

## **AN1808-01 INTERCOM & ACCESS CONTROL OPERATING MANUAL**



**For your protection, read these instructions completely**

**Keep for future reference.**

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Thank you for purchasing AN1808-01 4G audio intercom. Please read this manual carefully before using.

Be sure to keep this manual for future reference in case of any problem or questions.

## **Important Safety Instructions**

When using this intercom, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury. Please read the following before using your equipment.

1. Follow all warning and instructions on the product.
2. Unplug all the connections of product before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
3. Do not use this product near water.
4. Do not use this product near an area where there is a potential of gas leaks or near any fumes that can be explosive.
5. Do not place this equipment near or over a radiator or any other heat source.
6. Do not overload the wall outlet or power cord where the power adapter is installed. This can result in fire or electric shock
7. Avoid spilling liquid on this equipment and do not insert any objects through the ventilation slots.
8. Avoid using the equipment during an electrical storm. There is a remote risk of electrical shock from lighting.

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## **Introduction**

The 4G Door Station AN1808-01 is an intercom system and access control device which can be installed at the entrance of a building, gate, fence or door. The device can operate on local 12-24V AC or DC power. It enables you to speak with visitors, from any location, on or off the premises. Door or gate release is activated from your phone keypad by pressing \* during the conversation and can also be activated by calling the SIM card in the unit from an authorized phone number (guest). The intercom will recognize an authorized phone (guest) number calling it, and then not answer the call, but will release the door or gate. This call is free. This intercom supports all Telstra, Optus & Vodafone CSFB networks.

Mounting Bracket

## **Parts List**

Item	Description	Q'ty
1	AN1808-01 4G audio intercom	1
2	Power adapter	1
3	Antenna with 3 metre tail.	1
4	Mounting Bracket for antenna	1
5	Operating manual	1
6	6 Pin Cable	1
7	Terminal Blocks	1

### **Accessories**

Terminal Blocks

6 Pin Cable

Power Cable

Antenna

Mounted Bracket

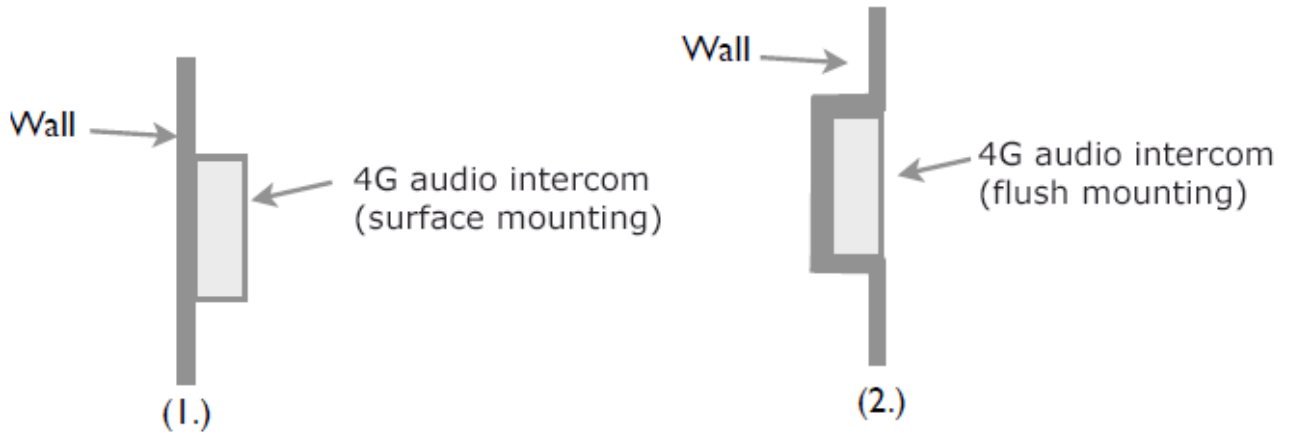
Power Adapter



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## Installation

This intercom is suitable for both flush mounting and surface mounting.

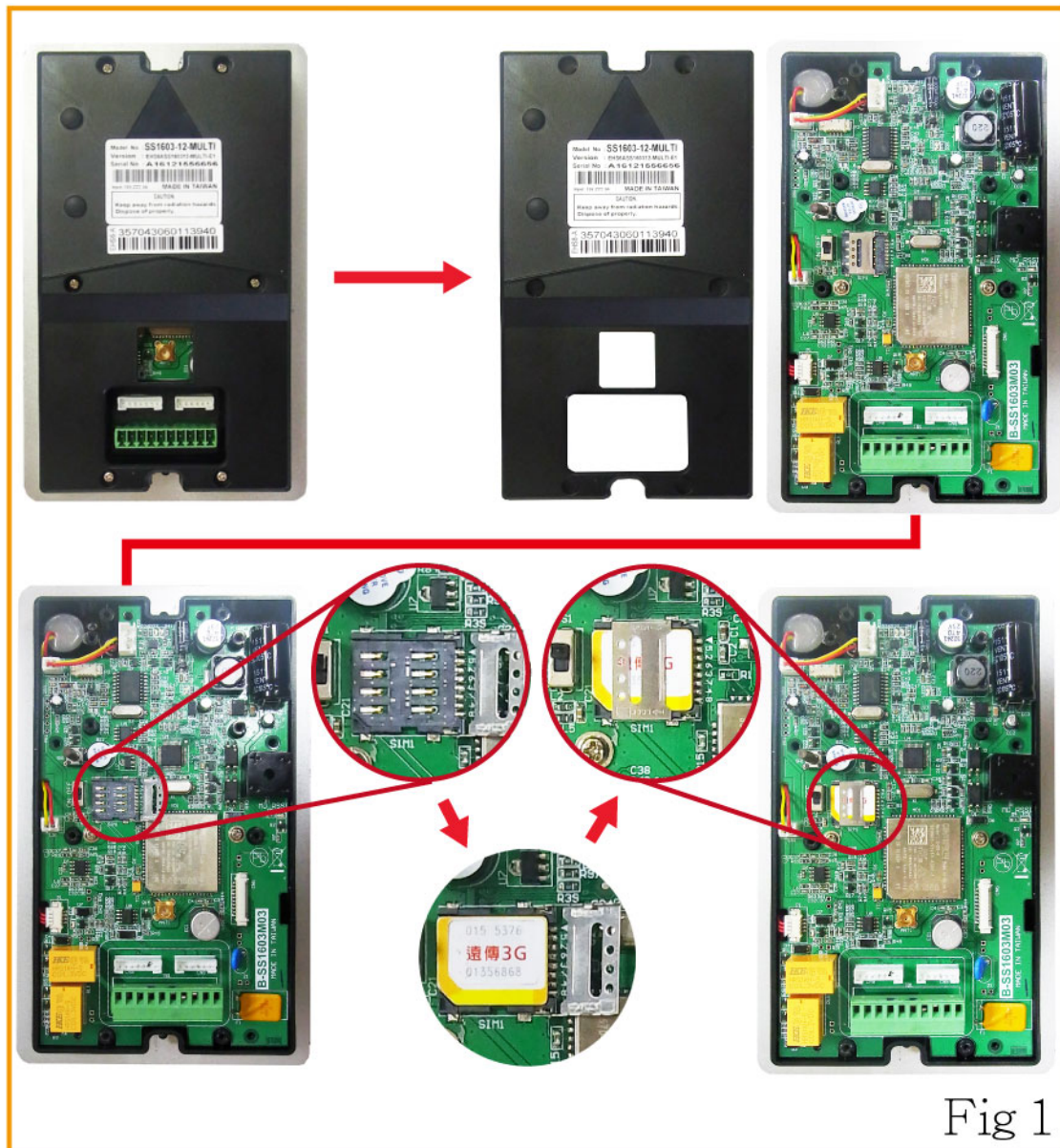


### **Front View**



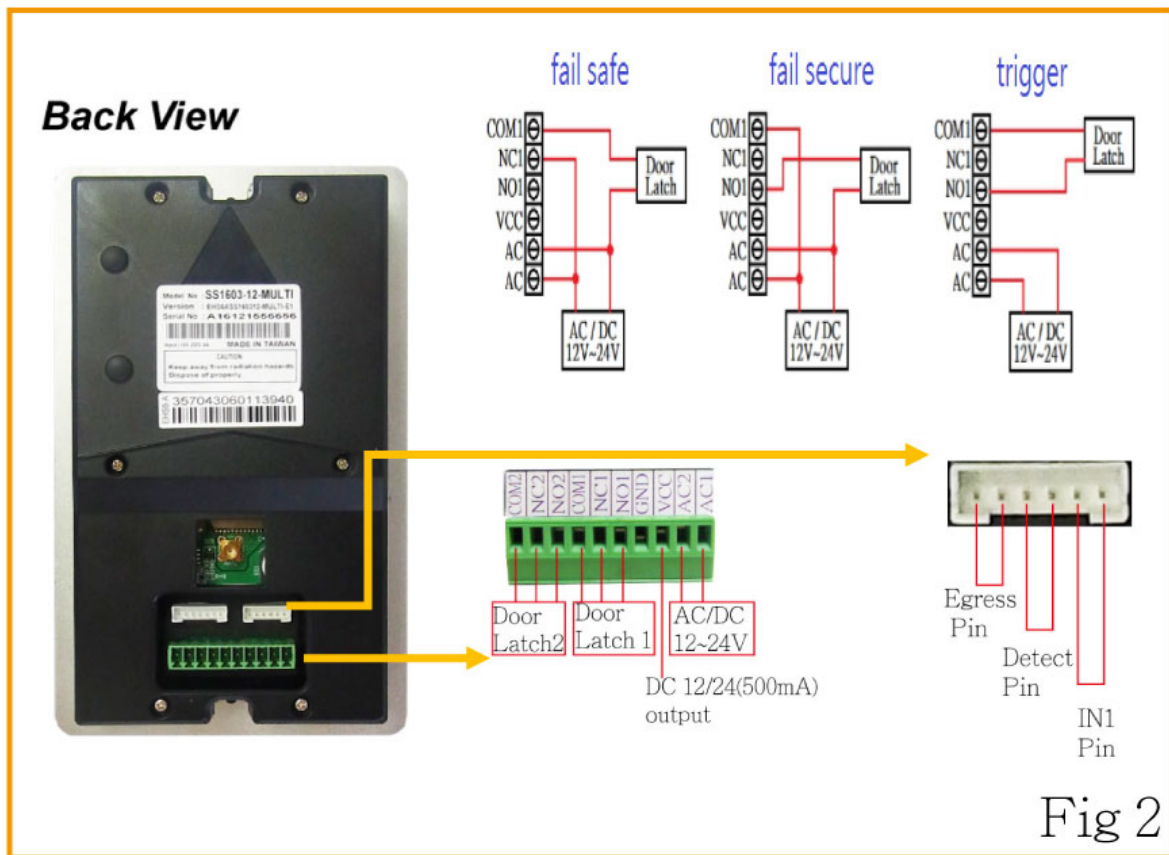
## 1. SIM card installation (Fig 1)

- 1.1 Disconnect the power from the intercom
- 1.2 Remove the rear plastic cover
- 1.3 Remove the SIM card cover from the bottom of the unit
- 1.4 Slide the SIM card holder towards the front of the unit
- 1.5 Lift up the holder
- 1.6 **Before inserting the SIM card, ensure that it is not PIN number locked. (If locked, use a mobile phone to unlock it).**
- 1.7 Insert the SIM card (Note orientation of notched corner)
- 1.8 Replace holder and slide towards the rear of the unit to lock in place
- 1.9 Replace rear plastic cover



## 2. Connecting with the door lock system (Fig 2)

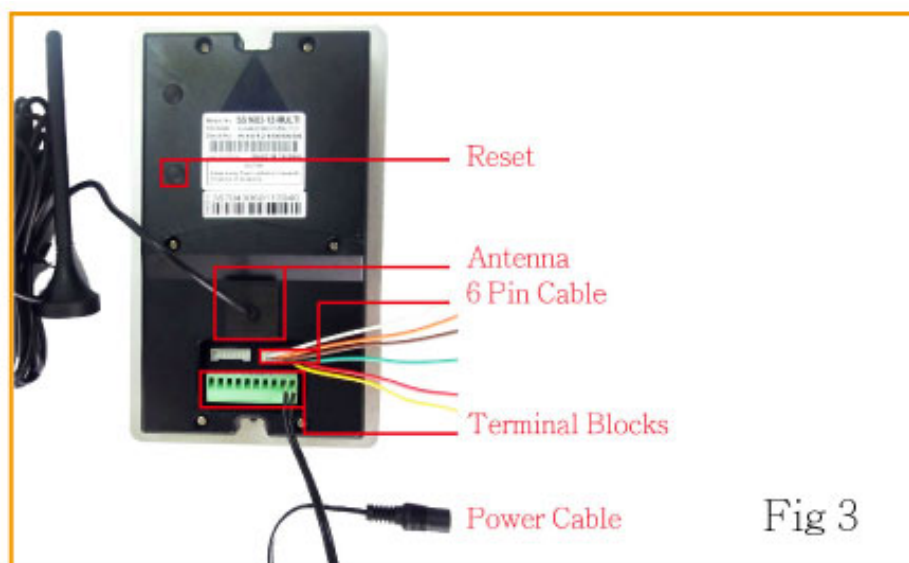
2.1 According your door lock type, see wiring diagram below.



## 3. Connecting the Antenna (Fig 3)

3.1 Plug in the antenna cord to the connector on the rear of the unit

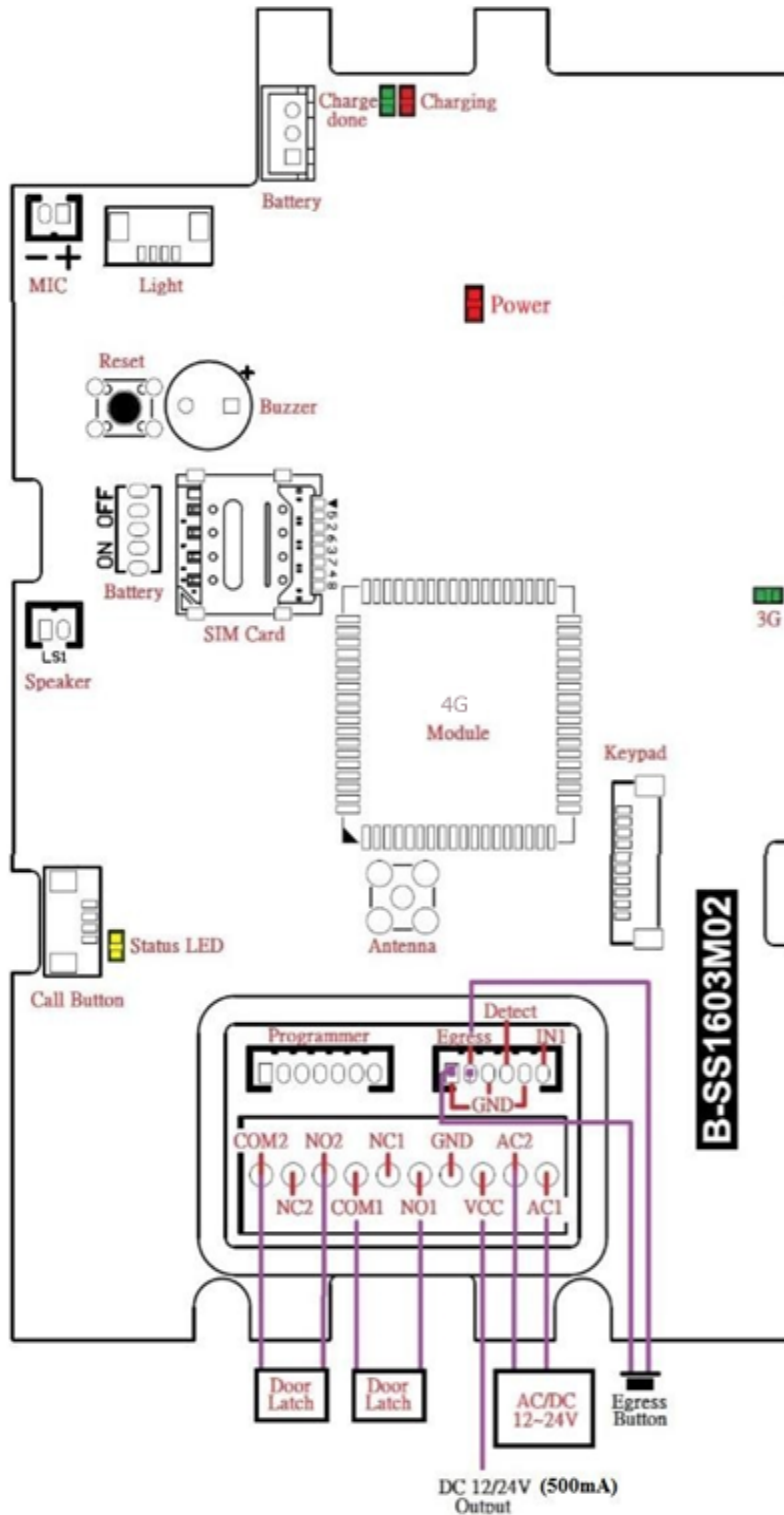
3.2 Place antenna away from electrical/electronic systems (computers, microwave ovens, etc.)



#### 4. Power on.

- 4.1 Connect the 12-24v power source to the connector marked AC
- 4.2 The blue indicator of call button should be on and you will hear Du Du tone.
- 4.3 Position the intercom where it will be installed.
- 4.4 When the Du Du tone has ceased, the device is ready.

### Wiring Diagram





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## Using the AN1808-01

### 1. Setting your call out numbers

1.1 Send the text SMS to the number of device.

1.2 The format of text SMS is

**\*12\*1234#11[call out number 1]#12[call out number 2]#13[call out number 3]#**

1.3 When the setting is finished, the sender will receive the reply as below.

**11[call out number 1]#12[call out number 2]#13[call out number 3]#OK**

1.4 If you press the call button of device, it will call the numbers in sequence.

### 2. Setting your dial in numbers ( Guest list )

2.1 Send the text SMS to the number of device.

2.2 The format of text SMS is

**\*12\*1234#71[country code]#72[relay][call in number 1]# 72[relay][call in number 2]#...**

2.3 When the setting is finished, the sender will receive the reply as below.

**71[country code]#72[relay][call in number 1]# 72[relay][call in number 2]#...OK**

2.4 If a guest calls the number of the device, it will trigger the relay to control the door latch.

2.5 If the number is not on the guest list, the device will answer and sound a beep. Then the administrator can enter the programming mode by password.

### 3. App on iOS and Android

3.1 Please search **4G intercom** on Apple store or Google Play

3.2 The App can help you to program the device more easily.

3.3 You can use the App to unlock the door via calling or SMS.

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## **Enter System Menu**

1. Please call the number of the intercom.
2. The device will answer and sound one beep to enter system menu.
3. Enter the password of the mode you would like to enter.
  - 3.1 Listener monitoring mode. 【\*13\*1212 #】
  - 3.2 Access control mode 【\*33\*5678 #】
  - 3.3 Program setting mode 【\*12\* 1234 #】
4. Password correct one is beep, password error is 3 beeps.
5. The device will hand up after 3 failed attempts.

### **Enter Listener Monitoring Mode**

1. You will hear a “Do” tone to enter listener monitoring mode by pressing 【\*13\*1212 #】 where 1212 is the monitoring password.
2. Then you can hear the live sound of the device’s surrounding environment.
  - \* Under this mode speaker is OFF. (35 # : **To turn on speaker**)
  - \* You can still control the relay output under listener monitoring mode but speaker must be ON status.

### **Enter Access Control Mode**

1. You will hear a “Do” tone to enter access control mode by pressing 【\*33\*5678 #】 where 5678 is the access control password.
2. The door will be opened after enter the correct password
  - \*(To open the door by password, if the number is not stored in the access control section)

### **Enter Program setting Mode**

1. You will hear a “Do” tone to enter into program setting mode by pressing 【\*12\* 1234 #】 where 1234 is the setting password.
2. You are now in the “program setting mode”

**Note: At the end of each command there can be one of the two indications:  
Successful: a long “beep” tone, failed: three short “beep” tone.**
3. To make changes on settings please refer to the command codes in page 12.
4. To end program setting mode just hang up.

#### **NOTE:**

**\*To be successful in programming, originate a call from a land line and enter the digits slowly or using programming by text message.**

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## Programming by text message

Programming by text message is the simplest way to customize the settings of the intercom and add or delete telephone numbers. Simply send texts in the format to the telephone number of the SIM within the intercom.

### **Note:**

1. A Single SMS text messages is limited to 140 characters.
2. You can program many different user command codes in one text message with SMS command format. **\*12\*1234 # [command Code1] # [command Code 2] # [command Code3] #...**
3. Each SMS must start with the pass code, default 1234 in the following format **\*12\*1234 #** followed immediately by a command.
4. To program call button numbers DO NOT enter country code, just the complete number as you would dial it.

### **Example:**

Store a call button phone number (Max 3 numbers) and delete 2&3 phone numbers.

058 57235 (landline number 1)  
086 5682554 (mobile number 2)  
086 2235644 (mobile number 3)

<p><b>Command to use: *12*1234#1[Y][phone number]#</b> Y= number 1, 2 or 3</p>
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SMS format: (store a call button phone numbers)

\*12\*1234#**1**105857235#**12**0865682554#**13**0862235644#

SMS format: (delete 2&3 phone numbers from a call button)

\*12\*1234#**12**\*#**13**\*#

### **User command code CORRECT**

SMS format:

\*12\*1234#**1**105857235#**12**0865682554#**13**0862235644#

SMS reply:

**1**105857235#**12**0865682554#**13**0862235644# OK

### **User command code ERROR (user command **19** error)**

SMS format: \*12\*1234#**1**105857235#**19**0865682554#130862235644#

SMS reply: 110587235#190865682554# Error

## Command Codes

You can program many different command codes in one text message with SMS command format.

\*12\*1234 # [command Code 1] # [command Code 2] # [command Code 3] #.....

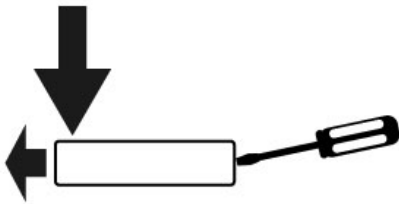
No.	Feature	Command	Description	Default
1	Change setting Password	01 [ password ] #	password:4 digit codes	1234
2	Change access control password	02 [ password ] #	password:4 digit codes	5678
3	Change monitoring password	03 [ password] #	password:4 digit codes	1212
4	Store or delete call out phone numbers	1 [ Y ] [ phone number ] #	Y= phone number 1,2 or 3 Phone number= 3~20 digits (One * can be delay 3 seconds)	None
		1 [ Y ] * #	Delete phone number1, 2, 3	
5	Speaker Volume	3 [ speaker volume] #	speaker volume level= 0 ~ 4	3
6	Microphone Volume	4 [ microphone volume] #	microphone volume level= 0 ~ 4	3
7	Relay 1 Trigger Time	51 [ relay1 time ] #	Relay 1 time= 1~9999 sec	1
8	Relay 2 Trigger Time	50 [ relay 2 time ] #	Relay 2 time= 1~9999 sec	1
9	Call Divert to next number time	52 [ call divert time ] #	Call divert time= 10~99 sec	20 sec
10	Max Call Time	53 [ max call time] #	Max call time= 005~999 sec	060 sec
11	Max Monitoring time	55[ duration time] #	duration time= 00 ~ 60 mins 00 ( no limit time)	10 mins
12	Call in to open the door numbers (Max: 1150 numbers) Guest List.	71 [ country code ] #	Country code= 1~3 digit codes	None
		72[relay] [ phone number ] #	Relay= 1 or 2	
		73 [phone number ] #	Delete phone number	
		73*#	Delete all phone numbers	
13	Add administrator phone number	74 [ admin number ] #	admin number= 3~15 digits ( no number no restriction)	None
14	Del administrator phone number	74*#	delete admin phone number	None
15	SMS reply notice of Relay status	894+X#	X=0 (disable SMS reply) X=1 (enable SMS reply)	0
16	Dial tone volume	898+X#	X=1~3 ( levels)	2

17	Set Egress Pin output relay	900[X]#	X=0 (relay 1) X=1 ( relay2)	0																
18	Set Detect pin output relay (Detect Pin is egress mode)	901[X]#	X=0 (relay 1) X=1 ( realy2)	1																
19	Detect pin on PCB setup	902[ X]#	X=0~3 0:disable 1:egress mode (901) 2:trigger 3. resistance=10KΩ(7.5K~13K)	0																
20	Emitting bleep when correct PIN code entered	903+X#	X=0 (disable) X=1 (enable)	1																
20	Intercom moving Detection (Theft Proof)	904[X]#	X=0 (disable) X=1 (enable)	0																
21	Set Alert phone number (moving & trigger)	905[ Y ][ phone number ] #	Y= phone number 1,2 or 3 Phone number=3~15 digits	None																
22	<b>Intercom LED light</b> <b>(optional LED board installed)</b>	906[X]#	X=0 (disable) X=1 (enable)	0																
23	Enable or disable IN1	907[X]#	X=0 (disable) X=1 (enable)	0																
24	Change the length of open code	940[X]#	X=1 (1 code open code) X=2 (2 codes open code)	1																
25	Change open codes of relay 1&2 including trigger / hold / release for independent apartment	93[X]*[ABCDEF]#	X= apartment number A,B,C,D,E,F= 0~9 and * A= trigger relay 1 B= hold relay 1 C= release relay 1 D= trigger relay 2 E= hold relay 2 F= release relay 2	<table border="1"> <tr> <td>1</td> <td>2</td> </tr> <tr> <td>code</td> <td>code</td> </tr> <tr> <td>1</td> <td>10</td> </tr> <tr> <td>2</td> <td>20</td> </tr> <tr> <td>3</td> <td>30</td> </tr> <tr> <td>4</td> <td>40</td> </tr> <tr> <td>5</td> <td>50</td> </tr> <tr> <td>6</td> <td>60</td> </tr> </table>	1	2	code	code	1	10	2	20	3	30	4	40	5	50	6	60
1	2																			
code	code																			
1	10																			
2	20																			
3	30																			
4	40																			
5	50																			
6	60																			
26	Send SMS message (when Detect Pin is triggered)	*26*[ password ] #[content]	Password=setting password content= up to 100 characters	Detect PIN Trigger																
27	Send SMS message (when Intercom is moved)	*27*[ password ]#[content]	Password=setting password content= up to 100 characters	Case open																
28	Send SMS message (when external power is off ) (works for inside battery)	*28*[ password ]#[content]	Password=setting password content= up to 100 characters	Power loss																
29	Send SMS message (when external power is active) (works for inside battery)	*29*[ password ]#[content]	Password=setting password content= up to 100 characters	Power active																

30	Send SMS message (when IN1 is triggered)	*30*[ password ]#[content]	Password=setting password content= up to 100 characters	IN1 trigger
31	Reset	999#	reset default	None

### **How to change the name plate**

1.



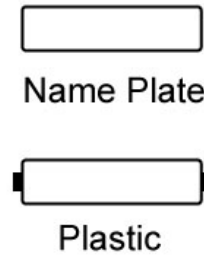
Push the left edge and move to left. Insert the screw driver in the right edge. Turn and push the plastic upwards

2.



Take off the plastic.

3.



Change the name plate.

4.



Then insert the left sdge into sideling.

5.



Push the right edge and move to right

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## **Hardware reset (if you forget the password)**

1. Keep both reset and egress buttons pressed
2. Release all buttons after you hearing continuous “Dou” tones
3. The device will restart and hardware reset is done

## **Troubleshooting (Q &A)**

### **Q. The unit keeps beeping.**

A. This means the unit is not able to detect the network for some reason.

-Check the SIM card is activated and has calling credit.

-Power off the unit, remove the SIM and check it in a mobile phone to verify it can make a call.

-Check if the PIN code of SIM disable when put in a phone.

-Check the signal strength to ensure there is good reception.

-Check the antenna has been mounted as high as possible, not near large metal objects, or wet green shrubs etc.

### **Q. The unit calls the first number, but there is not enough time to answer before it diverts to the next number.**

A. Increase the no answer time as per programming instructions.

### **Q. The unit calls the first number but voicemail comes on before it can ring the second number.**

A. Decrease the no answer time as per programming instructions.

### **Q. The caller ID part does not work.**

A. Be sure to program the caller ID part under 72 feature. If your number is a private or number withheld, then it will not work.

Even if you have already programmed a number to receive a call from the intercom, if you also want that number to have caller ID access, it must be programmed under the 72 feature also.

Ensure the number is entered as you would normally dial it from another phone.

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**Q. There is no audio from the gate, but the person at the gate can hear ok.**

A. This can be due to low reception.

-Check reception level by \*20#.

-Change SIM card if necessary, to another network which may have better coverage.

**Q. The audio quality that can be heard on the remote telephone is poor or humming (buzzing).**

A. A small amount of GSM buzz can be considered normal on 4G audio intercoms, but not so much that causes inability to hear the person speaking. This can be caused by the GSM antenna being mounted too close to the speech panel or not mounted high enough.

-Try earthing the speech panel chassis to 0V of the power supply.

-This is also a symptom of poor reception. Try above steps on checking and improving reception.

**Q. The 1 or 2 key does not work when the intercom calls a phone.**

A. Check if you can hear the relay clicking at the gate when the 1 or 2 key is pressed during a call. If it can be heard, then the system is working, check wiring between the relay and the lock or gate panel. If the relays do not make a clicking sound, then check this feature on a different mobile cell phone or landline. If it works on a different phone, check the settings on the phone in question under DTMF tones. Failure of DTMF tones to operate correctly is also a symptom of low reception. Check steps above on improving reception. Try pressing the buttons longer when attempting to activate the gates or door.

**Specification:**

Model	AN1808-01 4G Audio Intercom
Frequencies	700/850/900/1700/1800/2100/2300/2600 MHz
Face plate	180 (H) x 109 (W) mm
Surface back box	189 (H) x 118 (W) x 65(D) mm
Length of antenna tail	3 metre cable
Power requirement	12~24V AC/ DC
Design and material	Vandal resistant / die cast aluminum
Humidity	Less than 80% RH
Operating Temperature	-20°C to 50°C
Operating Current	Maximum 250 mA, Typically 55mA

E.&O.E.

[www.grantsautomation.com.au](http://www.grantsautomation.com.au)