

#### Quick-Start Guide

- 1. Un-programme the PIN number from the SIM card.
- Insert The SIM in the Gate Unit. Note the telephone number of the SIM. You will need this for programming the Gate Unit.
- 3. Wire up the gate unit to the Gate Controller, Intercom, Infrared receiver, Transformer and Gate Contacts (if required).
- 4. Connect up the transformer to the mains supply. Ensure the power light comes on, on the gate unit.
- 5. Give the Gate Unit about 2 minutes to register when first turned on. When the Signal Strength light is on constantly or flashing, the Gate Unit is ready for programming.
- 6. Programme the first Open Number into the Gate Unit.

Send t	his text.	Expect This TxT Response
*Ensure No Spaces		
in Tel Number	open 1 08????????	Open number 08?????? Programmed
<ul> <li>Further Open Num</li> <li>Record the number</li> </ul>	bers can be p rs programmed	programmed in the same fashion. I into the table given.
<ol> <li>Now call the Gat last step. The gate should activate the</li> <li>Now program the</li> </ol>	e Unit from unit should Gate Contro phone list,	the telephone number programmed in the close its pulse switch and this ller to open the gate. with the phone numbers that the Gate
Unit will dial once	the intercor	m button has been pressed.
Send this text.	Expect 1	'his 'l'x'l' Response
phone 1 01???????	Ph 01 Pr	one 1 ??????? ogrammed
*Remember to p cluding area or cou that number from ar	out the full intry codes, ny mobile pho.	telephone number into the device in- that you would have to use if calling ne.*
2 more numbers c Unit.	an be program	med into the phone list of the Gate
	/	2

**9** Now we can place a test call, from the intercom, to the first phone number we have programmed. Watch the lights on the Gate Unit during this sequence to see when the switches are operating.

- (a) Press the intercom button.
- (a) When the first phone number dialled rings, answer the phone. You will hear the gate calling.
- (a) Press **\*** 1 on the phone keypad. This will open the audio channel between the gate and the phone.
- (a) If you do not wish to open the gate for the caller, press the # button on the phone keypad. This will guarantee that no further numbers are dialled.
- (a) Pressing \* 2 will cause the Pulse Switch to close. When connected to the Gate Controller this will cause the gate to open.
- (a) Pressing \* 3 will cause the Pulse Switch to close followed by the Delay Switch opening. When connected to the Gate Controller this will cause the gate to open and then cause the gate to remain open as the Delay Switch will break the Infra Red beam just as if an obstacle was blocking the beam.
- (a) Pressing \* 4 will cause the Delay Switch to return to its normal position and when connected to the Gate Controller this will cause the gate to close.

10. Once this test functions properly, and you have completed all wiring to all devices you MUST close the openings on all cable glands entering the box of the Gate Unit.

11. If it is required to know whether the gate is open or closed then connect a set of contacts to the Gate Unit. Connect the switch of the contacts to IP/1 and IP/2 as shown on the wiring diagram.

### Index

Features
Introduction
Basic Installation Steps
Intercom Installation Steps
Installation of Gate Contact
Installation For Mobile Network
Advanced Installation Options
Options for Security Settings
User Commands
Fixing Problems

#### FEATURES

- Control security gates, using your mobile phone, as you drive towards them.
- □ Allow access to as many others, as required, by programming their phone number into the open phone list. There is no call charge for this type of call because the Gate Unit drops the call once it recognises the number.
- Answer the gate from any phone in the house. Excellent audio quality.
- □ Link your gate intercom to your house without wires.
- Control security gates when in work or away on business or holidays.
- Talk to someone calling at your gate when in work or away from home.
- □ Allow access to the gardener, Oil refill truck, plumber etc., when away from phone.
- Set the gate permanently open, if required by caller. Receive a warning if the gate is left open.
- □ Remotely determine whether the gate is open or closed.
- Receive a warning, if using pre-pay SIM card, that credit is running low.
- □ Simple to configure using SMS texts.
- □ Wire a standard access control keypad in parallel with the gate access controller. Or use an intercom with an integrated keypad.

#### INTRODUCTION

The Mobile Entry Gate Access Controller device (Gate Unit) allows for the remote control of a gate using a mobile phone. The only wires required for the Gate Unit are mains power lines. Once someone approaching the gate (whose mobile number has been programmed into the device) places a call to the device the device will cause the gates to open. A large number of phone numbers, that can have access through the gates, can be programmed into the device.

When an Intercom is fitted to the system the Gate Unit calls one of three phone numbers in sequence. The first number would most probably be the homeowner's house phone. Second and third numbers will likely be the owner's mobile numbers.

The Gate Unit contains two telephone lists as follows:

(a) Phone List.

This list is 3 telephone numbers. These are the numbers that the Gate Unit calls in sequence once the intercom button is pressed.

#### (b) **Open List.**

This list can have a very large number of numbers programmed. These are the numbers that can open the gate remotely by simply placing a call

The Gate Unit uses technology similar to that used in mobile phones. This is something to keep in mind when setting up the device. For instance programming a number into it will require that you enter the number as you would have to do, if calling that number from a mobile phone. Any area or country codes must be used.

#### Basic Installation Steps

#### 1. Un-programme the PIN number from the SIM card.

SIM Cards have a PIN that the phone user must enter when turning on their phone. This is stored in the SIM and must be removed for the Gate Unit to work. This is done by placing the SIM in any mobile phone and going to the 'Settings', then 'Security' menus. Then Turn Off the PIN Code request.

2. Insert the SIM in the Gate Unit. Note the telephone number of the SIM. You will need this for programming the Gate Unit.

3. Wire the Gate Unit to the Intercom and Transformer as shown on the top part of the wiring diagram. Later we will wire to the gate controller and the Infrared receiver.

4. Mount the antenna as high as possible for this installation.

5. Connect the Transformer 240V side to the mains. The Power Light should come on, on the Gate Unit.

6. Give the Gate Unit about 2 minutes to register when first turned on. When the Signal Strength light is on constantly or flashing the unit has registered on the network.

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#### Intercom Installation Steps

10. If you have reached this point, it is time to wire the Gate Unit to the Gate Controller (that operates the gates) and the Infrared receiver. . (See the wiring diagram.)

11. The Gate Unit uses the same technology as a mobile phone. When any mobile phone is near audio amplifiers, speakers or microphones then radiation from the mobile phone is picked up by the audio equipment.

- So when installing the system keep the Gate unit and its antenna as far away from the intercom as possible. Normally the gate unit will be on one side of a pillar with the intercom on the other, this is ideal.
- Also keep the antenna of the Gate Unit as far away from the Gate Unit as possible. Run the antenna up the wall of the pillar where the gate unit is mounted.

12. Now program the phone list, with the phone numbers that the Gate Unit will dial once the intercom button has been pressed.

Program the first number the unit will call when the intercom button is pressed.

Send this text.Expect This TxT Responsephone 1<br/>01???????Phone 1<br/>01???????

\*Remember to put the full telephone number into the device including area or country codes, that you would have to use if calling that number from any mobile phone. \*

Programmed

Program the Second number as follows: Expect This TxT Response Send this text. phone 2 Phone 2 08??????? 08??????? Programmed And Finally (if required) program the third number as follows: Send this text. Expect This TxT Response Phone 3 phone 3 08??????? 08??????? Programmed Record the numbers programmed into the table given at the end of this manual. □ Numbers programmed as phone numbers that the intercom will call are also automatically added to the open telephone list so that these numbers will automatically open the gate if they ring into the Gate Unit.

13 Now we can place a test call, from the intercom, to the first phone number we have programmed. Watch the lights on the Gate Unit during this sequence to see when the switches are operating. (a) Press the intercom button. (b) When the first phone number dialed rings, answer the phone. You will hear the gate calling. (c) Press \* 1 on the phone keypad. This will open the audio channel between the gate and the phone. (d) If you do not wish to open the gate for the caller, press the #button on the phone keypad. This will guarantee that no further numbers are dialed. (e) Pressing \* 2 will cause the Pulse Switch to close. When connected to the Gate Controller this will cause the gate to open. (f) Pressing \* 3 will cause the Pulse Switch to close followed by the Delay Switch opening. When connected to the Gate Controller this will cause the gate to open and then cause the gate to remain open as the Delay Switch will break the Infra Red beam just as if an obstacle was blocking the beam. (g) Pressing \* 4 will cause the Delay Switch to return to its normal position and when connected to the Gate Controller this will cause the gate to close. (h) Calling a gate left open by sending \* 3 will close the gate. 14 Once this test functions properly, and you have completed all wiring to all devices you MUST close the openings on all cable glands entering the box of the Gate Unit. This step ensures that the Gate Unit is waterproof and can withstand all environmental conditions. Even if you haven't connected a cable to a part of the system you must ensure that there is a cable running through the cable gland so that the Gate Unit is sealed when the gland is closed.

#### Audio Level.

Test the audio level between the intercom and a remote phone. The house phone may be the best one to test to. If the audio level is low at either end then this can be adjusted using the Speaker and microphone levels at the intercom. (adjustable by removing the front cover of the intercom itself.) Increasing the microphone level at the intercom will increase the audio level at the house phone. Increasing the speaker level at the intercom will increase the audio volume at the intercom. **Be careful however, as increasing these levels too much may cause a large echo at the house phone.** 

Gate Voice ON - Gate Voice OFF

Normal operation of the Gate Unit is for the person pressing the intercom button NOT to be able to hear phones ringing while he is waiting. This offers security against the caller hearing an answering machine and realising that the house is not occupied. This is good security. However if required this operation can be changed by sending the following text to the Gate Unit.

Send this text.

Receive This TxT Response

Gate voice ON

Gate voice ON

Now the caller will hear the complete sequence of calling telephones from the Gate Unit and the person answering the call from the intercom can have an immediate conversation with the caller

without having to press \* 1

Delay Switch - Delay Time

The Delay switch opens 20 seconds after the Pulse switch closes. The Delay switch breaks the infrared circuit and holds the gate

open 20 seconds after  $\star$  3 is pressed on the remote phone. If the position where the gates are held open needs to be changed then the time when the Delay Switch is opened needs to change. For example if you want the Gate to be held open later in its opening sequence you can change the Delay Time to 25 seconds as follows.

Send this text.

Receive This TxT Response

Delay Time 25

Delay time 25 Seconds	



#### Installation For Mobile Network

16. The Gate Unit can be used with bill pay or pre pay SIM cards.

For pre pay cards the ability for the user to get an indication when credit is falling low is useful and allows the user to add credit when required. Confident that he can keep the gate unit topped up with credit the user will be happy to use a pre pay SIM card.

The system is factory configured for a Vodafone SIM. To use a different network requires that you program a different Credit code.

					Set the	e Crec	dit (	Code	9		
For	example	to	set	the	credit	code	for	02	in	Ireland.	
~					_				_	_	

Send this text.

Receive This TxT Response

Credit Code \*100#

Credit Number set.

## There are different codes for different networks. This table gives a list of those that can be used.

Network	Ireland	UK
Vodafone	*174#	*#1345#
02	*100#	*#10#
Meteor	*#100#	
Orange(UK only)		Orange not currently giving credit. (Use a bill pay SIM)

#### Turn Off The Credit Warnings.

Should the User switch to a Bill-Pay SIM or if credit monitoring is no longer required, it can be turned off as follows.

Send this text.

Receive This TxT Response

Credit Alarm Off

Credit Alarm Off

<b>To Cl</b> Send this text.	<b>heck the Remaining Credit on a SIM.</b> Receive This TxT Response
Gate Credit	Credit = XX.XX
	12

#### Advanced Installation Options.

17. If required the Gate Unit can be programmed with a Control Phone. If programmed, this is the telephone number that Credit Low Warnings will be sent to. Also, if this number is programmed, the warning that "Your gate is open", if the gate is open for more than one hour, will be sent to this telephone number.

- $\hfill\square$  The telephone number for the Control Phone must be a mobile number.
- If a Control Phone is not set then the system simply picks the first mobile in the phone list to send these warning messages to. As the first mobile in the list is normally that of the homeowner most installations will not require a control phone number programmed.

	To Set a Control Phone.
Send this text.	Receive This TxT Response
Control Phone 08???????	Control Phone number 08??????? Programmed
То	Check the control phone programmed:
Send this text.	Receive This TxT Response
Send Control Phone	Control Phone: 08?????? OR Control Phone Not Set
<b>18.</b> If required in programmed in the	the future you may need to check phone numbers phone list or the open list.
<b>T</b> For example to che	<b>O Check Numbers in the Phone List.</b>
number in the list Send this text.	Receive This TxT Response
Send Phone 1	Phone 1: 08???????
	To Check numbers in the Open List.
For example to che	eck what number is programmed into the first open
Send this text.	Receive This TxT Response
Send open 1	Open 1: 08??????
<b>19.</b> If required in programmed in the	the future you may need to remove phone numbers phone list or the open list.
	13

<b>To Ren</b> For example to phone list or	nove Numbers o remove a n the open li	umber that i	e List or the s programmed	<b>Open list.</b> into either the
Send this tex	t.	Receive T	his TxT Respor	nse
Remove 08????????			Phone Removed OR Number not fo	und.
is in both be removed from the Ga	the Phone Li twice with t te Unit once	ist and the the command e for each o	Open List ther given above. I f these comman	• If a number n it will have to It is only removed nds sent.
20 It is poss	ible to rese	t the unit k	ack to factor	y settings.
*Warning: Pul. other factory Send this tex	se Time, Del settings wi t.	ay Time, Cre ll revert to Receive T	dit code, cre their factor	dit alarm and y settings. nse
Default			Restored to Factor	у
ENGINER *Warning: Thi from the Open *Warning: Thi send any othe pletes.	ER RESET - Ro s command wi and Phone 1 s command ca r commands t	emove all Ph ll clear all ists. In take up to o the Gate U	one Numbers f: programmed t 3 minutes to Unit until thi	rom the SIM. elephone numbers complete. Do not s command com-
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ENGINER *Warning: Thi. from the Open *Warning: Thi. send any othe. pletes. Send this tex Default SIM 21 If extra se sible to enab	ER RESET - Rest - Rest of and Phone 1 and Phone 1 s command ca r commands t t. Options ecurity is r le a require	emove all Ph ll clear all ists. In take up to the Gate U Receive T s for Secur required when	one Numbers f: one Numbers f: o 3 minutes to Init until thi his TxT Respon SIM Cleared	rom the SIM. elephone numbers complete. Do not s command com- nse s s te Unit it is pos when configuring
ENGINER *Warning: Thi. from the Open *Warning: Thi. send any other pletes. Send this tex Default SIM 21 If extra so sible to enable the unit. When the the Gate for this ten on to The security as follows:	CR RESET - Rest - Rest of and Phone 1 s command ca r commands t t. Options ecurity is r le a require security c Unit must h specific Ga he front of code is OFF by c	emove all Ph ll clear all ists. in take up to to the Gate U Receive T s for Secur required wher ment for a s code is on, be followed ate Unit. Th this manual. default when the o	settings. one Numbers f: programmed t 3 minutes to Unit until thi his TxT Respon SIM Cleared city Setting a using the Ga security code then all tex by the four-d e four-digit Gate Unit leaves the	rom the SIM. elephone numbers o complete. Do not s command com- nse s s te Unit it is pos when configuring t messages sent ligit security coo gate code is writ factory. It can be turned

	<b>Program a</b> Send thi	<b>n Open num</b> s text.	<b>per with sec</b> Expect This	<b>urity code</b> s TxT Respor	ON. Ise
Sec	urity Code	pen 8??????? # # #		Open number 08??????? Programmed	
	To Turn of:	f the Requi	rement for a	a Security (	Code.
	Send this	text.	Receive I	his TxT Res	ponse
	Security Code # # # #	OFF	Security C OFF	ode	
	Send Code Statu	s	Security Cod OR Security Cod	e ON e OFF	Ponec
	There are a num to operate the Gam word Gate.	<b>User</b> nber of con te Unit. Th	Commands. mands that - nese instruc	the user wi tions all s	ll need to us tart with the
Sen	<b>To Che</b> d this text. I	<b>ck the Rem</b> Receive Thi	aining Credi s TxT Respor	t on a SIM. nse	
	Gate Credit		Credit = XX.XX		
	d this text. H	<b>To Close</b> Receive Thi	e <b>an Open Ga</b> t s TxT Respor	t <b>e.</b> Nse	
Sen			Gate Status		
Sen	Gate Close	(	losed		
Sen Sen	Gate Close	To Open Receive Thi	a closed Gat s TxT Respor	t <b>e.</b> Ise	



#### If the Jumper J1 is fitted and contacts connected to IP/1 and IP/2. To Check whether the Gate is Open or Closed.

				01 01000	
Send tl	nis text.	First receive	this TxT Resp	ponse	
	Gate Status		Gate txt received		
Then				Receive	this Gate
status	Response.				
		Gate Status Closed OR Gate Status Open			

#### Fixing Problems.

**Q1.** I am sending a text messages to the Gate Unit but I'm not getting any response.

#### Check the following:

1. Is the PIN removed from the SIM Card? Put the SIM card into any mobile phone. When the mobile is powered up the phone should not look for a PIN if it has been disabled. If the mobile looks for a PIN then you must turn off the PIN request.

2. Is the Signal Strength LED flashing or on constantly? If it is OFF then either the device is not registered OR there is not enough signal strength for the device to work.

**3.** Move the position of the antenna to obtain a stronger signal level. On occasions you will find that some operators have no signal strength in certain location while another will have good signal strength. This will require changing the SIM to one from an operator who has good coverage at this location.

 ${\bf Q2.}\ {\bf I}$  am sending a text message to the gate but  ${\bf I'm}$  getting the following response.

Command Error

#### Check the following:

1. Check the spelling of the txt message sent. Quite often this response comes from a command which is almost correct but is spelt wrong.

2. Has the requirement for a security code been turned ON? If a security code is required then it must be added to the end of the text message being sent.

**Q3.** I am sending a text message to the gate but I'm getting the following response.

Invalid Command

#### Check the following:

1. Check the spelling of the txt message sent. Quite often this message can come from wrong spelling.

2. Check the details of the command being sent against the details in this manual.

Q4. There is a large echo at the house or mobile phone when a conversation is ongoing from the intercom.

#### This can be caused by two factors.

1. Occasionally due to poor signal levels this can happen on any mobile phone conversation. You may find that it is not present on further calls from the intercom.

2 If the microphone level adjustment on the intercom (adjustable by removing the front cover of the intercom itself) is turned too far to increase the audio level at the house phone or a mobile then this can lead to echo. Turn down the microphone level at the intercom.

Q5. Some numbers that I have programmed into the phone list work, but others do not.

#### Check the following:

1 You must always program the full telephone number into the device. So if there are area codes that you would need to use if you were dialing this number from a mobile phone then you must program this into the device for this number.

2 Call the number that is causing you a problem from your own mobile phone. Use the number exactly as you have programmed it into the gate unit. Confirm that you can call it without a problem.

3 When programming telephone numbers into the device do not leave a gap between an area code and the number.

4 Check the number that is not working by getting the device to send you the number in the location you programmed it. Use the "Send Open X" OR "Send Phone X" commands to get the number. Confirm that the returned number is correct.

#### Q6. "Network Busy" OR "Person Unavailable"

On occasion the network will be busy or will decide not to place your call to the gate unit for some reason.

#### Check the following:

1. Make sure the Signal Strength LED is flashing or always on.

#### Solution

Normally this problem can be resolved by simply placing the call again. The gate unit will respond without a problem.

Should the network insist that the call can not be placed then the simplest solution is to send a text to the gate. Send "Gate Open" to open the gate and "Gate close" to close the gate. The device will send you a text response if these commands have been received.

# REGISTER OF TELEPHONE NUMBERS PROGRAMMED INTO THE GATE UNIT.

Phone 1	
Phone 2	
Phone 3	
OPEN 1	
OPEN 2	
OPEN 3	
OPEN 4	
OPEN 5	
OPEN 6	
OPEN 7	
OPEN 8	
OPEN 9	
OPEN 10	
OPEN 11	
OPEN 12	
OPEN 13	
OPEN 14	
OPEN 15	
OPEN 16	
OPEN 17	
OPEN 18	
OPEN 19	
OPEN 20	
OPEN 21	
OPEN 22	
OPEN 23	
OPEN 24	
Control Phone	



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