

APC-SG24W 24V Flood Proof All In One Sliding Gate System



Attention Installer

The manual should be read cover to cover at least once prior to beginning installation

It is absolutely critical to set the operating direction (Left/Right) and the magnet positions PRIOR to operating the system

Congratulations on the purchase of your APC Automation Systems ® Gate Automation Kit.

For your convenience any Remote's and wireless buttons supplied with the kit are already paired with the system.

Page 1
Preliminary Checks
Safety Information
Motor Specifications
Control Board Features

Page 2 Installation Layout

Page 3 Motor and Base Plate Dimensions Conduit Placement for Gate Motor Emergency Override/Clutch Override

Page 4
Tools Required
Standard Motor Kit Contents

Page 5
Motor and Gear Rack Installation

Page 6 Magnet Installation

Page 7
Control Board Quick Reference Guide
Onboard Buzzer

Page 8
Phoenix Connectors and Wiring Termination
Successful Setup Flowchart

Page 9 Setting The Gate Motor Operating Direction

Page 10
ON/OFF Switch
Transformer Connection
Lengthening the External Transformer

Page 11 Motor Speed Adjustment Enable/Disable the Slowdown Auto Close Adjustment Over Current Sensing Adjustment Page 12 Smart Receiver Configuration Pairing Remote's, Wireless Push Buttons and Wireless Keypads

Page 13 Using Wireless Equipment Party Mode Wireless Push Button Configuration Wireless Keypad Programming

Page 14
GSM Connection
Keypad Connection
Wired Keypad Programming

Page 15 Wired Push Button Connection

Page 16 SETUP Cycle

Page 17 Loop Detector Connection Intercom Connection

Page 18
Photoelectric Sensor Connection
Retro Reflective Sensor Connection

Page 19 Courtesy Light Connection External Antenna Connection Compatible Equipment

Page 20 Troubleshooting

Attention Installer

There is no substitute to the benefits of reading and understanding the manual

The warranty covers faulty products only and not problems or damage caused by the installer

Pictures of the installation are always requested for troubleshooting or technical support

As an installer or DIY you have undertaken the responsibility to install this automation system It is of utmost importance to read the instruction manual and understand it before proceeding. If in doubt after reading please call us and ask questions before proceeding.

In addition to the above the following must be observed to make the installation process



The remote controls combined in this kit are already paired into the system. If Wireless buttons have also been purchased together with the kit then they have also been paired into the system.



This Gate automation control board has been tested and pre-configured with the factory default setting.

This means that the automation kit will work correctly for most size and weight gates with only the Setup procedure. A small adjustment to the over current setting may be required for your gates.

DO NOT ADJUST OVER CURRENT SENSING UNTIL ALL SETUP AND TROUBLESHOOTING PROCEDURES HAVE BEEN USED

* See REF1 & REF2 in the control panel settings



Motor test and magnet setup must be carried out according to the description in the motor section of the manual prior to operation of the control panel. Failure to do so will result in damage to the control board.



The M output on the control board is voltage OUT and NOT VOLTAGE IN, DO NOT connect a power source to this output. Doing so will immediately burn the control board.



M Output has LED indicators (Green for Opening and Red for Closing) The LED's are next to the output it is of utmost importance that you must be aware of the following:

- A. Observe the colours sequence during the cycles (Green while Opening and Red while Closing)
- B. The LED's must switch off within 3 seconds once the gate(s) reach the full open or full close

Preliminary Checks

To ensure safety and an efficient automation make sure the following requirements are met:

- **1.** The gate structure must be suitable for automation.
- 2. Make sure that the gate move properly and uniformly without any irregular friction during their entire travel.
- 3. The gates wheels and track must be in good condition with no bitting, no rust and must be well greased.
- 4. The gates should be able to be freely opened and closed before installing the gates automation system.
- 5. It is strongly suggested to have a gate stop installed for the open position for setup and emergency purposes.

Important Safety Information

Installer and owners should observe the following:

- 1. Make sure that there is sufficient space for the gate to slide open fully without interference.
- 2. Keep the remote controls in safe place and away from children.
- **3.** Do not change with parts or components not supplied by the manufacturer, this includes sensors, buttons, transformers and any component not listed in the compatibility list.
- 4. Make sure all wiring works are correct and in good condition before connecting the transformer to the control board.
- **5.** Turn off the power when doing any maintenance.
- 6. Do not supply mains power directly to the motor, control board or any accessories.
- 7. Do not install the operating system if in doubt. Contact the manufacturer.
- 8. Do not cross the gate while it is operating, Safety sensors are only to prevent accidents or injuries.

Before beginning installation the manual should be read thoroughly concerning all aspects of the installation including all precautions and safety information.

Proper steps should be taken to ensure efficient and safe installation for vehicles, property and persons within the operators working radius.

The system is fitted with an over current sensing feature to assist in preventing damages, injuries and death. All precautions must be taken by the installer that adjustments are set correct based on the gates weight, height and length. The system sensitivity should be set to allow consistent operation of the gates under normal operating conditions. This does not include operating against wind. The system may not detect (Over current sense) against light loads such as small object, young children and animals. It is the operators duty to ensure that the area is clear prior to operation. Photo sensors or Reflective sensors should always be installed to assist in accident or death prevention. Rubber edging should be installed onto the gates to assist in dampening any accidents or damages.

You agree to install this product following any and all safety requirements listed in this manual or required under local, state or national regulations. APC Automation Systems, its distributors, stockist or sellers are not liable for any direct, indirect, incidental, special or consequentional damages or loss of profit wether based in contract or any other legal theory during the course of warranty or afterwards. If you do not feel capable of properly installing the operator based on the above information or otherwise do not proceed.

Motor Specifications

 IP Rating
 IP57

 Voltage
 24V DC

 Power
 80W

 Maximum Thrust
 360N

 Motor Speed
 1800RPM

 Operating Temperature
 -20° ~ 55°C

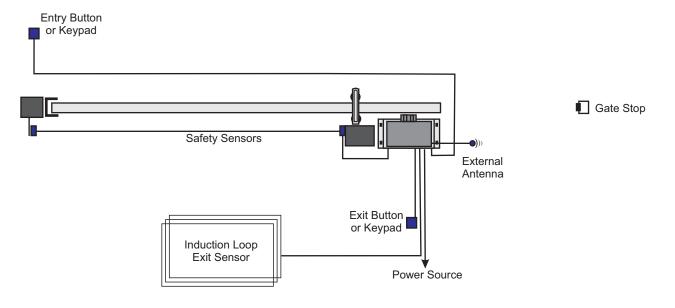
Control Panel Features

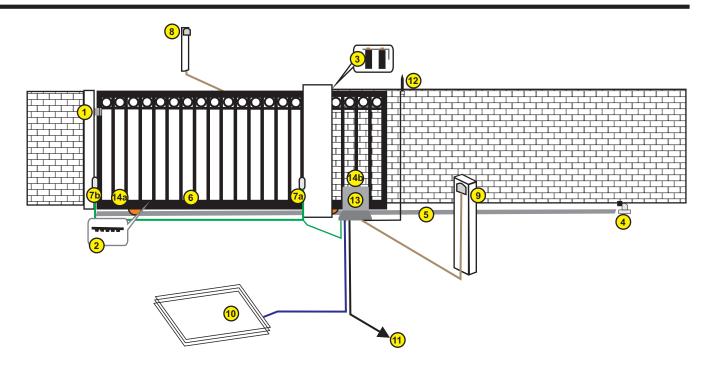
Over Current Sensitivity
Remote and Wireless Button Compatibility
Automatic Close
Party Mode (Cancel Auto Close)
Dedicated Safety (PE) Sensor Output
Dedicated constant 24v Output
Loop/Exit Wand Input

Input for Push Button, keypad, fingerprint reader and other access control compatibility

Courtesy Lamp Output

Installation Layout





1	U Guide/Keep
2	Wheels
3	Rollers and Bracket
4	Gate Stop
5	Floor Track
6	Gear Rack
7 a	PE Sensor Transmitter
<u>7b</u>	PE Sensor Receiver (Not required for Retro Reflective Sensor)
8	Entry Keypad/Push Button
9	Exit Keypad/Push Button
10	Induction Loop Exit Sensor
11	Power Source (Mains/Low Voltage)
12	External Antenna
13	Gate Motor
14a	Open Magnet
14b	Close Magnet

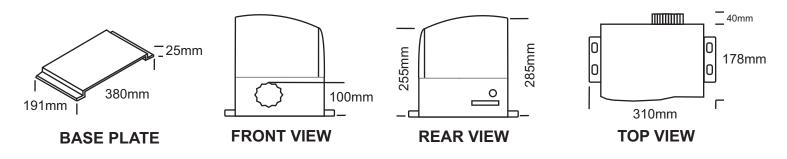
Requiring Wiring:

Keypad - 4 Core (Wireless available) PBD-K - 4 Core (Wireless available) PBS-K - 2 Core (Wireless available) PE Sensor

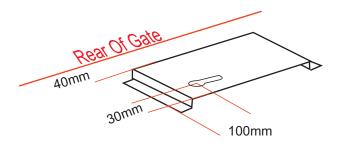
Receiver - 4 Core Transmitter - 2 Core

Induction Loop 1 Core Teflon Cable Motor 2 Core 2mm or Greater

Motor And Base Plate Dimensions

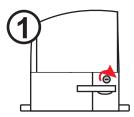


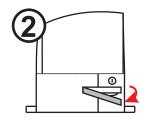
Conduit placement for gate system power input



Emergency Override/Clutch Override

To override the motor insert the key into the barrel located on the rear and turn clockwise then pull the lever to 90°.





Tools Required





Electrical Tape/ Heat Shrink Tubing (Required)



(Required)



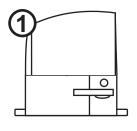
Allen/Hex Key Set (Required)

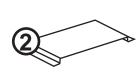






Standard Motor Kit Contents





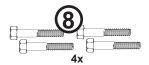












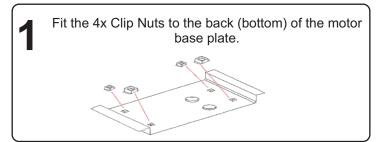


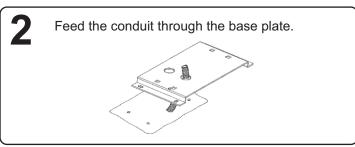


- Sliding Gate Motor Assembly
 Sliding Gate Motor Base Plate

- 3. Open Position Magnet, Bracket and fixing screws
 4. Closed Position Magnet, Bracket and fixing screws
- 5. Side Covers6. Override Keys7. Nutclips8. Fitting Bolts

- 9. Washers
- 10. Spring Washers



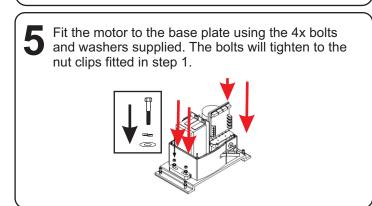


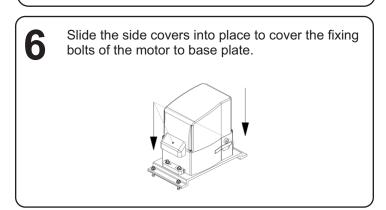
Fit the motor base plate to the concrete pad 40mm away from the gate using dyna bolts.

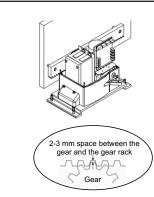
NOTE: Ensure motor base plate is level, if not make the necessary adjustments to rectify.

Fit motor cable through the base plate then through then glands and tighten ALL the glands to create a flood proof seal. Skipping this step or not tightening enough will not allow for the flood proof feature of this system.

Note: Excess cable slack will be required





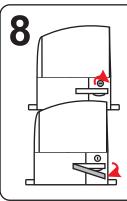


Install the gear rack onto the gate.

The best method for installation is to have the gate closed, sit the first piece on the pinion of the motor then fix directly to the gate in the center of the fixing hole (make sure it is 100% level first).

Now loosen the fixing and adjust the spacing between the motors pinion and the gear rack (as illustrated) then re-tighten. Each piece of gear rack will clip into the previous piece and providing you use a level minimal adjustments will be required afterwards.

You can use the clutch feature of the motor to open and close the gate whilst the gear rack is fitted.



DO NOT SKIP THIS STEP

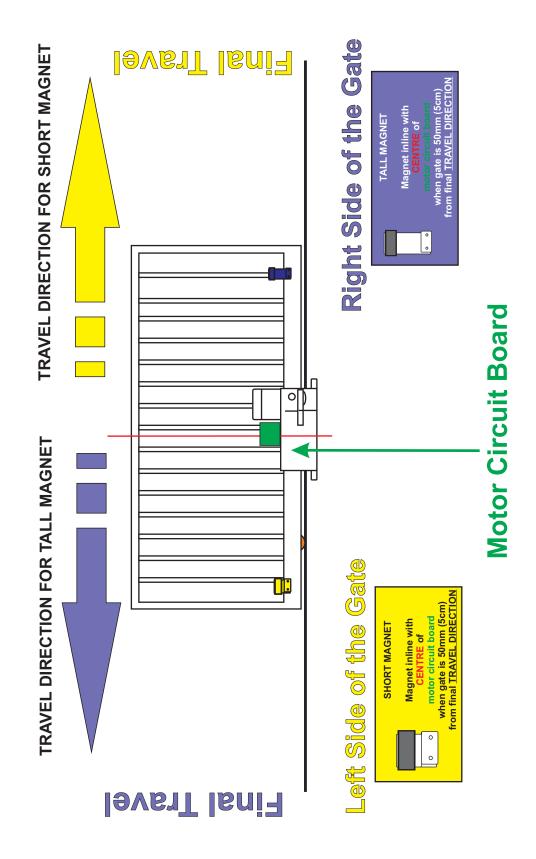
Test the gear rack installation by setting the motor to manual override.

To override the motor insert the key into the barrel located on the rear and turn clockwise then pull the lever to 90°.

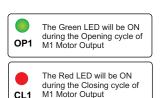
Now very slowly pull the gate open and closed, you will find tight and loose points in the gearing. These must now be rectified by loosening the fixing screws and adjusting the gear rack up/down until the gate is 100% consistent.

9 **IMPORTANT! IMPORTANT! IMPORTANT!**

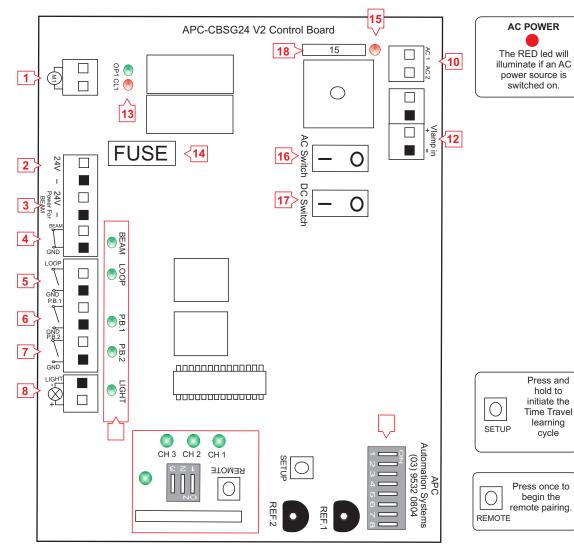
Setting the magnet placment



Quick Reference Guide



CL1



- 1. Motor Output 2. Constant 24V DC output
- 3. PE Sensor 24V DC output
- 4. PE Sensor Input
- 5. Loop Input
- 6. Pedestrian Opening Push Button Input
 7. Full Gate Opening Push Button Input
- 8. Light Output
- 9. 433MHZ Antenna
- 10. AC Input
- 11. Accessories Status indicators
- 12. Light Voltage Input
- 13. Motor Output Status Indicators
- 14. Accessories Output Fuse
- 15. AC Power LED 16. AC Switch
- 17. DC Switch
- 18. AC Fuse
- 19. Speed, Slowdown & Autoclose Configuration 20. REF 1 & REF 2 Sensitivity Adjustments 21. Time Travel Setup

- 22. Remote Configuration/Programming/Status

CH 1: Full Gate Channel: Illuminated whilst CH1 Button is pressed on Controller CH1 Or PB2 Circuit is activated

CH 2: Pedestrian Opening Gate Channel: Illuminated whilst CH2 Button is pressed on a CH2 Controller Or PB1 Circuit is activated

CH 3: Cancel Auto Close Channel (Party Mode): Illuminated whilst CH3 Button is pressed on a CH3 controller

Beam The GREEN LED is OFF in Standby & Opening It will be ON during the closing cycle to indicate that the safety beam circuit is operational and not Interrupted .

cycle

Loop The GREEN LED will pulse ON once when receiving contact indicating that the signal was received

PB 1 The GREEN LED will pulse ON once when receiving contact indicating that the signal was received.

PB 2 The GREEN LED will pulse ON once when receiving contact indicating that the signal was received.

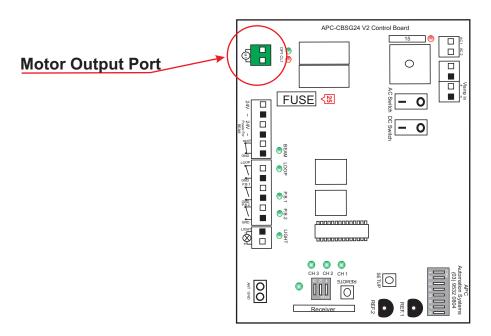
ONLY VALID IF VLAMP 24V DC SUPPLY IS CONNECTED

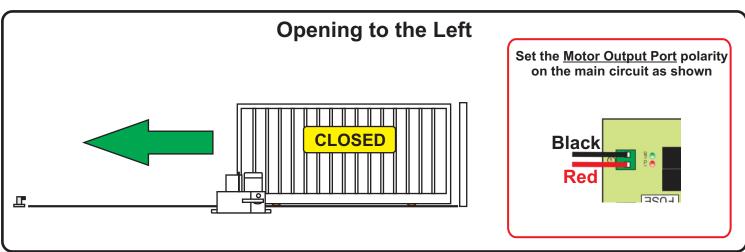
This GREEN LED will be ON during the opening and closing operation of the gate. It will stay ON while the gate is open and it will switch OFF after the gate(s) are closed. Party Mode will also turn off the output.

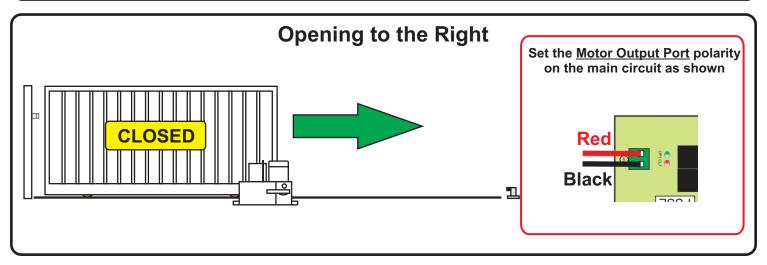
Onboard Status Buzzer

Di Di	Autoclose
Di Di Beep	Overcurrent Sensing

Setting The Gate Motor Operating Direction







Phoenix Connectors and Wiring Termination



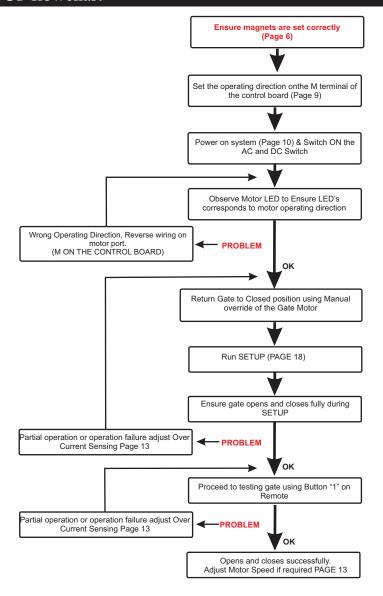
All Connectors are Pull-Out Connectors for ease of installation.

- 1. Remove Connector from Control Board.
- 2. Use a Flat head screw driver to loosen the top screw which will open the clamp point.
- 3. The casing should be stripped to expose ~12mm of the conductor. The conductor should be then folded back to leave a length of ~7-8mm. This method will allow the conductor to have maximum hold whilst in the connector.



4. Tighten the screw CLOCKWISE to clamp.

Successful SETUP flowchart



Power Input Connection

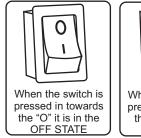
Please follow the instructions below carefully as this will be the Primary source of power for the Control Board.

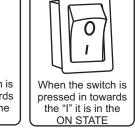
- 1. Ensure that there are no loose strands before inserting the wire into the connector to avoid short circuit.
- 2. Ensure all power switches are OFF before connecting.



When running any wiring you MUST always switch off the system power switches

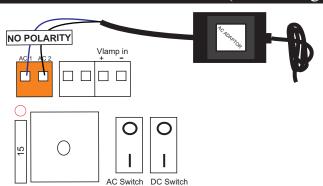
ON/OFF Switches

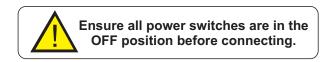




APC External AC Transformer (Low Voltage Systems)

Part No PS-24-10



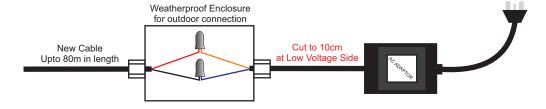


Once the AC Supply is powered and switched ON the RED LED will illuminate indicating the board is powered.

Extending the APC External AC Transformer (low Voltage)

Maximum cable distance: The low voltage transformer can be run upto 80m in cable distance when using a 2mm pair conductor. To run the transformer to maximum capacity the cable must be cut at the LOW VOLTAGE SIDE within 10cm from the output.

Note: Use a weatherproof junction box to terminate the new cable to the transformer.



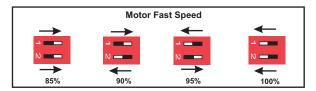
Setting the Motor Speed

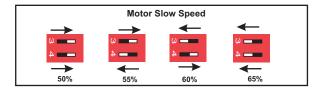
A SETUP cycle is always required to learn the travel time for the gate, the speed adjustment is set before performing the SETUP cycle.



Four choices are available for each speed adjustment, two will adjust the fast speed and two will adjust the slow speed. The speed options will vary depending on gate size and weight.

For gates on a slope the speeds may need fine tuning.





Enable/Disable Slowdown

For powered systems the slowdown is necessary and should be ON.



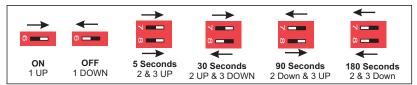
The slowdown cycle is not 100% necessary in a solar application, it can be turned On/Off if deemed necessary. If the operator struggles in operation turn OFF the slowdown. If the operator crashes turn ON the slowdown. Slowdown ON/OFF

Setting the Auto Close Duration

The simple to set Auto Close has 4 easy to adjust settings; 5,30,90 and 180 Seconds.



To turn on Auto Close Set DIP Switch 6 in the ON position followed by DIP 7 and 8 based on your desired Auto Close duration.





A PE Sensor or Reflective sensor MUST be connected when using the Auto Close Feature

Over Current Sensing







What are the Ref 1 and Ref 2 Trim Pots

These pots directly adjust the over current sensitivity of the control board, they are adjusted ONLY when the gate fail to fully open/close UNDER NORMAL OPERATING CONDITIONS. Adjusting these dials should only be considered after ALL aspects of the installation are confirmed.

REF 1 Directly controls the over current sensitivity for the FULL SPEED portion of the normal operating cycle.

Furthermore because the SETUP cycle is only run in the fast speed the REF 1 is the only trim pot that should be adjusted if the problem is occurring in SETUP.

REF 2 Directly controls the over current sensitivity for the SLOW SPEED portion of the operating cycle and also the TRANSITION speed between full speed and slow speed. It is not used in the SETUP cycle.

IMPORTANT: This step must be adjusted correctly to ensure that the gate is not inconsistent in its operation BUT will continue to sense obstructions and wind loading. The adjustment needs to be set taking into consideration that a different temperature after installation will cause a greater resistance.

How to adjust

Adjusting the pot CLOCKWISE will DECREASE the sensitivity thus making the system LESS sensitive to weight and resistance.

Adjusting the pot ANTI-CLOCKWISE will INCREASE the sensitivity thus making the system MORE sensitive to weight and resistance.

The pots should be adjusted only in 1mm increment turns til the gate does not over current sense during its travel.

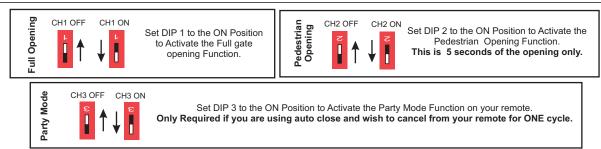
APC Smart Receiver Configuration

Remote's are Factory Paired when purchased in a kit

i

The APC Smart remote system is designed for user friendly operation. Once a controller is paired into the system it will automatically function based on your system configuration.

To adjust your Control panels functions adjust the DIP switches based on your configuration requirements.



APC Remotes and Wireless Equipment

Pairing

The original remote's supplied with the sliding gate opener system are already paired.

- Press the small REMOTE button once on the circuit board and the LED Indicator will start to flash.
- Press the Number 1 button on the remote for 1 second.
- Press the Number 1 remote button to test operation.

Pairing APC Wireless Push Buttons

Ensure the switch is in the ON state using the supplied key

- Press the small REMOTE button once on the circuit board and the LED Indicator will start to flash
- Press the wireless push button for 1 second.
- Press the button to test operation.

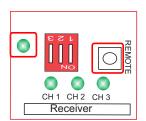
Pairing APC Wireless Keypads

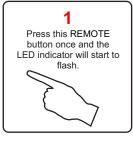
Use the default pin codes, after successful pairing then you can change the pin numbers

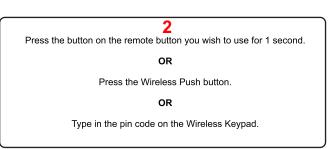
- Press the small REMOTE button once on the circuit board and the LED Indicator will start to flash
- Type 1 1 1 1 #
- Type 1 1 1 1 # again to test operation.

Remote Learning Button

> LED Indicator





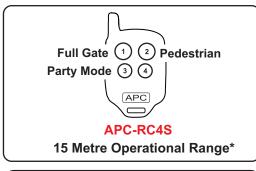


Deleting

- Press and hold the REMOTE button until the LED indicator is on solid then release the REMOTE button.

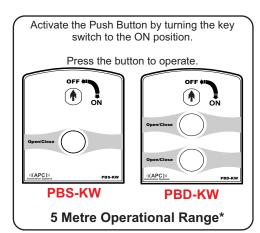
WARNING: This will delete all wireless equipment from the system.

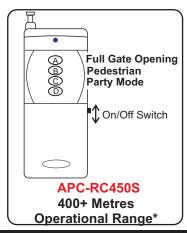
Using your Wireless Equipment





- * All guideline distances will vary from site to site
- * All operating ranges are based on a clear environment (interference free)
- * Metal fences will drastically decrease operating ranges
- * All operating ranges can be boosted with the ANT-1 Antenna (page 14)





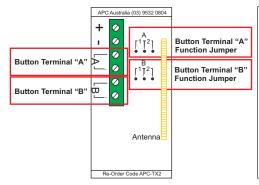
Party Mode (Cancel Auto Close)

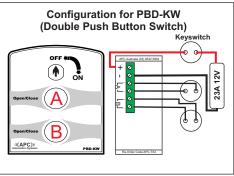
To Cancel the Auto Close feature for ONE cycle

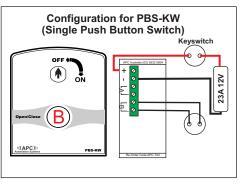
RC450S Remote: Simply press and HOLD the "C" button on your remote RC450S Remote for 5 SECONDS whilst the gate is in the OPEN position.

RC4S Remote: Simply press and HOLD the CH3 button on your remote RC4S Remote for 5 SECONDS whilst the gate is in the OPEN position.

APC Smart Wireless Button Configuration







When the jumper is set to "1" and center pin the designated output will operate double gates.

FULL Gate Setting

PEDESTRIAN Gate Setting

When the jumper is set to "2" and center pin the designated output will operate a single gate.

APC-KP2W Pin number programming (4 Digit)

The APC-KP2W has TWO channels, each channel can control a different function on an APC Smart control board. To continue adding pin numbers after adding the first repeat the steps bellow.

Note: When you add your first pin number to each channel the default pin code will automatically be erased.

-Channel 1 Full Gate Operation (Supports 8 Pin Codes)

Master Code *

0 1 #

Pin Code #

-Channel 2 Pedestrian Gate Operation (Supports 3 Pin Codes)

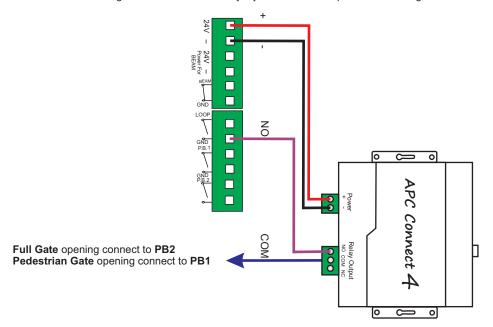
Master Code *

0 2 #

Pin Code #

APC Connect4 GSM Reciever

A GSM Receiver is the absolute most flexible form of access control. Providing there is good mobile reception at the gate the GSM switch can operate the gate from anywhere in the world. When receiving a call it will automatically reject the call and open or close the gate. SIM CARD IS NOT SUPPLIED.



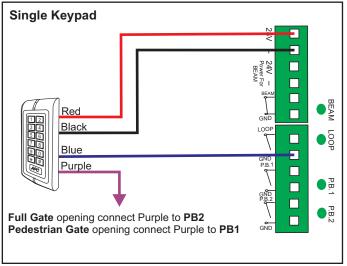
Connecting an APC Keypad (APC-KP1-C)

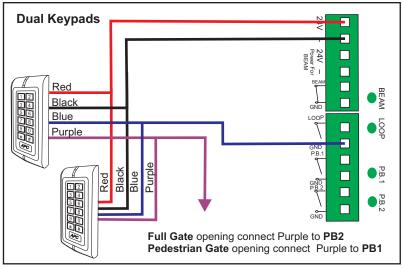
Unlike a push button entry switch using a keypad can provide a much higher security for access control for guests, workers, tenants etc.

Using a keypad will allow you to manage the users by adding and deleting as required. Its backlit illumination also allows for ease of use at night.



When the Input is Triggered the PB1/PB2 LED will momentarily illuminate





Quick Programming Pin Code



Master Code used to enter programming only

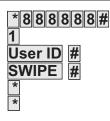
To enter Pin code programming

Any number between 1-999, this number is unique to each pin code/swipe tag and cannot be used twice

The Pin code you would like to use to open the gate (4-6 Digits)

To Exit programming and return to standby state

Quick Programming Swipe Tag



Master Code used to enter programming only

To enter Pin code programming

Any number between 1-999, this number is unique to each pin code/swipe tag and cannot be used twice

Swipe the tag past the black APC window

To Exit programming and return to standby state

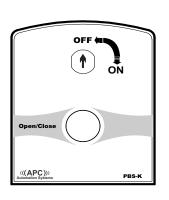
APC Wired Push Button Connection

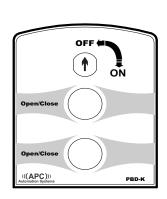
Push buttons are used for opening and closing the gates without using a remote.

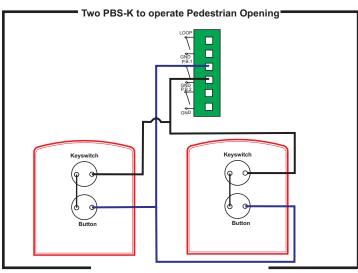
Push buttons can be used for a vast amount of purposes ranging from basic access control for visitors, workers or taking out the bins.

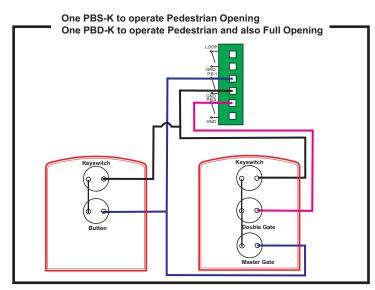


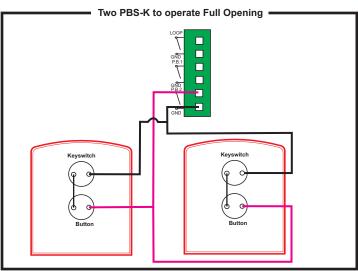
For **Pedestrian Gate** operation connect the Button component to **PB1 and GND** For **Full Gate** operation connect the Button component to **PB2 and GND**

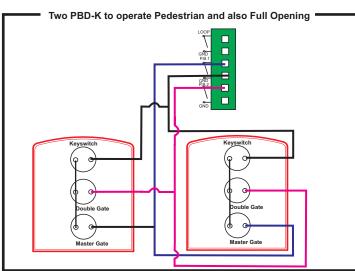


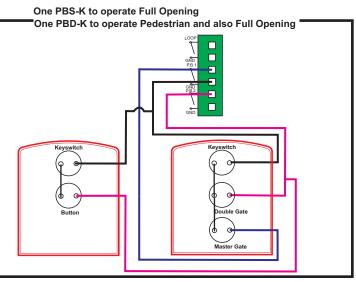












Gate System SETUP Cycle

Before beginning this step you must first ensure that all your motor wiring connections are connected correctly, there are no loose wire strands and all connection points are joined and insulated correctly

The purpose of the SETUP cycle is so that the gate control panel can learn its opening and closing limits and learn its slowdown. If the control panel is not setup it may run inconsistently and/or may not reach its stopping points and/or slow down incorrectly..

Check your Magnet positions!

Preliminary checks prior to SETUP cycle

Ensure gear rack is not binding with ZERO resistance

Ensure gate is free of ALL bowing

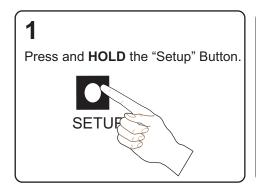
Ensure that the motor is firmly fixed

Ensure that the connections are all correct with no loose wire strands

Ensure that magnets are set correctly

Ensure that the motor polarity is set correctly

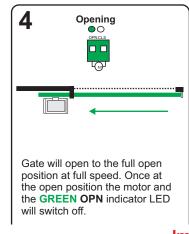
GATE MUST BE CLOSED BEFORE BEGINNING THE STEPS BELOW

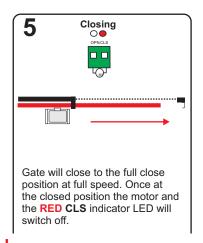






The SETUP cycle will now open and close the gate at full speed so that it can learn the time travel distance. It will follow the sequence illustrated below. Once the cycle below is completed the buzzer will sound indicating completion.





Important!

Observe the LED indicators as illustrated and detailed above, if the gate reaches the open or close position and the motor LED does not switch off immediately switch off all power sources and see the troubleshooting section.





The Buzzer will now sound indicating completion of the setup cycle.

If the gate did not reach any of the full open or close cycles or has missed part of the cycle see the troubleshooting section.

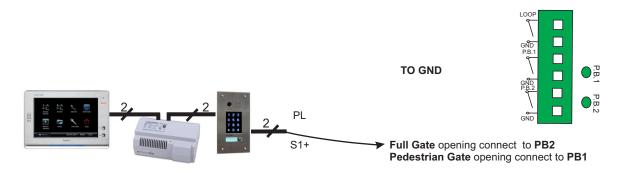
APC Loop Detector For Auto Gate Opening

The APC Loop Detector will detect vehicles over the induction loop and automatically operate the gates to open.

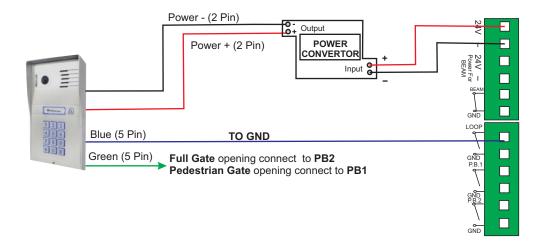


Please refer to the loop detetor installation manual for the specific instructions for installation.

Eyevision® 2 Wire Intercom System Connection



Eyevision® 4 Wire HYBRID Intercom and WIFI intercom System Connection



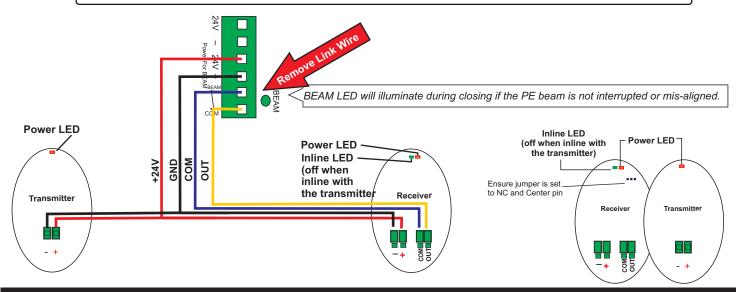
Connecting a Single PE Sensor (APC-PE-2000)

APC-PE-2000 PE sensor (Transmitter & Receiver) must be connected back to the control panel.

Install the PE-2000 Photoelectric sensor on the first entry point of the driveway from post to post at approx. 500mm above ground level.

The Transmitter and the Receiver must be inline with each other (The inline LED will be off when aligned with the transmitter).

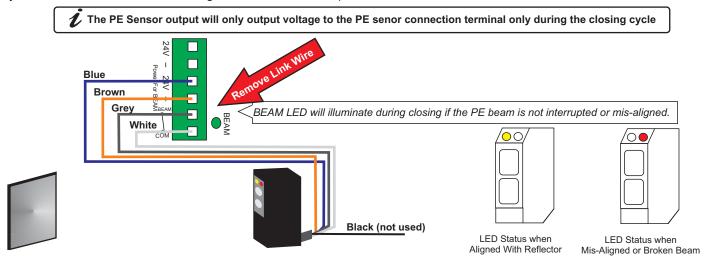
The PE Sensor output will only output voltage to the PE senor connection terminal only during the closing cycle



Connecting a Single Retro Reflective Sensor (APC-RR-11)

APC-RR-11 Reflective sensor (Transmitter only) **must be connected back to the control panel** (see wiring diagram). Install the RR-11 Reflective sensor on the first entry point of the driveway from post to post at approx. 500mm above ground level.

The Transmitter and the Reflector must be inline with each other (The yellow inline LED will be ON when Aligned with the transmitter).



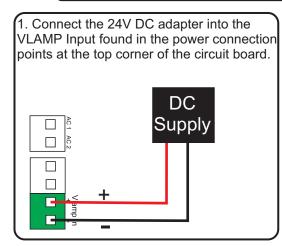
Connecting a Courtesy Light

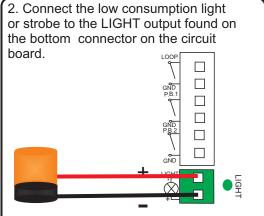
Courtesy Lights are used to alert pedestrians to be cautious as there may be vehicles entering and exiting. A Strobe light is generally used due to there low drawing consumption to operate.

This internal relay will support an output of 24V 10W Maximum, The 24V source power used must be external to the system. Failing to follow the above will cause damage to the system.



THIS OUTPUT IS NOT USED TO CONNECT DRIVEWAY LIGHTS







This output is active when the gate is Opening, Idle in the open position and closing.

The output will turn off when the gate is Closed or Party Mode has been activated.

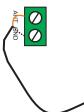
Connecting an APC-ANT1 External Antenna

The ANT-1 external antenna can boost the remote range drastically in most installations.

Suitable for Residential, commercial and rural installations this antenna used in conjunction with the APC-RC450S remote can boost functionality UPTO 800m distance. When used in conjunction with APC-RC4S it can boost functionality UPTO 80m distance.



Inner core of the antenna cable to **ANT** on the control board. Outer core/shield of the antenna to **GND** on the control board.



Compatible Equipment

The equipment listed below does not affect the warranty of the control panel and have been tested and approved for use. Limited warranty is applied to the control panel when used with third party equipment.

Sensors

- APC-PE2000
- APC-RR-11
- APC-LD2-12-24VACDC

Keypads

- APC-KP1-C
- APC-KP1-D
- APC-KP2W

Push Buttons

- APC-PBS (K/W/K/KW)
- APC-PBD (K/W/K/KW)
- APC-PBD211
- APC-PBD164

Remotes

- APC-RC4S
- APC-RC450S - APC-RC4-SV

Receivers

- APC-Connect4

Internal Transformer

- PS-24INT

External Transformers

- PS-24-10

Courtesy Light APC-LAMP24

Troubleshooting

Scenario 1

Problem:

Gate will not OPEN/CLOSE Fully.

Possible Cause:

Step 1: Review the preliminary steps found in the setup section of the manual, check your gate motor installation and magnet positions.

Step 2: ONLY after completing step 1: Adjustment of System Sensitivity (REF)Further instructions found on Page 6.

Solution:

Run the SETUP cycle from the CLOSED position, The must open once and close once.

if the gates do not run the full cycle an adjustment of REF may be required.

Further Information:

Contact technical support prior to adjusting REF.

Scenario 2

Problem:

System will not power ON (NO LED'S). System is powered but will not function

Solution:

Ensure that your power Source is ON/Fuse is in good condition.

Scenario 3

Problem:

Gate will not slow down before reaching the open and close positions.

Possible Cause:

Setup Cycle not completed correctly.

Motor Speed/Slowdown is set to high.

Solution:

Run the SETUP cycle from the CLOSED position the gate must open once and close once.

If the gates do not run the full cycle refer back to scenario 1.

Ensure that the motors switch off at the end of each cycle (using the motor status indicators).

Adjust the motor speed lesser than current value.

Further Information:

If the gate does NOT switch off at the end of there OPEN/CLOSE power off IMMEDIATELY and adjust your magnet position.

Scenario 5:

Problem:

Gate opens but does not close.

Possible Cause:

Broken Beam Circuit.

Solution:

Reconnect the original loop wire between Beam and GND and check if it is now functional.

Further Information:

If the unit becomes functional first check the accessories fuse then check the wiring and alignment of your safety sensor and power.



APC WARRANTY

APC Automation Systems warrants the original purchasers or the APC gate(s) opening system for a period of twelve months from the date of purchase (not installation), the product shall be free of defects in materials and workmanship under normal use.

During the warranty period, APC shall, as its option, repair or replace any defective product upon return of the product to its factory, at no charge for labour and materials.

Any replacement and/or repaired parts are warranted for the remainder of the original warranty,

The original owner must promptly notify APC in writing that there is defect in material or workmanship, such written notice must be received in all events prior to expiration of the warranty.

International Warranty

APC shall not be responsible for any freight fees, taxes or customs fees.

Warranty Procedure

To obtain service under this warranty, AND AFTER CONTACTING APC, please return the item(s) in question to the point of purchase.

All authorized distributors and dealers have a warranty program, anyone returning goods to APC must first obtain an authorization number. APC will not accept any shipment for which prior authorization has not been used.

Conditions to Void Warranty

This warranty applies only to defects in pairs and workmanship relating to normal use. It does not cover:

- Damage incurred in shipping or handling
- Damage caused by disaster such as fire, flood, wind, earthquake or lightning
- Damage due to causes beyond the control of APC such as excessive voltage, mechanical shock or water damage
- Damage caused by unauthorized attachment, alterations, modifications, or foreign objects.
- Damage caused by peripherals (unless such peripherals were supplied by APC)
- Defects caused by failure to provide a suitable installation environment for the products
- Damage caused by usage of the products for purpose other than those for which it was designed.
- Damage from improper maintenance
- Damage arising out of any other abuse, mishandling, and improper application of the products.

Under no circumstances shall APC be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability, or any other legal theory. Such damages include, loss of profits, loss of the product or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, down time, purchaser's time, the claims of third parties, including customers, and injury to property.

Disclaimer of Warranties

This warranty contains the entire warranty and shall be in lieu of any and all other warranties, whether expressed or implied (including all implied warranties of merchantability or fitness for a particular purpose). And of all other obligations or purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product.

Out of Warranty Repairs

APC will at its option repair or replace out-of-warranty products which are returned to its factory according to the following conditions. Anyone returning goods to APC must first obtain an authorization number.

APC will not accept any shipment whatsoever for which prior authorization has not been obtained. Products which APC determines to be repairable will be repaired and returned. A set fee which APC has been predetermined and which may be revised from time to time will be charged for each unit repaired. Products which APC determines not repairable will be replaced by the nearest equivalent product available at that time. The current market price for the replacement product will be charged for each replacement unit.