

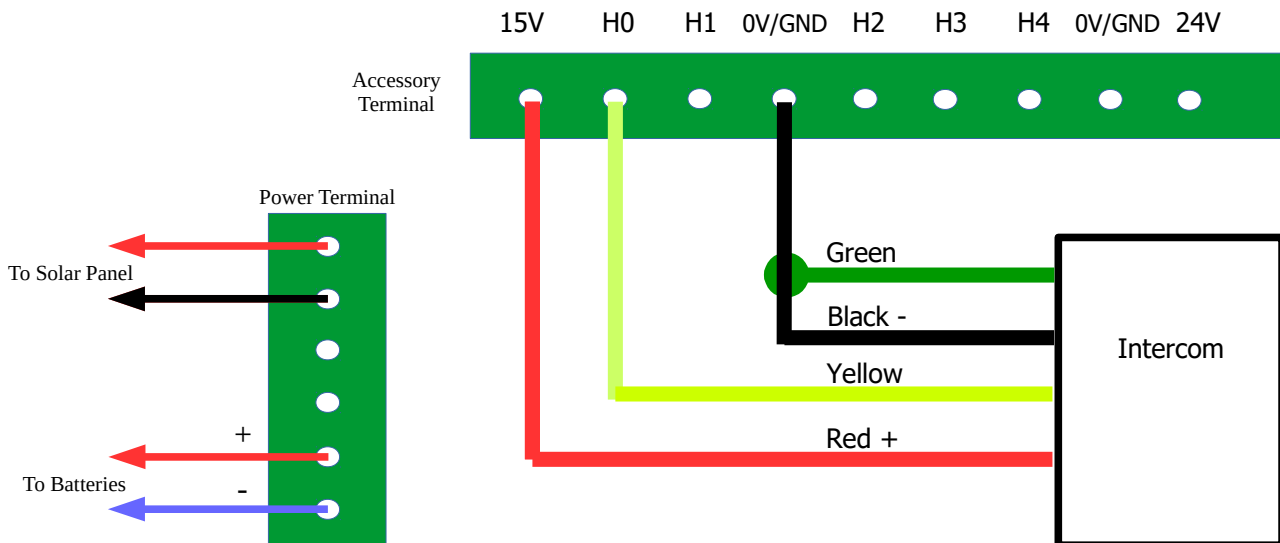
SOLAR POWERED ELECTRIC GATE OPENERS

4G Intercom Wiring and Instructions

Requires a 4G network sim card with phone and SMS services. Data not required.

Installation

1. Unscrew and remove backing plate from intercom.
2. Select location for your keypad and fix the backing plate. Note: Most surfaces require a hole for the wiring to pass through in order for the intercom to fit flush.
3. Pass wiring through hole/back plate leaving enough in order to join or connect to the unit if required. Attach antenna and run outside the intercom in an open area. Using silicon, seal up the back of the backing plate and holes not used or any other way water can enter through the plate. Allow silicon to set before proceeding. Please note, it is the owners responsibility to ensure no water can enter the unit from either the back or the front where the intercom meets the housing. We suggest using silicon and/or have a roof for the unit to try and keep it protected from the weather. Water damage is not covered under warranty.
4. Insert an activated sim card into intercom unit. Do not connect intercom wires yet.
5. Remove the accessory and power terminal from the control board on your gate opener (located in the box with the batteries for swing gates or on top of sliding motor).
6. Attach the colour coded wires to the terminal points as seen below. The **RED** and **BLACK** wire go into the '15V' and '0V/GND' slots on the accessory terminal. The **YELLOW** and **GREEN** signal wires connect to the 'H0' and '0V/GND' terminal slots. Double check you have the correct wiring before connecting. Incorrect wiring will instantly damage the intercom once connected and is not covered under warranty. Cut or tape each end of the remaining wires from the intercom to ensure they do not touch each other or the circuit board. Rated power input is up to 15VDC.
DO NOT connect to 24 volt supply. Please note orientation of terminals.



7. Connect accessory terminal back to the control board. If there is power getting to the keypad, a blue LED will illuminate on the front of the intercom. Attach intercom to the backing plate with the screws provided.

Initial Setup

It is recommended to do a factory reset before starting the programming sequence. Please see last section on these instructions.

After connecting power to the intercom, the unit will begin searching for a 4G mobile network signal. The blue light on the front should be flashing quickly (approx 4-5 times per second). Once connected successfully, the flashing light will slow down to once a second. If the light flashing changes to a slow flash (on for a few seconds, off for a few seconds), then the unit can not pick up a mobile network. Ensure the antenna is connected to the back of the unit, has mobile reception with the sim card provided in your area, the sim card is in properly and is activated with the network. Please note, on first start up, it may take up to a few hours to register the device with the network depending on your provider. Programming and return sms's from the unit may be limited until the device has been fully tethered to the network. Do not send more than 3 SMS commands to the unit if you have not received a reply.

Once the unit is connected to the network, you must set the intercom's manager – the device/phone number that will be able to change settings on the intercom.

To set the manager's number, SMS the following command to the device using the phone that will be the manager. ie. Whatever phone number this code is sent from will be the manager of the device. Codes are case sensitive and without spaces.

1234#00*#334455

Once sent, the unit will sms back 'Set manager success' if successful.

Please note the default admin password is 1234. Each command starts with this password. If you change the admin password, then you must use that number at the start from then on. eg. If you change the admin password from 1234 to 9876 then the code would be like this 9876#00*#334455.

Programming codes from Phone

Settings	Code to SMS (case sensitive and no spaces. Do not include "()" when texting code)	SMS reply if successful
Set Number 1 to call	(admin pwd)#01*#(phone no)	Set First Number Success

Set Number 2 to call	(admin pwd)#02*#(phone no)	Set Second Number Success
Set Number 3 to call	(admin pwd)#03*#(phone no)	Set Third Number Success
SMS code to activate gate	(admin pwd)#04*#	OK!
Signal Strength Check	(admin pwd)#08*#	1-31 (higher the number, the better the signal)
Set Relay Activation Time (Not recommended to change this setting)	(admin pwd)#09*#(time for relay in seconds 01-99)	Set Lock Delay Success
Inputting Keypad Code	(admin pwd)#11*#001-250#(new 2-8 digit code) Note: You can set up to 250 different codes. The only code that can not be used are all zeros. (each code is linked to a reference number you designate which is the first 3 digits.)	Set Password Success!
Set Microphone Volume	(admin pwd)#MIC*#(volume level insert 1-8)#	OK!
Set Speaker Volume	(admin pwd)#SP*#(volume level insert 1-5)#	OK!
Change Admin Password (admin pwd-not keypad code)	(admin pwd)#PWD#(New admin pwd)#	OK!
Reset above to factory (except admin number)	(admin pwd)#REST#	OK!

Example of code setting a phone number the intercom will call first (Set Number 1 to call) with admin password 1234 and phone number 0400123456.

1234#01*#0400123456

Programming codes from Intercom Keypad

To program any settings into the intercom using the keypad, the admin password must be entered to enter programming mode. Default is
#1234#

If entered correctly, a short "di" will sound from the intercom. Please note, if no inputs are entered within 10 seconds, the programming mode will exit automatically with a "di2 di2".

A "di" indicates a short, high pitched beep which means successful entering. "di2" indicates a long, low pitched beep which means unsuccessful or error.

Settings	Code to into Keypad	Note
Change Admin Password	000 "di" (new 4 digit password)#(repeat password) "di"	Recommended not to change
Inputting keypad code	001-250 "di" (new 2-8 digit code) # (repeat code) "di"	You can set up to 250 different codes. The only code that can not be used are all zeros. (each code is linked to a reference number you designate which is the first 3 digits.)
Delete all keypad codes	253 "di" 888 # 888 "di"	Deletes all codes for the keypad.
Reset Mic and speaker volume	254 "di" 999 # 999 "di"	
Set Admin Phone Number	256 "di" (phone no) # (phone no) "di"	eg. If phone number was 0412 345 678, enter 256 0412 345 678 # 0412 345 678
Set Number 1 to call	257 "di" (phone no) # (phone no) "di"	
Set Number 2 to call	258 "di" (phone no) # (phone no) "di"	
Set Number 3 to call	259 "di" (phone no) # (phone no) "di"	
Set Microphone Volume	260 "di" (volume level insert 1-8)# (volume level insert 1-8) "di"	

Set Speaker Volume	261 "di" (volume level insert 1-5)# (volume level insert 1-5) "di"	
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To Activate Gate from Keypad Code

(Allow unit to exit programming mode first if in programming mode)

Code # "di"

eg. If the activation code was 2468, the code to enter would be 2468#. You will hear a "di".

Calling **from** Intercom Operation

Press call button on the intercom and the unit will call number 1. If there is no answer in 30 seconds, the unit will proceed to number 2 if programmed. If no answer in 30 seconds, the unit will proceed to number 3 if programmed.

Please note, voicemail counts as the call being answered and the unit will not proceed to number 2.

If the phone is answered, the call will stay active for up to 60 seconds. After that time, the call is ended automatically. The call can be ended early by pressing the intercom call button again or hanging up the phone.

To activate the gate while in a call, press the * key on your phones handset.

Calling **to** Intercom Operation

Note: Only the intercom manager number or a registered number 1-3 can call the intercom. Other numbers will be rejected.

Once the user calls the intercom, the call is active immediately for 60 seconds. When the call is active the user can press * on their phones keypad to activate the gate. The call can be ended early by pressing the intercom call button or hanging up the phone.

Reset Admin Password to Factory Default

1. Unscrew face plate on intercom and turn over.
2. Locate reset button. (the only button on the intercom circuit board)
3. With the intercom power on, press and hold the reset button for approx 5 seconds until you hear a series of beeps. Release button.
4. Admin password is now back at original factory default – 1234. Other parameters and settings will remain unchanged.