# DO NOT GIVE TO HOME OWNER FOR PROFESSIONAL USE ONLY



4G Multicom LITE GSM/Cellular Intercom System



Note: For legal reasons, telephone technical support is for registered and qualified product installers only. Home owners and end-users should contact their installer for product technical support.

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### Really Important things you Need to Know ..



Please read this entire manual before installing this product.



To be installed by certified and qualified personnel / gate automation dealer only. Not for DIY install!





Ensure there is good network signal at the gate/door of the install site **BEFORE** installing this product. (2G/3G/4G Europe, 3G/4G Australia & USA)

Set up on a bench in workshop **BEFORE** going to site. Program the unit in the comfort of your work bench and call technical support should you have questions.



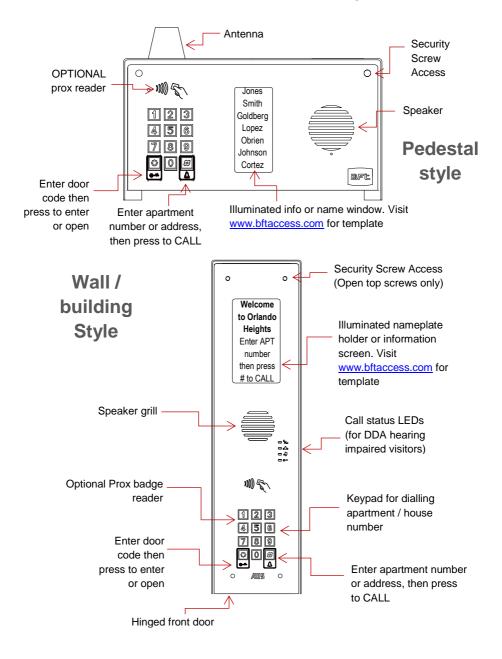
This product requires a SIM. The SIM should be a voice and text plan. Do not use a DATA only SIM. Ensure your SIM has VOLTE if you only have 4G service (HD Voice calling service is enabled).



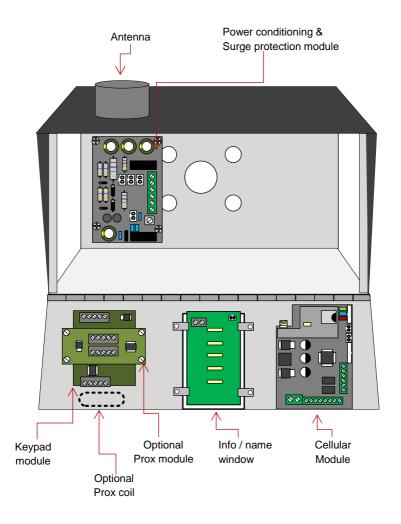
Manufacturer warranty does NOT cover lighting / storm damage. In lightning prone areas, you MUST fit external surge protection and lightning rod in order to maintain warranty on this product. Evidence of surge protection will be requested

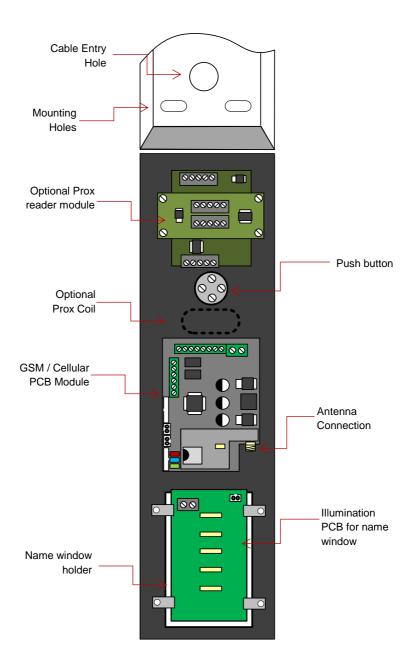
on generation of RGA numbers.

### Now lets have a look around the product...

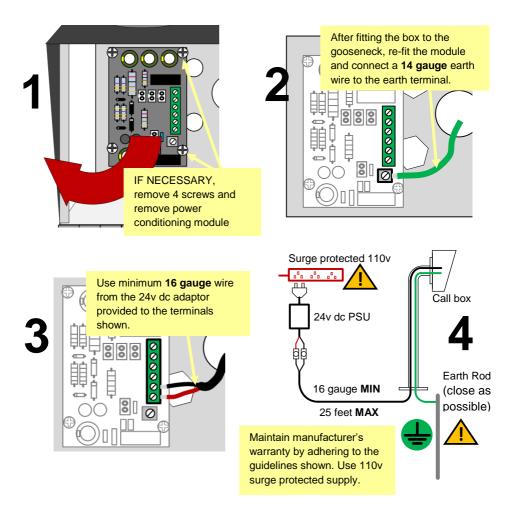


### Overview of Inside...

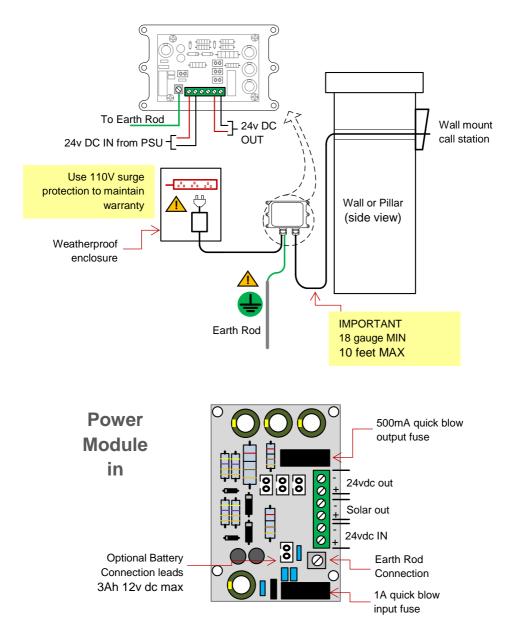




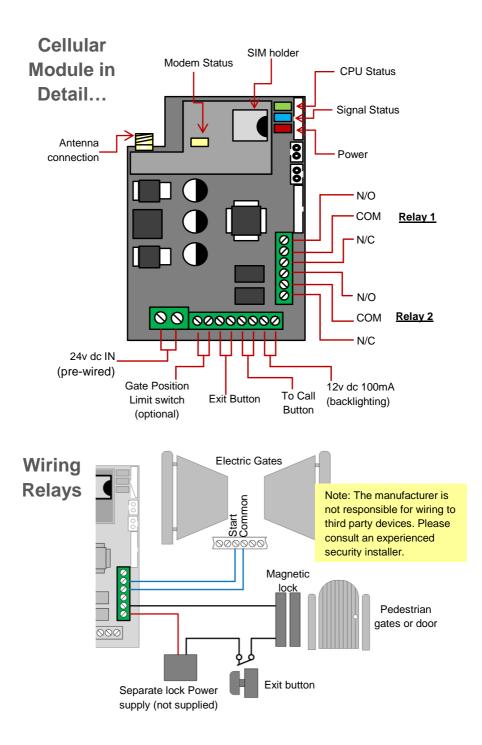
### **Pedestal Installation**

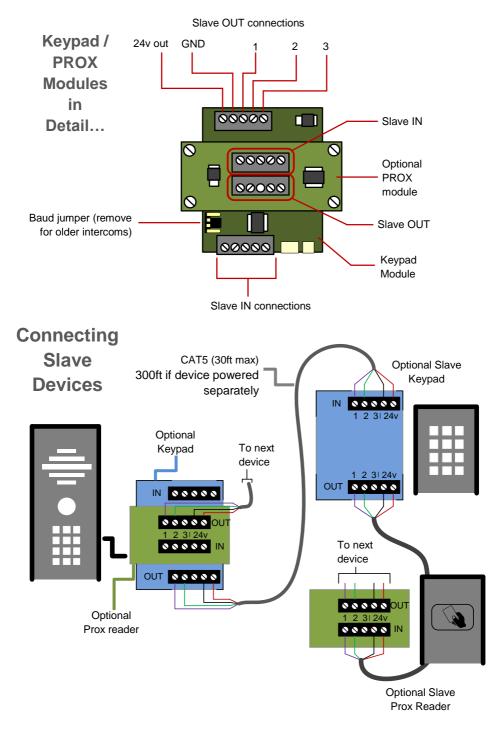


### **Wall Mount Installation**

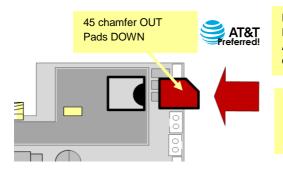


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### Inserting the SIM card



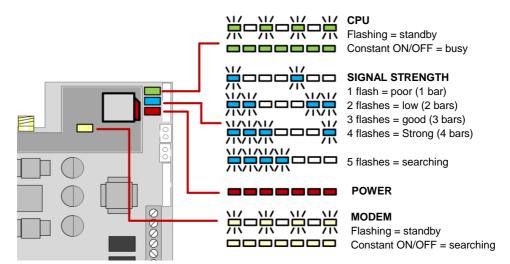
### Ensure SIM is activated. Pre-pay SIM will need credit first. At&T preferred. T-Mobile also compatible in certain areas.

### WARNING

Ensure power is OFF. Do not hot insert or remove while power on.

### Powering Up & LEDs

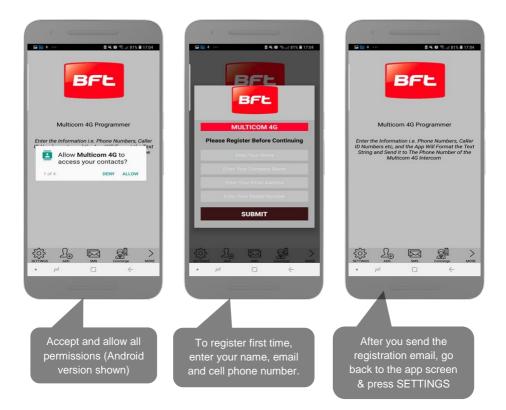
Perform a final check of wiring and ensure the antenna is connected before switching on the power. Once the power is switched on, the power LED should illuminate.

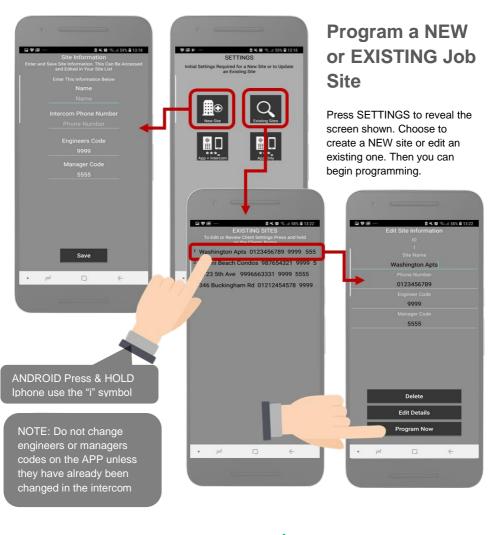


### Installing the Programmer APP for the first time

Download the smartphone app to program this unit. Search for BFT MULTICOM 4G and look for the icon below...



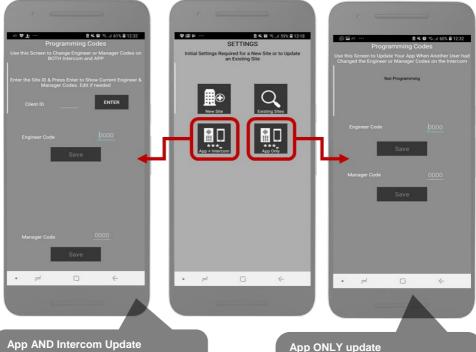






### Now you are ready to begin programming!

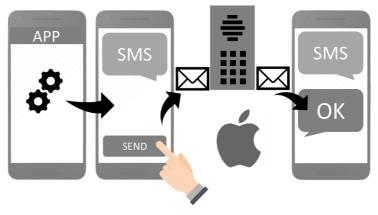
### Select or Create a new Job Site



Use to change either the manager or engineer programming codes on BOTH the intercom and the APP.

Use to update the APP, typically when another user has changed the programming codes on the intercom from another phone.

Note: This app sends SMS programming strings to the intercom as shown and it should reply with OK message. On iphones, due to restrictions by Apple, you must confirm the SMS as shown. Android devices will auto send the SMS in the background.



### Programming

Now that you have either entered a new client, or selected an existing client from the client list, you are now ready to begin programming.



### **Step 1: Check Reception**

Go to MORE>INFORMATION to reveal the screen shown. Press the reception check button. On Android the app will automatically send a SMS string (\*20#) to the intercom. On iphone, users will be taken to their SMS screen to

### confirm before sending the string.

The intercom should reply with a signal level between 1 & 31.

T 1-12	13-20	21-31
Poor	Medium	Good

For good performance, signal level should be at least 13 or better on 3G or 4G and 14 or better on 2G.

**TIP:** If signal is lower than recommended, then take IMMEDIATE action. Change network if possible, or use an optional high gain antenna. Check power cable is within recommended specification. (Poor power cable can lower reception).



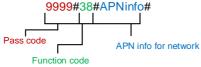
SMS message sent to intercom.

SMS reply to your phone.

### Step 1B:Set APN (for VOLTE / 4G voice calling)

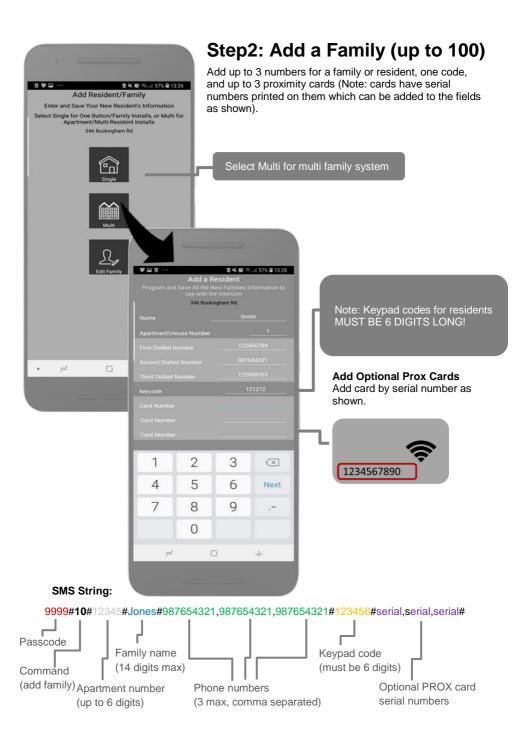
This feature may need to be set in order to make 4G voice calls with At&T or one of the At&T resellers. Check the APN of your provider and then enter it in the blue section below and send as SMS to the intercom. For At&T cards from the store, you can use "nxtgenphone".

If you are using a Tracfone provided SIM, then set the APN to "RESELLER".



### Step 1C:Reboot the Intercom

The intercom will need to be rebooted in order to log on to the network with the new APN which you have stored. If you send another reception check (\*20#), you may find that if it was on 3G signal strength before, that it is now on 4G signal.



▼ ¶ @ … Edit The De	ଛ ଝ ଛ ୍କ esident Informa	•	Step2b: Edit famil Details if needed
		ation	Edit just the name, phone numbe prox cards or pin code individual
No	ot Programming		any family with the following butto
FA	AMILY NAME	-8	
	DE FOR KEYPAD	_	
대 및 전 ···· · · · · · · · · · · · · · · ·	LLED NUMBERS	_	
946 Buckingham Rd	PROX CARD	_	
Apartment\House Number23			
Family Name Goldman			
	G	÷	
		SMS String	-
Save			a <b>mily Name</b> partmentnumber <b>#newname#</b>
• = □ +			d first Phone Number partmentnumber#phonenumber#
			d second Phone Number partmentnumber#phonenumber#
Edit or add family Prox Card 1 9999#16#apartmentnumber#serialnum	ıber#		d third Phone Number partmentnumber#phonenumber#
Edit or add family Prox Card 2 9999#16#apartmentnumber#serialnum	ıber#		d Family Door Code
Edit or add family Prox Card 3		0000m 1 <b>0</b> #c	

# 5#apartmentnumber#doorcode#

Step2b: Edit family **Details if needed** Edit just the name, phone numbers, prox cards or pin code individually for any family with the following buttons ..

Delete a Family & all details 9999#25#apartmentnumber#

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9999#16#apartmentnumber#serialnumber#





### Step3: Activate Auto Sync

If you are using time sensitive features, such as time restricted access control, or auto opening and closing of gates at pre-set times of the day and week, then it is important to activate the auto sync.

This intercom reads the current date and time from an incoming SMS message and re-calibrates its time from that.

Activating this button sends the intercom its OWN SIM card phone number. The intercom will then send ITSELF an SMS after a power loss to re-establish correct time.

Use this feature to have the intercom send itself a SMS on a schedule. This is useful to maintain proper time for summer daylight saving for example. NOTE: Network charges may apply for SMS messages. Check with your provider.

### SMS Strings

Store Intercom OWN phone number for time sync after reboot 9999#54#SIMphonenumber#

### Activate Scheduled SMS

9999#55#days# (00=no SMS, 01=daily, 02=every 2 days etc)

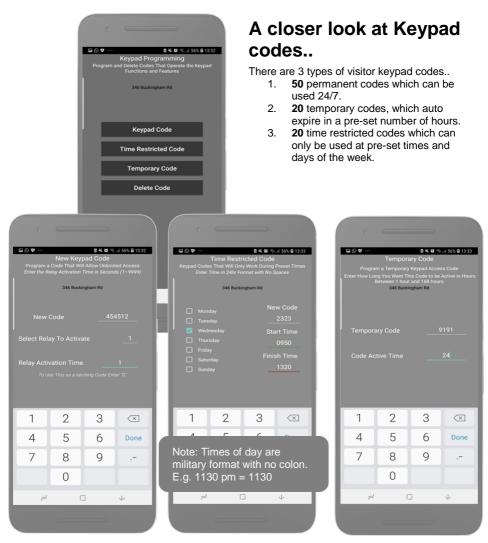
### Step4: Add visitor access

You can add visitor keypad codes, or visitor caller ID access, and proximity cards for any visitors who are non-residents.

CallerID (enter by calling intercom and CLIP caller recognition)

Proximity card access for visitors

Keypad code access for visitors



### **SMS Strings**

### Store permanent code

9999#81#code#time# (code can be 4 digits, time = relay time in secs from 1-99. 0 = latch code)

#### Store temporary code

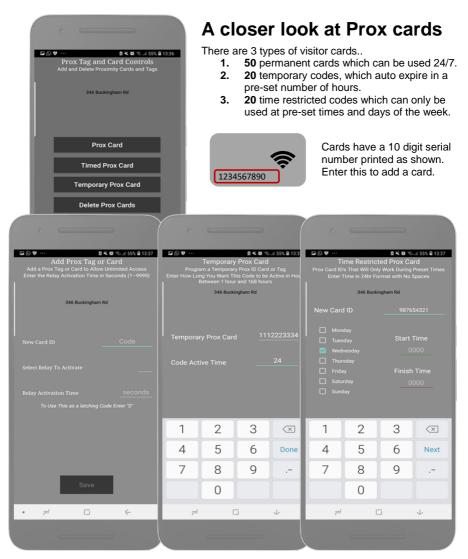
9999#82#hours#code# (hours = number of hours a code is active for, from 1 – 999 hours)

#### Store time restricted code

9999#83#day,day,day#time1,time2# code# (day=mon,tue,wed,thu,fri etc. Time1=start time, Time2= end time. Code = 4 digit keypad code)

### **Delete Code**

9999#84#code# (delete a known code) or 9999#84#\*# (delete all stored codes)



### **SMS Strings**

#### Store permanent code

9999#61#code#time# (code can be 4 digits, time = relay time in secs from 1-99. 0 = latch code)

#### Store temporary code

9999#62#hours#code# (hours = number of hours a code is active for, from 1 – 999 hours)

#### Store time restricted code

9999#63#day,day,day#time1,time2# code# (day=mon,tue,wed,thu,fri etc. Time1=start time, Time2= end time. Code = 4 digit keypad code)

#### **Delete Code**

9999#64#code# (delete a known code) or 9999#64#\*# (delete all stored codes)



### SMS Strings

### Store permanent callerID phone numbers

9999#71#Y#phonenumber#time# (Y=1 or 2 for relay 1 or 2. Time = seconds relay is activated)

#### Store temporary phone number

9999#72#hours#phonenumber# (hours = 1-999 hours then this number is auto deleted again)

### Store time restricted phone number

9999#73#day,day,day,day,time1,time2# phonenumber# (day=mon,tue,wed,thu,fri etc. Time1=start time, Time2= end time)

#### **Delete Phone nunmber**

9999#74#code# (delete a known code) or 9999#74#\*# (delete all stored visitor numbers)



# 

### **Do Not Disturb**

On this screen you can prevent residents receiving calls from visitors after a set time at night. This can be useful if there are antisocial callers or residents do not want disturbed at weekends.

Enter time in 24hr format, no colon. Eg 8.20am = 0820. 11.40pm = 2340.

Visitors can receive calls BETWEEN the START and FINISH times only on the days selected.

### SMS Strings

Enter Concierge / help or assistance number 9999#56#phonenumber#

Delete Concierge / help or assistance number 9999#56#\*#

Set ringing time to call number 9999#57#XX# (XX = seconds, default = 20)

### **Access Control**

If residents are to be able to use callerID to open the gate or door, then enable here. Take care, as residents can miss-dial the intercom in error!

Enable if residents should be able to latch or hold open gates or door. This is not recommended on larger installs as frequently a gate can be latched in error and result in a service call.

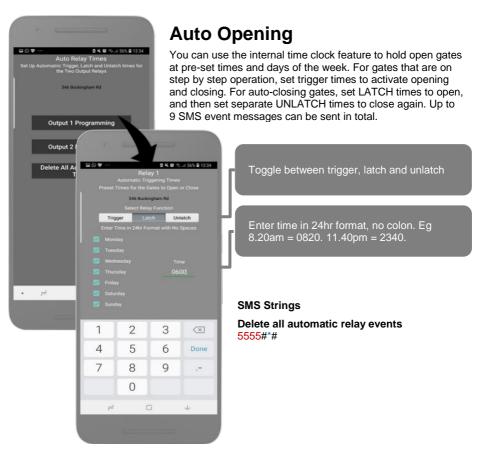
Quick delete a resident and all details.

### SMS Strings

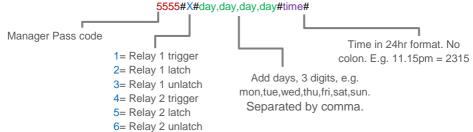
Enable callerID for residents 9999#35#X# (X=0 to disable. X=1 to enable)

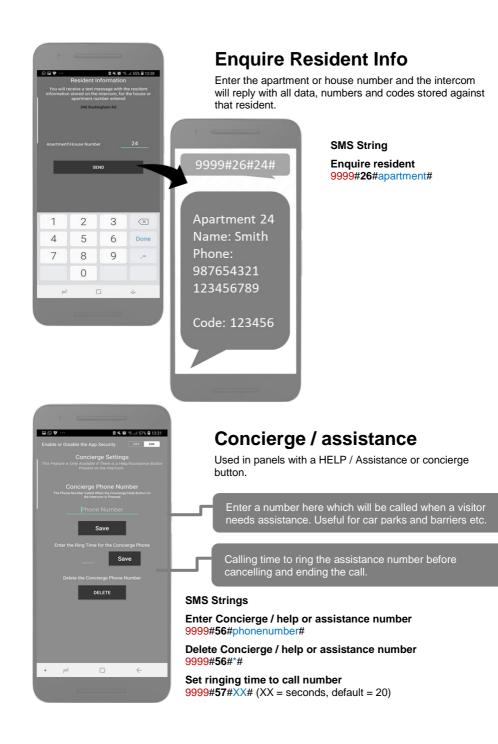
Enable latching ability on received calls by residents 9999#36#X# (X=0 to disable. X=1 to enable)

Quick Delete a resident to prevent access 9999#25#apartment#

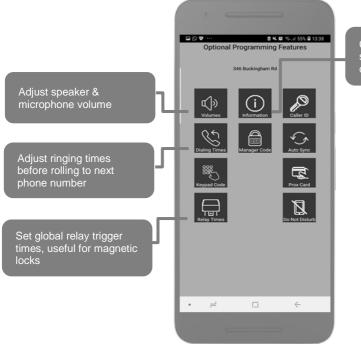


#### Add Auto opening / closing times





### **More Settings Screen**



Check status of relays, signal strength, stored codes and much more.



### Volumes

If residents experience significant echo, reduce the microphone and speaker levels as low as possible. Default setting = 5. Range = 1-9.

### SMS Strings

**Set Speaker Volume** 9999#**30**#X# (X = 1-9, default = 5)

**Set Microphone Volume** 9999#31#X# (X = 1-9, default = 5)

**Set ring tone Volume (not used yet)** 9999#32#XX (X = 1-9, default = 5)



### **Dialling Times**

Use these to adjust the ringing time the intercom will call a number before it will stop and call the next. This is useful to avoid voicemail from picking up a call.

Default dialling time is 20 seconds (from button press)

### SMS Strings

Set first ringing time 9999#21#XX# (Default = 20. Range = 1-99)

Set second ringing time 9999#22#XX# (Default = 20. Range = 1-99)

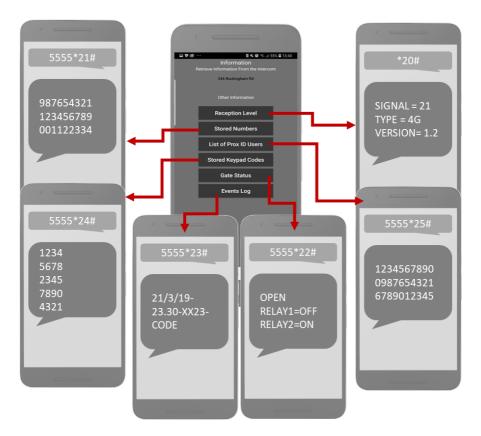
Set third ringing time 9999#23#XX# (Default = 20. Range = 1-99)

### **Relay Times**

Adjust relay times to suit perhaps a magnetic lock that requires a 7-10 second unlock time to allow pedestrians time to press the door and open.

Default relay time is 1 second.

### **Information Screen**



This screen allows the engineer or manager to be able to check multiple things on the intercom. Please note the following points..

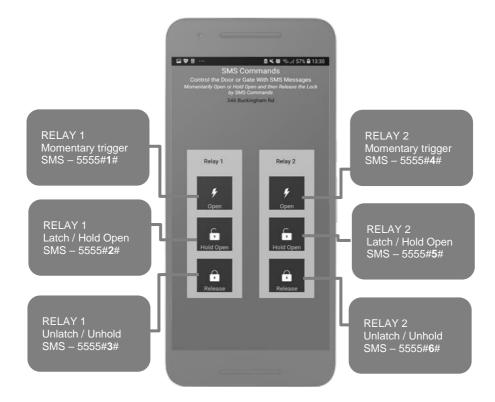
-5555 is the default managers code shown.

-Stored callerID numbers, keypad codes and prox users are VISITOR credentials only. These do not list RESIDENT credentials. To do that, enquire on each resident individually in the appropriate screen.

In the activity log screen, each event is stored under a code. For example if a visitor uses caller ID to open the gate, it will be shown as date – time – number – CID. If a keypad code is used, it will be shown on the next line as date – time – pin number – CODE.

### Manager Controls of Gate / Door

This screen allows the installer or manager to manually trigger the gate.



The table below show the complete list of features. *Programming messages below must begin with 9999# (assuming 9999 is still the programming passcode)...* 

Edit a family name 9999#11#12345#Jones#

#### Edit or add family number

9999#12#12345#number# (edit first dialled number) 9999#13#12345#number# (edit second dialled number) 9999#14#12345#number# (edit third dialled number)

#### Edit a family door code

9999#15#12345#code#

#### Edit or add a family card

9999#16#12345#serial# 9999#17#12345#serial# 9999#18#12345#serial#

Set ringing time to call first number 9999#21#XX#

Set ringing time to call second number 9999#22#XX#

Set ringing time to call third number 9999#23#XX#

Delete a family and all details 9999#25#12345#

#### Enquire details on a family

9999#26#12345# (This will reply with all the details stored about this apartment).

#### Set Speaker Volume 9999#30#X# (X=1-9)

Set Mic Volume 9999#31#X# (X=1-9)

#### Enable / Disable caller ID for residents 9999#35#1# (1=ON, 0=OFF. Default=0)

Enable / Disable latching ability by residents 9999#36#1# (1=Enabled, 0=Disabled. Default=0)

#### Change Engineers programming code 9999#40#XXXX# (Default 9999)

Change managers user code 9999#41#XXXX# (Default 5555)

Change Relay 1 trigger time 9999#50#XXXX# Change relay 2 trigger time

#### 9999#51#XXXX#

### Store intercom own phone number for AUTO self SMS sending on reboot. 9999#54#XXXXXXXXXX#

Activate auto SMS sending (to re-calibrate time every day)

9999#55#XX# (0=off, 1=SMS every day, 2=SMS every 2 days etc)

### Store phone number for manager / concierge / assistance call button to call when pressed 9999#56#XXXXXXXXX#

### Delete manager phone number 9999#56#\*#

Store ringing time for manager / concierge / assistance phone number 9999#57#XX#

#### SMS control messages

Either engineer or of manager can control the relays by SMS but users cannot. 9999#1# - Trigger relay 1 9999#2# - Latch relay 1 9999#3# - unlatch relay 1 9999#4# - Trigger relay 2 9999#5# - Latch relay 2 9999#6# - Unlatch relay 2 Same commands can be carried out with 5555 passcode.

### To store a visitor code (50 max)

9999#81#1#code#time# (time=relay trigger time, 1-99 seconds)

#### To store a temporary visitor code (20 max):

9999#82#hours#code# (hours is number of hours code is active for, max 999 hours)

#### To store a time restricted visitor code (20 max):

9999#83#day,day,day,day,day,day,day#time1,time2#code#

#### To delete a visitor code:

9999#84#code#

### To delete all visitor codes:

9999#84#\*#

### To store visitor caller ID number (50 max)

9999#71#Y#telephone# (Y=1 for relay 1, 2 for relay 2)

#### To store visitor temporary called ID number (20 max)

9999#72#hours# telephone # (hours is qty of hours the caller ID number can work for 999 max)

### To store a visitor time restricted caller ID number (20 max) 9999#73#day,day,day,day,day#time1,time2#telephone#

### **To delete a visitor caller ID number:** 9999#74#number#

### To delete all visitor caller ID numbers:

9999#74#\*#

#### To store prox card (50 max)

9999#61#Y#serial# (v = 1 or 2 for relav 1 or 2)

#### To store temporary visitor Prox card (20 max)

9999#62#hours#serial# (hours can be up to 999 max)

#### To store time restricted prox card (20 max)

9999#63#day,day,day,day,day#time1,time2#serial#

#### To delete a prox card: 9999#64#serial#

To delete All prox card: 9999#64#\*#

#### SMS Checking messages

\*20# (check reception, version and date etc) 5555\*21# (Check stored visitor caller ID numbers only. Do not check stored family numbers). 5555\*22# (Check gate status) 5555\*23# (shows last 20 events) 5555\*24# (Check stored visitor keypad codes) 5555\*25# (Check stored visitor prox cards)

To Add an automatic relav event

5555#1#day.day.day#time#

To delete all auto relav events.. 5555#\*#

To set Do Not Disturb Times 9999#90#dav.dav.dav#time1.time2#

#### Enter optional out of hours number (after times set above, all calls will divert to this number instead: 9999#91#telephone#

To delete this number again 9999#91#\*#

Complete restore defaults on unit 9999#99#

### **Troubleshooting guide**

### Q. The unit will not power up. No LEDs on.

A. Check power supply voltage at intercom is 23.4v DC or more. Cable length from PSU to intercom should be less than 25 feet and in 14 gauge for longer distances. See guide. Check the fuse.

### Q. The unit powers up but is not showing network reception or will not respond to SMS.

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

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

-Disable any PIN code request if active on the SIM card.

-Check the SIM is a standard voice capable SIM. If you are unsure, contact your SIM card provider to verify. Compatible networks are At&T and T-Mobile.

-Check the reception is medium or good. Poor reception is not sufficient.

-Power off, remove the SIM, use fine sand paper to lightly sand the SIM pads and contacts on the GSM unit, lightly bend the contacts upwards so that they make better contact with the SIM and try again.

# 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. Residents have Caller ID disabled by default. Ensure this is activated if you want residents to use caller ID. If your number is a private or number withheld, then it will not work.

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

-For US customers, ensure the numbers have been entered with a leading 1. If this does not work, try again without the leading 1.

### 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 or excessively long power cables.

-Check reception level by \*20#.

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

-Purchase a high gain antenna.

This may also be caused by a defective microphone, water on a microphone from a sprinkler for example, or dirt/insects blocking the microphone hole. If reception is optimum and the problem persists, contact your supplier or installer.

# 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 GSM intercoms, but not so much that causes inability to hear the person speaking. This is a symptom of poor reception. Try above steps on checking and improving reception. Consider fitting an external high gain antenna. Move

the antenna further away. Remove any short bends in the antenna. Ensure the spare antenna cable is not rolled up inside the call station.

### Q. The trigger keys do not work when the intercom calls a phone.

A. Check if you can hear the relay clicking at the gate when the keys are 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 or insufficient power cabling. Check steps above on improving reception or addressing the power problem. -Also check that the relays are not already latched with the \*22# command. If they are latched, they need unlatched before the trigger keys will work.

-Sometimes excessively long power cables or thin power cables can cause this problem. Prove it by connecting a temporary extension lead and the power supply directly to the unit.

### Q. The system was operating the gates fine, but now it will not trigger the gates.

99% of the time, this is cause by the user accidentally latching the relay. This latches the output relay permanently on. Send the intercom the following SMS \*22#. The intercom should reply with a message detailing the relay status.. If it has been latched, then the message will state "the relay is ON". In this case refer to the user guide to read how to unlatch it again.

### Q. The unit no longer calls out to phones but I can make a call to it from my phone.

A - Check there is balance on the SIM card.

A – Switch off the power, remove the SIM, put it into a phone, and check that a call can be made from a phone. This will verify if the SIM is still working and in service.

## Q. The Android App shows an error message "Command Failed" when I try to use a function.

A – Go to phone settings/application manager/cellbox prime/permissions, and ensure all permissions are turned ON. Also ensure the app settings screen has a valid phone number stored.

### **Change History**

Key:

P = Panel version H = Hardware PCB version S = Software version

Version		n	Reason for change	Date
Р	Н	S		
1	1	2.6		

### Warranty Terms

Please note, by installing this product, you are accepting the following warranty terms:

1. The manufacturer's warranty is a "return to base" 2 year warranty from date of manufacture. This means that any suspected defective components or items are returned to the manufacturer's agent for investigation and diagnosis, and returned at the cost of the customer.

2. The warranty does not cover, nor is the manufacturer or agent responsible for any of the following whatsoever: Storm damage, lightning or surge damage, flooding, accidental damage, vandalism or deliberate damage, un-explained corrosion or unusually harsh environments, failure of telephone networks, future uninteroperability between the product and network providers which cause mal-function due to changes implemented by the phone providers after manufacture of the product, or that which is outside of control of the manufacturer (e.g. 2G, 3G switch off, removal or inability to obtain VOLTE service), and damage due to not proper installation.

3. The manufacture in no way accepts liability for any of the following incurred due to a product defect: Cost of attending site, inconveniences, labour rates, time lost, loss to or damage to property, security breaches, late payment clauses or breaches of any contracts between the installer and the client.

4. This is a profession install product only. The product is a component of an overall system. Therefore, it is the responsibility of the installer to certify the safety and compliance of the overall finished system. As soon as this product is fixed to another item, or connected to another third-party device, then the product has been modified, and compliance with local regulations in the country of install is strictly the responsibility of the installer.

5. Re-stocking fees may apply to items returned that are found to be non-defective. Complete units will also attract a re-stocking fee if returned for credit, regardless if a defect is discovered or not. Re-stocking fees may vary depending on the condition of the item being returned, and whether it can be determined as in brand new condition. The warranty terms do not entitle customers to an automatic full refund. For more details on returns procedures and re-stocking fees, contact the agent.

6. Items with physical signs of surge damage are not covered by warranty. Items without visible signs of surge damage will only be covered by warranty provided photographic evidence is provided from site showing surge protection has been installed as per instructions in this manual.



FCC ID: 2ALPX-PE-4GA Main Model No: PRIME6-PROX-IMPK-PE-4GA

Caution: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



Note: For legal reasons, telephone technical support is for registered and qualified product dealers only. Home owners and end users should contact their local dealer for product technical support.