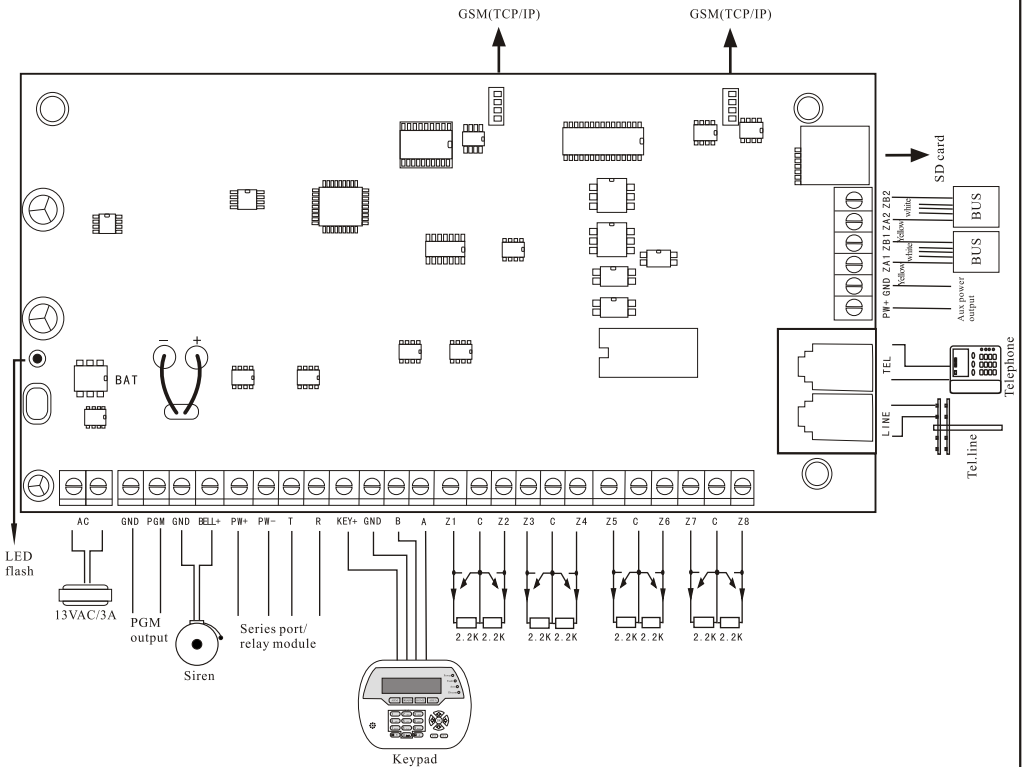


FC-7668 user manual



P/N: 2012071201

FC-7668 WIRING DIAGRAM



Power supply

- Only can use 12V/7AH sealed lead-acid battery, change battery every 3-5 years
- With 1 keypad, power consumption 250mA, support for 16 working hrs.
- Total power consumption (keypad, auxiliary power, siren) can't exceed max. power consumption of control panel
- Max. Rechargeable current of battery: 350MA

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Foreword

FC-7668 is a intelligent alarm control system which integrated with burglarproof, fireproof, gas leak proof. It is compatible with wired and wireless alarm mode.

FC-7668 refers to the most advanced coding techniques of BUS zone and multi-bit random code-hopping techniques in security & reliability, to avoid false alarm and interference effectively. FC-7668 adopts SMS, GSM, high-speed CONTACT ID etc. alarm signal transmission mode. This system is widely used in residence community, villa, shops, offices. More information please careful read the user manual.

Warning:

- Don't disassemble or modify, or else may be lead to danger and the damage of panel.
- Be sure not to cause to break by falling or throwing down or strong impacting. Not install near the magnetic field, may because instability.
- Keep dry and clean. Don't install the panel in the site which has oily fume, water-vapour, much poudre.
- Be keep out of the sun and heat. Don't install the panel near the heating stove etc. high temperature equipment, such as spotlight. Keep out of the direct sunlight, may cause color fading.
- When cleaning, wipe with the mull. To remove dirt need to use detergent, don't use gasoline or paint thinner etc. chemicals. Or else may cause damage or the paint scaled off the panel.

Features:

Zones: 8 wired/32wireless/128BUS zone

Keypad and remote: Support 10pcs LCD keypad and 16 remotes

Password: 1 installer code, 1 master user code, 32 user codes

CMS: 2 CMS follow me numbers, 2 account number

Voice number: 8 voice numbers, Voice prompting operation

Event log: 512 event logs

Partition: 8 partitions, user can assign any zones to any one or several partitions.

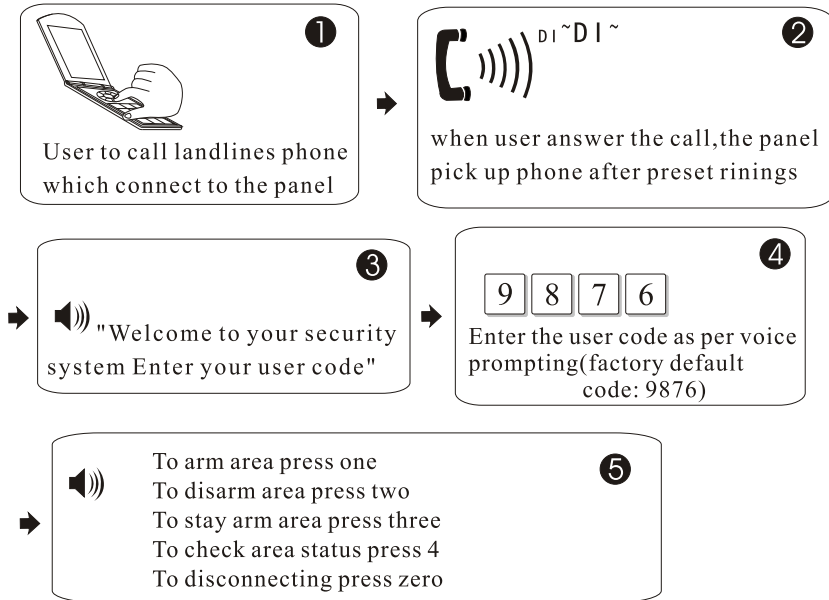
User can authorize any keypad to manage each partition and several partition. User can set different voice number to be notified when any of the partition is triggered.

Auto armed/disarmed: 8 timer for autoarm/disarm, user can set timer for different partitions

Siren and Electric switch: Support 8 wireless two way siren, 32 wireless electric switch

Module expanded: GSM/GPRS module, serial port module, relay module, TCP/IP module, PGM output, SD card port. User can upgrade the system to latest software via SD card in local and also can import the zone names from SD card.

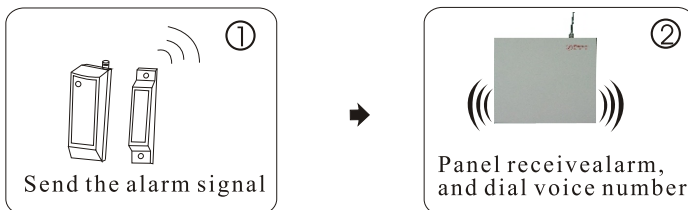
1、Remote control by phone

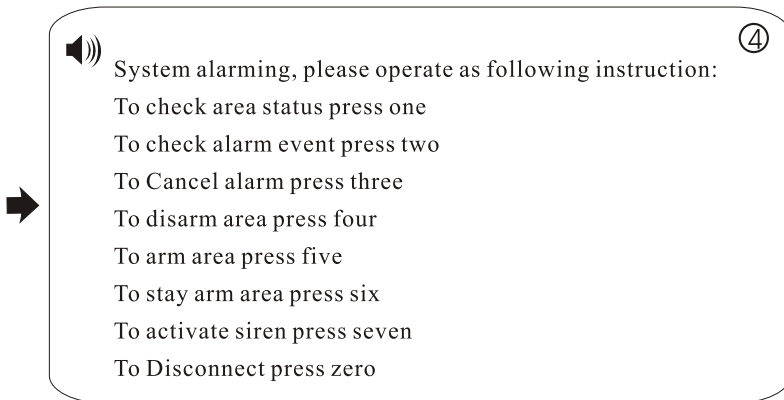


2、Follow me operation

When the detector is triggered, the panel will sound alarm and display the triggered zone number and alarm type on the LCD screen. The panel will give a alarm and dial the preset voice numbers if the panel received the alarm.

The user can hear indication after he took the phone. The user operate follow the voice indication to disarm/arm, inquire and monitor.





Remote operation by GSM

User call into the GSM number of the panel and enter master user code 9876(factory default) when you are asked to “ enter your user code” as per voice prompting. User can operate as the following instruction:

- To arm area press one
- To disarm area press two
- To stay arm area press three
- To check area status press four
- To disconnecting press zero

GSM alarm receiving

When alarm occurs, GSM will call the preset voice numbers, when user offhook the phone call. You will hear the voice prompting as below

- To check area status press one
- To check alarm event press two
- To Cancel alarm press three
- To disarm area press four
- To arm area press five
- To stay arm area press six
- To activate siren press seven
- To Disconnect press zero

GSM SMS Command

- To Arm system command: `pw:9876 aa:x (x=1--8)`
- To Disarm system command: `pw:9876 da:x (x=1--8)`
- To Home arm system command: `pw:9876 sa:x (x=1--8)`
- To Enable the electrical switch command: `pw:9876 os:xx (xx=01--32)`
- To Disable the electrical switch command: `pw:9876 cs:xx (xx=01--32)`

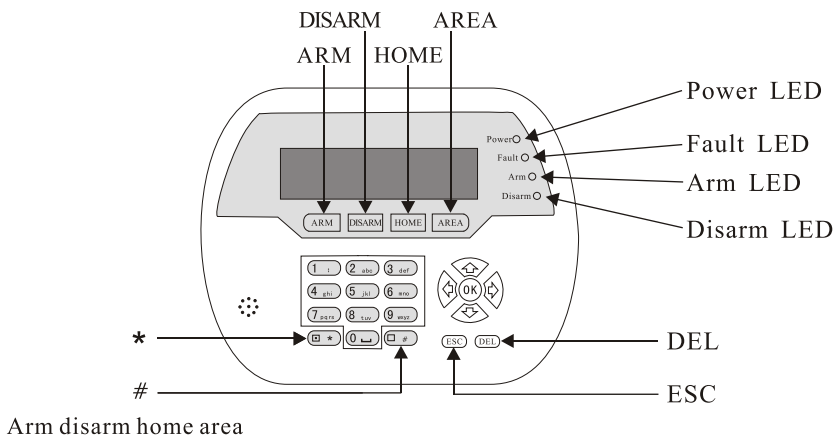
Remarks:

X value is the partition number between 1-8 or the electrical serial number between 01-32
Master user code:9876(factory default).

Make sure no any capital letter of the command letter.

There will be auto SMS reply from the panel if command successful, eg. If arm successful, you will receive a SMS of “Area Successfully Arm” from the panel.

3.Keypad



Power LED: slow flash when battery is in trouble, light off when AC fault, Light on when system work properly.

Fault LED: slow flash when system is in trouble, Light on when zones is in trouble, Light off when system work properly.

Arm LED: Light off when system is disarmed, slow flash when system is home armed, light on when system is away armed, fast flash when system is alarming.

Disarm LED: Light on when system is disarmed, light off when system is home armed, light off when system is armed, slow flash when zones are in trouble.

When there is different armed and disarmed status in different partitions, the arm LED will slow flash and the disarm LED will light off.

Arm : user can arm the whole system or arm each partition.

Area : to arm/disarm/home arm each partition

Disarm : user can disarm the whole system or disarm each partition.





***** : to set up

: to confirm

OK : to confirm

↑ :Scroll up, fire alarm(press it and hold it for 3 seconds)

↓ :Scroll down, to check event log under static status

-  : Scroll left, to bypass zone
 : Scroll right, emergency help (press it and hold it for 3 seconds)
 : to Esc
 : to delete

Basic operation


Installer code: 12345 (factory default)




Master user code: 9876 (factory default), manage 1-8 partition



User code: 32 different user codes

User setting:  + [9876] + 

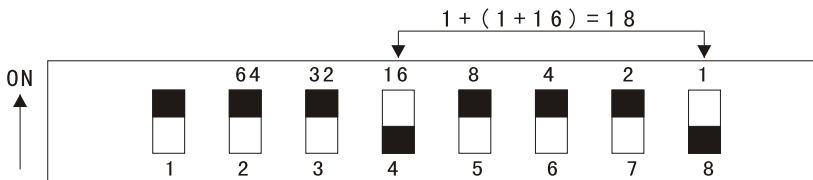
Installer setting:  + [12345] + 

Event log: press  to check to event log under static status

Bypass: user code +  +  + . The bypassed zone number will be displayed on LCD keypad when the zone is bypassed. User can only bypass the authorized zones. Only one keypad can be allowed to enter bypass setting at the same time; if one keypad is under bypass setting and other keypads try to make bypass setting at the same time, the system will remind operation failure.

Force disconnecting telephone line: master user code +  + [1] +  to force disconnecting telephone line. User can force disconnecting telephone line of the panel if the line is keeping busy.

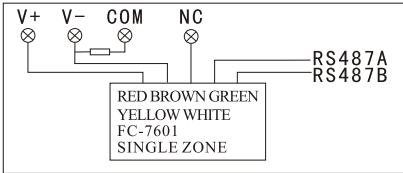
C7601 BUS zone expander



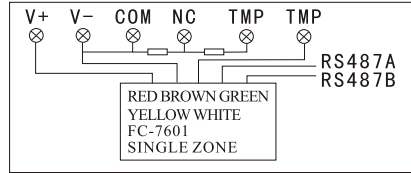
(fig 1)

1. FC-7601 is single zone module via dip switch address, EOL 10k
2. Zone expanded : NO. 1-128
3. Wire: red (DC+), Brown (DC-), yellow (RS487A), white (RS487B), green (zone inspection)
Brown also GND.
4. Working voltage: DC 8.5-24V
5. DIP 1: tamper inspection switch, ON — to enable tamper, OFF — to disable tamper

- 2-8 address digit. OFF —enable, ON—disable. Binary address, To set zone 18, user should be put DIP 4 and DIP 8 to be OFF, See (fig 1) all module address should be plus one.
- 6, The zone number in BUS module=module address number + 40, Eg. Zone 58=module address 18+40
- 7, Zone 41-168 is disable by factory default, user should enable firstly before use.



NO TAMPER



TAMPER

Arm and Disarm

☆ Arm

AREAX ARM
2009-03-25 15:30

Muser code[9876]+[ARM]or the away ARM button in the keyfob

☆ Disarm

AREAX DISARM
2009-03-25 15:35

Muser code [9876]+[DISARM]
or the DISARM button on the keyfob

☆ Emergency

AREAX ALARM
2009-03-25 15:30

Emergency help:press key in the keyfob or press and hold for 3s
fire alarm:press and hold for 3s

☆ Stay arm

AREAX STAY ARM
2009-03-25 15:30

Muser code +[9876]+[HOME] or press the home ARM key in the keyfob.

Arm more than one partition: User code + **Arm**

Eg: user code assigned for partition 1.2.3 Keypad
assigned for partition 2.3.4.

User code + **Arm** command partition 2.3 will be armed.

Arm one partition: **Area** + x(1-8) + user code + **Arm**

Force arm: ***** + user code + **Arm**

Force arm one partition: ***** + **Area** + x(1-8) + user code + **Arm**

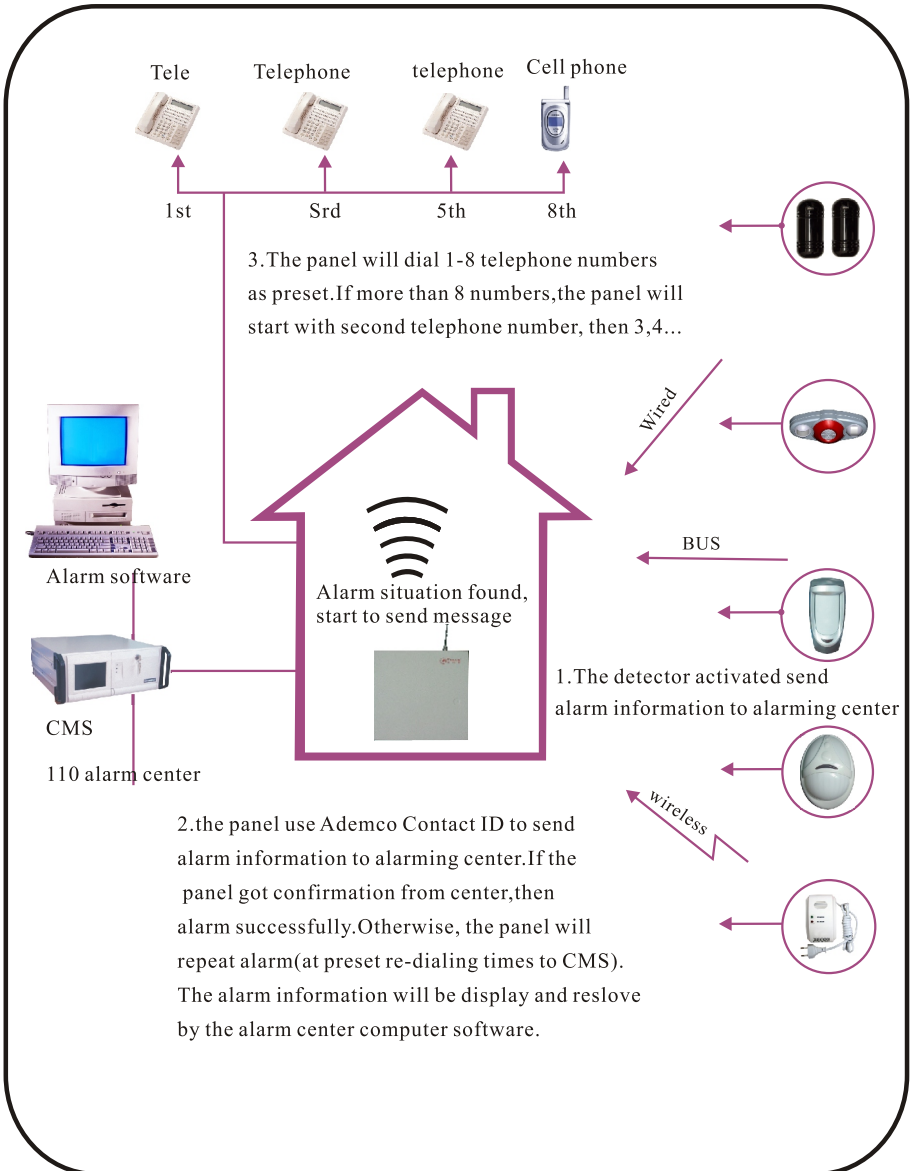
Home arm: user code + **Home**

Home arm one partition: **Area** + x(1-8) + user code + **Home**

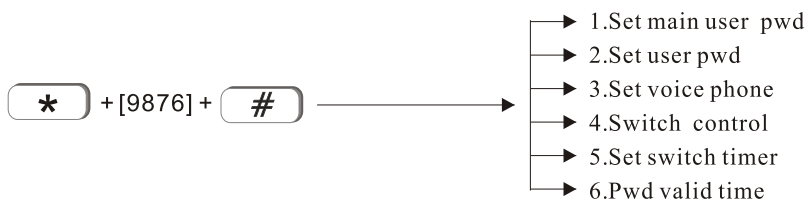
Disarm: user code + **Disarm**

Disarm one partition: **Area** + x(1-8) + user code + **Disarm**

alarm procedure

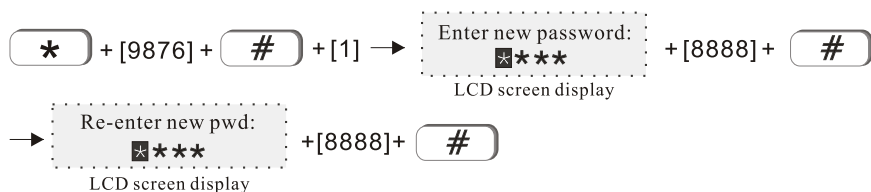


User setting



I. Set master user code

Example: Change master user code as :8888



The keypad will beep twice to confirm the code has been changed.

Press EXIT + # return to standby interface.

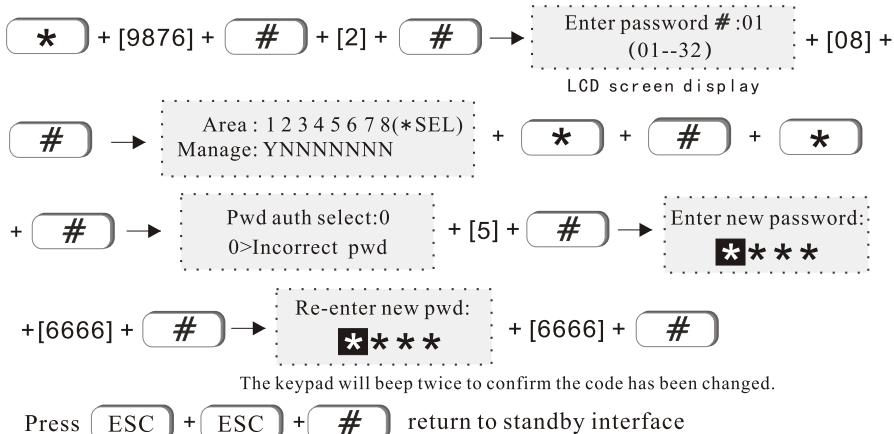
Note: Master user code can manage area 1-8.

II. Set User code

The authority of user code can be set as follows:

- 1>Arm/disarm and bypass code: with authority to arm/disarm or bypass zone.
- 2>Arm/disarm code: with authority to arm/disarm
- 3>Arm code: with authority to arm only
- 4>Temporary code: can perform arm/disarm operation only one time
- 5>Time limited code: with the arm/disarm authority in ± 15 minutes(as per the setting time)

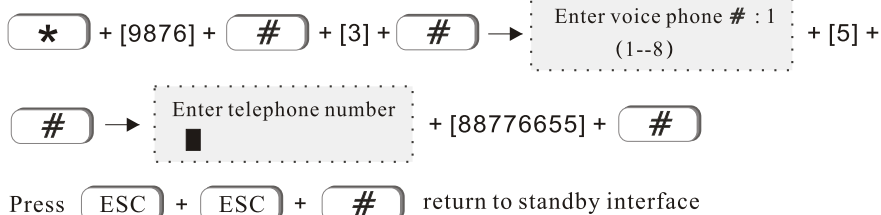
Example: Set the 8th user code as :6666, manage partition 2,3, authority is temporary code.



Note: Can set 32 user codes, N-disable the authority, Y- enable the authority

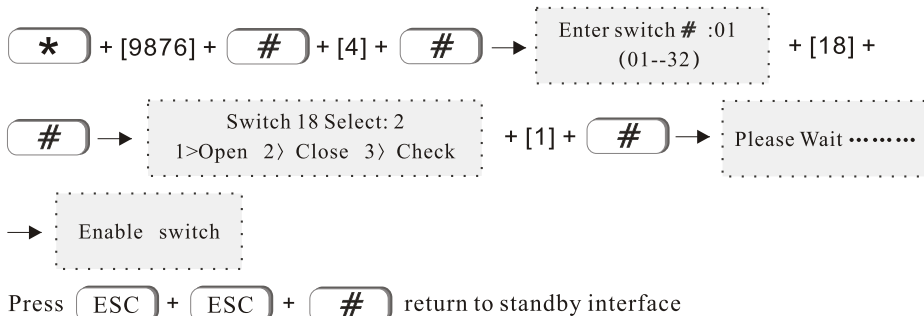
III.Set voice numbers

Example: Set the voice number 5 as 88776655






IV.Set appliance switch



Example: Enable 18th appliance switch









V.Set appliance switch timer




Example: Set 7th group appliance switch , enable 18th appliance switch at 9:55 on Tuesday and Wednesday

 + [9876] +  + [5] +  → Sel switch timer: 01
(01--32) + [07] +

 → Enter switch timer:
00:00(0H0M disable) + [0955] +  → Week:1234567(*SEL)
Valid: NNNNNNNN

+  +  +  +  → Enter switch #: 01
(01--32)




+ [18] +  → Switch 18 select: 2
2>enable 2> disable + [1] + 



Press  +  +  return to standby interface





Note: Can set 32 groups appliance switch timer, N-disable the authority, Y-enable the authority




VI.Set valid time for limited code

Example: Set 22ed user code is valid at 19:30 on Wednesday.

 + [9876] +  + [6] +  → Enter password #: 01
(01--32) + [22] +

 → Enter pwd validtime:
00:00(0H0M disable) + [1930] +  → Week: 1 2 3 4 5 6 7(*SEL)
Valid: NNNNNNNN

+  +  +  + 

Press  +  +  return to standby interface

Note: this valid time just for the time limited code

System setting

***** + [12345] + **#** →

- 1.Set system pwd
- 2.Set CMS
- 3.Set voice phone
- 4.Set system options
- 5.Set wl devices
- 6.Set system zone
- 7.Set system area
- 8.Set expand device
- 9.Set other options
- 10.Set exit system

Note: can do system settings under disarm status only

I.System code setting

***** + [12345] + **#** + [1] →

- 1.Set Admin pwd
- 2.Set main user pwd
- 3.Set user pwd

1.Set Admin code

Example: Set admin code as 55555

***** + [12345] + **#** + [1] + **#** → Enter new password: ********** + [55555] +

LCD screen display

→ Re-enter new pwd: ********** + [55555] + **#**

LCD screen display

The keypad will beep twice to confirm the code has been changed.

Press **ESC** + **ESC** + **#** return to standby interface

2.Set main user pwd

Please refer to user setting I

3.Set user pwd

Please refer to user setting II

II. CMS setting

***** + [12345] + **#** + [2] + **#** →

- 1.Set CMS line 1
- 2.Set CMS line 2
- 3.Set dialing times
- 4.Set dialing mode
- 5.Set report filter
- 6.Alarm dial delay
- 7.Comm fail process

1.Set CMS line 1

Example: Set CMS line 1 number as 9P80808080, user account number as 6666

***** + [12345] + **#** + [2] + **#** + [1] → Enter telephone No.:
■

+ [9*80808080] + **#** → Enter user #: 0000 + [6666] + **#**

Press **ESC** + **ESC** + **#** return to standby interface

Note: When you entering numbers,press ***** the LCD screen will display p,means 2s pause when dialing,just enter like this,when the panel connect the extension phone.
Or else enter 80808080 directly.

2.Set CMS line 2

Please refer to CMS line 1 setting

3.Set dialing times: default setting is 6.

Example: Set dialing times as 5.

***** + [12345] + **#** + [2] + **#** + [3] + **#** →

Enter dial times: 06
(00--15) + [05] + **#**

Press **ESC** + **ESC** + **#** return to standby interface

4.Set dialing mode: default setting :report to CMS 1, CMS 2 standby.

The dialing mode can be set as follows:

- 1>Report to CMS 1: CMS 2 standby; all info will report to CMS 1 in priority, will report to CMS 2 when CMS 1 failed.
- 2>Alarm info to CMS 1, report to CMS2: send all alarm info to CMS 1, send report to CMS2; when alarm info is sending, then the report will send to CMS 1 together.
Meantime, alarm info will send to CMS 2.
- 3>Report CMS 1,2: all info send to CMS 1,2.

Example: set dialing mode: report to CMS 1,2

***** + [12345] + **#** + [2] + **#** + [4] + **#** →

Select dial mode: 1
1>Report to CMS 1

+ [3] + **#**

Press **ESC** + **ESC** + **#** Return to standby interface

5.Set report filter: To enable or disable report to CMS

***** + [12345] + **#** + [2] + **#** + [5] + **#** →

- 1.Arm/disarm report
- 2.Zone fault&resume
- 3.AC trouble&resume
- 4.Comm line resume
- 5.Bypass zonereport

5.1)Arm/disarm report: default setting: disable

Example: Send arm/disarm info to CMS

***** + [12345] + **#** + [2] + **#** + [5] + **#** + [1] →

Arm/disarm report: 2
1>enable 2>disable

+ [1] + **#**

Press **ESC** + **ESC** + **ESC** + **#** return to standby interface.

5.2) Zone fault resume : disable

Example: Send zone fault and resume info to CMS

***** + [12345] + **#** + [2] + **#** + [5] + **#** + [2] + **#**

→

Z Fault&resume rep: 2
1>enable 2>disable

+ [1] + **#**

Press **ESC** + **ESC** + **ESC** + **#** return to standby interface

5.3) AC trouble resume: default setting: disable

Example: Send AC fault and resume report to CMS

***** + [12345] + **#** + [2] + **#** + [5] + **#** + [3] + **#**

→






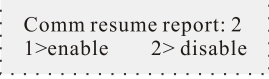





B Fault & resume rep: 2
1>enable 2>disable

+ [1] + **#**

Press **ESC** + **ESC** + **ESC** + **#** return to standby interface












5.4) Communication line resume: default setting: disable

Example: sending communication resume report to CMS

 + [12345] +  + [2] +  + [5] +  + [4] + 
 →  + [1] + 
 Press  +  +  +  return to standby interface

5.5) Bypass zone report : disable





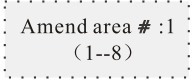

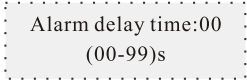





Example: send zone bypass info to CMS

 + [12345] +  + [2] +  + [5] +  + [5] + 
 →  + [1] + 
 Press  +  +  +  Return to standby interface.

6.Alarm dial delay: default setting is 00 second.





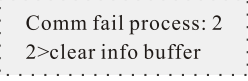




If you set a delay time, it will not send alarm info to CMS when you disarm the system in delay time.

Example: Set area 2 delay time as 15s.

 + [12345] +  + [2] +  + [6] + 
 + [2] +  →  + [15] + 
 Press  +  +  +  return to standby interface

7.Communication failed process: default setting: clear info buffer

Example: Set clear the current info

 + [12345] +  + [2] +  + [7] +  →
 + [1] + 
 Press  +  +  return to standby interface

When the serveral alarm informations send to CMS, if the user set clear current information mode, when the first alarm informations communication failed,the second alarm informations continue to dial CMS as the preseted ringing times. if the user set clear information buffer, when the the first alarm informations communication failed, the others informations no longer communicate CMS.

III、Set voice phone

***** + [12345] + **#** + [3] + **#** →

- 1.Set voice phone
- 2.Set dialing times

1.Set voice phone

Example: set 88776655 as the fifth voice number

***** + [12345] + **#** + [3] + **#** + [1] → Enter voice phone #: 1 (1--8)

+ [5] + **#** + [88776655] + **#**

Press **ESC** + **ESC** + **ESC** + **#** Back to the previous menu

2.Set dialing times:the factory default setting is 6 times.

Example:set the ringing time as 5

***** + [12345] + **#** + [3] + **#** + [2] + **#** →

Enter dial times: 06 (00--15)

+ [05] + **#**

Press **ESC** + **ESC** + **#** Back to previous menu

IV、Set system option

***** + [12345] + **#** + [4] + **#** →

- 1.Set system clock
- 2.entry delay setup
- 3.exit delay setup
- 4.Set bell time
- 5.Set ring times
- 6.Sensor loss check
- 7.comm interval
- 8.AC off delay rep
- 9.System language
- 0.other settings

1.Set system clock

Example:: set the system time as Dec.12.2012,23:59:59。

***** + [12345] + **#** + [4] + **#** + [1] →

Enter system time:
2011-01-01 12: 00: 30

+ [12 12 12 23 59 59] + **#**
Y M D H M S

Press **ESC** + **ESC** + **#** Back to previous menu

2.entry delay setup: after triggered delay zone,panel start alarming(default time is 10s).

Example: set the delay time is 20s 。

***** + [12345] + **#** + [4] + **#** + [2] + **#** →

Entry delay time: 10
(00--99)s

+ [20] + **#**

Press **ESC** + **ESC** + **#** Back to previous menu

3.exit delay setup: the time from the user arm to system armed successfully is 10s.

Example: set the exit delay setting is 20s

***** + [12345] + **#** + [4] + **#** + [3] + **#** →

Exit delay time:10
(00--99)s

+ [20] + **#**

Press **ESC** + **ESC** + **#** Back to previous menu

4.siren bell time: the default siren time is 5min

Example: the siren time is 15mins

***** + [12345] + **#** + [4] + **#** + [4] + **#** →





Enter siren time: 05
(00--30)min

+ [15] + **#**





Press **ESC** + **ESC** + **#** Back to previous menu

5.ring time setting: the user dial phone number which connect with panel to achieve remote control (the default time is 7

Example: ring time is 5 times





 + [12345] +  + [4] +  + [5] +  →

Enter ring times:07
 (00--15)00 disable





 + [05] + 
 Press  +  +  Back to the previous menu

6.Sensor loss check

Example: every 4 hours in spection of the detector loss

 + [12345] +  + [4] +  + [6] +  →

Sensor loss check: 00
 (00--99) H 00 disable





 + [04] + 
 Press  +  +  Back to the previous menu

Note: wireless detector send status report in every 3 hours.If the panel do not receive the report or alarming information, the detector lost.Recommended the testing time is not less than 4 hours.





7.Communication interval: time interval for the panel communicate with CMS.

00: no inspection

Example: communication test in every 10hours





 + [12345] +  + [4] +  + [7] +  →

Commtest interval: 00
 (00--99) H 00 disable





 + [10] + 
 Press  +  +  Back to the previous menu

8.A/C power off delay report: 00 as default value time the A/C power off delay

Example: set the A/C power off delay time as 5mins

 + [12345] +  + [4] +  + [8] +  →

AC off delay rep:00
 (00--99)M 00 disable

 + [05] + 
 Press  +  +  Back to the previous menu

9. System language: factory default is Chinese

Example: set English as system language

* + [12345] + # + [4] + # + [9] + # →

Select language: 1
1 > 中文 2 > English

+ [2] + #

Press ESC + ESC + # Back to previous menu

NOTE: system language and GSM SMS language shifted at the same time

0. other settings

* + [12345] + # + [4] + # + [0] + # →

- 1)tel. line check
- 2)battery check
- 3)comm fault remind
- 4)A/C off notify
- 5)Set force arm
- 6)AC on delay alarm
- 7)bell opposing
- 8)arm/dis bell chirp
- 9)Poor contact check
- 0)Panic bell

0.1) telephone line check: the factory default setting is enable

Example: telephone line off testing : Disable

* + [12345] + # + [4] + # + [0] + # + [1]

→ Tele-line check: 1
1 > enable 2 > disable

+ [2] + #

Press ESC + ESC + ESC + # Back to the previous menu

0.2) battery check: factory default is Enable

Example: battery status testing: disable

★ + [12345] + # + [4] + # + [0] + # + [2] + #

→ Battery check: 1
1 > enable 2 > disable + [2] + #

Press ESC + ESC + ESC + # Back to the previous menu

0.3) Communication fault remind: CMS can not receive alarming information, the panel indicate communication trouble. Factory default setting as Enable
Example: communication trouble indication as disable.

★ + [12345] + # + [4] + # + [0] + # + [3] + #

→ Coomm fault remind: 1
1 > enable 2 > disable + [2] + #

Press ESC + ESC + ESC + # Back to the previous menu

0.4) A/C off notify: the panel dial voice number after A/C power off., factory default setting as Enable

Example: dialing the voice number when A/C power off

★ + [12345] + # + [4] + # + [0] + # + [4] + #

→ AC off warning: 2
1 > enable 2 > disable + [1] + #

Press ESC + ESC + ESC + # Back to the previous menu

NOTE: the panel dial No.1 partation voice number or other partation voice numbers under system armed

0.5) Set force arm: Factory defalut setting as disable.

Example: set the force arm as enable.

★ + [12345] + # + [4] + # + [0] + # + [5] + #











→ Force arm: 2
1 > enable 2 > disable + [1] + #

Press ESC + ESC + ESC + # Back to the previous menu

NOTE: Normally the system is not allowed to arm, when zones are in trouble, But user can arm system by force arm.









0.6) AC ON delay alarm: When zones are triggered within 3 min after power up, The alarm can be programmed to be set off or not.

Example: set the power restore delay Disable.

 + [12345] +  + [4] +  + [0] +  + [6] + 
 → AC ON delay alarm: 2
 1 > enable 2 > disable + [1] + 
 Press  +  +  +  Back to the previous menu

0.7) Bell opposing: factory default setting as Disable.

Example: siren control opposing Enable.


 + [12345] +  + [4] +  + [0] +  + [7] + 
 → Bell opposing: 2
 1 > enable 2 > disable + [1] + 
 Press  +  +  +  Back to previous menu

NOTE: Disable: voltage between BELL and GND when system alarming, but no voltage under system disarmed.

Enable: no voltage between BELL and GND when system alarming, there is voltage under system armed











0.8) arm/disarm siren sound: system arm or disarm by remote controller, siren indication. Factory default setting as Disable.

Example: arm/disarm siren sound indication as Enable.

 + [12345] +  + [4] +  + [0] +  + [8] + 
 → Arm/disarm chirp: 2
 1 > enable 2 > disable + [1] + 
 Press  +  +  +  Back to previous menu





0.9) Door contact check: when the magnetic open, will show zone trouble, when magnetic close well, panel LCD shows zone restoral

Example: wireless magnetic open testing as Enable.




 + [12345] +  + [4] +  + [0] +  + [9] + 
 → Door contact check: 2
1 > enable 2 > disable + [1] + 
 Press  +  +  +  Back to previous menu

0.0) Panic bell: system panic alarming from the keyfob or keypad, siren enable or disable. The factory default setting as Disable.

Example: system panic alarming siren as Enable.

 + [12345] +  + [4] +  + [0] +  + [0] + 
 → Panic alarm bell: 2
1 > enable 2 > disable + [1] + 
 Press  +  +  +  Back to previous menu

V、Set wiveless


 + [12345] +  + [5] +  →
 1.Set remote
 2.Set wiveless sensor
 3.Set wiveless switch
 4.Set wireless Bell

1. Wireless remote controller setting

 + [12345] +  + [5] +  + [1] →
 1.auto program
 2.manual program
 3.delete wiveless code

1.1) auto program

Example: auto enroll the NO.2 remote controller

\star + [12345] + # + [5] + # + [1] + [1] → Enter remote #: 01 (01--16)
 + [02] + # → Trigger wl device: →  → WL device addressid: 226016063
 + #
 Press EXIT + EXIT + EXIT + # Back to the previous menu

1.2) manual program

Example: manual enroll the NO.3 detector.

\star + [12345] + # + [5] + # + [1] + [2] + # →
 Enter remote #: 01 (01--16) + [03] + # → Enter wl devicecode: 00000000 + [123456789] + #
 Detector code (enter):
 Press EXIT + EXIT + EXIT + # Back to the previous menu

1.3) delete wireless code

Example: delete NO.5 remote controller

\star + [12345] + # + [5] + # + [1] + [3] + # →
 Enter remote #: 01 (00--16) 00 All + [05] + # + Delete remote: 05 + #
 Press confirm key to confirm
 Press ESC + ESC + ESC + # Back to the previous menu

Note: enter 00 to delete all remot controller

2. Set wireless sensor

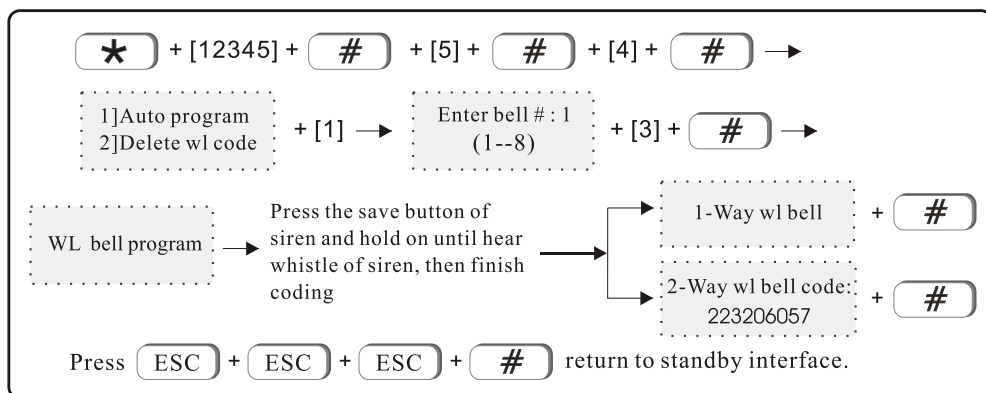
Refer to wireless remote setting

3. Set wireless switch

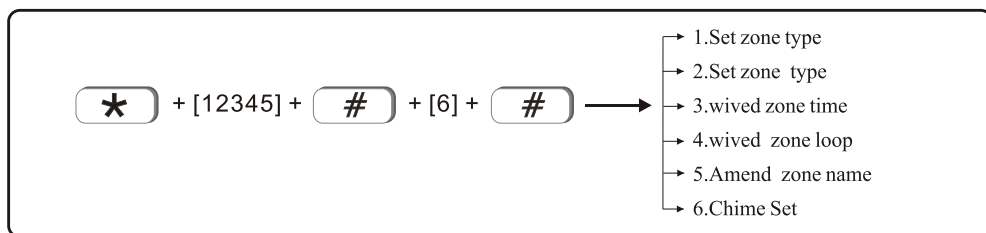
Refer to wireless remote setting

4. Set wireless bell: one way and dual way siren setting

Example: Auto code the third wireless siren



VI.Set system zone



1.Zone type setting

The options of zone type as below :

- | | | |
|-------------------|---------------------------|------------------|
| 0>Disable | 1> delay zone | 2>perimeter zone |
| 3>interior zone | 4>perosnal emergency zone | 5>24hours zone |
| 6>fire alarm zone | | |

Interior zone only active alarm when triggered under system away armed status ;










Delay and perimeter zone active alarm when triggerd under system home arm or away arm status ;

personal umergency zone, 24 hours zone, fire alarm zone active alarm when trigger under any system status.

Factory default:











Wired zone 1-8 enable, wireless zone 9-40 enable, bus zone 41-168 disable, 169 -176 is for dual way wireless siren, 177 is for system umergency zone. Pls connect 2.2k EOL on wired zone before power on, otherwise will cause zone trouble. pls connect 7601 bus module and enable the bus zone before use bus zone.

Example: set zone 18 as fire alarm zone

 + [12345] +  + [6] +  + [1] → Amend zone #: 001
(001--168)
 + [018] +  → zone # 018 zone type: 3
3>instant + [6] + 
 Press  +  +  +  return to standby interface.











2.Set bell type: default is continuous sound

Example: set zone 168 siren type as pulse tone

 + [12345] +  + [6] +  + [2] +  → Amend zone #: 001
(001--168)
 + [168] +  → Zone 168 bell type: 1
1>cont 2>pulse 3>mute + [2] + 
 Press  +  +  +  return to standby interface.

3.wired zone time: default is 500ms

example: set zone 7's response speed as 10ms.

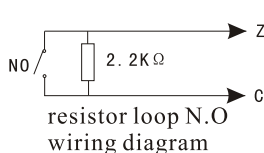
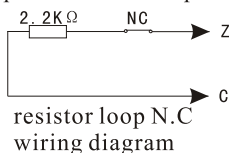
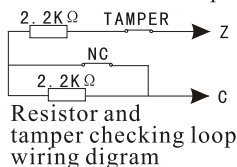
 + [12345] +  + [6] +  + [3] +  → Amend zone #: 1
(1--8)
 + [7] +  → zone 07 Rec time:2
1>10ms 2>500ms + [1] + 
 Press  +  +  +  return to standby interface.

Note: Normally the response speed of detector is 500ms, high speed detector like vibration detector's response speed is 10ms

4.wired zone loop type: factory default is resistor loop

Can set the loop as below types:

- 1>N.O loop: Zone normal under open loop, alarm under short-cut loop.
- 2>N.C loop: Zone normal under short-cut loop, alarm under open loop
- 3>Resistor loop: Normally when resistor is 2.2K, Zone alarm when open loop or short-cu loop.
- 4>Resistor and tamper checking loop: Normally when resistor is 2.2k, alarm when is, 4.4K. Zone alarm when open loop or short-cut loop.



Example: set zone 6 as resistor and tamper checking loop type

* + [12345] + # + [6] + # + [4] + # → Amend zone # : 1
 (1--8)
 + [6] + # → zone 06 loop type: 3
 3> Eol loop + [4] + #
 Press ESC + ESC + ESC + # return to standby interface.

5. zone name program: display zone name when panel alarming

example: name zone 99 as TA

* + [12345] + # + [6] + # + [5] + # → Amend zone # : 001
 (001--168)
 + [099] + # → Zone 099 name: + [8] + → + [2] + #
 Press ESC + ESC + ESC + # return to standby interface.

6. Chime by zone setting: When the wire zone is in trouble, the keypad will
 “di-di” twice disable (factory default)

example: Enable chime by zone 3

* + [12345] + # + [6] + # + [6] + # → Zone: 12345678 (*SEL)
 Chime: NNNNNNNN
 + → + → + * + Zone: 12345678 (*SEL)
 Chime: NNYNNNNN + #
 NOTE: Y=enable, N=disable
 Press ESC + ESC + # return to standby interface.










VII、Set system area

* + [12345] + # + [7] + # →

- 1. Disable area
- 2. Zone area
- 3. Keypad area
- 4. Remote area
- 5. Voice phone area
- 6. Wire less

1. Disable area: After disable partition, the zone s belong to this partition will disable too.If one zone belongs to more than one partition, it will disable only when disable all the partition it belongs to

example: enable partiton 1 and 2





 + [12345] +  + [7] +  + [1] →
 +  +  + 
 Press  +  +  return to standby interface

Area: 1 2 3 4 5 6 7 8 (*SEL)
 Manage: YNNNNNNN









NOTE: Y=enable, N=disable

- 2.The partition zone belong to: when partition is armed, all the zones belong to this partition will be armed. when partition is disarmed, all the zones belong to this partition will be disarmed. Default: all zones belong to partition 1

example: set zone 55 belongs to partition 1 and 2

 + [12345] +  + [7] +  + [2] +  →










Amend zone # : 001
 (001--168)

 + [055] +  →
 +  +  + 
 Press  +  +  +  return to standby interface.

Area 1 2 3 4 5 6 7 8(*SEL)
 Area: YNNNNNNN

- 3.The partition keypad belongs to: the keypad only display the info of the partition it belongs to (default: belongs to partition 1)





Example: set 2 keypad belongs to partition 1 and 2





 + [12345] +  + [7] +  + [3] +  →
 + [02] +  →
 Press  +  +  +  return to standby interface.





Enter keypad # : 01
 (01--10)

Area: 1 2 3 4 5 6 7 8 (*SEL)
 Area: YNNNNNNN





- 4.the partition remote controller belongs to: default: belongs to partition 1
example: set 11 remote controller belongs to partition 1 and 2





 + [12345] +  + [7] +  + [4] +  → enter remote # : 01
 (01--16)





+ [11] +  → Area: 1 2 3 4 5 6 7 8 (*SEL)
 Area: YNNNNNNNN +  +  + 

Press  +  +  +  return to standby interface.





- 5.Voice phone area: default is partition 1
example: set 8 voice alarm phone belongs to partition 1 and 2





 + [12345] +  + [7] +  + [5] +  → enter Voice phone # : 1
 (1--8)





+ [8] +  → Area: 1 2 3 4 5 6 7 8 (*SEL)
 Area: YNNNNNNNN +  +  + 

Press  +  +  +  return to standby interface.




- 6.Wireless bell area: default partition 1
Example: set 4 wireless siren belongs to partition 1 and 2

 + [12345] +  + [7] +  + [6] +  → enter bell # : 1
 (1--8)

+ [4] +  → Area: 1 2 3 4 5 6 7 8 (*SEL)
 Area: YNNNNNNNN +  +  + 

Press  +  +  +  return to standby interface.










VIII、Set expand device

 + [12345] +  + [8] +  →

- 1.Disable keypad
- 2.Expand series port
- 3.Expand tcp/IP
- 4.Expand GSM
- 5.Expand relay
- 6.Alarm priority










1. Plsable keypad: default : 1st keypad enable

example: enable 2 keypad

 + [12345] +  + [8] +  + [1] → enter keypad#: 01
(01--10)
 + [02] +  → Address 02 keypad: 2
1>enable 2>disable + [1] + 
 Press  +  +  +  return to standby interface.










2. Expand series port: default: disable

example: enable the serial communications module

 + [12345] +  + [8] +  + [2] +  → Serial port switch: 1
1>disable 2>enable
 + [2] + 
 Press  +  +  +  return to standby interface.

3. TCP/IP module expand: default: disable

example: enable TCP/IP module

 + [12345] +  + [8] +  + [3] +  → TCP/IP switch: 1
1>disable 2>enable + [2] + 
 Press  +  +  +  return to standby interface.

4. GSM module expand

 + [12345] +  + [8] +  + [4] +  →
 → 1)Set GSM
 → 2)Set GSM info
 → 3)Set GPRS
 → 4)GSM status check

4.1) Set GSM: default as disable

Example: enable the GSM module, hand-shake singal strength 70,

DTMF output singal strenght 05

* + [12345] + # + [8] + # + [4] + # + [1] →
 CSM module : 1
 1 > disable 2 > enable + [2] + # → Signal strength: 80
 (30--99) + [70]
 + # → DTMF strength: 04
 (01--15) + [05] + #
 Press ESC + ESC + ESC + # return to standby interface.

4.2) Set GSM info: default: sms and voice phone call options to set as below:

1 > sms only 2 > only make phone call 3 > sms and phone call

example: set as only make phone call

* + [12345] + # + [8] + # + [4] + # + [2] + # →
 Set personal info: 3
 3 > Info & voice phone + [2] + #
 Press ESC + ESC + ESC + # return to standby interface.

4.3) Set GPRS: default: disable

example: enable GPRS

* + [12345] + # + [8] + # + [4] + # + [3] + # →
 GPRS : 1
 1 > disable 2 > enable + [2] + # → GPRS Access point
 CMNET + # →
 Server IP address : 000.000.000.000 + # + Server port : 00255 + # → server login ID : + #
 → Server login pwd : + # → server conn mode: 2
 1 > L-connn 2 > Idle conn + #
 Press ESC + ESC + ESC + # return to standby interface.

connect port: please visit access points of World-Wide-Web











Server register: Correct ID and password of sever is required to register GPRS.

Connect all the time: do not precess sms and phone call, connect with server all the time by GPRS

Connect under idle mode:when voice phone call and sms is enable, cut GPRS.










Process voice phone call and sms as priority, after finish GPRS connect automatically.

4.4 GSM signal checking

 + [12345] +  + [8] +  + [4] +  + [4] + 
 → GSM signal strength
 Signal: 25 BER: 00 + 
 Press  +  +  +  Back to the previous menu










5. Expand Relay: Disable(factory default)

Fox example: setting enable relay modules.

 + [12345] +  + [8] +  + [5] +  →
 Relay switch: 1
 1>Disable 2>enable + [2] + 
 Press  +  +  return to standby interface

6 .Alarm priorities: default is TCP/IP-telephone-GSM

For example:Alarm set priorities is TCP/IP→ GSM→ telephone.

 + [12345] +  + [8] +  + [6] + 
 Sel alarm priority : 2
 2>TCP/IP→TEL→GSM + [1] + 
 Press  +  +  return to standby interface

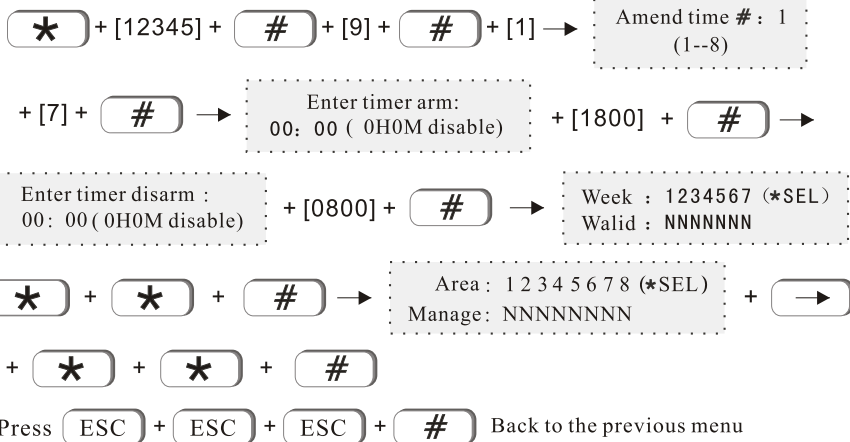
IX.Set other options.

 + [12345] +  + [9] +  →

- 1. Arm/disarm Timer
- 2. Pwd valid time
- 3. Sys main tenance
- 4. System test
- 5. Set Program output .

1. Arm/Disarm timer

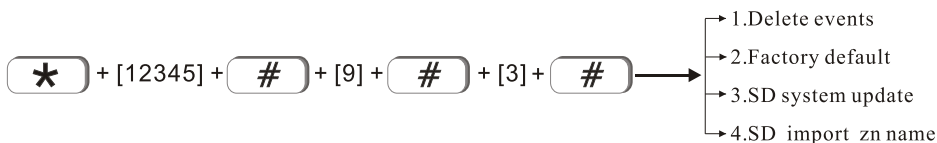
For example: setting disarm on Monday and Tuesday for Group 7, partition 2 and 3 , arm in 18:00 PM; disarm in 8:00 AM.



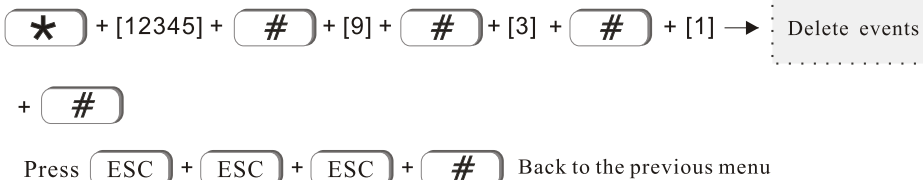
2.Set valid time for limited code.

For example: refer to the user settings option 6.

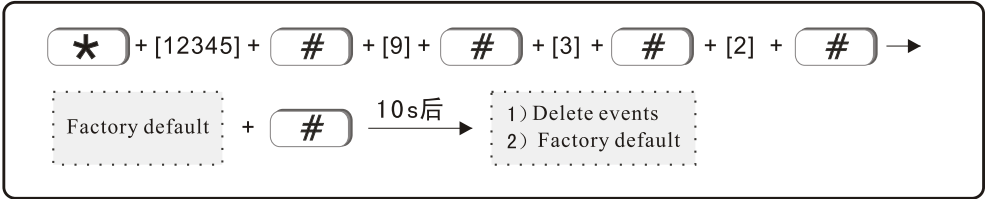
3.System maintenance



3.1) Delete event record



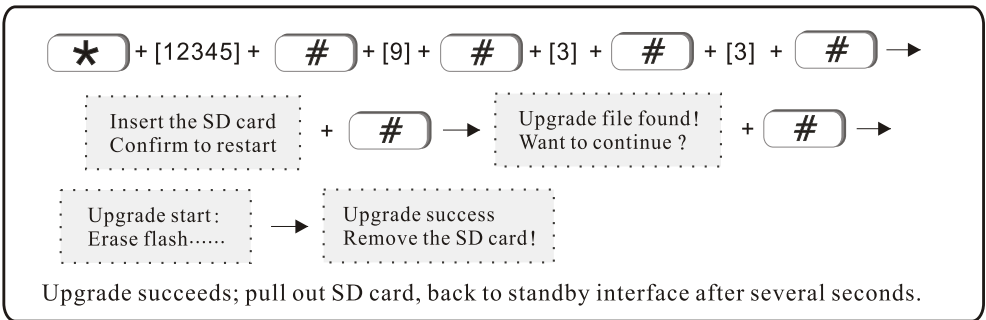
3.2) Factory Default



Note: Powered clown and restart the panel after restore factory setting.

3.3) SD system update

Format SD card to FAT32, and copy upgraded file name BUS_PANAL.meian into SD card. Insert the SD card to slot of main board.



Note:

1. after upgrade success, restart the alarm panel, Upgrade system software will not change the system Settings
2. The system will test whether insert the SD card and detect whether there are upgrade file each time when it power on. If there has upgrade file, it will ask you if you continue to upgrade, after upgrade succeed, pull out the SD card, otherwise it could lead to part of system not be used.
3. Use administrator' s password to upgrade only can see the upgrade interface by operation keyboard, otherwise, only see the upgrade interface by the first keyboard.
4. SD card import zone names

Copy file Name.txt to SD card, to carry out import zones name program, there was file name.txt format as blew. The name of each row 20 characters, Less than 20 characters with a space instead. A space must between the zone and zone number (CRLF)Carriage Return, Line Feed.

```
zone 001:" ABCD      "
zone 002:"  ROOM    "
zone 003:"   OFFICE  "
.
.
zone 168:"  WINDOWS"
```

***** + [12345] + **#** + [9] + **#** + [3] + **#** + [4] + **#** →

Inset the SD card
confirm restart the system

+ **#** →

Edit file found!
Want to continue ?

+ **#** →

Write success!
Remove the SD card!

Import the protection name succeed, pull out the SD card, back to standby interface after several seconds.

4.system testing

***** + [12345] + **#** + [9] + **#** + [4] + **#** →

- 1.Walk test
- 2.Comm test
- 3.Batt test
- 4.Bell test

4.1) Walk test

For example: zone 8 for walking test.

***** + [12345] + **#** + [9] + **#** + [4] + **#** + [1] + Walk test mode

+ **#** → Trigger the zone 8 → Walking test mode:
zone alarm: 008

Press **ESC** back to standby interface

4.2) Communication test: Test the communication between the panel and CMS is working or not.

***** + [12345] + **#** + [9] + **#** + [4] + **#** + [2] + **#**

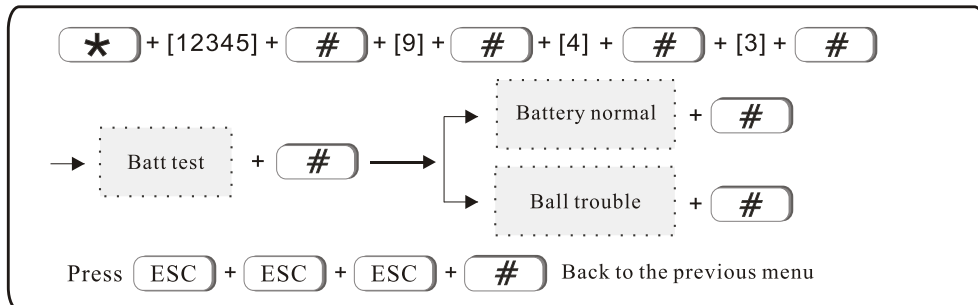
Confirm comm test

+ **#** →

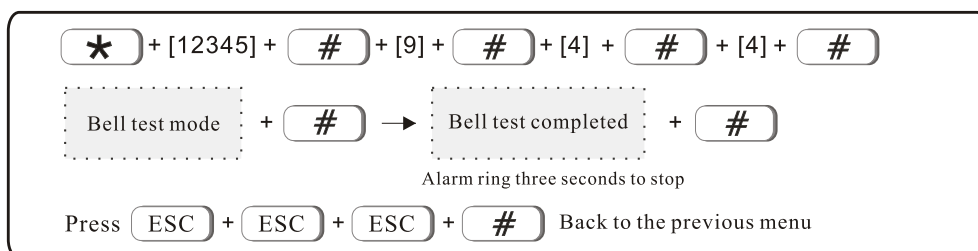
Comm test completed

Press **ESC** + **ESC** + **ESC** + **#** return to standby interface.

4.3) Battery



4.4) Bell test

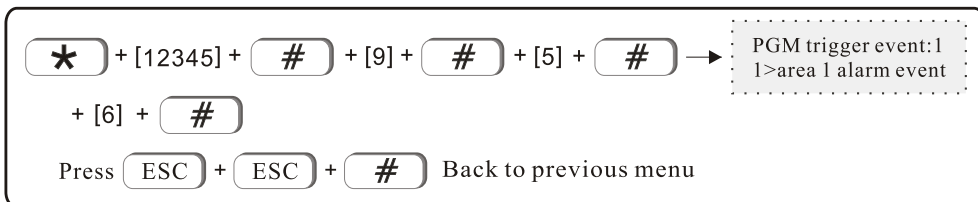


5. Set pgm output : When an event occurs, the PGM output will change voltage from 0 V into 14.3 V, default to partition 1 alarm events.

To set up trigger events as follows:

- | | | |
|-----------------------------|-------------------------|--------------------------|
| 1>Partition 1 alarm event | 2>Partition 1 arm event | 3>Partition disarm event |
| 4>Alternating current fault | 5>Battery fault | 6>Telephone line fault |
| 7>Communication fault | | |

For example: setting PGM output to be telephone line fault .



X、Set exit system



Technical specification

General data

External AC power supply voltage: Input: 185~230VAC

Output: 13VAC/3A

Backup power supply duration: 16 hours

Backup battery(optioned): 12V/7AH

The method of alarming dial: Telephone alarm and GSM alarm

DTMF dial frequency variation : < 1.5%

Communication Protocol with CMS: Ademco Contact

Frequency: 433MHz/868MHz

E Signal transmit distance: 100 to 120 meters (open area)

Operation temperature range: 32F to 120F (0°C to 45°C)

Storage temperature range: -4F to 140F (-20°C to 60°C)

Relative humidity: 85% at 30 (86F)

Maintenance and protection

Regular test

Design of components of the system is to reduce maintenance cost, but still it is suggested that periodical check may be carried out.

The cleanliness of control main machine

Main control panel maybe be stained by fingers or covered by dust after using for a while. Use soft cotton cloth or sponge to clean it. Don't use any lubricant, liquor such as kerosene, acetone and strong gel which will damage appearance and the transparency of top window.

ATTENTION: Don't use any lubricant, liquor such as kerosene, acetone and strong gel which will damage appearance and the top transparency of window.

Limitation of the Products

Although the products is a high standard products, there is also some limitation of them such as false alarm or no alarm, the reasons may be below:

Lack of Maintenance. The system needs maintenance and test regularly test. The sensitive of the detectors may decrease and the siren may not whistle.

Lack of power supply If no power input and the back up power is not enough, the panel can not work normally.

Telephone Line False If the telephone line is cut, the panel could not send alarm signals

Limitation of Smoke Detectors if the smoke is far from the smoke detector, the detector could not alarm

If the intruder break in through some door or window not monitored, or some one knows hot to make the system not work.

