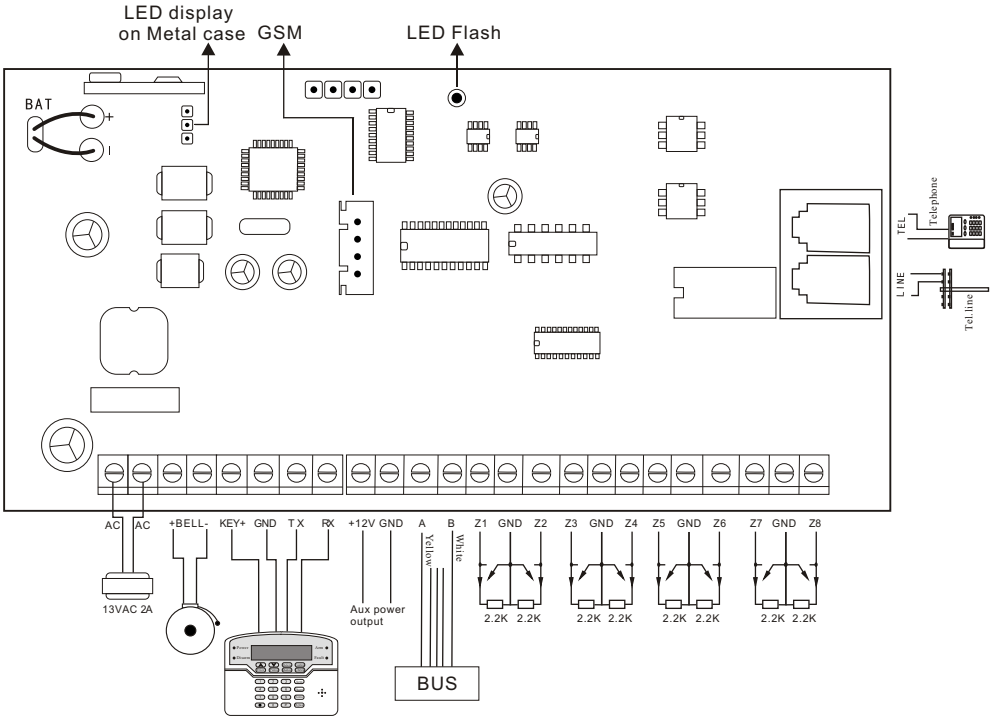
FC-7564 user manual

P/N：20120815-A

FC-7564 WIRING DIAGRAM



Power supply

- Only can use12V/7Asealed lead-acid battery,change battery every3-5 years
- With 1keypad,power consumption 250mA,support for 16 workinghrs.
- Totalpower consumption(keypad,auxiliary power,siren)can~t exceed max.power consumption of controlpanel
- Max.Rechargeable current of battery:350MA

Content

Foreword

FC-7564 is a intelligent alarm control system which in tegrated with burglarproof, fireproof, gas leak proof. It is compatible with wired and wireless alarm mode.

FC-7564 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 interf erence effectively.

1.64 zones:8 wired, 24 wireless and 32 BUS zone
2.6 way to arm and disarm the system: User code, Keyfob, Phone, SMS, Auto timer, CMS
3.Alarm notification: When alarm occurs, user can have alarm notification by phone call, SMS, GPRS, TCP/IP(optional)

Smart feature of FC-7564

1. Multi-zones combination alarm, special design for the places suchas watchroom, bedromm and etc.
2.Can use without keypad
3.LED display on metal case, easier for user to check system info.

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/24wireless/32BUS zone

Keypad and remote: Support 8pcs LCD keypad and 8remotes

Password: 1 installer code, 1 duress code, 15 user codes

CMS: 2 CMS follow me numbers, 1 account number

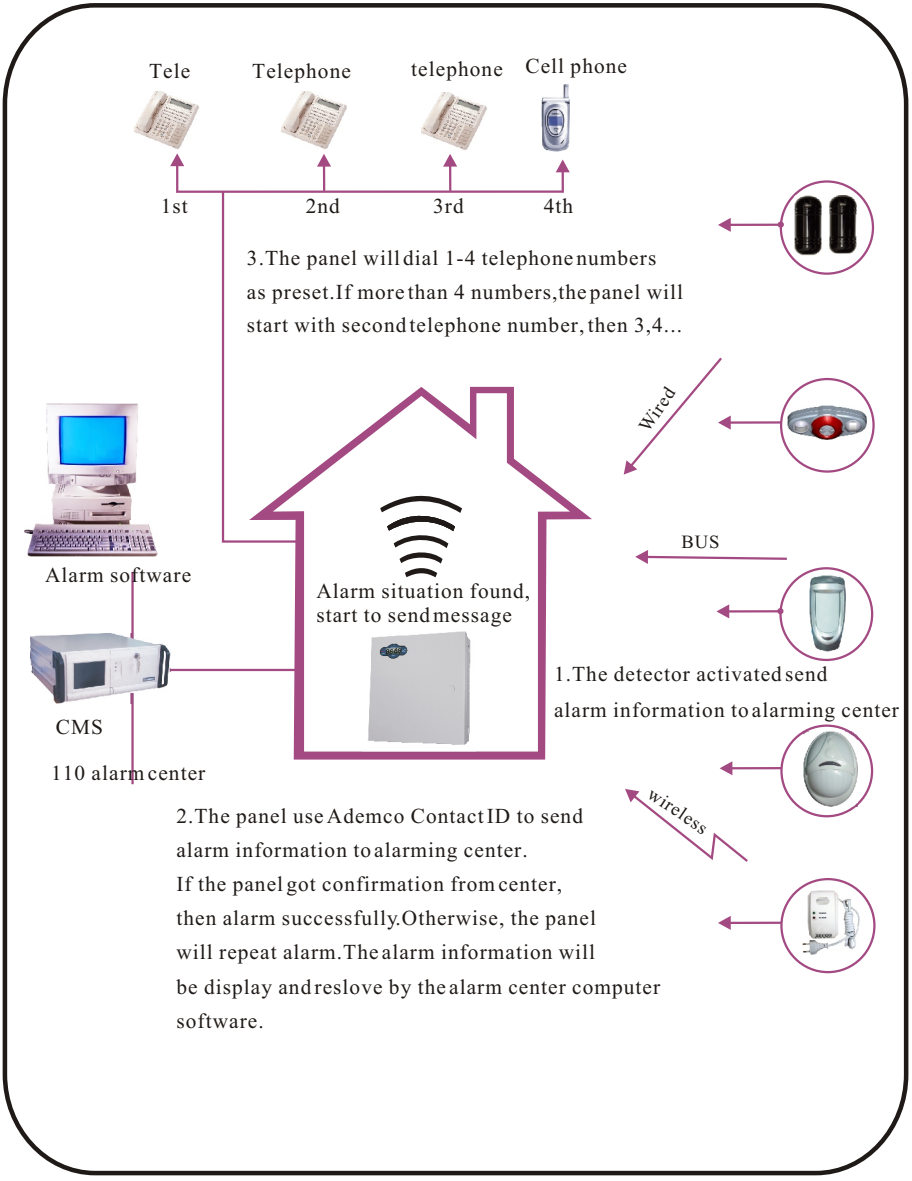
Voice number: 4 voice numbers, Voice prompting operation

Event log: 128 event logs

Module expanded: GSM/GPRS module

Recording:10-second automatic message Recording

Alarm procedure



1、Remote control by phone

❶

User to call landlines phone which connect to the panel

❷

When user answer the call,the panel pick up phone after preset rinings

❸

"Welcome to your security system Enter your user code"

❹

1 2 3 4

Enter the user code as per voice prompting(factory default code: 1234)

❺

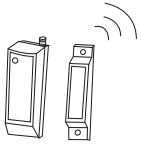
System disarm, press one
System arm, press two
System home arm, press three
Play the zone address recording, press nine
Hang up, press zero

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 mornitor.

①



Send the alarm signal

②

Panel receive alarm, and dial voice number

③

User answer the call

④

Cancel the alarm press one
Check alarm zone press two
Activate the hoot press three
To disable the siren press four
Disarm system press five
Arm the system press six
Stay arm the system press seven
Play the zone address recording press nine
Hand up press zero

GSM remote operation

You can SIM card number,then panel will off revised user password,the default password is 1234,as

press 1 to disarm
press 2 to arm
press 3 to home arm
press 0 to hangup

GSM alarm receiving

When alarm occurs,GSM will call the preset voice number,it will voice prompt "system is alarm,please process the alarm

press one to cancel alarming
press two to check alarm zone
press three to trigger siren
press five to disarm
press six to arm
press seven to home arm

GSM control via SMS

Arm command PASSWORD:1234 SYSTEM ARM

Disarm command PASSWORD:1234 SYSTEM DISARM

Home arm command PASSWORD:1234 SYSTEM HOME

Status checking command PASSWORD:1234 SYSTEM STATUS

Cancel alarm command PASSWORD:1234 SYSTEM CANCEL

Note:There is no space in the command "password:1234",There is a space between system and arm.enter "system arm",when operate successfully,SMS auto reply "Arm Successful".

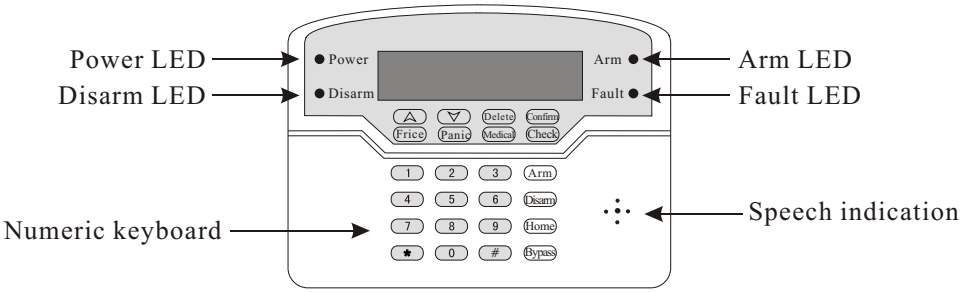
Set GPRS access command PASSWORD:1234 APN: "aaaaaa"

Set GPRS access User name command PASSWORD:1234 USER: "bbbbbb"

Set GPRS access User code command PASSWORD:1234 PWD: "cccccc"

Remarks:There is no space between"APN: ""

Keypad description



Power LED: it will normal ON when AC and battery without any trouble. It will off when both AC and battery with trouble. It will slow flash when battery with trouble, it will quick flash when AC with trouble.

Fault LED: It will slow flash when communication with trouble, it will off when without any troubles.

Arm LED: It will ON when armed, slow flash when stay in, quick flash when alarm.

Disarm LED: It will ON when disarmed, it will OFF when zone trouble.

Fire : The panel will send out alarm signal when press FIRE key 3 for seconds, it used as UP key when programming.	Check : Press CHECK key to check the alarm events , it used as Confirme key when programming.
Panic : The panel will send out alarm signal when press PANIC key for 3 seconds, it used as DOWN key when programming.	* : When you entering numbers, press *, the LCD screen will display P, means 2s pause when dialing, for other settings, press * means EXIT.
Medical : The panel will send out alarm signal when press HELP key for 3 seconds, it used as DELETE key when programming.	# : When enter errors, press # can delete the errors, it used as Confirm key when programming.

Basic operation

Factory default Admin password: 012345

Factory default User password: 1234

Arm: User password[1234]+ Arm

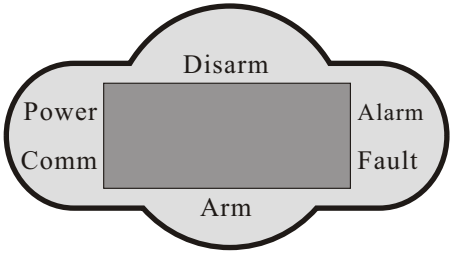
Home: User password[1234]+ Home

Disarm: User password[1234]+ Disarm

Bypass: User password[1234]+ Bypass + zone number+ #

Enter system setting: Admin password[012345]+ * +[0]+ #
Exit system setting: * + #
Password reset: You can enter installer code 000000 to enter setup only during the first 1 minute when the alarm is powered on.

LED display on Metal case



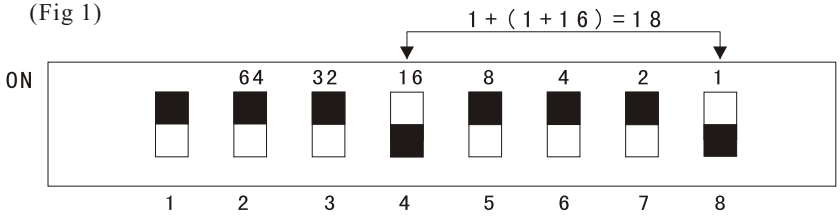
POWER LED: it will normal ON when AC and battery without any trouble. It will off when both AC and battery with trouble. It will slow flash when battery with trouble, it will quick flash when AC with trouble.
FAULT LED: It will ON when zone troubles.
ARM LED: It will ON when armed, slow flash when stay in.
DISARM LED: It will ON when disarmed
COMM LED: It will flash when communication trouble.
ALARM LED: It will flash when alarm.
Zone trouble indication

A-08 ——it means that 8 zone alarm
F-08 ——it means that 8 zone trouble
P-08 ——it means that 8 zone bypass

Note: if the LCD also display zone alarm when the user disarmed the system after alarming, please disarm the system again, then LCD display will resume.

FC-7601 BUS zone expander

(Fig 1)



1.FC-7601 is single zone module via dip switch address, EOL 10k

2.Zone expanded :NO.1-128

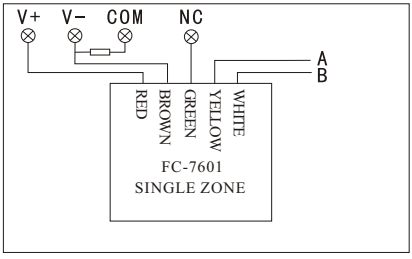
3.Wire: red(DC+), Brown(DC-), Yellow(A), White(B), Green(zone inspection) Brown also GND.

4.Working voltage: DC8.5-24V

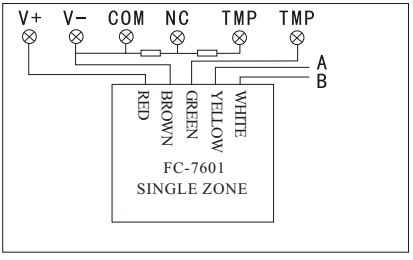
5.DIP 1 : tamper inspection switch, ON —to enable tamper, OFF-to disable tamper 2-8 address digit. OFF —enable, ON-disable. Binary address, To set zone 18, user should be put DIP 4 and DIP 8 to be OFF,See (fig 1) allmodule address should be plus one.

6.The zone number in BUS module=module address number +32, Eg. Zone 50=module address 18+40

7.Zone 33-64 is disable by factory default, user should enable firstly before use.



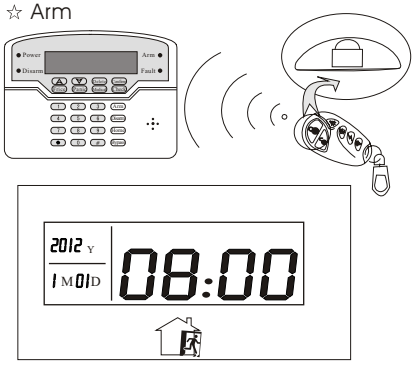
NO TAMPER



TAMPER

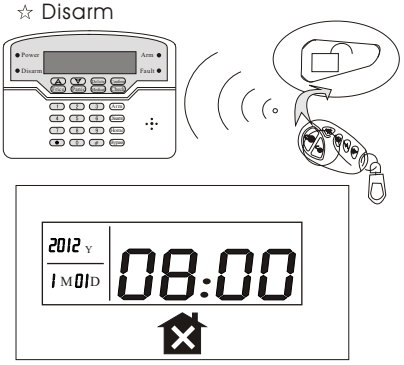
Basic operation

☆ Arm



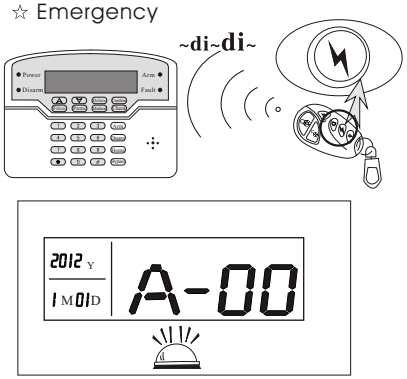
User code[1234]+ Arm or the away ARM button in the keyfob

☆ Disarm



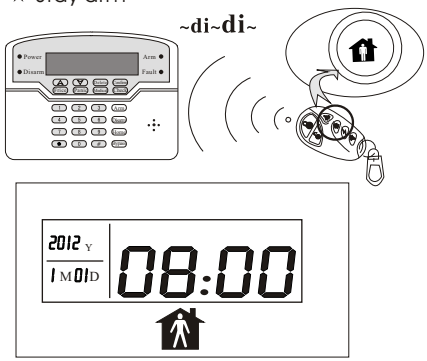
User code [1234] + Disarm or the DISARM button on the keyfob

☆ Emergency



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

☆ Stay arm



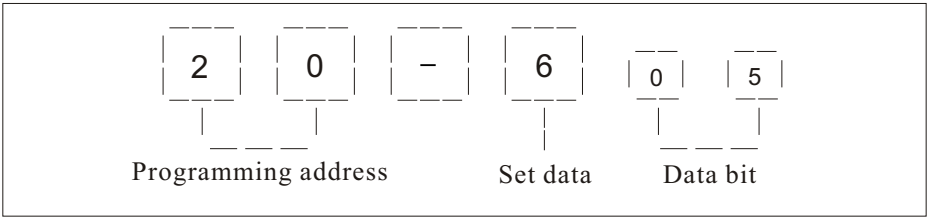
User code + Stay or press the home ARM key in the keyfob.

Note: If the LCD also display zone alarm when the user disarmed the system after alarming, please disarm the system again, then LCD display will resume.

System setting

[012345] + * + [0] + # → ----

System setting display



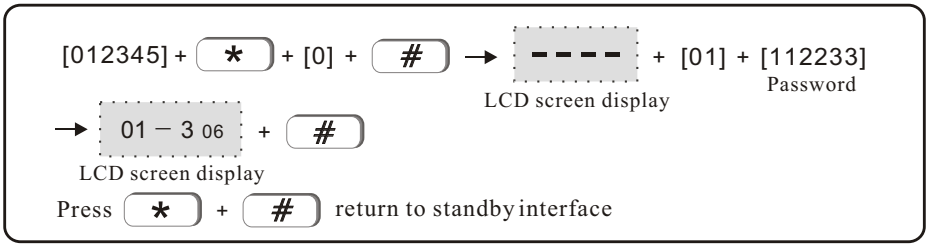
System menu and programming address

01-- Set admin password
02-- 17Set user password
20--21 Set CMS
22-- Set user No.
23--26 Set user phone number
27-- Set CMS dialing times
28-- Set user phone dialing times
30-- Set system time
31-- Set enter delay time
32-- Set exit delay time
33-- Siren time
34-- Ring times
35-- Check sensor loss
36-- Communication testing time
37-- Arm/disarm tone
38-- Arm/disarm report
39-- Panic alarm tone
40-- Auto program remote
41-- Auto program sensor
42-- Enter remote code
43-- Enter sensor code
44-- Delete remote
45-- Delete sensor
50-- Set zone type
51-- Set siren type
52-- Wired zone loop type
53-- Wired zone response time
60-- Force arm
61-- Call back specified number
62-- Set free arm phone number
63-- Set free disarm phone number
70-- The first group cross zone
71-- The second group cross zone
72-- The third group cross zone
80-- Set GSM
81-- Set GPRS
82-- Alarm priority
83-- Set GSM info
84-- Server IP address
85-- Server port
86-- Server register ID
87-- Server register password
88-- Server connection mode
89-- DTMF output signal strength
90-- Handshake tone input signal strength
91-- SMS language
98-- AC off delay report
99-- Time calibration

I.Set password

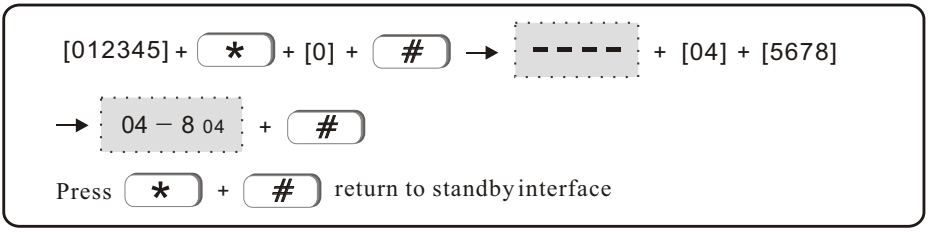
1.1 Set administrator password

For example: set the administrator password as 112233, the factory default password is 012345.



1.2 Set user password（the factory default password:1234）

For example:set the NO.3 user password as 5678

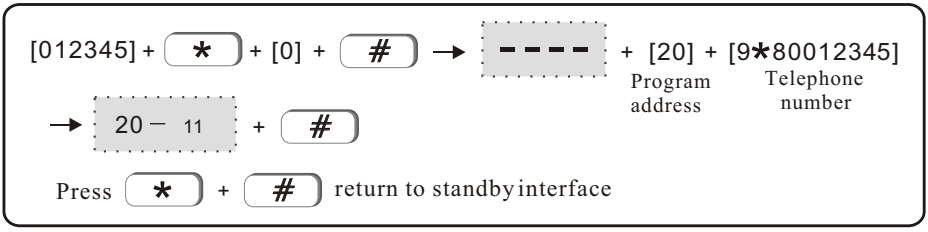


NOTE:User can set 16 user passwords,the program address:02-17

II.Set CMS number

2.1 Set CMS number

For example:set the CMS number as 9P80012345

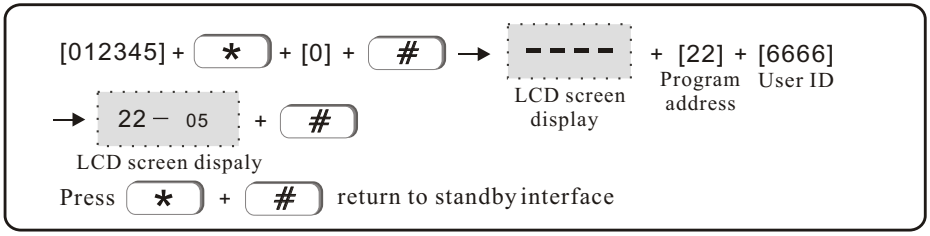


Note: user can set 2 CMS numbers,the program address:20-21， when press * LCD screen dispaly as P， it means dial pause 2 seconds.

The dial pause only for connecting with extensions， otherwise,press 80012345 directly.

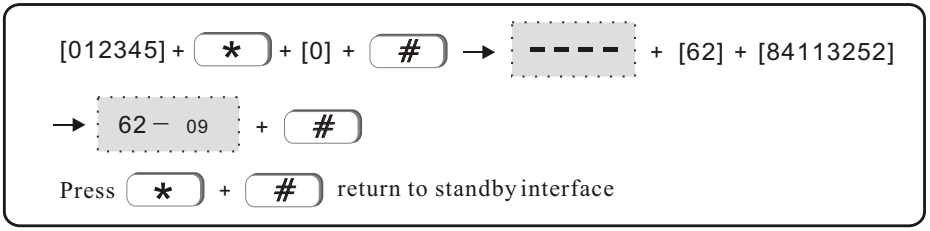
2.2 Set user ID（the factory default setting :0000）

Example: set the user ID as 6666



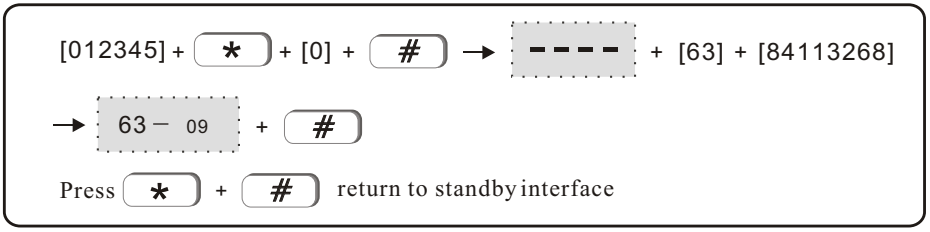
2.3 Free arm telephone number

Example: set the free arm telephone number as 84113252



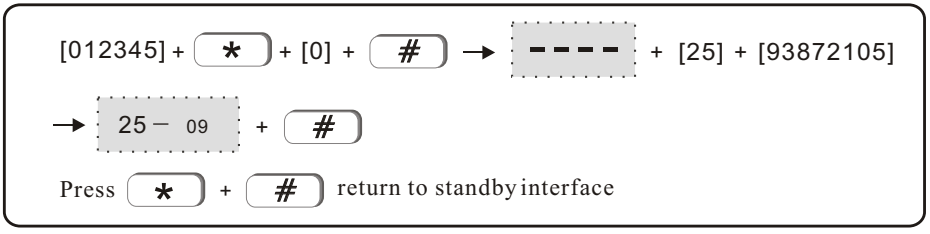
2.4 Free disarm telephone number

Example: set the free disarm telephone number as 84113268



2.5 Set the user telephone number

Example: set the NO.3 user telephone number as 93872105



Note:user can set 4 user telephone numbers,the program address:23-26。

2.6 CMS dialing times.The default setting is 5 times

Example:set the dialing time as 4 times.

[012345] + * + [0] + # → - - - - + [27] + [04]

→ 27 – 4 02 + #

Press * + # return to standby interface

2.7 The user phone dialing time:the default setting is 5 times

Example: set the dialing time as 3 times

[012345] + * + [0] + # → - - - - + [28] + [03]

→ 28 – 3 02 + #

Press * + # return to standby interface

III.System options

3.1 System time setting

Example: set the system time and date as 10:01,July,11,2012

[012345] + * + [0] + # → - - - - + [30]

+ [1207111001] → 30 – 1 10 + #

Y M D H M

Year Month Day Hour Minute

Press * + # return to standby interface

3.2 Entry delay time setting:after triggerd the delay zone,panel start alarming.the default setting is 10 seconds.

Example: set the entry delay time as 15 seconds.

[012345] + * + [0] + # → - - - - + [31] + [015] →

LCD screen dispaly

Program address

Time

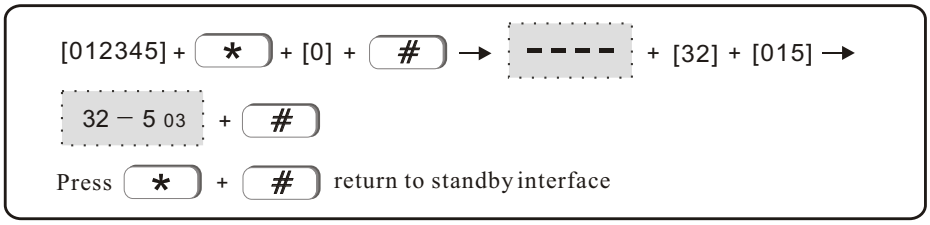
31 – 5 03 + #

LCD screen dispaly

Press * + # return to standby interface

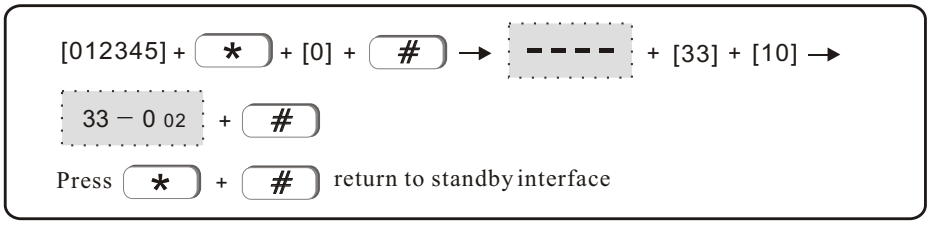
3.3 Set exit delay time:the default setting is 10seconds.

Example: set the exit delay time as 15 seconds.



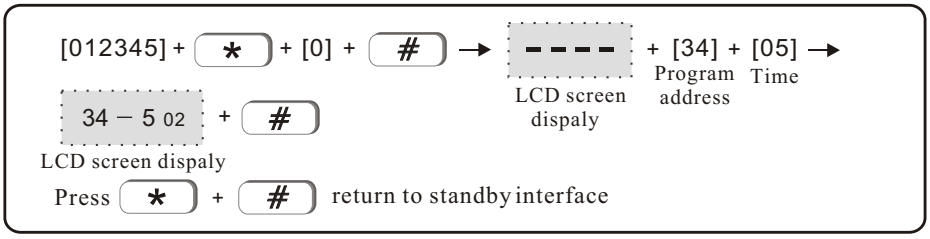
3.4 Siren time（the default setting is 5mins）

Example: set the siren time as 10 mins



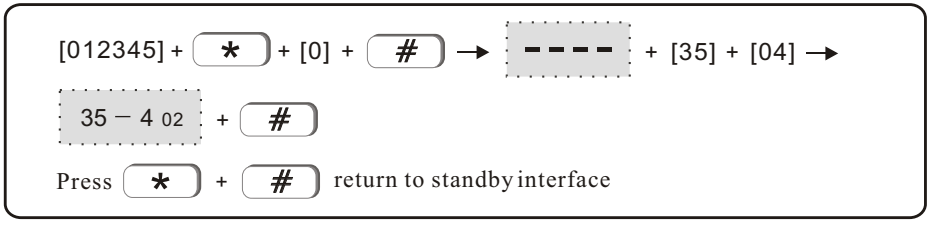
3.5 Set ring time（the default time is 7times）

Example: set the ring time as 5 times.



3.6 Detector loss check（the default setting is00 as Disable）

Example:set the detector loss check time as 4hours

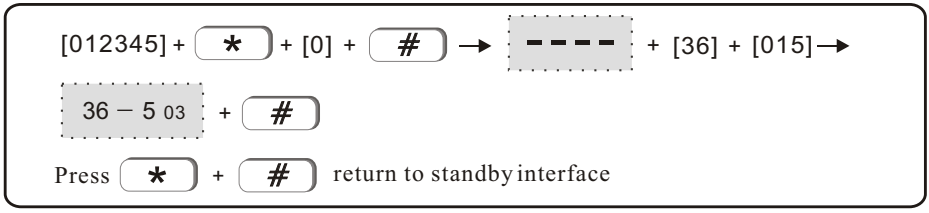


Note: wireless detector send status report about every 3 hours. The panel check if receiver the status report signal or alarm signal from detector at programed time. If not receive the singal, will judge detector loss. We suggest set the neterval time of detector inspection longer than 4 hours.

3.7 Communication checking interval time:

It is checking of communication between alarm panel and CMS. To check if the communication is normal(default is 00, not checking)

Example: set the communication checking interval time as 15 hours.

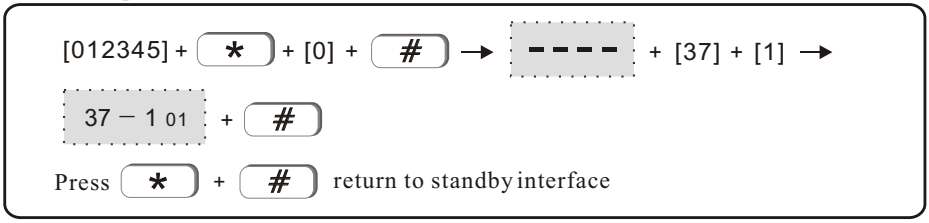


3.8 Arm, disarm indication sound:

To set if the siren sound when user use remote controller to arm,disarm the panel (default: not sound)

0> not sound 1>sound

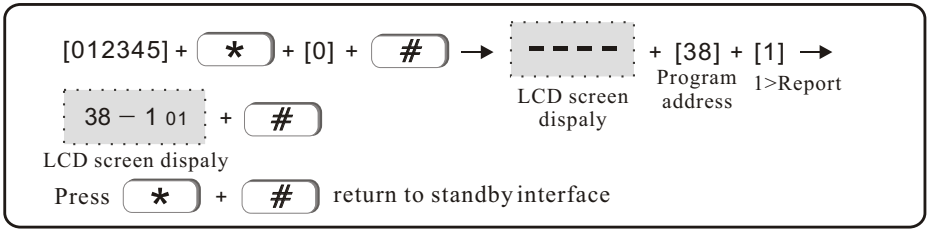
Example: set the arm /disarm indication sound on



3.9 Arm/disarm report(default: not report to CMS)

0> not report 1> report

Example: set arm/disarm report CMS



3.10 Panic alrm sound:

To set if the siren sound when trigger the panic button on remote controller or emergency button on keypad(default: OFF)

0> OFF 1> ON

Example: set the panic alarm sound on

[012345] + * + [0] + # → ---- + [39] + [1] →

39 – 1 01 + #

Press * + # return to standby interface

IV. Code wireless device

4.1 Code wireless remote controller

Example: auto code number 5 remote

[012345] + * + [0] + # → ---- + [40] + [5] →

40 – 5 01 + # →  → 40 – 1 01 + #

Trigger remote controller

101 is the first number of remote is 9 digit address code

Press * + # return to standby interface

4.2 Auto code wireless detector

Example: auto code number 9 wireless detector

[012345] + * + [0] + # → ---- + [41] + [09] →

41 – 9 02 + # →  → 41 – 2 01 + #

Trigger wirelers detector

201 is the first number of wireless is 9 digit address code

Press * + # return to standby interface

4.3 Manual code remote controller

Example: manual code the first remote controller by enter address code of remote 077230023

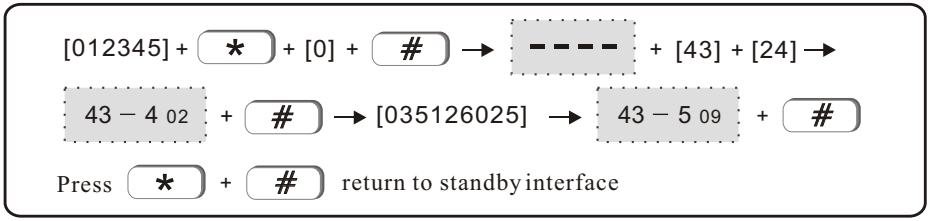
[012345] + * + [0] + # → ---- + [42] + [1] →

42 – 1 01 + # → [077230023] → 41 – 3 09 + #

Press * + # return to standby interface

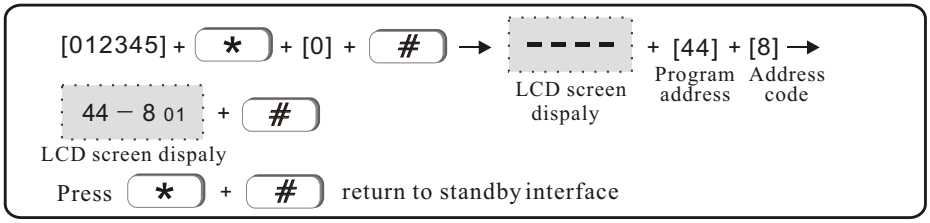
4.4 Manual code wireless detector

Example: manual code the number 24 wireless detector by enter the address code 035126025



4.5 Delete remote controller

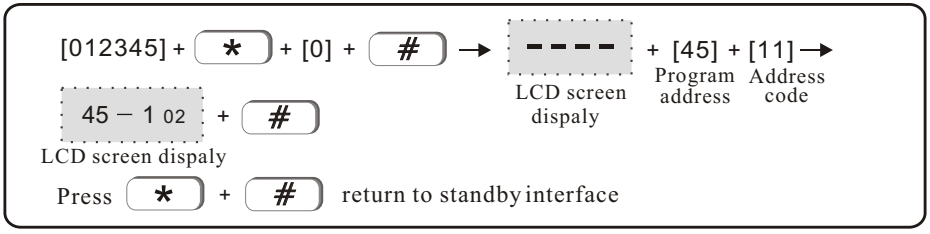
Example: delete the number 8 remote controller



Note: enter 0 to delete all remote controller

4.6 Delete detectors

Example: delete number 11 detector



Note: enter 00 to delete all detectors

V.System zone setting

5.1 Zone type setting

Options of zone type as below

0>disable	1>delay	2>perimeter
3>burglar	4>24 hours	5> emergency
6> fire alarm		

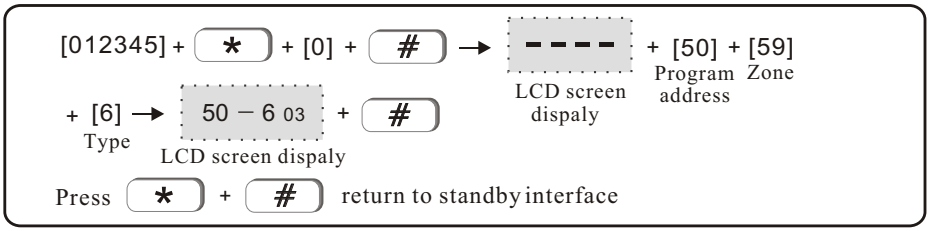
For example: set protection area 7 and 8 as one group of the double direction one-shot mode cross protection area. Preset time is 50 seconds.

Burglar alarm zone only trigger under system arm status, delay and perimeter zone trigger under stay or arm status.
24 hours, emergency and fire alarm zone will trigger under any system status

Factory default:

Wired zone 1-8 enable, wireless zone 9-32 enable, bus zone 33-64 disable, 00 is system zone. Pls connect resistor 2.2k to wired zone before power on the alarm panel, otherwiset he alarm panel will make alarm or cause zone trouble. When need use bus zone, 7601 one zone expand module is required.

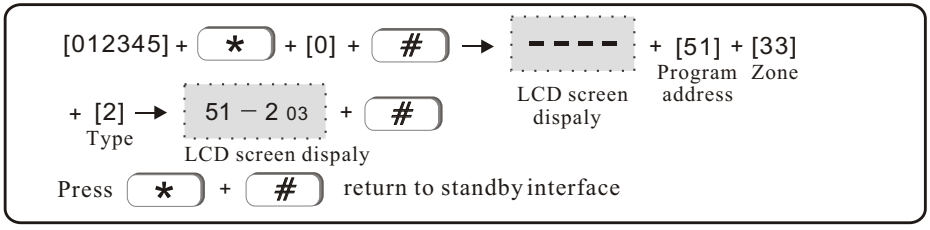
Example: set the number 59 zone as fire alarm zone



Note: If only check the zone type, then enter zone number, then press # button.
The LCD will display the zone type.

5.2 Zone siren type setting(default continious sound)
The options of siren type:
0>mute 1>continious sound 1>pulse tone

Example: set zone 33 siren type as pulse tone



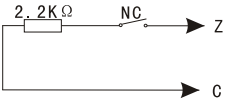
Note: if only check the zone siren type, enter zone # , then press # button, the LCD will display the siren type

5.3 Wired zone loop type(default: resistor loop)

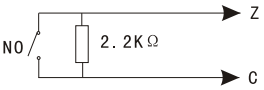
The options of wired zone loop type:

0>N.O loop, zone open loop normal, short-cut loop alarm

1>N.C loop, zone short-cut loop normal, open loop alarm



Eol resistor N.G wiring



Eol resistor N.O wiring

For example: set the protection area No.6 as N.C loop

[012345] + * + [0] + # → ---- + [52] + [6]

+ [2] → 52 – 2 02 + #

Press * + # return to standby interface

Note: if only see the loop type in the wired protection area, press # to display the loop type after inputting the protection area number

5.4 The response speed of wireless protection area (default is 500ms)

Configurable response speed of wireless protection area as below

For example: set the response speed for protection area No.3 is 10ms, Screen shows

[012345] + * + [0] + # → ---- + [53] + [3]

Program address: [3]

LCD screen dispaly: ----

+ [1] → 53 – 1 02 + #

1>10ms

LCD screen dispaly: 53 – 1 02

Press * + # return to standby interface

Note: If only can see the response speed of wireless areas, after inputting the protection areas No. and press # , it will display the response speed. The common detector's response speed is 500ms, 10ms for High speed detectors and vibration sensors.

.VI. Other options setting

6.1 AC power fault report delay: when there is AC power fault occurs, the delay time for reporting to the alarm receiving centre default for 30 minutes.

For example: set the delay time of AC power fault report is 5 minutes

[012345] + * + [0] + # → ---- + [98] + [05]

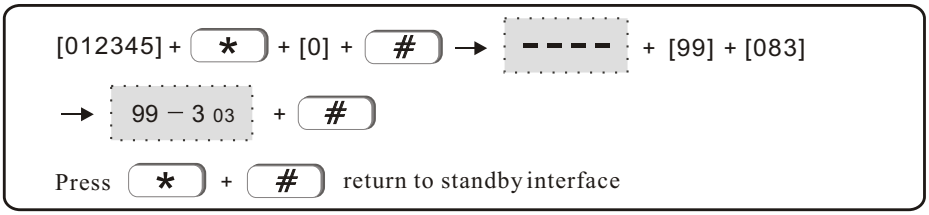
→ 98 – 5 02 + #

Press * + # return to standby interface

Note: if the delayed time setting is 0 minutes, it means that it will not report the power fault information.

6.2 Time calibration

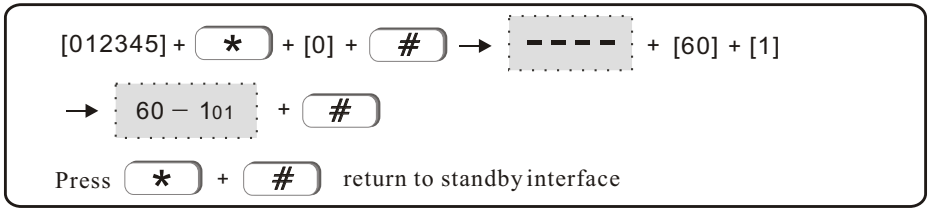
For example: If the panel time every 24 hours fast 20 seconds, take the formula 20x100/24=83 to calibrate, then set this value is 083. If slows 20 seconds, then it is 183 to calibrate the time.



6.3 Force arming: Allow users to arm when protection area faults. In the state of the arming, the protection areas and recovery information will report to alarm receiving centre. Default is disable.

0>Disable force arming 1>Enable force arming

For example: set enable force arming



6.4 Cross protection areas: protection area 1+protection area 2 + time + mode.

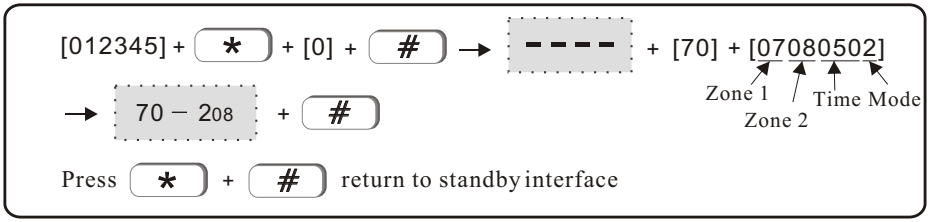
Configurable cross protection area mode as below

0>Cancel cross model

1> The double direction twice-trigger mode : single trigger protection area 1, 2, it will not alarm, trigger first protection 1, then trigger protection area 2 within preset time, it will alarm; first trigger protection area 2 then area 1, it will not alarm.

2>The double direction One-Shot mode: trigger protection area 1, protection area 1 alarm; trigger protection area 2 first then protection area 1 within preset time, then it will not alarm; trigger protection area 1 behind the preset time, the protection area 2 will alarm.

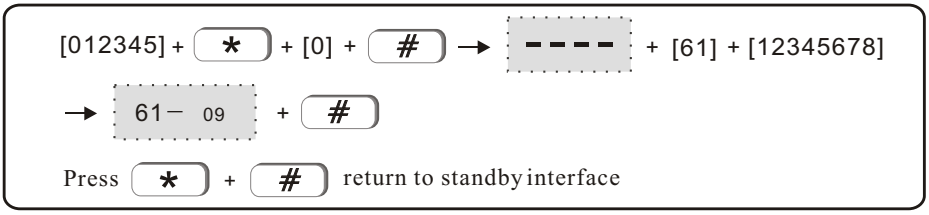
3>Twice-trigger alarm mode: one-shot trigger protection are 1 or 2, it will not alarm, trigger protection area 1 and 2 in preset time separately, then protection area 1 and 2 alarm.



Note: It can set 3 groups of cross protection areas. The corresponding No is 70-72

6.5 Dial back specific No.: dial telephone No. that connected with panel, input the # + administrator' s password after off-hook. It will be on-hook automatically and the panel will call the preset the telephone No. which can execute the arm and disarm operation in a long distance.

For example: set the dial back telephone No. is 12345678.

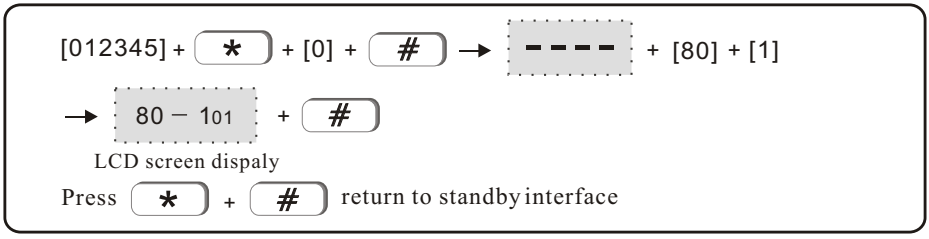


VII.GSM setting

7.1 GSM module set (default is disable)

0>Disable 1>Enable

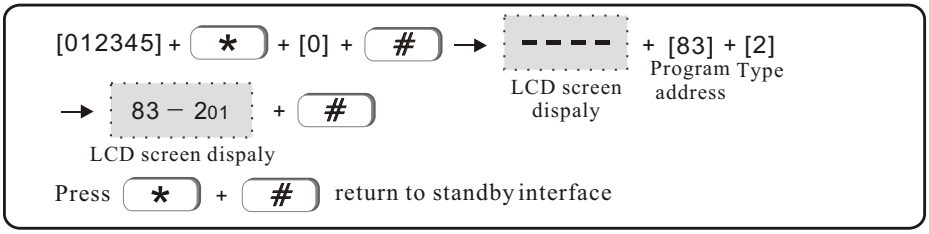
For example: set enable GSM module.Configurable GSM information as below.



7.2 GSM information setting (default is SMS + voice calling)

0> SMS + voice calling 1>SMS 2>Voice calling

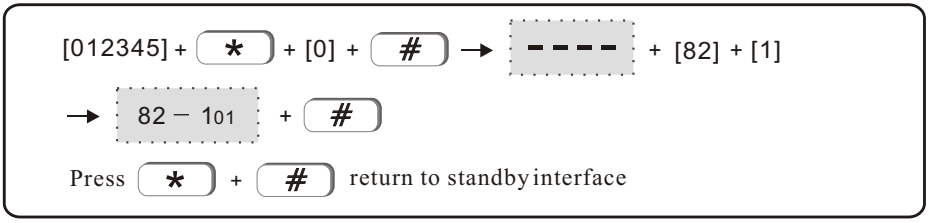
For example: set only can dial voice calling.



7.3 Alarm priorities (default is GSM priority)

0>GSM priority 1>PSTN priority

For example: set telephone line is priority

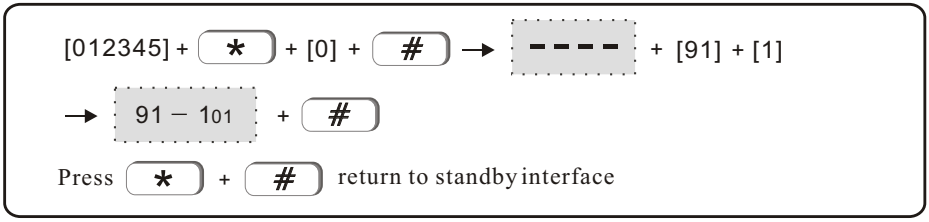


7.4 GSM message language (default is Chinese)

Configurable SMS language as below

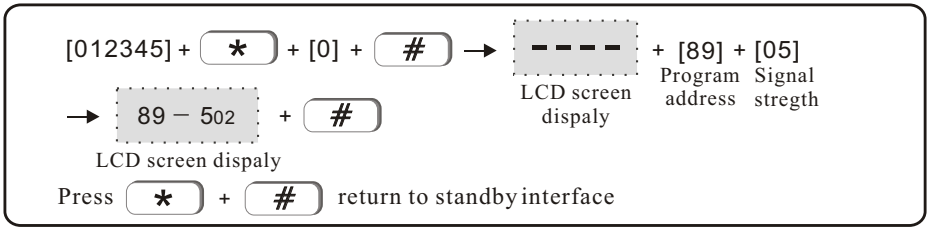
0>Chinese 1>English

For example: set message as English



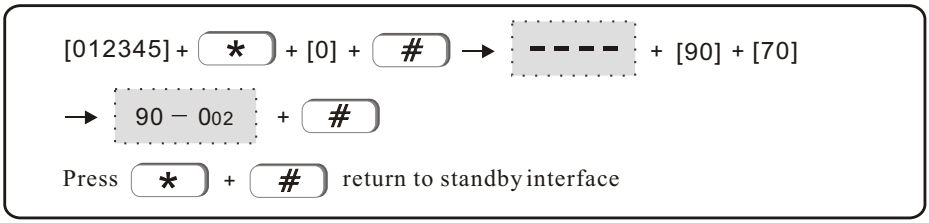
7.5. DTMF output signal strength(default is 04)

For example: set DTMF output signal strength is 05



7.6 Hand skake voice input signal strength (default is 60)

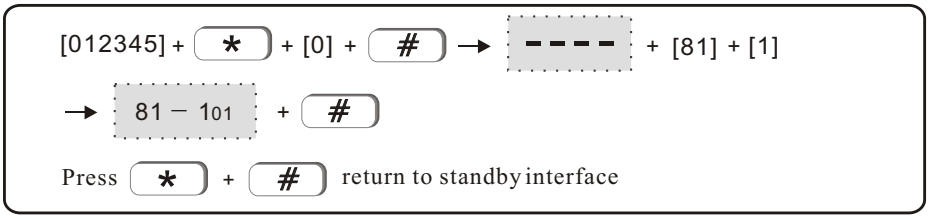
For example: set handshake voice input signal strength is 70



7.7 GPRS setting (default is disable)

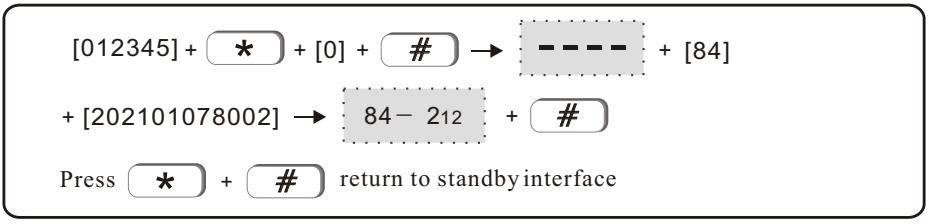
0>Disable 1>Enable

For example: set enable GPRS function.



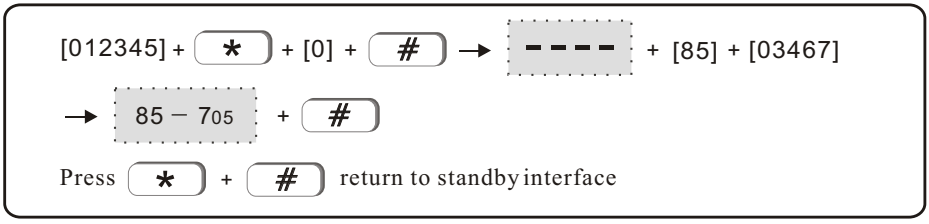
7.8 Server IP address

For example: set Server IP address is 202.101.78.2



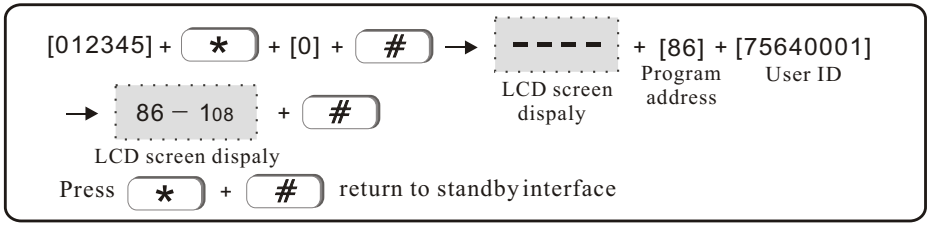
7.9 Server port

For example: set Server port is 03467



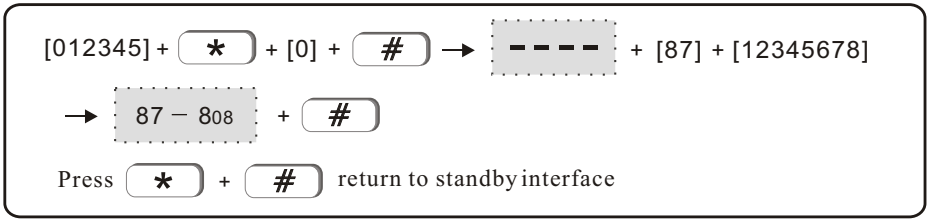
7.10 Server registered ID

For example: set server registered ID is 75640001



7.11. Server registered password

For example: set Server registered password is 12345678

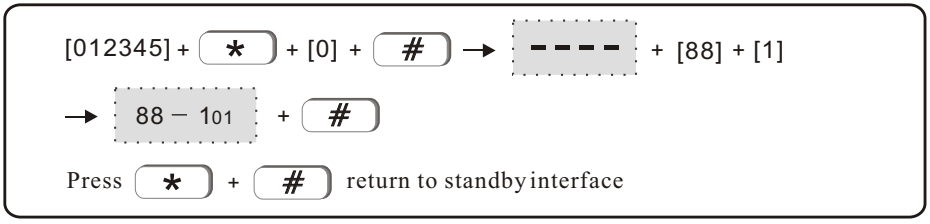


7.12 Server connection (default is long connection)

Configurable comection method mode as below

0>Long connection 1>Short connection

For example: set connection is short one



Note: Enable GPRS function need to enable GSM module.

Long connection: do not deal with SMS, voice calling and Server, via GPRS long connection.

Short connection: when it have voice calling and SMS, the system will cut off connection with GPRS, and deal with the voice calling and SMS priority. When this is done, GPRS will connect with Server automatically.

Server registered ID and password: GPRS can registered must have the correct ID and password that registered in the Server. it must be 8 digitals for the ID and passwords.

Technical specification

General data

External AC power supply vdtage: Input: 185～230VAC
Output:13VAC/2A
Backup power supply duration:16 hours
Backup battey(optiond): 12V/7AH
The method of alarming dial: Telephone alarm 、 GSM alarm and GPRS alarm
DTMF dial frequency variation :< 1.5%
Communication Protocol with CMS: Ademco Contact ID
Frequency: 433MHz/868MHz
E Signal transmit distance: 100 to 120 meters (open area)
Operation temperature range: 32F to 120F（0℃ to 45℃）
Storage temperature range: -4F to140F（-20℃ to 60℃）
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 appearanceand the tran sparency 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.