cancel the second group of timing time.

13. Set the Entry/Exit Delay time

(1) **Entry Delay:** When the defense area is in the armed condition, the host has adjustable 000- 255 seconds' delay in triggering the alarm from receiving the alarm intrusive signal.

(2) **Exit delay:** the host has adjustable 000-255 seconds' delay in entering the armed condition from receiving the arming order.

Demonstration: supposing the entry delay time is 10 seconds and the exit delay time is 15 seconds.

Operation steps: press the "Delay" button, and the screen displays

000	000
PROG.	

, and then press $\textcircled{0} \textcircled{1} \textcircled{0} \textcircled{0} \textcircled{1} \textcircled{5} \textcircled{\text{Enter}}$, you can hear that a long

Entry delay 10s Exit delay 15s

indicator voice, which implies that you have set it successfully.

Cancel the Entry/Exit delay time: press the “ $\textcircled{\text{Delay}}$ ”, and then press $\textcircled{0} \textcircled{0} \textcircled{0} \textcircled{0} \textcircled{0} \textcircled{0} \textcircled{\text{Enter}}$, and a long indicator voice will remind you that you have cancelled it successfully.

14. Store telephone number of alarm receiving center:

(1) Store telephone number of alarm receiving center

① If the alarm panel is not networked with the alarm receiving center, you don't do the following operations

② When the host wants to be networked with alarm receiving center, please store the center number into the 1st group (priority to others). And the common alarm receiving numbers are stored in the 2nd to 6th groups.

Demonstration: supposing that the telephone number of the alarm receiving center is 2392468, the user's identification code is 000, and the telephone number is stored in the 1st group.

Operation steps: press the key “ $\textcircled{\text{Store}}$ ”, and the screen displays

TEL.	—	—
PROG.	1	

And then press $\textcircled{2} \textcircled{3} \textcircled{9} \textcircled{2} \textcircled{4} \textcircled{6} \textcircled{8} \textcircled{*} \textcircled{0} \textcircled{0} \textcircled{0} \textcircled{1} \textcircled{\text{Enter}}$ and you can hear a long indicator voice, which means that you have stored the number successfully.

Telephone number of the center Mark User's ID

(2) Report to the center when arming

Press the “ $\textcircled{\text{Store}}$ ” button continuously till the screen displays

TEL.	—	—
PROG.	7	

press $\textcircled{2} \textcircled{3} \textcircled{9} \textcircled{0} \textcircled{2} \textcircled{4} \textcircled{6} \textcircled{8} \textcircled{*} \textcircled{0} \textcircled{0} \textcircled{0} \textcircled{1} \textcircled{\text{Enter}}$, and you can hear a long indicator voice, which means that you have stored it successfully.

Telephone number of the center Mark User's ID

(3) Report to the center when disarming

Press the “ $\textcircled{\text{Store}}$ ” button continuously, and the screen displays

TEL.	—	—
PROG.	8	

, and then press $\textcircled{2} \textcircled{3} \textcircled{9} \textcircled{2} \textcircled{4} \textcircled{6} \textcircled{8} \textcircled{*} \textcircled{0} \textcircled{0} \textcircled{0} \textcircled{1} \textcircled{\text{Enter}}$, and you hear a long indicator voice, which means that you have set it successfully

Telephone number of the center Mark User's ID

(4) Cancel the report when arming/disarming

Press the “ $\textcircled{\text{Store}}$ ” key continuously, and when the screen displays the center number, you then press the “ $\textcircled{\text{Delete}}$ ” key. And a long indicator voice reminds you that the report function has been

cancelled.

15. Query or Check the program items:

On completing the program task, you are allowed to query or check whether the program items are with accordance to you request or not. You need to turn on the “program” switch initially. And when the checking operation is over, you should make sure the switch is turn off.

(1) Check the alarm receiving number

Please press the “ (Store) ” once, and you can see the first group of alarm receiving telephone number. And press this button twice, and you can check the second number. Similarly, you can do as this way to check 6 groups of numbers and the 7th and 8th arming/disarming report setting. And press the “ (Enter) ” key to turn down to the next page. On checking, please press the key “ (Reset) ”

(2) Check the “Arm Away” “Arm Stay” “Emergency” Zones

Please press the key “ (Zone) ”, and you can check the zones of Arm Away, Arm Stay and Emergency Zone. And the “Emergency Zone” is the 24-hour zone which is controlled by the Arm/Disarm operation, and it is display in the column of “Disarm”. On checking, press the key “ (Reset) ”

(3) Check the “Enter Delay” and “Exit Delay”

Please press the key “ (Delay) ” once, and the LCD will display six digits, among which the first 3 digits is Enter Delay (second) and the latter 3 digits is Exit Delay. On checking, press the key “ (Reset) ”.

(4) Check the password (remote control by cell phone)

Please press “ (Code) ” button, and the LCD will displays the 4-digit password. On checking, press the “ (Reset) ” button.

(5) Check the ring times

Please press the key “ (Ring Stop) ” once, and the LCD display will display ring times. On checking, press the “ (Reset) ” button.

16. Arm/Disarm Operation

(1) Arm by remote control

Press the key  on the remote control, and the screen displays “Date”、 “Arm Away” and Zones under “Arm away” with “di di” indicator voice; press the key , and the screen displays “Date”、 “Arm Stay” and zones under “Arm Stay”. If the alarm panel has been set into Entry delay/ Exit delay time, you should leave the monitored area when you hear the prompt voice within the specified time.

(2) Disarm by remote control

Press the  key on the remote control, and the alarm host sounds “di di” indicator voice.

Meantime, the zones will be replaced by the Characters “ Disarm” and “Emergency Zone” on the LCD display.

(3) Arm/Disarm by remote-site cell phone

Dialing the telephone connected to the alarm panel by remote-site telephone, and you will hear indicator voice. Several rings later, you input the 4-digit password. If the password is correct, you will hear a long prompt voice and then you can continue to input “2” to arm the alarm panel or input “8” to disarm the alarm panel; if the password is wrong, you also can hear a short indicator voice to remind that you can continue to input the correct one without hanging up the telephone.

17. Dispose the alarm by fixed telephone

When alarming, the alarm panel will dial the alarm receiving numbers in order and circulate. And you can hear the alarm language segments first (20 seconds), and later the alarm host will listen-in the locale. And during the listening-in time, the alarm whistle will pause and you are allowed to dial “7777” to disarm the host. When the alarm panel dials the first group of number, you hang it off immediately or don't disarm the host, and the host will continue to next one in order and circulate till the host is disarmed. (Note: every number will be dialed three times). And if you want the alarm panel to dial this group of telephone, you can input “0000” and the host will not dial this number.

18. Emergency Alarm

The Zone 7 is the default to be the emergency zone, and it is the 24-hour zone without controlled by the disarm/arm operation. Any press the  on the remote control will trigger the Zone 7 (Emergency Zone). When some unexpected events happen, you can press the  button to trigger alarm whistle. And the LCD displays “Emergency” with the indicator glittering. (Note: the indicator will not glitter until you disarm the alarm panel)

V. Installation:

1. Install the Wireless Magnetic Contact

(1) Make sure that the door (window) frame where the magnetic contact 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 1cm (see diagram1)

(3) To make sure that you have a successful installation, please open the door for test. The

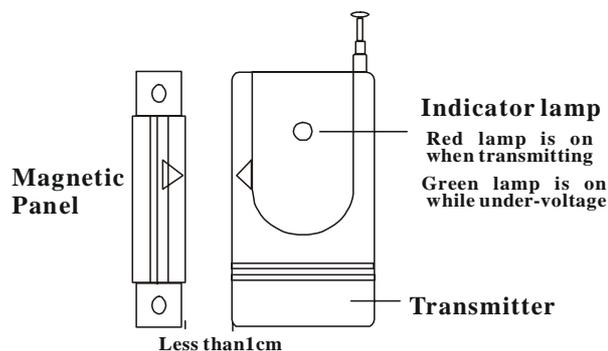


Diagram 1: Wireless Magnetic door detector

“transmitting” indicator light shines when the door is opened, and the host touches off the alarm, which means you have successfully install it. But when the light signal is green, it means that the battery for the magnetic contact has electricity shortage and the battery should be changed.

2. Install Passive Infrared Detector

Please put the battery of the infrared detectors at the proper position and mount it at the height of 1.8-2 m with its lens aiming at the monitored area. And then turn on the power switch for test, and the red indicator will shine. One minute later, the detector will be in the alert state. And at the moment, if someone motioned in the monitored zone, the red indicator shines again and sends the intrusive signal to the alarm panel to touch off the alarm.

3. Install the host

- (1) Before starting installing the alarm host, make sure that the install location should be near the telephone line and the power socket. When it being installed on the wall, please mark the screw hole first on the wall for correct installation.
- (2) Optional accessories: wired sensor, multi-beam sensor, wired panic emergency button, external high siren (Installation refers to Diagram 2)

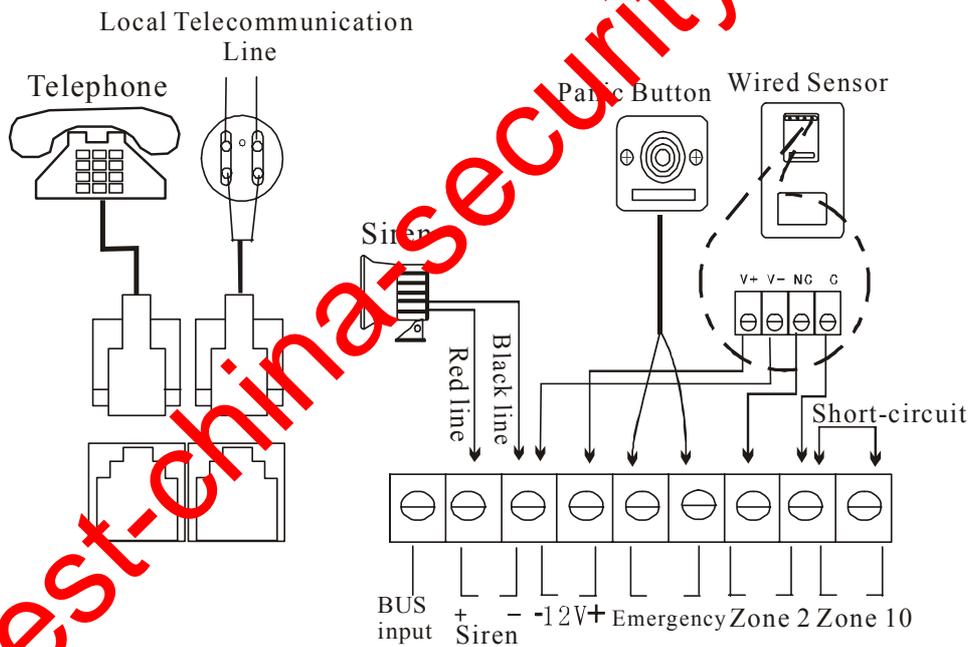


Diagram2: Wiring Diagram

- (3) Wired Sensor Wiring: there are two wired zones (Zone 2 and Zone 10), and they are wireless and wired compatibility. When installing the wired sensors, please use the 4-core wire. Take off the short-circuit wire at the ends of wired zone, and connect the positive pole and negative pole of the detector to the “+12” and “-12” of the alarm panel respectively (Note: please note the electrodes). And connect the signal terminals of the sensor to the counterparts of the alarm panel without distinguishing the positive and

negative electrodes. If you don't want to wired sensor, please don't take off the short circuit wire.

- (4) Extern Siren Wiring: there is an output terminal for external siren in the alarm panel. And when wiring , please pay attention on the electrodes of siren and alarm panel to ensure that you have a right wiring (Note: Red Line is positive and Black Line is negative)
- (5) Telephone Wiring: please insert the crystal plug of the telecommunication line into the "Telephone Line" interface of the alarm panel, and the telephone is inserted into the "Telephone" interface.
- (6) "Alarm Tone" and "Alarm/Mute" optional: you are allowed to choose the alarm tone with according to your real need. And it also supports "Alarm/Mute" optional. When the volume switch is at the "Alarm" place, the alarm host will sound alarm in the field. And when it is turn to the "Mute" place, the alarm host will not sound alarm but still sends the alarm information out to the alarm receiving number
- (7) Install Protective Cover: In order to protect from the wrong operation from others, please install the protective cover and fasten screws on the side of the host where there are " Edit "," Power ", "Alarm Volume " "Alarm/Mute " switches after installation and debugging.



VI. Technical Parameter:

- GSM module: TC35i or TC35 Industrial grade module
- GSM frequency: EGSM 900 and GSM 1800
- GSM module Voltage: 3.3—4.8V/ Working Current: 300mA (average)
- GSM Consumption power: 2W (EGSM900); 1W (GSM1800)
- SMS support format: AT, Text and PDU
- Baud rate: 300bit/s—115kbit/s optional
- Data transceiver mode: Asynchronous Serial interface (ITU-T RS232)
- The 20-second prerecording alarm language segment through the digital recording chip
- DTMF telephone dialing standard frequency: low frequency group: 697、770、852、941Hz; high frequency group: 1209、1336、1477、1633H;Distortion: more than 1.5%
- Level: the low frequency group:- 9dbm、 3dm ; the high frequency group:-701 dbm、 3dm
- 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
- Exit delay: 000-255 seconds adjustable
- Entry delay: 000-255 seconds adjustable
- Power output: DC 12V, 100mA
- Frequency: 315MHz/433MHz optional
- External siren: 12V wired siren (110dB)
- Working environment : temperature: 10°C~+45°C ; relative humidity:≤95%
- Power supply: AC220V±15%; DC 9.6V/600mA or 12V/600mA (optional)

- Dimension: 190×190×50mm (without antenna)

VII.Cautions:

1. Before the program task, please turn the “Program” switch to the “on” position for programming or checking operation. And after the operation task is completed, make sure the “Program” switch is turn off ; otherwise, the host cannot work normally or subject to the disorder or deleting operation
2. On programming the every item, please press the “Reset” button
3. The host is available for telephone network with DTMF dialing and GSM network
4. There are “high-volume” 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 detectors shine normally or not. If not, please change the battery to ensure its normal work.
7. After triggering the 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 host 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 is responsible for two year warranty of the products.
11. Please read the Special Cautions carefully

VIII.Fault Elimination

Here we offer you some possible causes and solution for your consideration when the alarm system cannot work normally or suffer from the operational failure. Please refer to the following chart

Troubles	Possible Reasons	Solutions
GSM fails to dial the numbers	GSM SIM card isn't placed well	Place the GSM SIM card into the right position
	GSM signal failure	Try to put the alarm panel to check whether the GSM signal shines or not. Note: Constant shining means the signal is ok
	Program cell phone fails to log in the alarm panel	(GSM SIM) Activate the caller display function and cancel the CRBT and then re-log in the alarm panel

Telephone fails to dial the numbers	Either the telephone or the local line is put in the wrong position	Put the local line and telephone line into the right positions
	The numbers you store are wrong or are not stored successfully	Re-store the right numbers
	There is something wrong with telecommunication line	Eliminate the fault of the local line
PIR detector doesn't work or is slow in detecting the target	Battery runs out	Change a new battery
	Detector is not activated or the alarm is not armed	Activate the detector and arm the alarm panel
	The detector is in the "USE" mode, and there is a interval of 1 minute before restart detecting	Change the working mode into "Test" mode to have a test
	The code has not been matched successfully	Rematch the code of detector
Repeat false alarm after months of working	The battery runs short	Change a new battery
Alarm failure when the indicator of magnetic contact still shines	The "Under-voltage" indicator shines and the battery runs out	Change a new battery
	The distance between the magnetic panel and the transmitter is too far	Make sure the distance between the transmitter and magnetic panel is within 1cm
	The code has not matched successfully	Rematch the code of magnetic contact
The remote control doesn't work	Some key get lock (the indicator shines)	Reset the lock key
	The battery runs out	Change a new battery
No alarm sound when alarming	The alarm panel is set into "Mute"	Set the alarm volume into "High-volume"
Immediate alarm on arming	The short-circuit wires of "Zone 2" and "Zone 10" get loose or fall off	Make sure the short-circuit wires fixed well
The alarm panel doesn't sound voice indicator when automatic code with detector/remote control	The zone has matched code with 3 detector or the alarm panel has matched with 15 different remote controls	If necessary, please clear all matched codes of this zone
	The code of detector is the same as that of one matched code of another detector	Clear the matched code or change the 8-address code of detector for different code