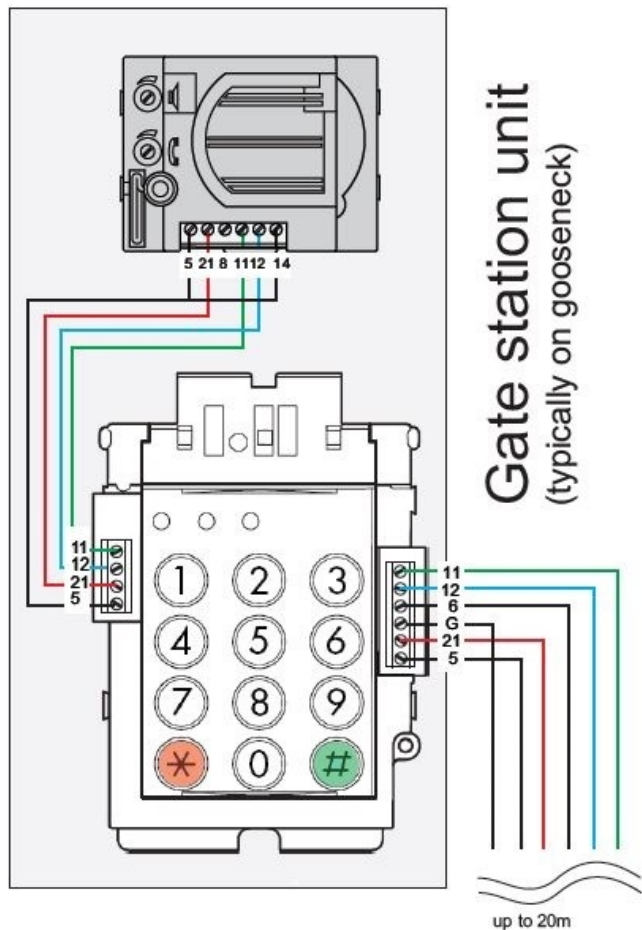# GSM/i1OK GSM INTERCOM

NEW INSTRUCTIONS

Installation Manual

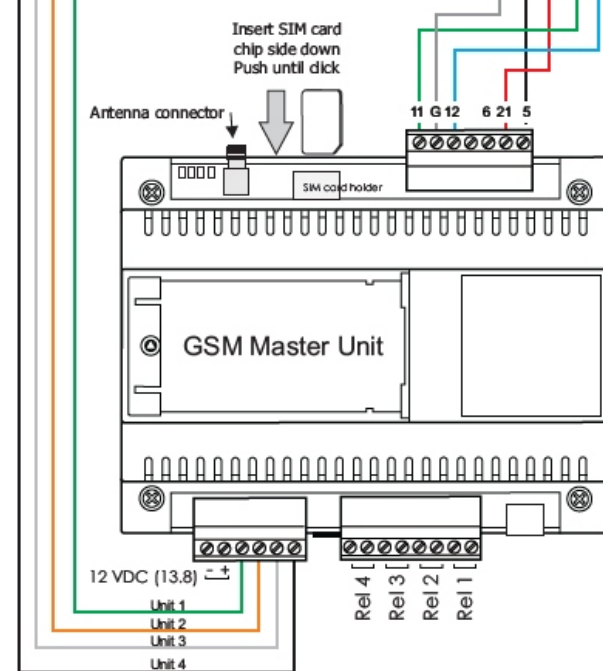# GSM INTERCOM
Keypad

GSM INTERCOM
4 Button

Gate station unit (typically on gooseneck)

5 21 8 1112 14

11
12
21
5

11
12
6
G
21
5

up to 20m

Insert SIM card
chip side down
Push until click

Antenna connector

11 G 12   6 21 5   screened

GSM Master Unit

12 VDC (13.8)   +A A A A   Rel 4 Rel 3 Rel 2 Rel 1   USB Connector

Gate station unit (typically on gooseneck)

5 21 8 1112 5

join at audio module side (recommended)

Dial No. 4
Dial No. 3
Dial No. 2
12V
Dial No. 1

up to 20m

Insert SIM card
chip side down
Push until click

Antenna connector

11 G 12   6 21 5

GSM Master Unit

12 VDC (13.8)   +   Rel 4 Rel 3 Rel 2 Rel 1
Unit 1
Unit 2
Unit 3
Unit 4

GSM INTERCOM
Two gate stations

GSM/i10K

bpt

A

B

5 21 8 11 12 14

5 21 8 11 12 14

NB!!!

11
12
21
5

11
12
6
G
21
5

11
12
21
5

11
12
6
G
21
5

up to 20m

Rel 1
Rel 2
Rel 3
Rel 4

12 VDC (13.8)

11 G 12 7 6 21 5

MicroSIM

Slide and open hinge

Antenna connector

USB Connector
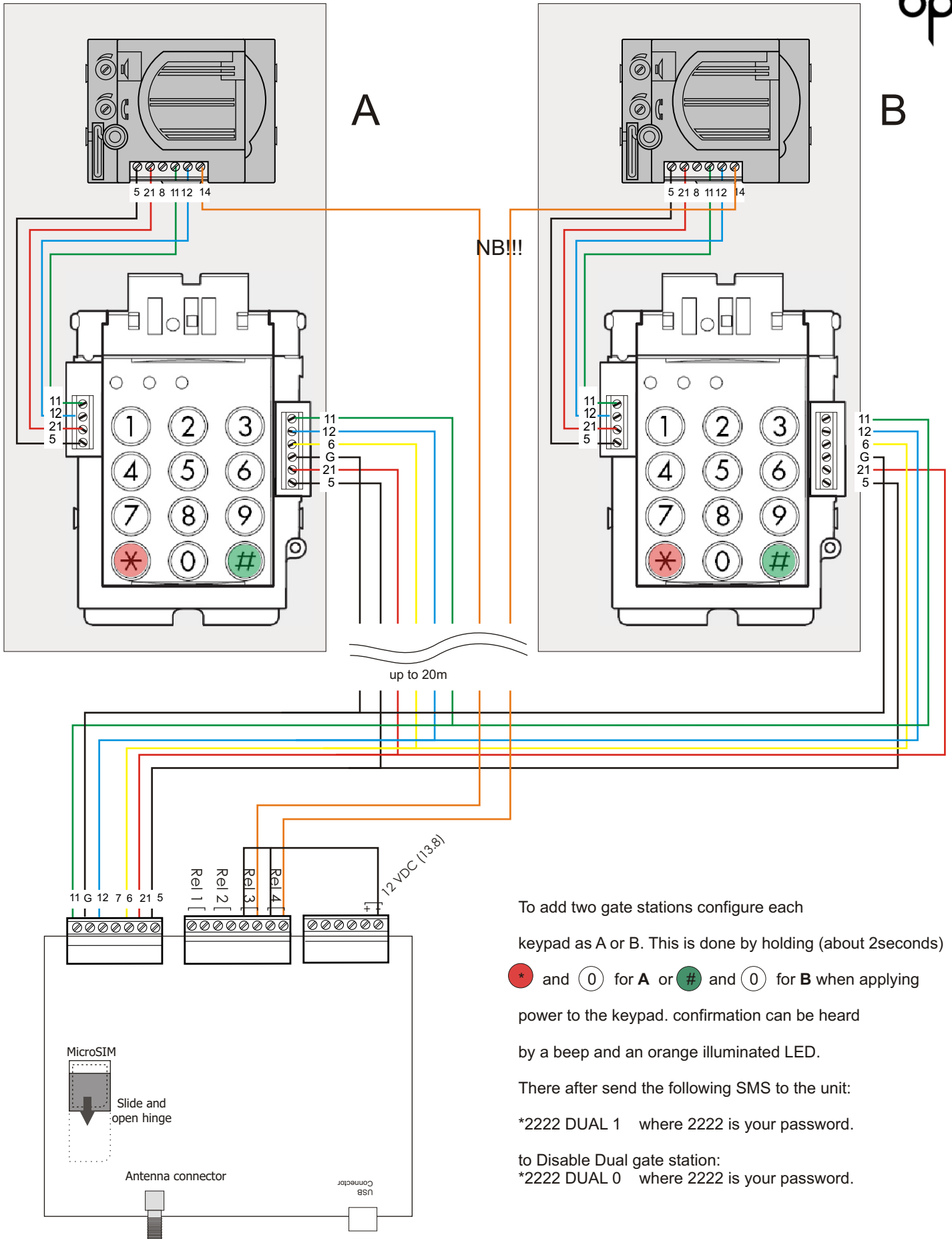
To add two gate stations configure each

keypad as A or B. This is done by holding (about 2seconds)

 * and 0 for **A** or # and 0   for **B** when applying

power to the keypad. confirmation can be heard
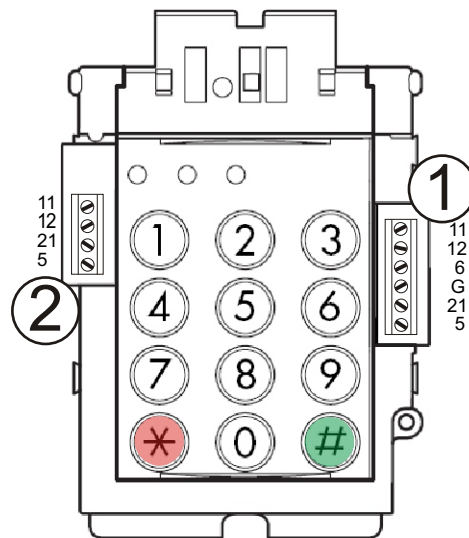
by a beep and an orange illuminated LED.

There after send the following SMS to the unit:

*2222 DUAL 1   where 2222 is your password.

to Disable Dual gate station:
*2222 DUAL 0   where 2222 is your password.

NOTE: All relays are normally open contacts

M000042   Page 3

bpt

Access control

The gatestation with access control module is now equipped with the ability to trigger the relays on the GSM master board by entering in a password on the keypad. This is useful in the case where entry and exit maybe be provided to home owners and guests, in addition to the missed call feature of the intercom.

Programming access control

All passwords for access control are programmed via the keypad. Four passwords may be programmed to activate the respective four relays on the GSM master board.

1. To enter programming mode enter 1 2 3 4 5 and hold down the red * button
        (1 2 3 4 5 is the default master password).
2. A beep will be heard which signifies programming mode.
3. Press numbers 1 - 4 to program the password for relays 1 - 4
4. Press the red *
5. Enter the password (up to 8 numbers) and press the red*
6. An acknowledgment tone will be heard.

The unit has now exited from programming mode and the programmed password may be used by pressing the password followed by the green #.
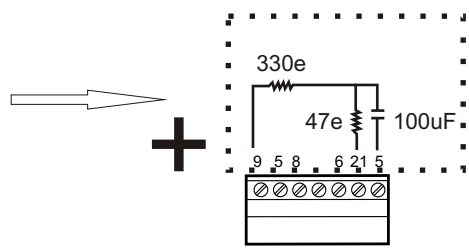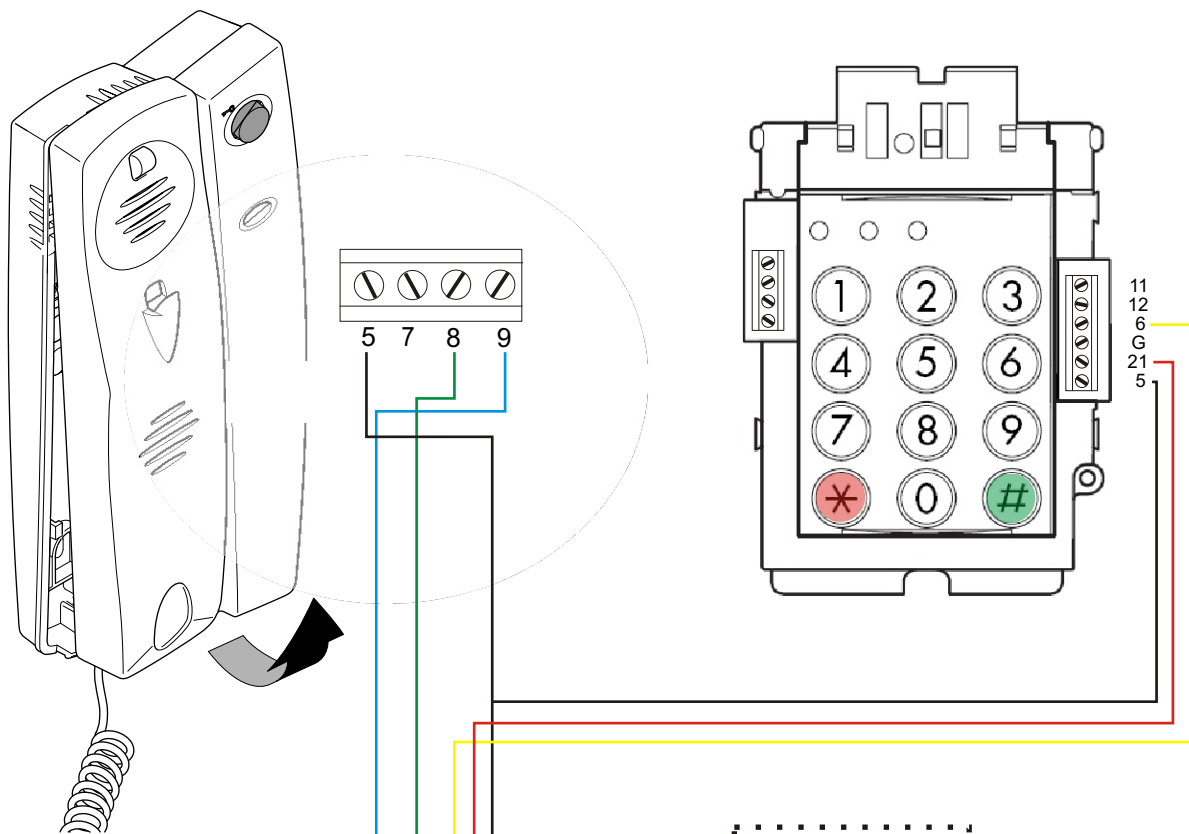
NOTES:
1. Password 1 is the also master password - changing this will change the programming password.
2. All numbers less than 4 characters are interpreted as a unit number, therefore choose a password of 5 numbers or more for access control.
3. If an incorrect password is entered 3 times the keypad will prevent any input for the following 20 seconds. Reactivation is indicated by a beep.
4. A single invalid tone indicates an unprogrammed unit number has been entered
5. A double invalid tone indicates an invalid access control password has been entered
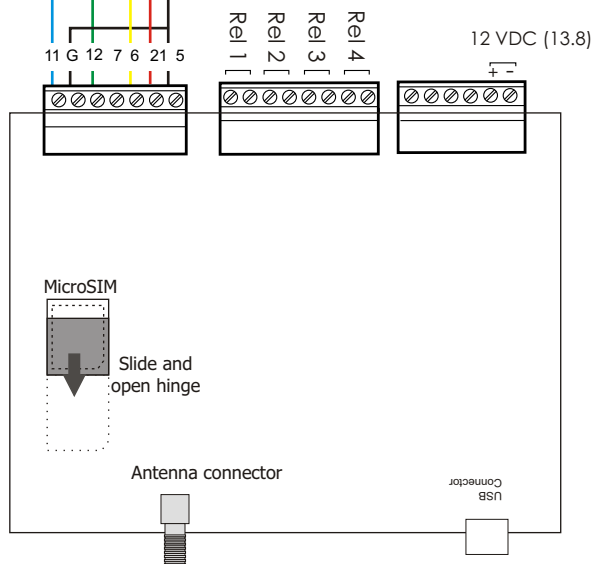
Resetting the master password:
1. Hold down the numbers 1 9 while applying power until a beep is heard.
2. Enter in the new password followed by the green # button
3. Power-cycle the unit

bpt

5 7 8 9

11
12
6
G
21
5

Connection unit
may be purchased
from supplier

330e

47e   100uF

9 5 8   6 21 5

+

11 G 12 7 6 21 5

Rel 1   Rel 2   Rel 3   Rel 4

12 VDC (13.8)

+ -

MicroSIM

Slide and
open hinge

Antenna connector

USB
Connector

Booting sequence

On power up all LEDs will be on. As the unit passes the various tests the LEDs will turn off.
Only when the green and blue LEDs are flashing slowly is the unit in the normal running state. "System ready" audio notification will be played through the gatestation.

Please note that if the unit is connected to a computer via the USB cable, none of the SMS or dialing capabilities will work.
Remove the USB cable after programming and the unit will proceed with the boot sequence.

Programming

The unit may be programmed via PC software through the USB port or via SMS.

The following are the structure of the SMSs for the various programming options. The default password is **2222** and must be changed. All messages start and end with a * (asterisk)

Change password from 2222 to 7788:   ***2222 PASS 7788**

Add airtime: ***2222 NETW XXXXXXXXXXX**
where XXXXXXXXXX is the recharge USSD Command and voucher pin
eg ***2222 NETW 12345678912345#**

Retrieve airtime available: ***2222 NETW *136#**   **(NB: No *asterisk at the end)**

Set automatic hang-up time to 60s: ***2222 HANG XX***
XX - hangup time seconds (25 seconds default)

Set the status number: ***2222 STAT 27821234123**

The status number will SMS'd on a weekly basis

Adding & Calling numbers (Keypad Version)

Each unit may have two numbers associated with it. By pressing the unit number and either the * or # dial buttons the associated number will be dialed. (# for number 1 and * for number 2)
The GSM intercom may have up to a 4 digit number (9999 max)

The unit will give and audible message acknowledging that the call is in progress. If an unprogrammed unit is dialed, an error message will be heard.

Should the caller wish to cancel the phone call at any stage they may press either of the dial buttons to hung up.

NB: all numbers added must contain the country code ie, 27821234123 and no +'s

***2222 ADDN AAAAAAAAA,BBBB,C,D**

AAAAAAAAA - telephone number eg 27821231234
BBBB - unit number 1-9999
C - user number 1,2
D - missed call permission (1- relay1, 2 relay2)

Examples
Add number 2 for unit 123 and allow missed call relay 1:   Add number 1 for unit 32 and allow missed call relay 2:

        ***2222 ADDN 27821234123,123,2,1**   ***2222 ADDN 27821234123,32,1,2**

Remove a number: ***2222 DELN 27821234123**
Clear telephone list: ***2222 CLRN**

Gate triggering

At any point during the conversation the home owner may key in on their keypad the number 1 or 2 or 3 or 4. This will activate one of the 4 relays at the unit respectively which will typically trigger the gate to be opened.

Missed-call activation

The GSM unit comes equipped with a missed call function. Only programmed numbers may activate this function. When the caller phones the number of the SIM card in the GSM intercom, the unit will proceed to hang up the called and activate relay 1 and no charge to the caller.

1. Download GSMi10000 software: https://gsmi10k.co.za./GSMi10config.EXE.

2. Launch GSMi10000 software and connect USB Cable (**Ensure that the PCB is powered via 12 DC**).

The purpose of these screenshots is to help with editing or creating of new units

3. Select COM Port by clicking below box (the COM port will appear automatically).

Select yes if the message pops up

4. Very important Always Read Settings from Unit (if the pop up message from previous step doesn't appear)

5 .Select the "Unit numbers" tab

6. Creating a unit: Enter a unit number between 1 9999 which represents a house or office and Click "Add to list" tab
   (See below example, adding unit 100).

7. Adding a telephone number belonging to the unit: (a) Click Add user, (b) Select user number between 1 - 3. (c) Enter a telephone number starting with country code and no +'s (eg, South Africa 27821231234), (d) click Add button.

NB: To add a second or third number in the same unit please select the relevant user number in step (b) of above example and follow step (c) and (d).

8. To create additional units, repeat same process starting from step 6 and do the same for all the units required.

PROGRAMMING - software

9. Click "upload settings to unit" button and wait for the "Upload complete" message as shown on the next page.

10. Unplug the USB cable after the below message and wait for the unit to reboot then you can start dialing from the entry panel.
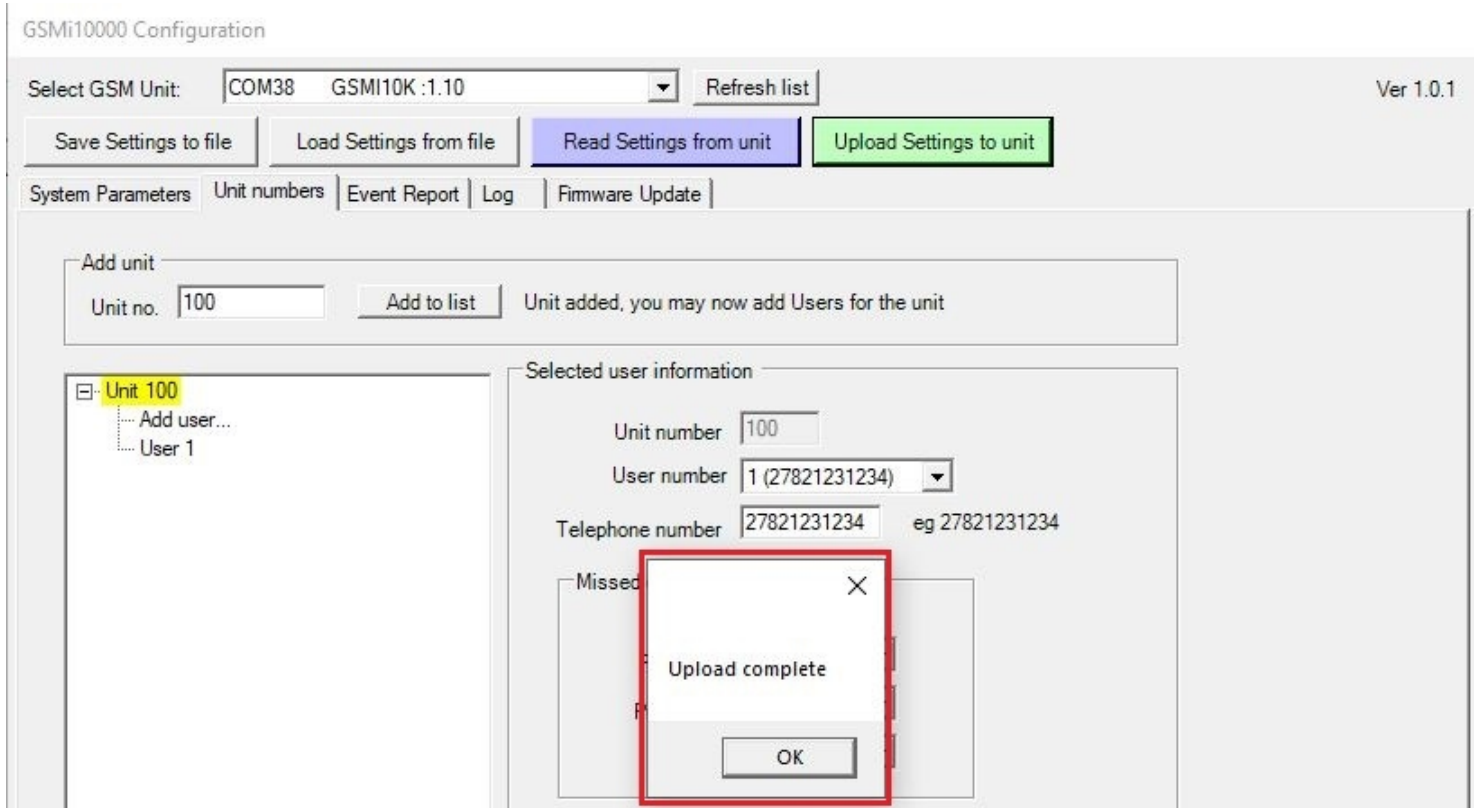
11. Dialing the units

The # button on the keypad will dial 1st number and * button will dial the second number, the system will divert to 3rd number if 1st & 2nd numbers don't answer. Always start with unit number followed by # or * button.

Example: To call the 1st number of unit 100, dial 100#
        To call the 2nd number of unit 100, dial 100*

SIM Network selection
The system works with all network service providers.

Very Important!
The missed call option is not automatically available with MTN Network, please contact the service provider to enable "LTE Voice Over" to access the feature.