



**An Advanced
Programmable
Multifunctional
Elderly Care Alarm
In The Worldwide!**

他们

**GSM Elderly Care Alarm
Telecare & Telehealth System
Future Call LLC
Model FC-1201
TEL: 480-759-2255
help@future-call.com
www.future-call.com**

Android App

**For the App go to Google App Store on your Android Phone
and download the app "Senior Helper T2"**

User Manual

Date Issued: 05-17-16

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Future Call LLC.

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This handbook has been designed as a guide to the installation and operation of FC-1202 Panel. Statements contained in the handbook are general guidelines only and in no way are designed to supersede the instructions contained with other products.

We recommend that the advice of a registered electrician be sought before any Installation work commences.

The manufacturer, its employees and distributors, accept no liability for any loss or damage including consequential damage due to reliance on any material contained in this handbook.

The manufacturer, its employees and distributors, accept no liability for GSM Network upgrading or SIM Card upgrading due to the technology specifications contained in this handbook.

FC-1201 --- GSM Elderly Care Alarm

1. Product details

The **FC-1201 GSM Elderly Care Alarm** is an innovation solution of the telecare field made especially for the senior, elderly, aging people who live independently.

The **FC-1201** can be used for safety protection, temperature monitoring, daily activities monitoring, bedtime monitoring, fall alarm and emergency call system, away/stay at home monitoring, or like a normal telephone.

8 fast dial buttons onto which one can paste photos. These buttons can be set as Police, Relatives, Taxi, Firefighting, Doctor, Neighbor, or others for a quick dial out. Very easy and convenient Push-to-Talk feature! A large keypad to dial any additional phone numbers when needed.

The **FC-1201 GSM Elderly Care Alarm** also can be used as a telecare system; it can report the elderly's daily actions. Included functions: elderly away/back home time, remind to take medicine, go to sleep and get up time, if has not got up in time then can generate an alarm to receivers or central monitoring system (CMS) remotely.

Moreover, **FC-1201** can be used as a **GSM Alarm system**. It supports wireless SOS button, wireless fall detectors, wireless carbon monoxide detector, wireless gas leakage detector, wireless water leakage detector, wireless smoke detector, wireless motion detectors and so on. Once the wireless detectors are activated, it will generate an alarm to receivers or central monitoring system (CMS) remotely.

All of these wireless detectors can provide the safety protections to the senior, elderly, aging people who live alone.

A sensitive thermometer inside the **FC-1201** can measure the home temperature and send alert SMS text when temperature exceeds high/low threshold.

Features:

Elegant hand free design, large keyboard;

Solutions: take care of elderly get up, medical, SOS, fire, smoke, water, gas, sports, bedtime, etc.

7*24 Large LCD display with current time, temperature, and alarm events

GSM/GPRS wireless transmission, **no distance limitation**;

Bedtime/Get up not on time alarm;

Away Back Home notification;

Supports a variety of wireless detectors, including fall detector, CO detector, smoke detectors and so on;

Equipped with 8 quick dial numbers, and also can dial other numbers by keyboard;

Android app that can display the bedtime, away/back home trends, and many more functions;

3-Timer alert to take medicine or other activities.

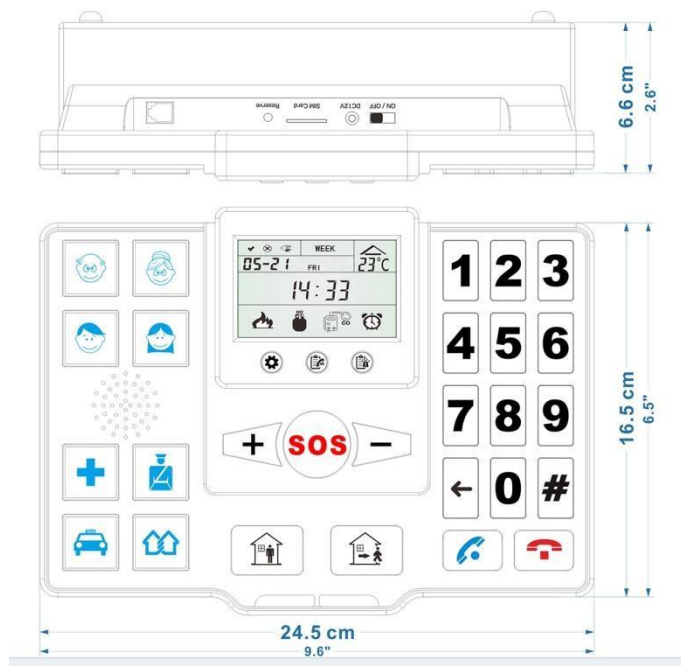
GPRS data transmit Contact ID protocol data to CMS available.

Backup rechargeable battery for memories

FC-1201 --- GSM Elderly Care Alarm

Specification and dimensions

GSM Frequency	Quad-band 850/900/1800/1900MHz
Wireless zones	16
Wireless Frequency	433.92MHz
Wireless distance	Max.100m in open air
DC Power supply	9~24VDC/1A
Power consumption	12V input Max. 50mA/Average 25mA
SIM Card	Supporting 3V SIM Card
Antenna	50 Ω SMA Antenna interface
Temperature range	-20~+60 $^{\circ}$ C
Humidity range	Relative humidity 90%
Backup battery	3.7V/900mAh
Exterior dimension	24.5*16.5*6.6cm (9.6*6.5*2.6 inch)
Net Weight	550g (1.2 lb)



Standard Packing List

- ✓ Main unit * 1
- ✓ AC/DC Power adaptor *1,
- ✓ User Manual

Applications

- **Residential:** Home safety alarm, elderly living monitoring.
- **Business:** Aging care, telecare, healthcare, etc.

Optional Accessories:

- ✓ PIR Motion Sensor,
- ✓ Door Magnetic contact Sensor,
- ✓ Smoke detector
- ✓ Gas leakage detector
- ✓ Water flood sensor
- ☐ Headset – upon special request

2.Safety Directions



Safe Startup

Do not use FC-1201 when using GSM equipment is prohibited or might bring disturbance or danger.



Interference

All wireless equipment might interfere network signals of FC-1201 and influence its performance.



Avoid Use at Gas Station

Do not use FC-1201 at a gas station. Power off FC-1201 when it near fuels or chemicals.



Power it off near Blasting Places

Please follow relevant restrictive regulations. Avoid using the device in blasting places.



Reasonable Use

Please install the product at suitable places as described in the product documentation. Avoid signal shielded by covering the mainframe.



Use Qualified Maintenance Service

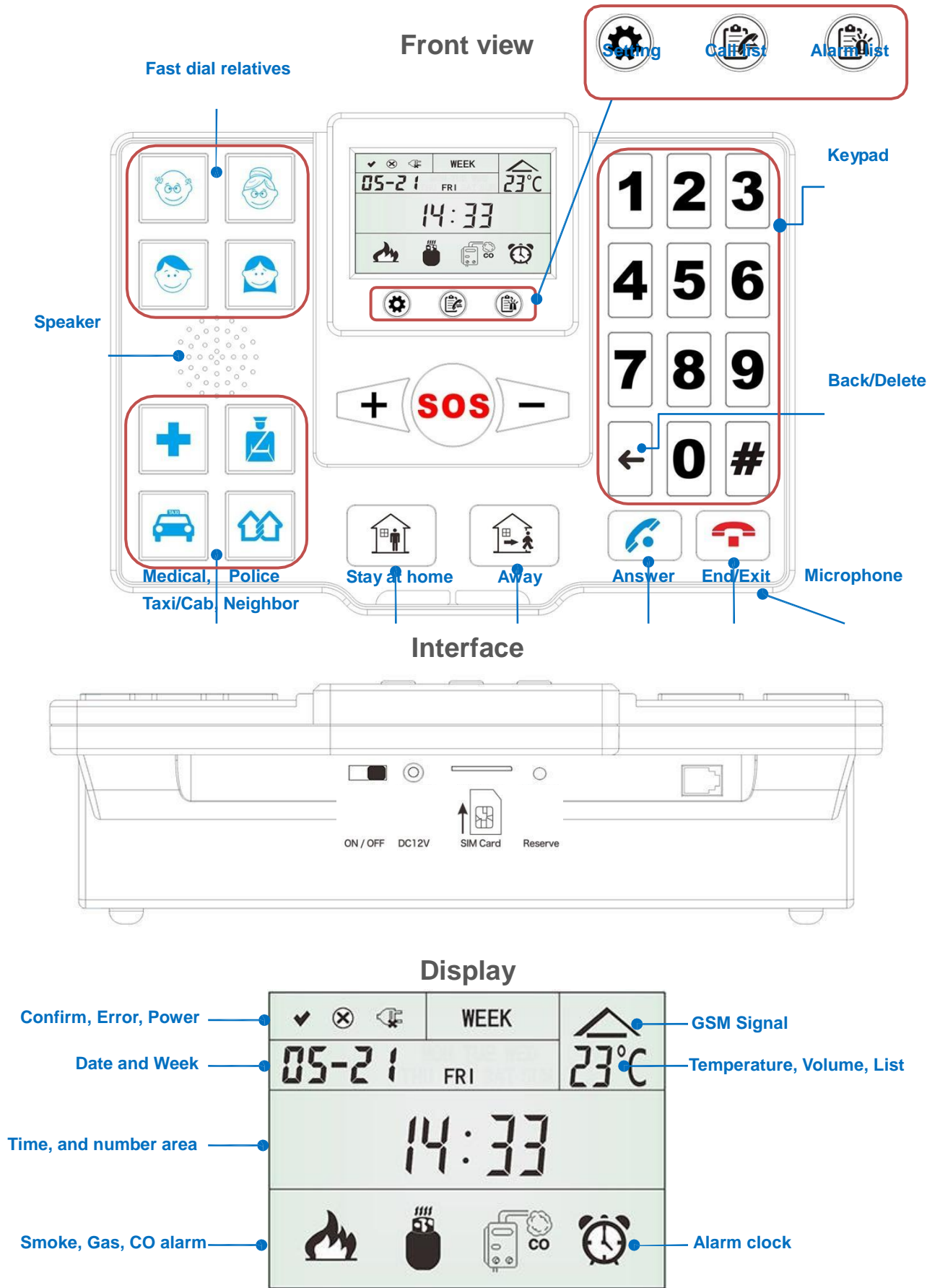
Maintenance can be carried out only by qualified maintainer.

Android App

For the App go to Google App Store on your Android Phone and download the app "Senior Helper T2"

FC-1201 --- GSM Elderly Care Alarm

3. Products schematic



FC-1201 --- GSM Elderly Care Alarm

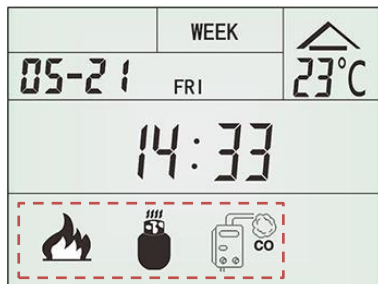
Typical Status:



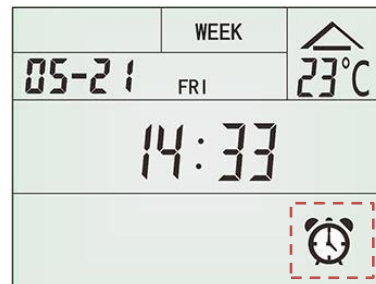
Registering, No GSM signal,
AC/DC adaptor lost.



GSM Signal good,
Power by AC/DC adaptor



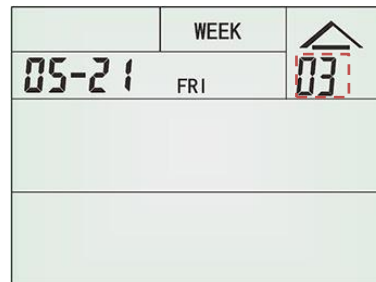
SOS alarm (3 icons flash together)



Alarm Clock (flash)




On phone call (in or out)




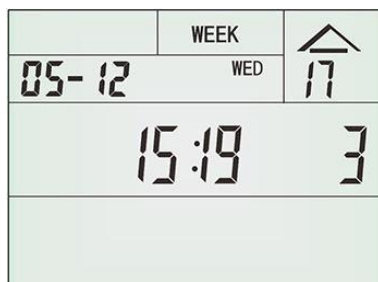
Volume adjust (range: 1~5)

List

FC-1201 can record last of 20 alarm events and last of 20 call events (in & out).

Press  to view the alarm events.

Press  to view call list, and press  can call back to this number.



Alarm List (On the 17th record,
Zone #3 alarm at 15:19, May 12.)





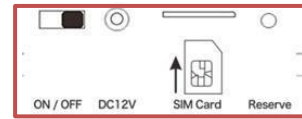
Call list, (On the 19th record,
Phone 13510150873 on May 20).

FC-1201 --- GSM Elderly Care Alarm

4.Easy setting

Start:

- Insert mobile SIM card (GSM850/900/1800/1900MHz) to the slot.
- Connect the power supply, Switch ON.
-  for confirm,  for mistake reminding on the LCD display when setting.



Confirming FC-1201 SIM Card number:

Setting→8 # FC-1201'sSIMCard number→Setting

FC-1201 will get mobile operator's date and time according to the SIM Card number, LCD will correct itself and display the real date & time, after few minutes when setting done. If FC-1201 can't get date & time automatically, please try to remove or add the country code, like **0086**13510150873 instead of 13510150873.

For example, setting the FC-1201's SIM card (13510150873) number:



Fast dial numbers:

Setting→Fast dial button→Phone number→Setting

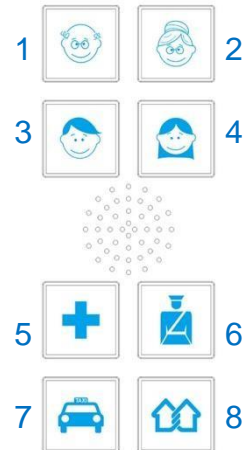
For example, setting the Police station number (999):



LCD display:



Fast dial buttons position



Alarm Receiver's phone number:

Setting→Receiver's position(1~5)# Phone number # Function code(0~2) →Setting

5 alarm SMS & Call receivers supported, the position number from 1~5.

Function code:

- 0: call this number
- 1: send alert SMS text to this number
- 2: send alert SMS text and call to this number

For example, setting the 1st position number (0086952), this number can receive alert SMS & Call.



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Notice: Stay/Away, wireless sensor's battery low power, FC-1201 back up battery low power, AC/DC power lost/recovery, High/Low temperature alarm, Bedtime monitoring SMS send to the 1st & 2nd receiver only, so the 1st & 2nd receiver should be mobile phone and select the function code as 1 or 2.

Temperature alarm threshold: Please note temperature is in Celsius, not Fahrenheit!

Setting→6 # high threshold→Setting (Default: High—99, disable this function.)

Setting→7 # low threshold→Setting (Default: Low—00, disable this function)

High/Low threshold value: 2 digits only.

For example, Setting high threshold as 32 degree.



Alarm clocks (1~3): Please note this is a 24 hour clock. There is no AM/PM option

Setting→100#hhmm→Setting

Setting→200#hhmm→Setting

Setting→300#hhmm→Setting

For example, setting the 1st alarm clock at 08:30am.



Delete alarm clock:

Setting→100#→Setting

Setting→200#→Setting

Setting→300#→Setting

Alarm audible time (0~240):

Setting→9#audible time→Setting

FC-1201 will make audible alarm and flash on LCD when alarm occurs. Alarm audio sounds 20 seconds and stops in 2 seconds interval, the total time is up to 4 minutes (0~240 seconds, default:60).

For example, setting the audible alarm at 30 seconds.



Reset to factory mode

Setting→000001#

Caution: The operation will RESET FC-1201 to factory mode! All of your settings will lost.

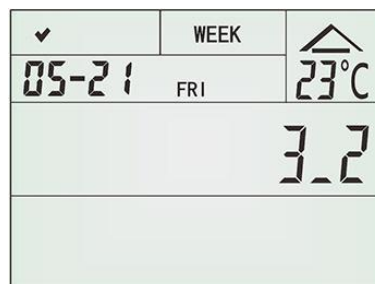
FC-1201 --- GSM Elderly Care Alarm

5.Add wireless sensors

Add wireless sensors step

Setting→zone number(01~16)#→zone type(1~6) #→Trigger the sensor→Setting

For example, add one fall detector sensor to zone #03:



Zone types explanation

- 1: SOS alarm (includes all pendants and PIR)
- 2: Smoke alarm
- 3: Gas alarm
- 4: CO alarm
- 5: Watchdog monitoring
- 6: Bed/Get up time monitoring

Watchdog zone time setting: Please note this is a 24 hour clock. There is no AM/PM option

Two periods of time monitoring can be set for a same watchdog zone.

Setting→400#Zone number#Start time#End time→Setting (Default 0000#0000, disable.)

Setting→500#Zone number#Start time#End time→Setting (Default 0000#0000, disable.)

For example, add **one door sensor** on the zone #5 (main gate) and setting the time at 07:00~09:30 and 16:00~17:30, if the main gate not opened on the above duration, FC-1201 will send alert SMS text to the 1st and 2nd receiver.



Bedtime/Get up monitoring zone time setting: Please note this is a 24 hour clock. There is no AM/PM option

FC-1201 can install wireless sensors to monitor the elderly's sleeping (bed)/wake up(get up) time.

Bedtime period: **Setting→400#Zone number#Start time#End time→Setting**

Get up time period: **Setting→500#Zone number#Start time#End time→Setting**

(Default 0000#0000, disable.)

For example, install **one PIR sensor** on the bed room's door frame (Zone #6), setting the bedtime at 21:00~22:30, and get up time at 06:00~08:30, FC-1201 will record the latest movement detection between 21:00~22:30, i.e.: at 22:10, then FC-1201 will send notify SMS text "Mom went to bed at 22:10" to the 1st receiver. And if Mom gets up and the first time she walk through the door at 07:30am, then FC-1201 will send a notify SMS text "Mom got up at 07:30" to the 1st receiver.

If the PIR sensor didn't detect any movement during 21:00~22:30, and 06:00~08:30, FC-1201 will send alert SMS text "Mom still not went to bed" at 22:31, and "Mom still not get up" at 08:31 to the 1st & 2nd receiver.



Notice: The different between "Watchdog zone" from "Bed/Get up time monitoring zone" is:

"Bedtime/Get up time monitoring zone" will send notify SMS text of the latest sensor's trigger during the period to the 1st receiver after time out.

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6. How FC-1201 works for elderly?

Push-to-Talk with families



Keep the origin design icons or stick an easily recognized photo on the buttons, just push these buttons then make a phone call with families

Push-to-Ask for help (Emergency Services), OR Call more friends/family



Keep the origin design icons or stick a recognizable photo on the buttons, just push these buttons then make a phone call with Doctor, Police station, Taxi/Cab service and neighbor/community, or family for help.

SOS alarm when under emergency situation





Push the SOS button for 3 seconds, FC-1201 will send SOS alert SMS text and make a phone call to receivers for asking emergency help

Other Wireless SOS button or fall detectors optional

Make phone call

Press the keypad for make a phone call, just like a regular telephone set.


Press  for answer the call in, press  for end calls.



Press  to erase the last number if made mistake.

24 hours safety guard

When smoke, gas, CO or water flood detected, FC-1201 will make audible alarm, send alert SMS text and call to the receivers/Call center/Firefighting or other CMS system.

Alarm clocks

FC-1201 will make audible alarm and flash on LCD according to the timing setting. Alarm audio sounds 10 seconds and stop 2 seconds, repeat 5 times or stopped by end button  .

Audio volume (1~5) can be adjusted by  and  , (the same volume for phone call, audible alarms).

Daily life care

FC-1201 will send alert SMS text if no activities detected by PIR/Door sensors during the watchdog time period. For example, install one door contact sensor on the main gate, setting time period at 16:00~18:00pm, if the main gate not opened during that time, FC-1201 can send alert SMS to receivers.

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Bedtime/Get up care

Under the



status, FC-1201 will send a notify SMS text of the “bedtime” and “get up time” to the 1st receiver.

For example, install one certain PIR sensor on Mom's bedroom (door frame), setting the bedtime at 21:00~22:30, and get up time at 06:00~08:30, FC-1201 will record the **latest** movement detection between 21:00~22:30, let's say at 22:10, then the FC-1201 will send a notify SMS text “**My bedtime: 22:10, good night:)**” to the 1st receiver at 22:30.

If Mom gets up and the **first** time she walks through the door is at 07:30am, FC-1201 will send a notify SMS text “**Good morning, I get up at 07:30**” to the 1st receiver at 07:30.

If the PIR sensor didn't detect any movement on 21:00~22:30, and 06:00~08:30, FC-1201 will send alert SMS text “**I didn't go to sleep yet**” at 22:31, and “**I didn't get up yet.**” at 08:31 to the 1st and 2nd receiver.


This unique function is designed for taking care of the elderly's health status during the evening and morning, in case of any unexpected situation, receivers can get a notify SMS text and need to take care about “is there anything OK”, or “why mom still has not got up” or “why she still has not gone to bed?” etc.

Stay/Away care

Press



when away home, FC-1201 will send a notify SMS text “**I'm leaving home now.**” to the 1st and 2nd receiver, to let them know that elderly is away from home at that time.

FC-1201 will send a notify SMS text “**I'm at home now.**” to the 1st and 2nd receiver when elderly is back home and pressed the  button, to let them know that the elderly back home safety.

If the receiver gets a notify SMS text of “**I'm leaving home now.**” but didn't get SMS text of “**I'm at home now.**” after a few hours, for example: received the SMS text “**I'm leaving home now.**” at 16:00 but didn't received SMS text “**I'm at home now.**” till 22:00, then receivers should call to FC-1201 or mobile numbers to check if elderly forgot to press the Stay button or really didn't go back yet.

Temperature monitoring: Please note temperature is in Celsius, not Fahrenheit!

FC-1201 sends alert SMS text to receivers when temperature higher/lower than threshold for more than 10mins.

Low Battery Detection

FC-1201 will send alert SMS text to the 1st and 2nd receivers when AC/DC power lost (more than 30mins) and recovery, back up battery low power, wireless sensor's battery low power.

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7. Setting & Operation by SMS commands:

FC-1201 can be set by SMS commands with password protection remotely.

- * The SMS commands should with Password, 1234 is the default password on below context; please change it to new password if you had changed already.
- * The command body **PU**, **EE**, etc. must be **Caps Lock**.
- * **No space on the SMS commands** the space on command list just for reading purpose.

Change Password

1234PU new password

FC-1201 return: This is the New Password, please remember it carefully. E.g.: **1234PU6666** to change the new password to 6666.

Modify the Fast dial phone numbers.

1234A position(1~8) T phone number

For example, modify the Police station's number to 999:

E.g.: **1234A6T999**

To inquire about fast dial phone numbers: You will receive a text with all preprogrammed fast dial numbers.

1234A

Remove fast dial phone number: (select number of position, 1-8).

1234A position(1~8)

Modify the Alarm receiver's phone numbers.

1234B position(1~5) T phone number A function code(0~2)

*Function code: refer to page 7 "Alarm Receiver's phone number"

For example, modify the 1ST receiver's phone number to **0086952**, this number can receive SMS and call.

E.g.: **1234B1T0086952A2**

To inquire about alarm receiver's phone number: you will receive a text with all preprogrammed alarm receiver's numbers.

1234B

Remove alarm receiver's phone number (select number of receiver, 1-5).

1234A position(1~5)

Modify the alarm content of zones.

1234M zone number(00~16) alarm content

E.g.: **1234M01Smoke Fire alarm!**

FC-1201 --- GSM Elderly Care Alarm

Modify the Alarm Clocks.

For example, modify the 1ST alarm clock to 08:30

1234C position(1~3) hhmm

To inquire alarm clocks:

1234C

Remove alarm clock:

1234C position(1~3)

Inquiry the FC-1201 status.

1234EE

FC-1201 return:

I'm at home; / I'm away;	(Elderly at home or away home)
External AC Power OFF/ON	(AC power status)
GSM Signal:**	(GSM signal range 1~31, lower than 14 means signal weak)
Temp:**degree;	(Celsius)
IMEI: *****	(GSM module's IMEI code)

8. GPRS data Parameter Setting

For engineer and remote server system only

Please ignore this part if the total quantity of FC-1201 should be monitoring less than 200pcs

APN(call your mobile operator to ask the Access Point Name, private APN supported)

1234APN apn name#user#password

E.g.: 1234APN everywhere*eecure*secure#

(the example "APN name: everywhere, user: eecure, password: secure" supported by T-Mobile + AT&T)

CMS Server IP address and server port

1234IP server IP address P server port

E.g.: 1234IP175.164.49.20P4005

FC-1201 send "I'm leaving home now." through GPRS data to server system when Away button is pressed.

FC-1201 send "I'm at home now." through GPRS data to server system when Stay button is pressed from Away status.

Alarm process:

Alert SMS→GPRS data to Server system→Alarm dial

GPRS upload to Server system depends on the alarm events(trigger) automatically, GPRS Data off line when data send complete. FC-1201 can't receive data from server system.

GPRS data following the Contact ID (SIA DC-9) protocol.

9. SMS Content list

Events	Alert SMS text	Description
Big SOS button pressed	SOS Help!	Zone number: 00
Away button pressed	I'm leaving home now.	
Stay button pressed	I'm at home now.	
AC/DC power lost	Alert: External AC power lost!	Alert when AC/DC power lost more than 30mins
AC/DC power recovery	Notice: External AC power recovery!	
FC-1201 back up battery low power	Alert: Main panel's battery low power!	
High temperature alarm	Alert: High temperature alarm! Current Temp: **C	
Low temperature alarm	Alert: Low temperature alarm! Current Temp: **C	
Temperature back to normal value	Notice: Temperature back to normal. Current Temp:**C	
Bedtime monitoring	My bedtime: **:**, good night :)	Sensor's latest trigger time
	I didn't go to sleep yet.	If no trigger
Get up time monitoring	Good morning, I got up at **:**	Sensor's first trigger time
	I didn't get up yet.	If no trigger
Wireless zone #1 alarm	SOS Help! Fall down detector alarm!	For EM-90 (*optional)
Wireless zone #2 alarm	Alarm: Smoke detected!	For SM-100 (*optional)
Wireless zone #3 alarm	Alarm: Gas detected!	For GL-100A (*optional)
Wireless zone #4 alarm	Alarm: CO detected!	For CO detector (*optional)
Wireless zone #5 alarm	Alert: Watchdog zone!	For PIR/Door (*optional)
Wireless zone #6 alarm	Alert: Bed/get up	For bed/get up...
Wireless zone #7 alarm	Alarm: Water flooding!	For WL-100 (*optional)
Wireless zone #8 alarm	SOS Help! Wireless pedant alarm!	For EM-60 (*optional)
Wireless zone #9 alarm	SOS Help! Wireless wrist button alarm!	For EM-70 (*optional)
Wireless zone #10 alarm	SOS Help! Wireless panic button alarm!	For EM-100 (*optional)
Wireless zone #11 alarm	Zone 11 alarm!	For other optional sensors
Wireless zone #12 alarm	Zone 12 alarm!	For other optional sensors
Wireless zone #13 alarm	Zone 13 alarm!	For other optional sensors
Wireless zone #14 alarm	Zone 14 alarm!	For other optional sensors
Wireless zone #15 alarm	Zone 15 alarm!	For other optional sensors
Wireless zone #16 alarm	Zone 16 alarm!	For other optional sensors
Wireless sensor's battery low power	Alert: Zone xx detector low power!	Reserve function.

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10. Quick Setting Menu

Function Confirming FC-1201 SIM Card	Example	Buttons
number	FC-1201 SIM card number:1351015	8#1351015
Fast dial number	Setting the Police station number (999)	999
Alarm Receiver's phone number	Setting the 1 st position receiver number: 0086952, can receive alarm SMS and Call	1#0086952#2
High Temperature alarm	Setting high threshold as 32 degree.	6#32
Low Temperature alarm	Setting high threshold as 20 degree.	7#20
Alarm Clocks	Setting the 1 st alarm clock at 08:30am	100#0830
Alarm audible time	Setting audible alarm 30 seconds	9#30
White list	Setting all numbers can call in to the FC-1201 (default)	0#0
	Setting white list numbers can call in to the FC-1201 only	0#1
Add sensors	add one smoke sensor to zone #3	03#2# Trigger the sensor
Watchdog zone time 1	Setting monitoring period at 0700~0930am for zone 5	400#05#0700#0930
Watchdog zone time 2	Setting monitoring period at 1600~1730pm for zone 5	500#05#1600#1730
Bedtime	Setting bedtime period at 21:00~22:30 for zone 6	400#06#2100#2230
Get up time	Setting get up time period at 06:00~08:30 for zone 6	500#06#0600#0830

11. Warranty

- 1) This system is warranted to be free of defects in material and workmanship for one year.
- 2) This warranty does not extend to any defect, malfunction or failure caused by abuse or misuse of the Operating Instructions. In no event shall the manufacturer be liable for any alarm system altered by purchasers.