INTER GLIDE

REMOTE CONTROLLED

SWING GATE OPENER

SWA-400

OWNERS MANUAL & SERVICE BOOK

CE ETS Germany EMC tested

Dear Customer,

We wish to congratulate you for choosing

INTERGLIDE AUTOCONTRLS

system, leading supplier of various type automatic opening systems for Swing Gates, sliding Gates, Rolling Shutters, Garage shutters, Boom Barriers, Sliding Glass Doors etc, which are developed in India.
Hence, we assure you trouble free operation and committed service at all time to come.
To ensure a long trouble-free operation, give proper care and maintenance as described in this manual.
We wish you the best out of this system.

INTERGLIDE AUTOCONTROLS

INSTRUCTIONS

STANRARDS PACKINGS

Arm Gate Motor	*- 2 Nos*
Mounting Brackets	*- 2 Sets*
Remote transmitter	*- 2 Nos*
Close Hit bush	*- 1 No*
Control Box with control Board	*- 1 No*
Release Keys	*- 2 Nos*

OPTIONAL ITEMS:

Photocell
Flashing Light
Battery Backup
Electric Lock
Wifi Switch
Solar panel + Charger

Arm Gate Motor: Motor with gear assembly to open / close the gate.

Control Box- This consists of Microprocessor based control circuits to supply drive power to the motor. It also contains back up Battery and Radio Frequency Receiver.

Remote Transmitter: This is hand held remote switch to signal open/close operation. Range of the transmitter without any obstruction is approximately 100Mtrs.

Release Keys: This key is used to release the motor mechanism to the gate in case of any malfunction of the gate or during power failure.

Electro Magnetic Lock (EM Lock): This lock is attached to Gate with MOTOR 1. While closing this lock gets locked to the slot and while opening, it gets released itself and open. This acts like a tower bolt for added safety. This lock can be disabled by using the release key provided.

SPECIFICATIONS

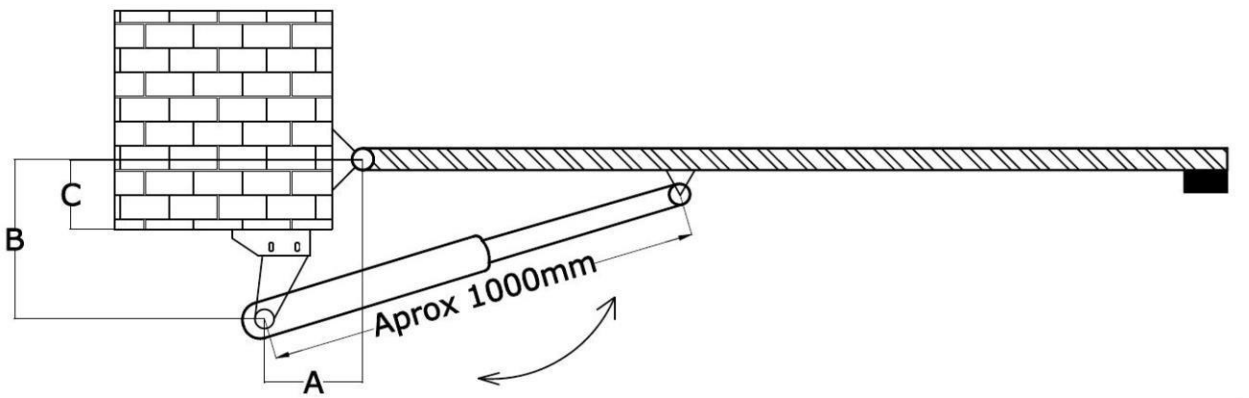
Input Power	220VAC
Battery Backup - option	12V/7Ah-2
DC Motor	24VDC/ 40W x2 nos
Operating Time	10 to 12 Sec
Operating speed	Fast / Slow
Allowed Gate size	200 +200Kg /3Mtr
Control Drive	Microprocessor PWM based
Radio Transmitter	2Ch/433 MHz
Protection Class	IP54

SITE INSPECTION

Before begin to install the Automatic System, please check following.

1. Structure of the Gate Poll should be sufficiently strong to support the mechanism. The hinges must function efficiently and there must be no friction between moving parts and fixed parts, other than usual.
2. Check the floor level and make sure that the gate should not rub on ground, during opening / closing.

Motor Layout



1. Check the measurement 'C'. If C is more than 110MM, it is ideal to use Roller Swing/ UG series.
2. Lubricate the Gate Hinge and check the load on the gate leaf with a spring balance at a point 1 Mt from the hinge. If the load is more than 5 Kg (generally for Cast Iron Gates) it is ideal to use either SW 800, UG 800 or WMS 800. If less than 5 Kg SW 300, UG 300 or WMS 300 can be used.

3. If the visibility of the OPENER matters especially when the swing gate open outwards, it is preferred to use UNDERGROUND Operator UG 300 /800.

4. There are cases where one gate leaf can open only 90 degree, and the other more than 90 degree, it is advisable to use Underground / Wall mounted system. Opening angle till 180 degree is possible.

5 Places where KSEB power is not available or not easy to access, there is provision for SOLAR POWERED SYSTEM.

Prepartion for Installation

In order to have a smooth installation, please make sure that

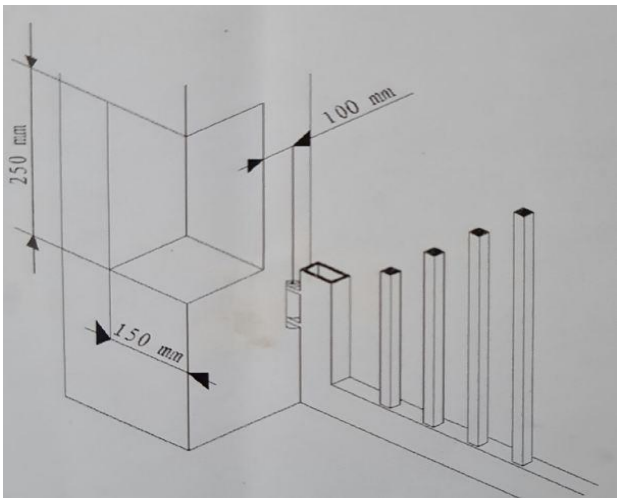
1. The gate can be opened / closed manually, without any obstacle.
2. Hinges are stable and in good condition.

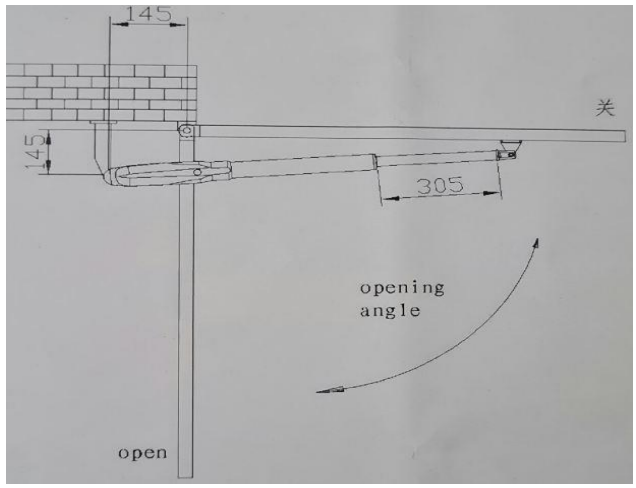
Fix the rear support Clamp on the gate post. If necessary, please adjust the support length**.**

Selection of Opening Angle for SW 400

Opening Angle	**A** in MM	**B** in MM	**C in MM**
90 degrees	**145**	**145**	
120 Degrees	**135**	**135**	

Eg: INSTALLATION DIAGRAM- Open angle – 90 degrees





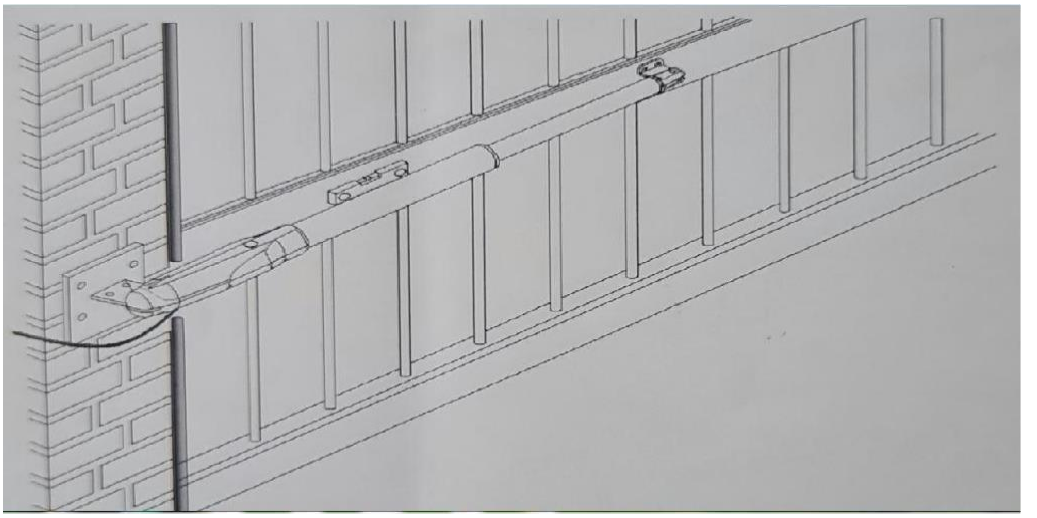
Please change the size according to following rule.

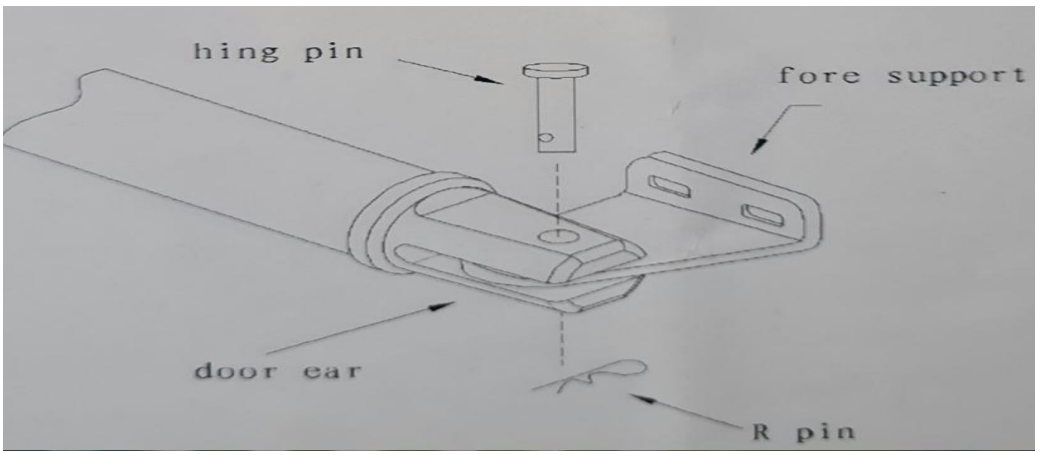
1. 132<A<145,132<b<145 mm
2. If the opening angle is more than 90 degrees, then A+B<C
3. The smaller value A and B, the faster the gate works.
   If the size of the gate post or hinges not the same as A, please dig according to following diagram.

Installation procedure:

If the Pillar is Iron, weld supporting clamps. If Concrete use Anchor Bolts.

1. Release the GEAR MOTOR ARM. Open both gates to maximum 100 degrees.
2. Extend the Lever Arm fully outwards, by rotating the Arm Extension.
3. Mount the Base bracket to the pillar, corresponds to horizontal section of the gate. using water level. Fix with anchor bolt. Attach Tail Plate with 2 bolts.
4. Screw the Motor Arm to this Tail Plate. Then spot weld the END Clamp to the gate. See that the Motor arm is horizontal.
5. Ensure the gate can be opened and closed fully.
6. Weld the End Clamp strong. And install second motor like this.
7. CLOSE both gates.

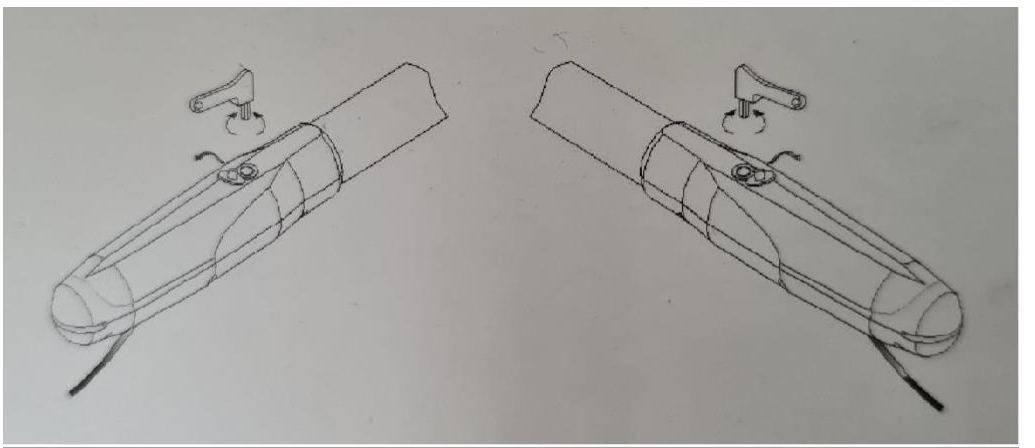




MANUAL RELEASE

If Power fails or on motor Stoppage, please open the waterproof cover on the Motor Arms and insert the release key and turn quarter turn Anti clockwise. This operation releases the gear from the motor and the gate can be manually moved.
Do this for the other gate also.

To LOCK, insert the key and turn quarter turn Clockwise.



Installation of EM Lock.

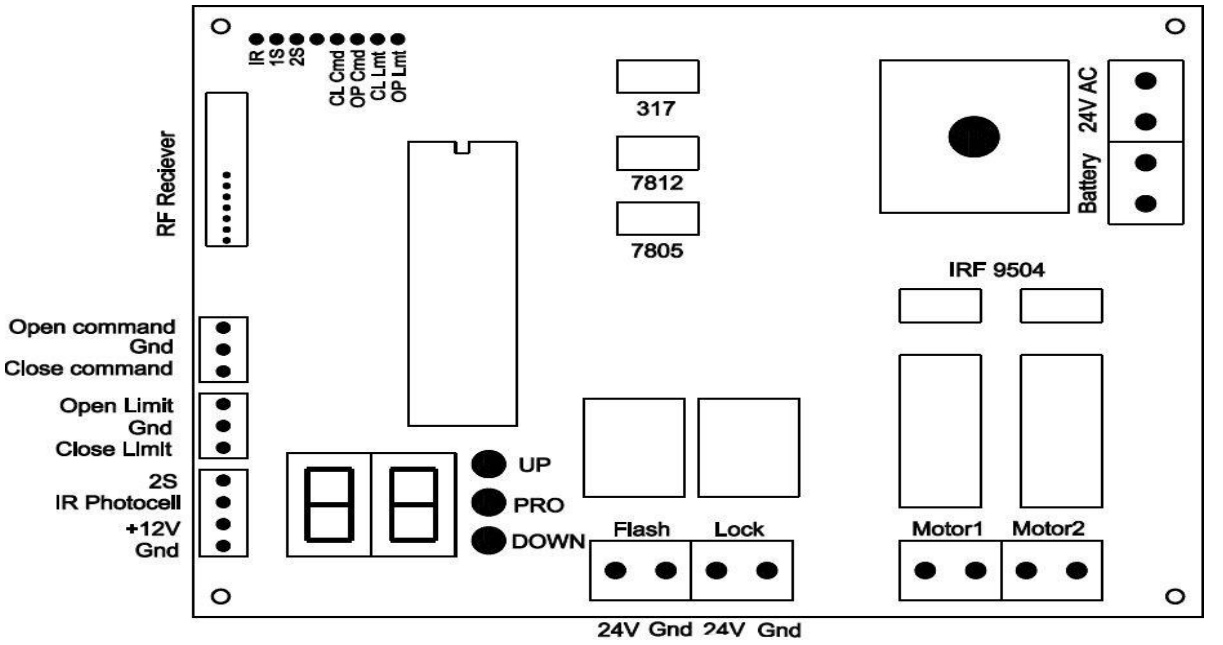
EM Lock is generally fixed to the Gate Leaf tip, which needs to travel more than other. If same, it can be fixed to the gate near control box, so as to reduce wiring. Motor in the Gate Leaf with lock is termed as M1, and other M2.

Close the gate properly and fix the LOCK BASE to the ground so that both leaves are blocked in the upper rubber part of the base. Fix it firmly to ground.

Lock is screwed to a base plate, which is to be welded to the gate tip. Unlock EM Lock
and place it in the tip (Fig), so that the lock
lever just moves above the base. Bottom. t should locked into the bas while closing and gets released while opening**.**

Electrical Connections:

Give connection to Motor1, Motor 2 and EM Lock as shown. Connect the Battery terminals (optional) and Power the system. Connect IR Photocell & Flash (optional).



POWER :

1.Connect 220-24V transformer output to 24VAC point.

2. There is an inbuilt battery Charger. Connect 2 batteries of 12V/7 Ah in series to the battery point, if power backup is required.

RF Receiver:

Plugged in with 2 Channel RF Receiver.

Connector :

1. 2S- Short this point to ground to get alternate 2 door operation. First signal Opens the gate. Second Closes. Any signal, while operation stop the gate.
2. IR Sensor: Signal from the IR Photocell, stop and return a closing gate.
3. +12V - Supply for IR Photocell or card reader.
4. GND

Connector:

1.Open : Shorting this to ground , gives OPEN action.

2. Close: Shorting this to ground, gives a Close action.

Connector

1. 2 Wire connection to Motor 1 and Motor 2.

Connector

1. Flash - Connect 12Volt flash light,
2. Lock - To connect an Electric Lock of 24VDC

CONTROL BOARD SETTINGS:

The control Board is equipped with proper Built in Battery charging circuit and Overload detection circuit. Overload detection circuit will detect any obstruction while working or when limits are reached and cut off the respective motor power.

Switches & Controls:

For system programming – Keep PRO button pressed for 5 Secs.Will be directed to program from P0 to PA.

⬆ For incrementing program or content

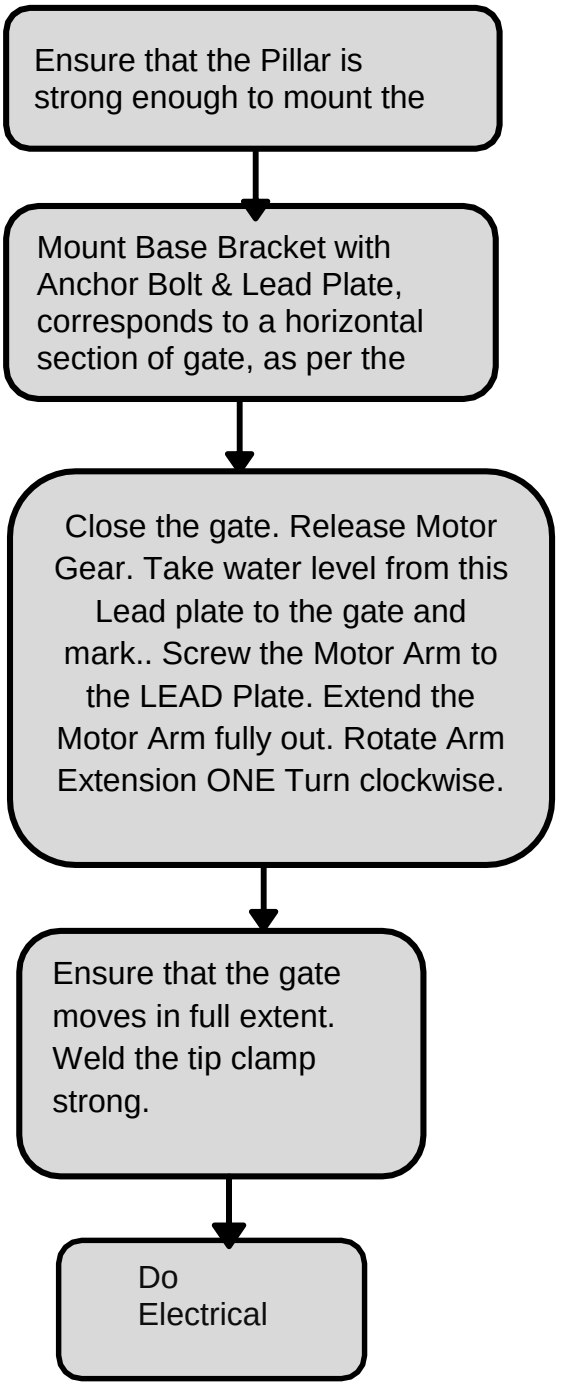
⬇ For decrementing program or content

Program Selection:

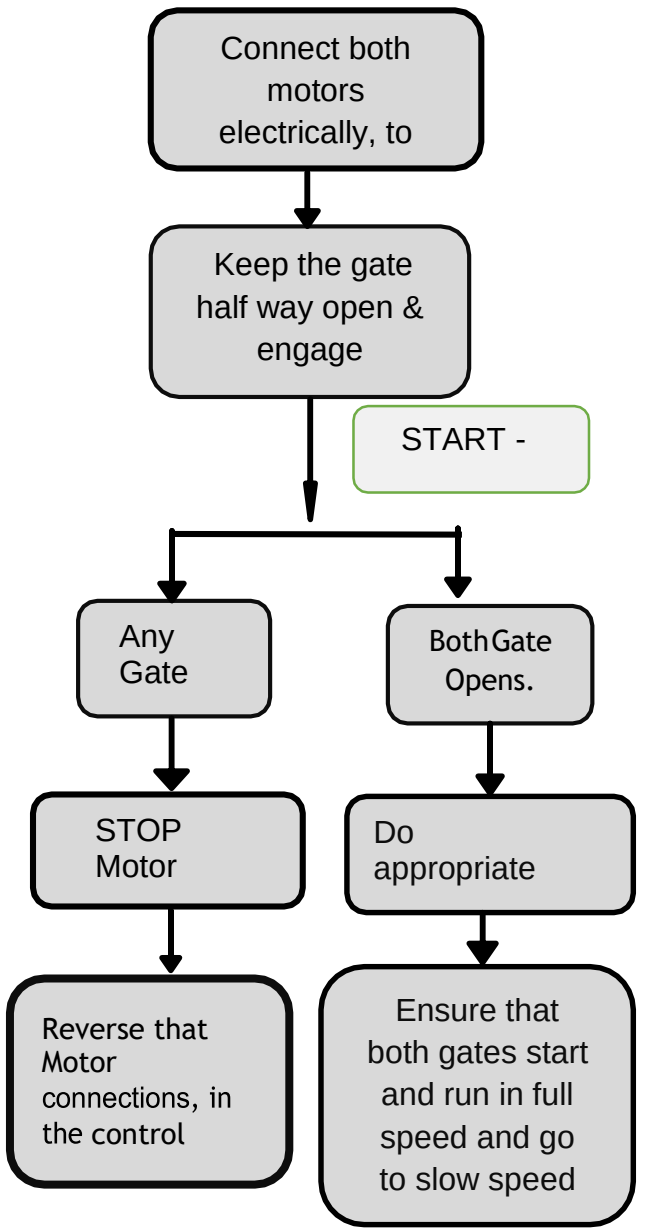
Program	Description	Range	Default
P0	Power Setting	60,80,99%	99
P1	Cut off Load – M1	01 to 20	7
P2	Cut off load - M2	01 to 20	7
P3	High Speedd working time –M1	01 to 20	5
P4	High Speed working Time – M2	01 to 20	5
P5	Slow speed torque	20 to 90%	40
P6	Close Delay – M2	1 to 5 Secs	2
P7	Auto Close Enable	0-No auto close 1-Enable 2-Auto Close-On, for cycle completion.	0
P8	Auto Close Set time	1 to 99 Secs	0
P9	Mode Selection thru RF Remote	0- A- Single gate op/cl B- Double gate op/cl 1- A - Double Gate Open B- Double gate Close	0
PA	Lock ON time	1 to 5 Secs	2

1.SLOW SPEED Working Time is set as default – 10 Secs.

INSTALLATION- Auto Gate Gate



OPERATION SETTINGS- Auto



Motor Arm Fixing for Outward opening Gates:

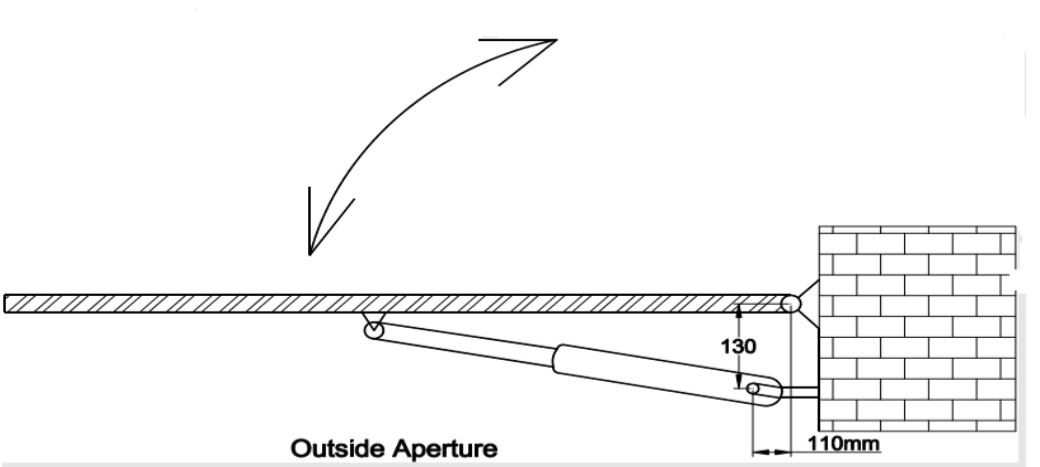
Fix the Motor clamp as shown:

If the Pillar is Iron, weld supporting clamps. If Concrete use Anchor Bolts.

1. Release the GEAR MOTOR ARM. OPEN both gates.
2. Extend the Lever Arm fully outwards, by rotating the Arm Extension.
3. Rotate the Arm Extension one turn clockwise.
4. Mount the Base bracket to the pilar, corresponds to horizontal section of the gate. using water level. Fix with anchor bolt. Attach Tail Plate with 2 bolts.

6. Screw the Motor Arm to this Tail Plate. Then spot weld the END Clamp to the gate. See that the Motor arm is horizontal.

5. Ensure the gate can be opened and closed fully.
6. Weld the End Clamp strong. And install second motor like this.
7. CLOSE both gates.



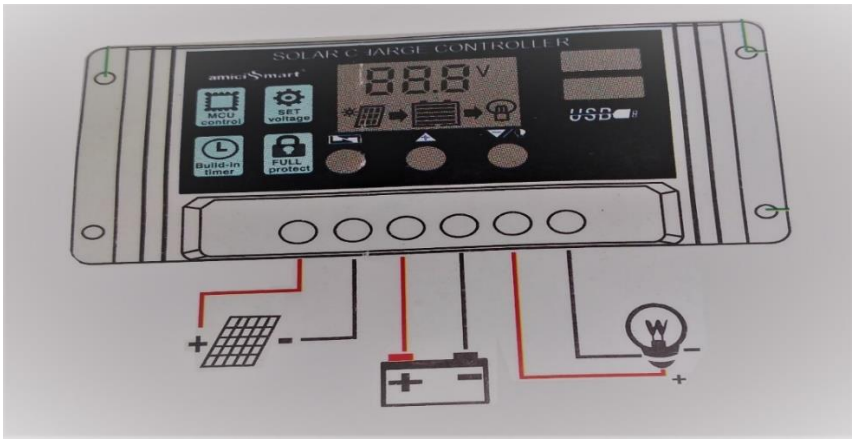
RF Remote Control:

Two Channels(buttons) provided.
A - Open- Close- Open Dual Gate / OPEN Command
B - Open – Close- Open Single gate/ CLOSE Command

Learning Remotes.:
Press LEARN button on the Remote Receiver Board once. Its LED lit.
Keep pressing a button on the RF Remote.
Receiver LED blinks 3 Times and is learnt. Repeat for other remotes.

Erasing the RF Remote:
Press LEARN Button on the RF Receiver 8 times. Then LED blinks several times. Now the RF Remote is erased.
Battery in the RF Remote has an estimated life of 12 months. Replace both, if necessary.(CR2016)

SOLAR Back Up:



Components:

1. PWM SOLAR CONTROLLER 24V/ 10Amp
2. 2 Nos of Solid Battery 12V /7AH, connected in Series.
3. 2Nos of 12V /10W Solar Panel connected in Series.

Controller is set to factory default settings.

Frequently Asked Questions.

1	Gate is not opening/ closing full	Grease the gate Hinges. Check the stability of mounting Clamps
2	Remote control not responding	Check for light in the remote. If mild replace the battery on the Remote- 12v alkaline. The life of the battery is expected to be one year.
3	Gate not responding to remote/ manual switch	Check Power and battery connection and condition. Call service
4	Any maintenance required	No, except keep the hinges clean and frequently lubricate.
5	No Response from System	This could be due to power /battery failure or Machine damage. Un- clutch both Motor Arm as shown in picture above. Release the EM Lock with the attached keys. Slowly move both gates manually open. Call for service.

Periodic Maintenance:

Keep EM Lock / Lock Base and hinges out of dust and keep the hinges lubricated.

Check the stability of the Motor Arm mounting Clamps.

Check the connection cables soundness.

WARRANTY

Scope & Limitts

INTERGLIDE offers following warranty in respect of AUTOMATION SYSTEM supplied by us.
Every possible care and precaution have been taken to ensure quality in respect of the material and workmanship of the system supplied by us.

INTERGLIDE warrants the original purchaser of AUTO GATE SYSTEM for a period of

1	2	3

Years from the date of purchase, the product shall be free of defects in material and workmanship under normal use.
During the warranty period INTERGLIDE shall, as its option repair or replace any defective part / product at your site, free of any charge.

No claim for repair will be entertained, unless the customer produces original OWNER's MANUAL
Warranty is not applicable in situation where

Unauthorized repair/replacement has been carried out
Shifting / reinstallation of the system
Damage due to mishandling or no proper maintenance.
Periodic maintenance not taken care.

WARNING: Auto Gate System cannot prevent burglary. It is a supporting security system at your easy reach.

Name of Customer Address & Ph No	
Bill No & Date of Purchase	
Machine Model	

Seal Sig



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