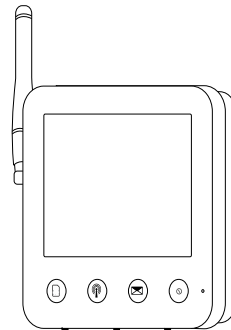


GSM MODULE USER MANUAL



-401G

Product introduction	3
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Thank you for purchasing our products of building intercom system series, please read the instruction carefully and follow the directions before installing the products.
Any problem regarding to the products, please inquire your supplier.

General features

- Enable the outdoor unit remote talk with telephone/mobile phone.
- Enable the telephone/mobile phone remote unlock the door.
- SMS remote setup the module (incl. system menu, function menu, VIP unlock menu)
- VIP unlock the door (without charge)

Product's function

Be connected with our 4-wired video door phone (which system is able to connect with at least 4pcs indoor units with intercommunication function), to reach the function of remote talk or unlock between phone and outdoor unit. Also the SMS remote setup module function is available.

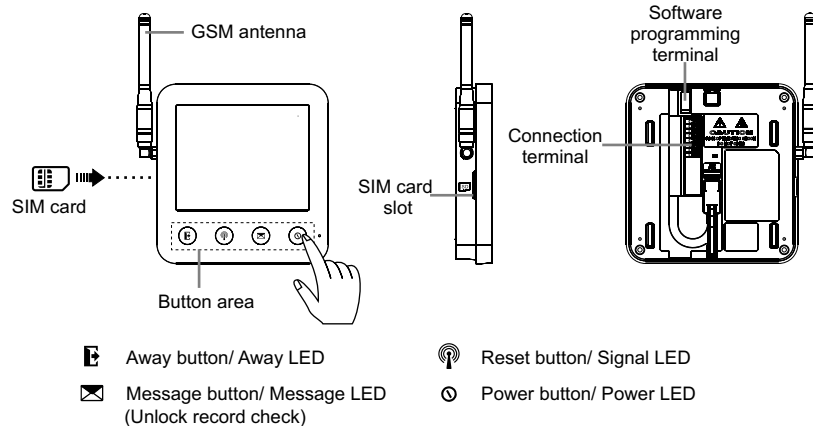


CAUTION: To avoid the risk of electric shock, please don't remove cover or back. Please ask professional person if maintenance needed.



Remind users that important operation and maintenance guide are included in the attached user's manual.

* The manufacturer reserves the right to change or modify designs, features, functions and specifications without any prior notice for the improvement and promotion of product's quality, please refer to the real products.



Remark

1. During the operation, please press the center of buttons.(As above picture)
2. The SIM card should be had the caller ID display function, please consult with your local GSM network operator.
3. The unit is only supported GSM900/1800 network.

1. Power status indication

After connecting to the power, the power LED(red) will be lighted all the time.Away LED(red) starts to flash which means the module is under registration. while the away LED(red) stops flashing, and the signal LED(green) turns on, that means the module starts to work.

Remark:1. -Power LED, - away LED

2. If there has the other LED flasheing, please refer to the “ Features and parts” or “ LED indication” introduction

2. Power ON/OFF

- a. When the module is under OFF status, press button, it will sound "DI" and then enter into the standby mode, meanwhile, the power LED(red) lights on.
- b. When the module is under standby status, press button, it will sound "DI" and all LED will turn off, that means the module enter into OFF mode.


3. Restart

If the module is worked abnormally, please press"" button to restart the unit.

Remark: 1. If the SIM card loose contact, please pull out the SIM card and insert it again, and then press button to restart the module.

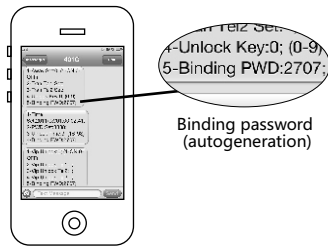
2. Every time when you insert the SIM card, you have to press button to restart the module, or it may not read the SIM card.

4. Reset

Press and hold  button till the signal LED(green) flashes, which means the module is entering into the reset mode. When the module sounds "DI", means you have reset the module successfully.

5. Binding the mobile phone number to the GSM module

Send SMS ***Admin password*00#** to 401G module's phone number, the user will get the replied SMS which include the detail of the menu, which include the binding password, which means the mobile phone number has been successfully bound to the module.



Remark: 1.You have to bind the mobile phone number for the initial using, or you can not setup the functions via SMS.

2.If you want to bind another mobile phone number, just do the same as the above operation.

3.If you want to cancel the bound mobile phone number, you could reset the module or change the

administration password. Please refer to the function menu setup of Part 6.3.

4.The administration password is defaulted to 8888.

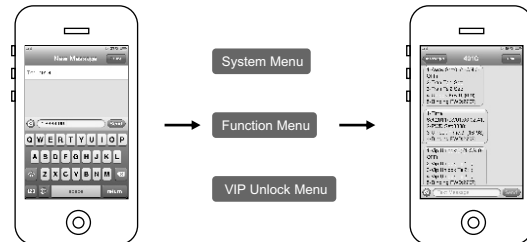
5.If you changed the binding password, the bound mobile phone number can not setup the menu Any more.

5. Save the SMS for more convenient operation.

6. SMS to setup the module (should be bound the mobile phone No. First)

6. 1 To get the setup menu

Send SMS ***Admin password*00#** to 401G module's phone number, the user will get the replied SMS which include the detail of three menu: System Menu, Function Menu and VIP Unlock Menu.



Remark: Save the SMS for more convenient operation.

6.2 System menu setup

Send SMS ***Admin password*11#** to 401G module's phone number, the user will get the replied SMS as below:

SMS	Function commentary
1-Away Set: 0; (1-ON,0-OFF)	【Away setup】 0-Turn off away mode 1-Turn on away mode (Factory setting default to 0.)
2-Tran Tel1 Set: ;	【1st transfer phone number setup】 Max. support 20 digits, not allow "*" or "#"
3-Tran Tel2 Set: ;	【2nd transfer phone number setup】 Same operation as the above. More detail information referring to Operation 13 – Call remind / transfer.
4-Unlock Key:0; (0-9)	【Unlock key setup】 Factory setting default to 0.
5-Binding PWD:****;	【Binding password】 The password will be automatically generated after the user bind the mobile phone number. (Modify the password is not allowed.)

To setup the menu, you need to modify the menu details, and then send the SMS to 401G module's phone number.

Example 1:

To turn on away mode To setup 123456789 as 1st transfer phone number

To setup digit 8 as unlock key

Modify system menu as right

```
1-Away Set: 1; (1-ON,0-OFF)
2-Tran Tel1 Set:123456789 ;
3-Tran Tel2 Set: ;
4-Unlock Key:8; (0-9)
5-Binding PWD:****;
```

Send modified menu to 401G by SMS. If get replied SMS "SET OK", means setup successfully.

Modify system menu as below

Example 2:

If unsuccessfully setup the unlock key, and away mode is turned on but without transferring phone number, the user Will get the SMS by 401G module as below:

Remark: 1. If away mode is turned on, but without transferring phone number, the SMS will be replied "Tran Tel1 Set: NO TELEPHONE NUMBER".
2. If the item is unsuccessfully setup, the SMS will be replied " FAIL".

```
1-Away Set: 1; (1-ON,0-OFF)
2-Tran Tel1 Set:NO TELEPHONE NUMBER ;
3-Tran Tel2 Set: ;
4-Unlock Key:FAIL; (0-9)
5-Binding PWD:****;
```

6.3 Function menu setup

Send SMS ***Admin password*22#** to 401G module's phone number, the user will get the replied SMS as below:

SMS	Function commentary
1-Time Set:2011/11/11,11:11:11;	【Date/Time Setup】 Format: YYYY/MM/DD,HH:MM:SS
2-PWD Set:8888	【Admin password setup】 Admin password should be 4 digits (Factory setting default to 8888)

3-Unlock Time:3; (1S-9S)	【Unlock time setup】 Could be setup between 1 to 9 seconds. (Factory setting default to 3 seconds.)
4-Binding PWD:****;	【Binding password】 The password will be automatically generated after the user bind the mobile phone number. (Modify the password is not allowed.)

Remark: Please change the admin password when you use it for the first time.

6.4 System menu setup

Send SMS ***Admin password*33#** to 401G module's phone number, the user will get the replied SMS as below:

SMS	Function commentary
1-VIP UNLOCK EN:0; (1-ON,0-OFF)	【Turn on/off VIP Unlock function】 0-Turn off 1-Turn on (Factory setting default to 0.)
2-VIP UNLOCK TEL1	【Setup 1 st VIP unlock phone number】
3-VIP UNLOCK TEL2	【Setup 2 nd VIP unlock phone number】
4-VIP UNLOCK TEL3	【Setup 3 rd VIP unlock phone number】
5-Binding PWD:****;	【Binding password】 The password will be automatically generated after the user bind the mobile phone number. (Modify the password is not allowed.)

VIP unlock function introduction: When turn on VIP unlock function, the pre-setup VIP unlock phone number call 401G module's phone number, the door will be unlocked automatically after "DU". (The module is no needed to answer the call, and the call is without any charge).

For example:

To turn on VIP unlock function

To setup 1st VIP phone Number as 123456789

Modify VIP unlock menu as right:

```
1-VIP UNLOCK EN:1; (1-ON,0-OFF)
2-VIP UNLOCK TEL1:123456789;
3-VIP UNLOCK TEL2: ;
4-VIP UNLOCK TEL3: ;
5-Binding PWD:****;
```


Send modified menu to 401G by SMS. If setup successfully, when phone number 123456789 call 401G module's phone number, it will unlock the door directly.

6.5 Check unlock records


a. Any phone number

Send SMS ***Admin password*44** to 401G module's phone number, the user will get the replied SMS which indicated the latest 5 unlock records.

b. Transfer phone number

Press and hold  button till it sounds "DI", the user will get the replied SMS which indicated the latest 5 unlock records.

Remark:

1. Only the 1st transfer phone number can receive latest 5 group of unlock records by pressing button. The 2nd transfer phone number need to send SMS ***Admin password*44** to get records.
2. The function of pressing  to get unlock records is not available if the unit is only setup the 2nd transfer phone number.
3. Refer to operation 6.2 to see how to setup transfer phone number.

【Format of unlock record message: phone number; date; time; door station number】

For example

123456789;2013/03/13,15:15:15;DOOR1

It means phone 123456789 unlock Door1 on 15:15, 13th March 2013.

6.6 SMS to setup individual function

a. Setup away mode

Turn on away mode: send SMS ***Admin password*1*1#** to 401G.

Turn off away mode: send SMS ***Admin password*1*0#** to 401G.

If away mode is turned on, but without transferring phone number, the SMS will be replied "Tran Tel1 Set: NO TELEPHONE NUMBER".

b. Setup 1st transfer phone number

Send SMS ***Admin password*2*phone number#** to 401G.

Remark: Max. support 20 digits, not allow "*" or "#"

c. Setup 2nd transfer phone number

Send SMS ***Admin password*3*phone number#** to 401G.

Remark: Max. support 20 digits, not allow "*" or "#"

d. Setup unlock key

Send SMS ***Admin password*4*N#** to 401G. (N stands for digit from 0 to 9.)

Remark: If you get replied SMS "SET OK", means setup successfully.

If you get replied SMS "SET FAIL", means setup unsuccessfully.

7.Help

Send SMS **help** to 401G module's phone number, the user will get the replied SMS as below:

SMS	Function commentary
*PASSWORD*00#:Get All Menu	【Get All Menu】
*PASSWORD*11#:Get System Menu	【Get System Menu】
*PASSWORD*22#:Get Function Menu	【Get Function Menu】
*PASSWORD*33#:Get VIP Unlock Menu	【Get VIP Unlock Menu】
*PASSWORD*1*1#:Set Away ON	【Set Away ON】
*PASSWORD*1*0#:Set Away OFF	【Set Away OFF】
*PASSWORD*2*TELEPHONE NUMBER#:Set Transfer Telephone Number 1	【Set Transfer Telephone Number 1】
*PASSWORD*3*TELEPHONE NUMBER#:Set Transfer Telephone Number 2	【Set Transfer Telephone Number 2】
*PASSWORD*4* UNLOCK KEY#:Set Unlock Key, From 0 To 9	【Set Unlock Key, From 0 To 9】

8.Away setup

Press **[E]** button till the module sounds DI, meanwhile away LED (green) turns on, means AWAY mode set ON.

Press **[E]** button till the module sounds DI DI, meanwhile away LED (green) turns off, means AWAY mode set OFF.

Remark: 1. if you do not setup the transfer phone number, when you turn on away mode, the module will remind you to setup the transfer phone number with a long DI.
2. The function is invalid when the indoor monitor is turned on away mode which can automatically Record video.

9.Unlock

Under talking mode, double -click unlock key on the mobile phone to unlock the door.

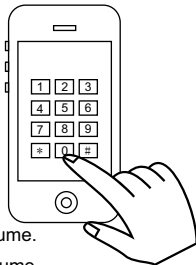
Remark: the unlock key is default to 0. Refer to Operation 6.2 – System manual setup.

10.Volume setup

Under talking mode, double click # on the mobile phone to increase talk volume.

Under talking mode, double click * on the mobile phone to decrease talk volume.

Remark: Successfully setup with DI, failure with DI DI.



11.Away extension terminal

When the module is installed in a high position which is not convenient for operation, you can connect with an external switch through away extension terminal, to setup away mode.

With the external switch, you will hear the module sounds a short DI when you press the switch, which means the away mode ON. Press the switch again you will hear the module sounds DI DI, which means the way mode OFF.

Remark: 1. Press and hold the switch, till the module sounds a short DI, which means the module is successfully restarted.
2. If you don't setup the transfer phone number, you will hear the module sounds a long DI when you press the switch for the first time, which remind you to setup the transfer phone number.

12.Remind when send the message

Message LED (red) on, means the module is sending the message.

After message LED (red) turns green means message send failure. When message LED (green) turns off without turn on the green LED, which means successfully send the message.

Remark :  -Message LED

13. Outdoor unit call remind / call transfer













Under away mode, when outdoor unit calls in, the power LED (green) flashes and transfer the call to the transfer phone number.






- A. If you have setup two transfer phone number, when outdoor unit calls in, the call will be transferred to the 1st phone number. If the visitor call again within 10 seconds, the call will be transferred to the 2nd phone number.
- B. If you only setup the 2nd transfer phone number, when outdoor unit calls in, the call will be transferred to the 2nd phone number directly.

Remark: To reach the call transfer function, you will turn on away mode, and setup the call transfer phone number.

14. Alarm for communication problem

If the module sounds DI DI at intervals, meanwhile away LED (green) flashes, which means there is communication problem between the module and the indoor unit. Please check the wiring.

- | | |
|--|--|
| 1.  Power LED (green) on | Means under talking mode |
| 2.  Power LED (green) flash | Means outdoor unit calls in |
| 3.  Message LED (red) on | Means message is sending |
| 4.  Message LED (green) on | Means failure to send the message |
| 5.  Message LED (green) flash | Means under reset mode |
| 6.  Signal LED (green) on | Mean signal is normal |
| 7.  Signal LED (red) on | Means signal is weak |
| 8.  Signal LED (red) flash | Means no signal |
| 9.  Away LED (red) flash | Means under registration mode |
| 10.  Away LED (red) on | Means no SIM card or poor contact of SIM card |
| 11.  Away LED (green) on | Means away function is ON |
| 12.  Away LED (green) flasht | Means communication problem between the module and the Indoor unit |

Problem	Possible reason	Solution
The module totally cannot work	-The module hasn't connected with power. -The module is under OFF mode.	-Check if the power is well plugged in. -Refer to Operation 2 – Power ON/OFF.
Outdoor unit cannot call. The module is no response.	-The connection between indoor unit and the module is cut off. -The connection between indoor and outdoor unit is cut off. -The module is under OFF mode.	-Check the connection between indoor unit and the module. -Check the connection between indoor and outdoor unit. -Refer to Operation 2 – Power ON/OFF.
The module cannot transfer the call and send the message.	-Poor signal. -Poor contact of the SIM card. -No charge of the SIM card.	-Check the connection of antenna. -Check if the SIM card is well plugged in, then press  button to restart the module. -Please prepaid the SIM card in time.
The module sounds“DI DI”at intervals.	-The connection between the module and the indoor unit is cut off.	-Check the connection between the module and the indoor unit.
When talk with phone, the voice which outdoor can heard is very low.	-Talk volume is too low.	-Under talk mode, double -click unlock key on the mobile phone to unlock the door.
 Signal LED (red) on	-Poor signal.	-Check the connection of antenna and installation position.
 Signal LED (red) flash	-No signal	-Check the connection of antenna.
 Away LED (red) on	-No SIM card on the module or poor contact of SIM card.	-Check if the SIM card is well plugged in, then press  button to restart the module.

Item \ Model No.	401G	
Power Supply	DC13.5-15V/600mA	
Connection	In series	
Power consumption	13.5V/20mA±5mA (Standby)	13.5V/50mA±10mA (Working)
Support Frequency	GSM900 / DCS1800	
Sub Units	Max. support 3PCS 401G	
Operation temperature	-10°C to +55°C	
Optional Indoor unit	Any of our 4-wires indoor units (which should be had the function of connecting with 3pcs extension unit)	