



AUTOGARDNER™

Contribution Towards nature

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AUTOGARDNER™

www.autogardner.in

INDIA'S FIRST HOME DRIP IRRIGATION SOLUTION



USER MANUAL

DRIP LINE INSTALLATION GUIDELINE

We reuse the packing material-whenever possible to reduce waste, without effecting quality of the device been delivered.

- Our vision is to “contribute towards the nature”

USER MANUAL/GUIDE

- Drip Line installation Guide
- Autogardner Smart Timer Configuration
- Autogardner WiFi Timer Configuration setting
- Solar Panel Mounting guide.
- Solar panel technical specs
- Solar panel charging specs & maintenance
- Moisture sensor installation guide
- Moisture sensor setting guide

[Visit: www.autogardner./demo](http://www.autogardner./demo)

For demo video on Smart timer, WiFi Timer, Home drip Irrigation installation details video Tutorials.



HOME DRIP LINE INSTALLTION GUIDELINE

This installation guide is centric to the Bundled solutions suitable for home garden/Lawn/Nursery aligned to the device capacity to handle Water Pressure and flow.

PLAN STEP 1

Planning process to understand the total content required for your him automatic water irrigation system setup.

COLLECT STEP 2

Order for the Suitable Autogardner variant suitable for your need Or collect the Autogardner package and lay down the components .

PREPARE STEP 3

Prepare Assembly and Connect All the component required as per your lay down plan .

DEVICE STEP 4

Install the device firmly and connect water in and water output to the device.

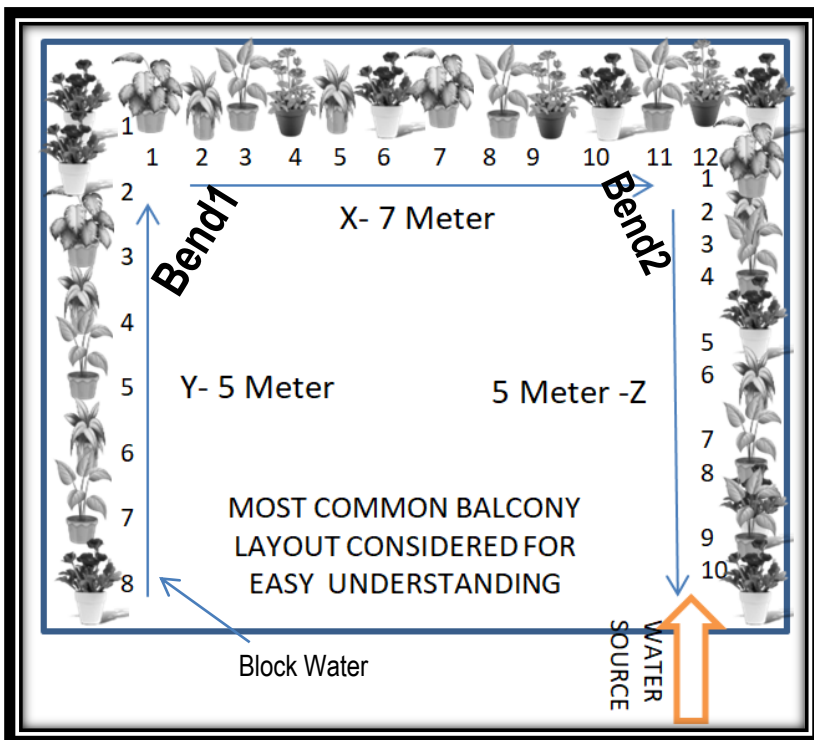
ON STEP 5

TURN ON THE DEVICE, RECONFIGURE TIMER, IF REQUIRED.

**We say it as 30 Mins 5 step Automatic Drip system installation.
Install once and let Autogardner work for you throughout an year and on...**



Scan to Visit or
[https://autogardner.in/
support-%26-video-
demo](https://autogardner.in/support-%26-video-demo)
Watch Demo video on
wifi setting



STEP 1: PLAN

1. Find the nature of your garden plant orientation, mark them X,Y,Z based on different orientation.
2. Count no of drip points or pot to be watered
 - a. X -12 Points/Pots
 - b. Y – 8 Points/Pots
 - c. Z- 10 Points/pots

TOTAL Points/Pots = 30
3. Measure the layout
 - a. Measure X – 7 Meter
 - b. Measure Y- 5Meter
 - c. Measure Z-5 Meter.

TOTAL LENGTH = 17 METER
4. No. of Bends in the Design – its 3 Qty + 1 At device Input + 1 Device OUTPUT.
5. Identify the Water Source near to which you need to place Autogardner device out of reach from children but easily accessible to individual adult.
6. Find the Length of electric wire required to extend from Point to device, FEMAL PLUG IS PROVIDED FOR YOU EASY CONNECTION.

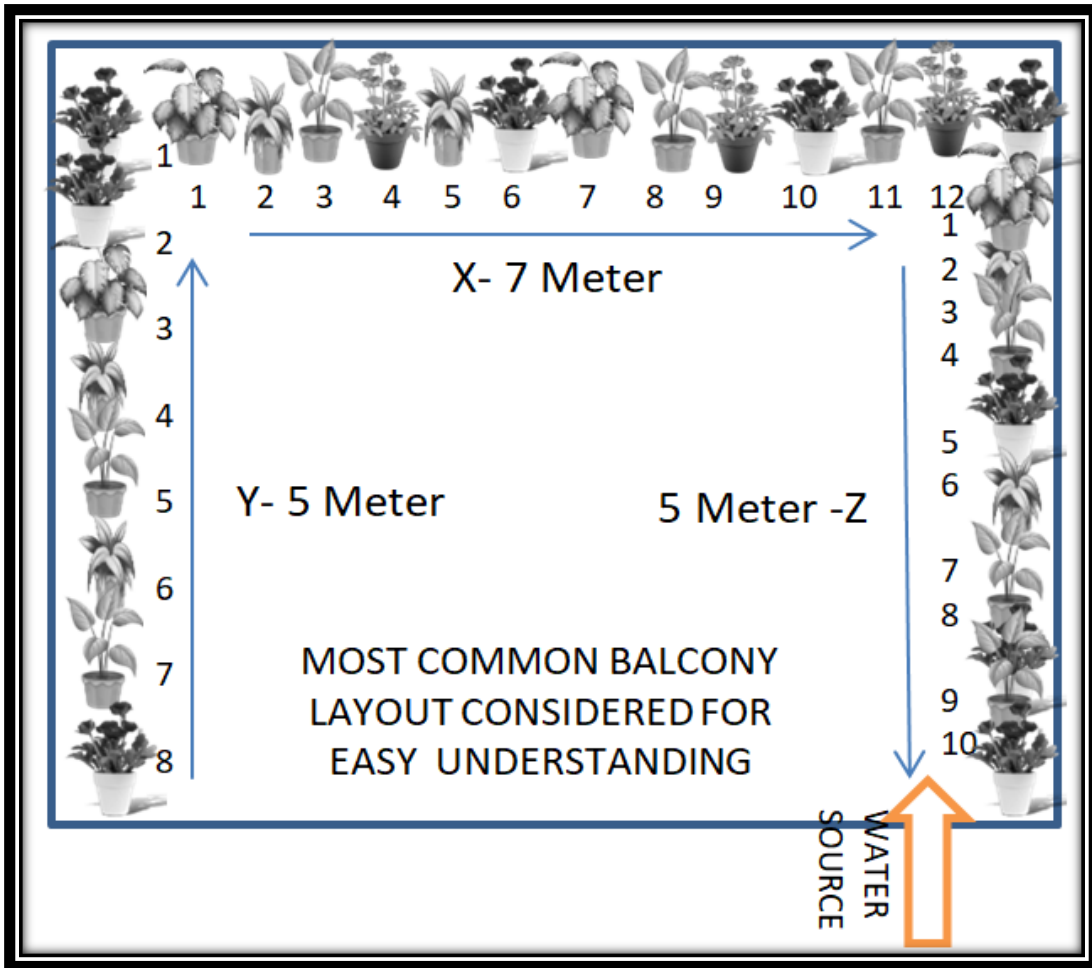
IMPORTAT INFORMATION OUT OF PLANNING:

1. TOTAL POINTS/DRIPS/POTS =30
2. TOTAL LENGTH OF DRIP LINE = 17 Meter
3. SOURCE WATER = NEAR (ELSE TO CONSIDER EXTRA METER)
4. NO OF BENT IN THE DRIP LINE = 5 BENTS
5. ELECTRIC SUPPLY WIRE REQUIRE = 3 Meter
6. Water Flow Rate at source = 45 LIT/Min Common household Flow
7. Block Water at end = 1 END CAP

IMPORTANT :

1. WATER OFF : KEEP THE WATER INPUT TO DEVICE ALWAYS OFF, SHALL BE TURNED ON ONLY AFTER COMPLETION OF THE DRIP LINE CONNECTION.

2. ELECTRIC SOURCE OFF:



STEP 2 : COLLECT



Scan to Visit or <https://autogardner.in/support-%26-vedio-demo>
 Watch Demo video on Drip Line Installation.

Use the outcome derived out of Step 1 (plan) to arrive at the Qty/no/length of components required for laying down your drip irrigation line at home.

OUTCOME FROM STEP:1	TO COLLECT
1.TOTAL POINTS/DRIPS/POTS =30	Req 30 drippers
1.TOTAL LENGTH OF DRIP LINE = 17 Meter	Require 17-20 Meter of Pipe
1.SOURCE WATER = NEAR (ELSE TO CONSIDER EXTRA METER)	-
1.NO OF BENT IN THE DRIP LINE = 5 BENTS	5 Elbow Joints
1.ELECTRIC SUPPLY WIRE REQUIRE = 3 Meter	3 meter of wire
1.Water Flow Rate at source = 450 Lt/Hr Common household Flow	AUTOGARDNER DEVICE TO CONTROL WATER FLOW

As you need to Drip layout for 30 pants with Water source flowrate of 450 Liter the best choice Of AUTOGARDNER DEVICE VARIANT WILL BE.

AUTOGARDNER 55 (Smart Timer) **AUTOGARDNER 55 (Intelligent Wifi)**

Which will cover all the components for your hassle free home drip irrigation kit as per your need. ⁵



STEP 3 : PREPARE

1. Cut The pipe as per X , Y & Z length.

2. Mark holes to be made along The X, Y , Z Pipe usually if Plant container is staked touching reach other need hole to be placed at distance of 12" . (USING HOLE PUNCH) Provided Hole Punch is Offer 4MM size of hole which is exactly compatible for dripper to offer leak free tight dripper installation.

3. Mark holes to be made along The X, Y , Z Pipe. (USING HOLE PUNCH) Provided Hole Punch is Offer 4MM size of hole which is exactly compatible for dripper to offer leak free tight dripper installation.

YELLOW LINE- MARKED ON TH PIPE IS TO ACHIEVE LINER HOLES ACROSS THE LENTH OF THE PIPE TO HAVE RIGHT ORIENTED DRIPPER FACE TO ADJUST IT AT REQUIRED POINT.

3. Install Dripper in each Holes.

- Dripper allows you to control each individual water flow by tightening or untightening the cap based on your particular point or plant requirement.

4. Position the Pipes prepared by you with dripper attached to it over the length of pots.

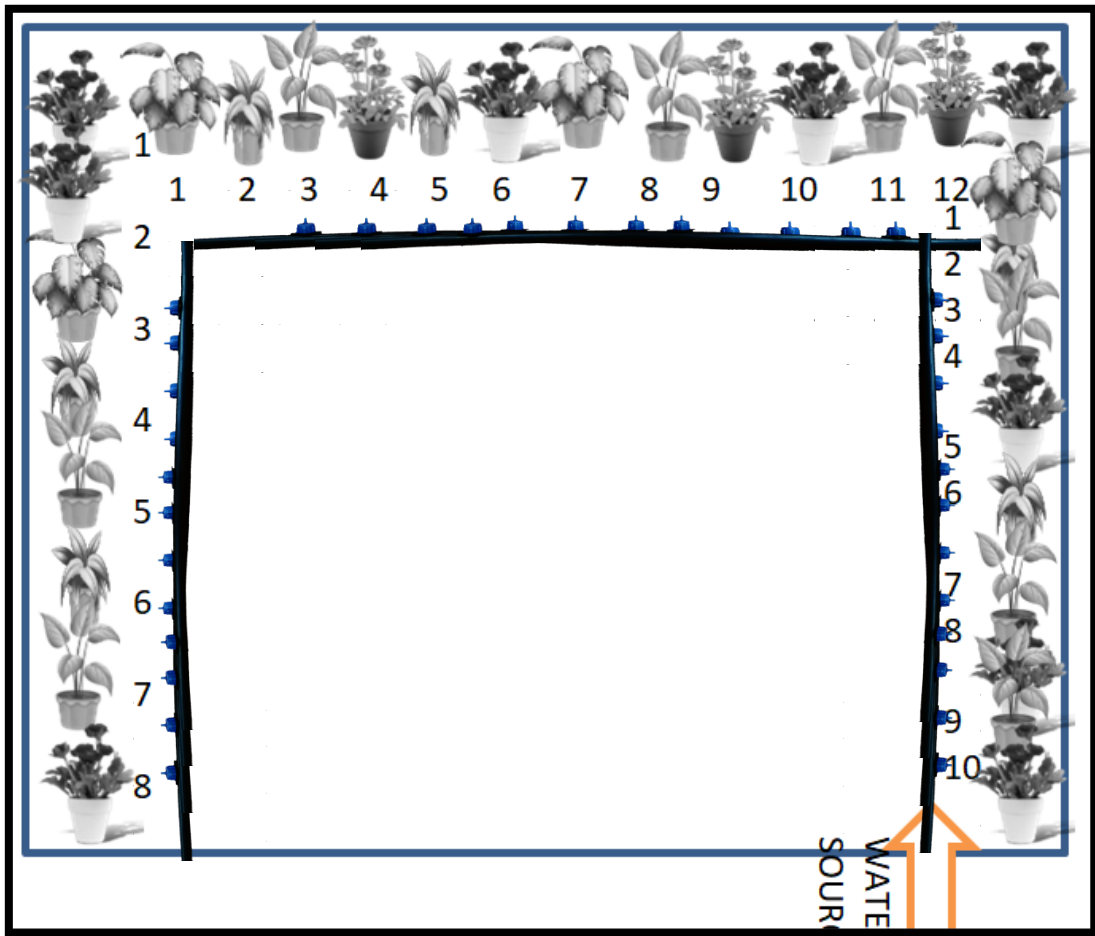
5. Connect X,Y,Z Pipe with elbows. And end cap at the end of the pipe.

6. Install end of the pipe with end CAP or with ON/OFF valve for its maintenance or water flushing purpose.

Scan to Visit or <https://autogardner.in/support-%26-vedio-demo>

Watch Demo video on Drip Line Installation.





PLACE THE PIPE LINE LIKE THIS FOR EASY MAINTANCE OR REPAIR OR ACCESIBLE TO QUICK REMOVE BLOCAKGE AT ANY DRIP POINT

Scan to Visit or <https://autogardner.in/support-%26-vedio-demo>
Watch Demo video on Drip Line Installation.



STEP 4 : Device



DEVICE INPUT AND OUTPUT PORT PREPARATION



Best Position of mounting, Permanently



Finalizing the connections

1. Place ON/OFF TAP COCK or Tap for its easy control during disconnection of the water supply or during the maintenance.
2. Place ON/OFF COCK or Tap for its easy control during disconnection of the water supply or during the maintenance.
3. Finalize the location where you want to install

IMPORTANT: Autogardner Timer variant are preprogrammed to you before dispatch.

- 7AM (ON) & 7:005AM(OFF)
- 4PM(ON) & 4:05PM (OFF)

You must reconfigure the timer based on your need and in case of wrong time you must reset , set clock and set timer before its use.

4. **AUTOGARDNER DEVICE. (ITS WATER SPLASH RESITANT NOT WATERPROOF).**
 - AWAY FROM DIRECT RAIN
 - AWAY FROM DIRECT SUN FOR EASY ACCESEBILITY
 - FIRMLY MOUNTED.
 - IF NOT MOUNTED AND KEPT ON GROUND TO BE COVERED AND PRALLEL TO THE GROUND.
5. Connect Water pipe line to WATER INPUT AND WATER OUT PORT.
6. Connect Electric connection.

STEP 5 : TURN ON

Test it, Press manual button to display “ON” on the screen , RED LED flashes and water flows, check all the dripper for its output.

KEEP LOOK ONCE/MONTH FOR ANY BLACKAGES AT ANY PARTICULAR DRIP. IF SO UNPLUG & REINSTALL.

REFERE OUR DRIP LINE MAINTANACE MANUAL FOR YOUR SYSTEM MAINTANCE IF THE SOURCSE WATER HIS HARD MORE THAN 400 PPM or HAVE HIGH LEVE OF SOLID PARTICLE.

Scan to Visit or
<https://autogardner.in/support-%26-vedio-demo>

Watch Demo video on Drip Line Installation.



SOLAR MOISTURE VARIANT



ELECTRIC MOISTURE VARIANT



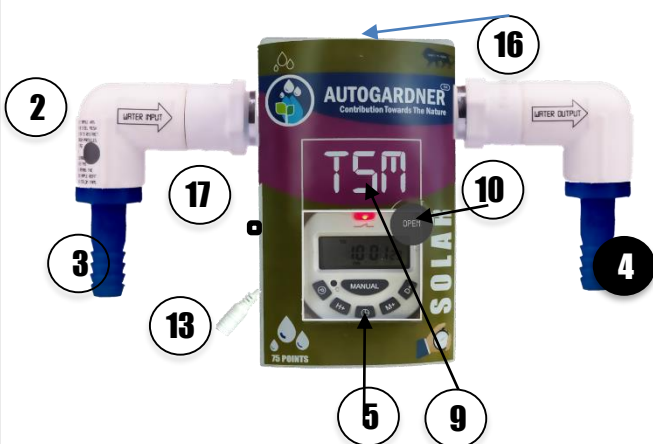
SOLAR WiFi VARIANT



ELECTRIC WiFi VARIANT



SOLAR TIMER VARIANT

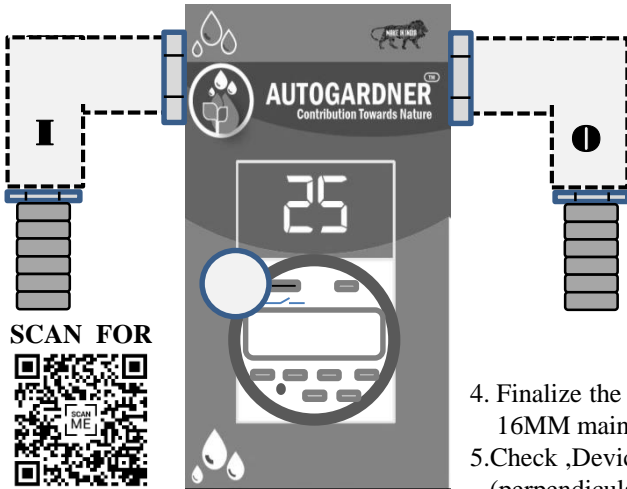


ELECTRIC TIMER VARIANT



- | | |
|---|---|
| 1. Electric 2 Pin Power Input (220V AC) | 10. Openable window access wifi/timer |
| 2. 0.45 Micron filter inside Input port | 11. LED-RED-SYSTEM IS ON (ALWAYS ON) |
| 3. ½" 16MM Diameter Water Input Port | 12. BLUE-YELLOW- Glows when watering |
| 4. ½" 16MM Diameter Drip Water Output | 13. Solar/Charger Port to Connect solar/Charger |
| 5. Device Timer Pane | 14. Moisture Sensor Port- Connector Probe |
| 6. Device Wifi Panel | 15. Wifi Button to Pair/Override |
| 7. Moisture Level Sensor Adjusted Knob | 16. Charging indicator(RED-50-80%)(BLUE-FULL) |
| 8. YELLOW WIFI LED-INDICATOR | 17. POWER BUTTON- TURN DEVICE ON |
| 9. 9. RED-TIMER GLOW DURING OPERATION | |

It needs one time installation, Dedicate 1-2 Hrs. for proper installation with Drip ports



SCAN FOR



- AUTOGARDNER Timer setting
- Autogardner Drip line installation.
- Maintenance Tips
- WWW.AUTOGARDNER.IN/DEMO

1. Configure the timer (Timer is equipped with self rechargeable battery) please refer below for timer configuration. NEVER FAIL)

AUTOGARDNER FACTORY DEFAULT CONFIGURATION

	TURN ON	TUN OFF
DAILY @		
1 Configuration	7:00 AM	7:05 AM
2 Configuration	4:00 PM	4:05PM

2. Finalize the location, you want to position the Autogardner.

- Firmly attract with provided screws

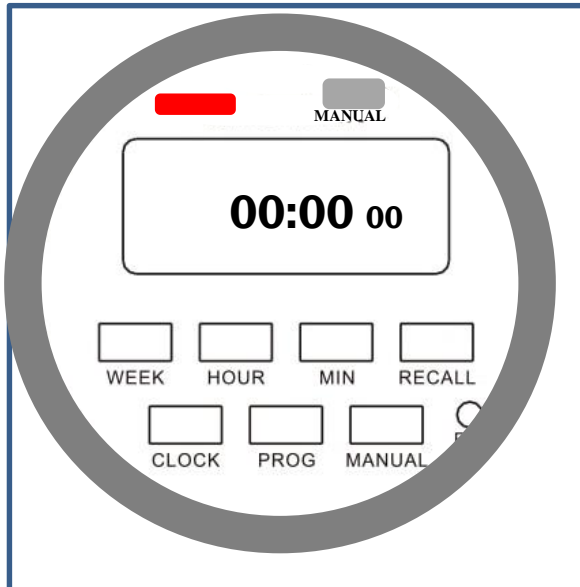
3. Finalize the electric point, to connect with Autogardner.

- Connect male plug provided with required of length. wire to connect with Device Female Plug.

4. Finalize the location of Water INPUT. (Put Waterline OFF) Use provided 16MM main pipe to connect it to Water Inlet.

5. Check ,Device should be Firmly installed and should have no movement. (perpendicular/Parallel to Ground).

6. Lay Down water line Plan with provided High Quality drip accessories specially made plastic composition for long life, lower bacteria formation resulting no clogging because of still water. (refer Drip Line manual for detail instruction)



THERE ARE 2 DIFFERENT TYPE OF TIMER USED BASED ON THE AVILABILITY ,FITMENT &PERFORMANCE

AUTOGARDNER , 7-day timer is accurate to the minute, signed with Control-Logic by 6 or 8 ON/OFF(event) per day

Also ,it provides 15-combination of Daily-Programs leads great convenience to users, in use of Timer on programming it to their demands to desired DAYS of WEEK.

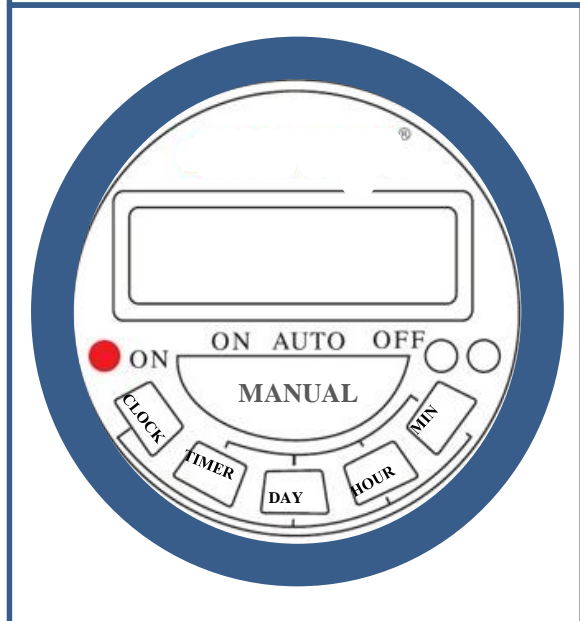
Start to use Timer – Press **P** key to reset Timer before using **RUBBER KEY's functional description TIMER** : Programs review & setting programs **MANUAL** : To select “ **ON** , **AUTO** or **OFF**” **CLOCK** : To adjust current DAY and TIME **Day** : To adjust day of week **HOUR** : To adjust Hour **MIN** : To adjust minute **P** : Reset timer's setting **LED** : To indicate ON/OFF status

SET CLOCK: Press and hold **CLOCK** key and then press **DAY** key, **HOUR** key, **MIN** key respectively to adjust clock of Timer to current DATE, HOUR, MINUTE.

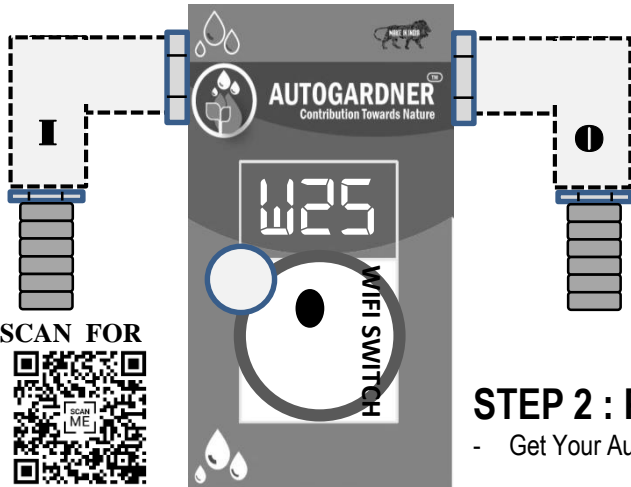
In 12-Hour-Format, **PM** & **AM** shall appear on LCD screen. In 24-Hour-Format LCD screen shall indicate 0:00 ~23:59

STEPS TO PROGRAM YOUR AUTOGARDNER:

1. Press **TIMER/P** key. LCD screen shall show ON
2. Press **DAY** key to select any of 15-combination of Daily-Programs to your application demand. Continuing to press **DAY** key, LCD shall alternating indicate among 15-combinations.
3. Press **HOUR** key , **MIN** key respectively to set desired HOUR and MINUTE for 1^{ON}
4. Press **TIMER/P** key again, after finished setting of 1^{ON} , . LCD screen shall show OFF.
5. Press **DAY** key to select any of 15-combination of Daily-Programs to your application demand. Continuing to press **DAY** key, LCD shall alternating indicate among 15-combinations.
6. Press **HOUR** key, **MIN** key to set desired HOUR and MINUTE for 1^{OFF}
7. When finished setting 1^{OFF} , Press **TIMER/P** key,
8. Repeat procedure stated on 1 ~ 6 to complete rest of ON/OFF program-period(event), or just to the desired number of ON/OFF (event) setting for demand of practicable application.
9. When finished program-setting(event),press **CLOCK** key, Timer shall start to execute programs.



It needs one time installation, Dedicate 1-2 Hrs. for proper installation with Drip ports



SCAN FOR



STEP 1: INSTALL THE APP



APP NAME:
eWeLINK



STEP 2 : PREPARE

- Get Your Autogardner connected to electricity power.
 - **Wifi Router or Mobile 1** with internet Hotspot 9Make a note of (SSID & Password)
 -
 - **Mobile 2** (android/ios) :- on which you need the Autogardner Control.
- **AUTOGARDNER** Timer setting
 - **Autogardner** Drip line installation.
 - **Maintenance** Tips
 - **WWW.AUTOGARDNER.IN/DEMO**

STEP 2 : Pair & Connect

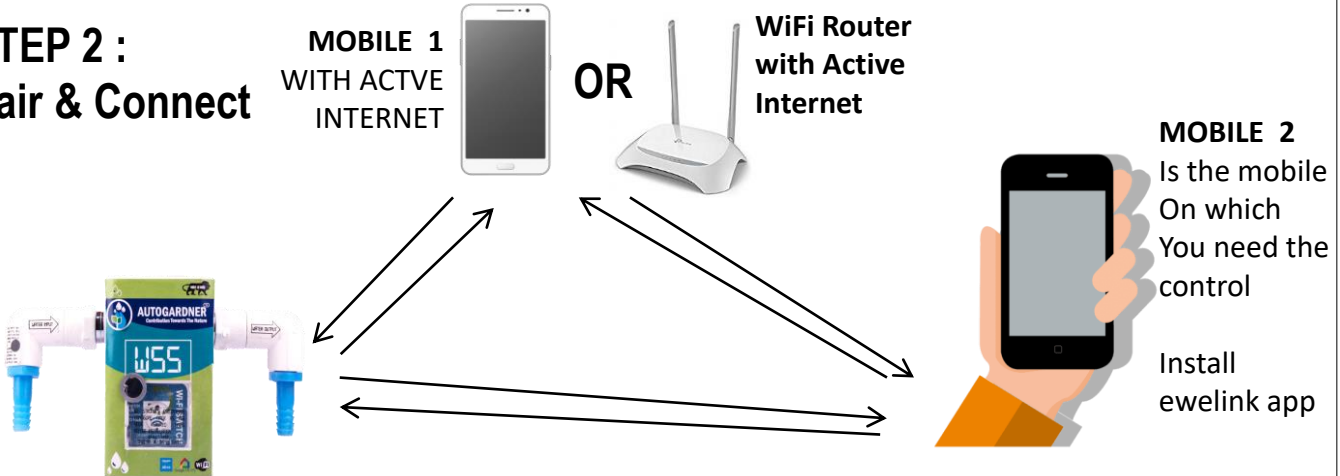
MOBILE 1
WITH ACTIVE
INTERNET

OR

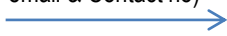
WiFi Router
with Active
Internet

MOBILE 2
Is the mobile
On which
You need the
control

Install
ewelink app



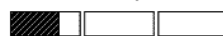
**YOUR AUTOGARDNER & MOBILE 2 MUST CONNECT TO THE SAME WIFI/INTERNET NETWORK.
AUTOGARDNER CAN NOT BE PROGRAMMED BY DIRECTMOBILE HOTSPOT.**

1. Power up your **AUTOGARDNER DEVICE**.
2. Press the tiny button on Autogardner **device for 7 seconds** until the green LED blinks like this: blinks 3 times and on repeatedly. (mean now Autogardner in in pairing mode).
3. Open eWeLink app on Mobile 2 (register account with your email & Contact no)
4. Please click the **"Add"** icon on eWeLink to search device. 
 - For Android, please select the 1st icon, click next.
 - For iOS, you will see two pairing method icons to select. Please select the corresponding icon, then click next.
 - The App will auto-search the device.
5. Input your home SSID & password
If no password, keep it blank.
Now Autogardner eWeLink app only support 2.4G WiFi communication protocol, 5G-WiFi is not supported.
6. Next, the device will be registered by eWeLink and add it to your account it takes 1-3 minutes.
7. Name the device to complete.
8. Maybe the device is "Offline" on eWeLink, for the device needs 1 minute to connect to your router and server. When the green LED on, the device is "Online", if eWeLink shows still "Offline", please close eWeLink and re-open.

IMPORTANT : AT THIS STAGE
Keeping you Mobile Connected to
wifi network.

Turn Off: Mobile Data
Turn On : GPS LOCATION/ALLO
ACCESS the app for Location

It takes 3 minutes , please wait...

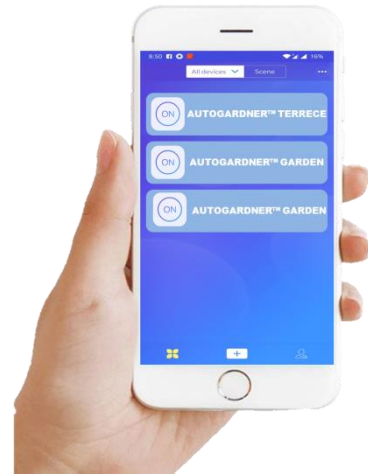
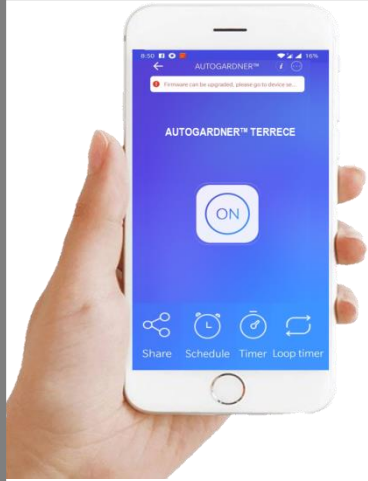


searching device...

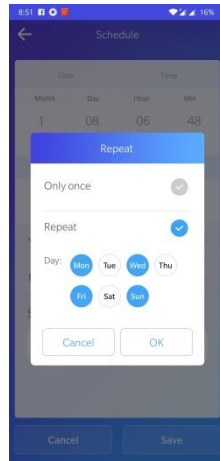
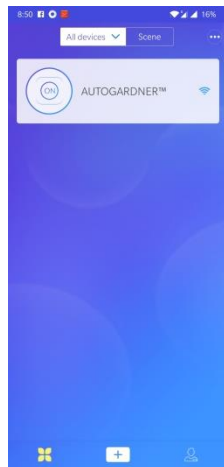


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[https://autogardner.in/suppo
rt-%26-vedio-demo](https://autogardner.in/support-%26-vedio-demo)
Watch Demo video on wifi
setting

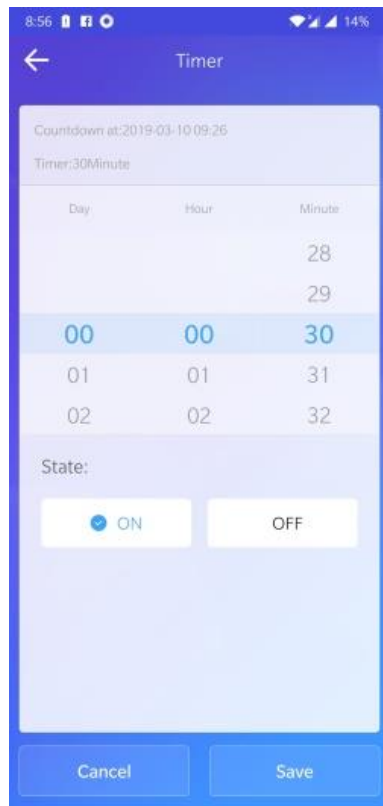
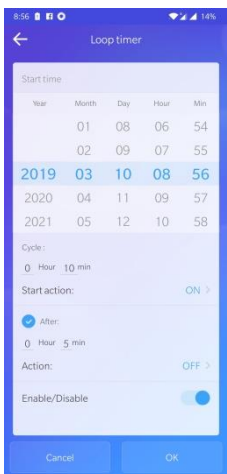
You Can directly ON/OFF Autogardner to water your plant from Mobile app (Device need to relate to internet) for this operation



You can Schedule Timer for automatic operation on your Autogardner device via mobile app.



- Timer Loop.
- Share control to you family member.



PLEASE NOTE, ONCE THE TIMER IS BEEN SET VIA INTERNET. After that regardless of your Autogardner device whether connected or disconnected to the internet. As far as it have power input – it will keep functioning asper set timing.

STEP 1:INSTALL DEVICE : Position the AUTOGARDNER device at the location.

STEP 2:SOLAR LOCATION : Locate the right place where you can place the solar Panel . The location should be facing to wards the sky/sun Without any obstruction/shade and enable MINIMUM 2-3 hours of direct sunlight on the Solar panel. Which ensure, By any scenario, if device is completely discharged, direct Sun radiation on panel for 2-3 Hrs. can charge the device from 0-75% and thus making it ready for its new set timer to service.

STEP 3:MAKE CONNECTION : After locating the solar panel, neatly and firmly route the solar wire till the LOCATION where you have located/ planned to locate the Device. Connect the port.

SOLAR PANEL CAPACITY FOR DEFFERENT VARIANT OF AUTOGARDNER

AUTOGARDNER	Panel (Watt)	Full Charge Time@ 0.6 AMP	Device full discharge time @ 100% battery
E55,M55,T3L,W3L	6W	5	30 Mins
E75,M75,T5M,W5M	9W	4	45 Mins
E100,M100, T1H,W1H	12W	3	60 Mins

SOLAR EFFICIENCY

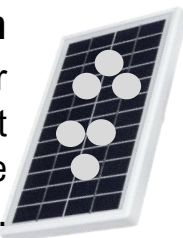
Assuming battery is 0		Considering, Panel is mounted with min Direct sun radiation for 3-4 Hours		
AUTOGARDNER	Panel (Waat)	Summers	Rainy	Cloudy
E55,M55,T3L,W3L	6W	4-5 hrs	15-20 (medium rain)	8-12hrs
E75,M75,T5M,W5M	9W	3-4 Hrs	10-12 (Medium rain)	10-8 Hrs
E100,M100, T1H,W1H	12W	2.5-3 Hrs	8-10 (Medium rain)	6-8 Hrs

Lithium Ion battery life (High Density, SAMSUNG OR RIVERA, BIS. Approved battery are used)

Battery capacity	1st Year	2nd year	3rd year	4th year	5th year
Holds 1 Hours of service	100% Life	95% = 57 Mins	90% = 50 Mins	80% = 45 Mins	80% = 45 Mins

SOLAR EFFICIENCY

Clean the solar plan surface every month or when you observe , dirt and solid partial on the solar panel surface. Cleaner the surface, efficient power generation.



CHARGER

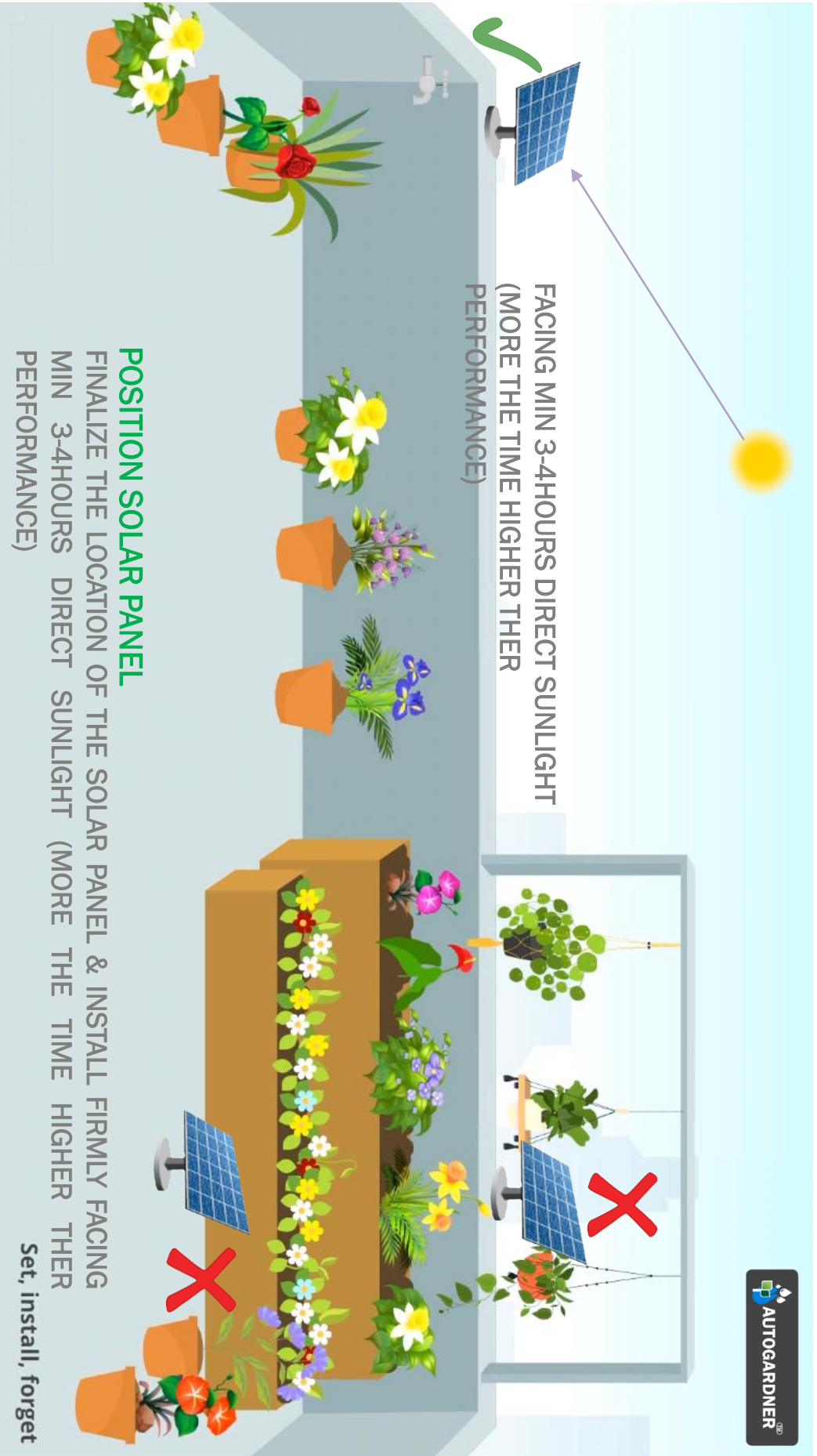
CHARGE at 1st time, to full, till the LED GLOWS BLUE ON THE DEVICE.

rated for Fast charging , 3-4 Hour for full charge. In any situation during rainy, when device is not in used or used rarely, charge using charger to full to start using it for your service.



IMPRTANT NOTE : 1. Plan to keep the distance from solar to device as less as possible. 2.IN case, you want to increase the solar panel wire more than the actual provided (10-12M), please contact us, as we use special core wire which has negligible loss for efficient charging. 3.Try to route the solar wire across no rainy area and any open connection to be waterproofed.

It needs one-time installation, choosing right place for efficient performance



FACING MIN 3-4HOURS DIRECT SUNLIGHT
(MORE THE TIME HIGHER THER
PERFORMANCE)

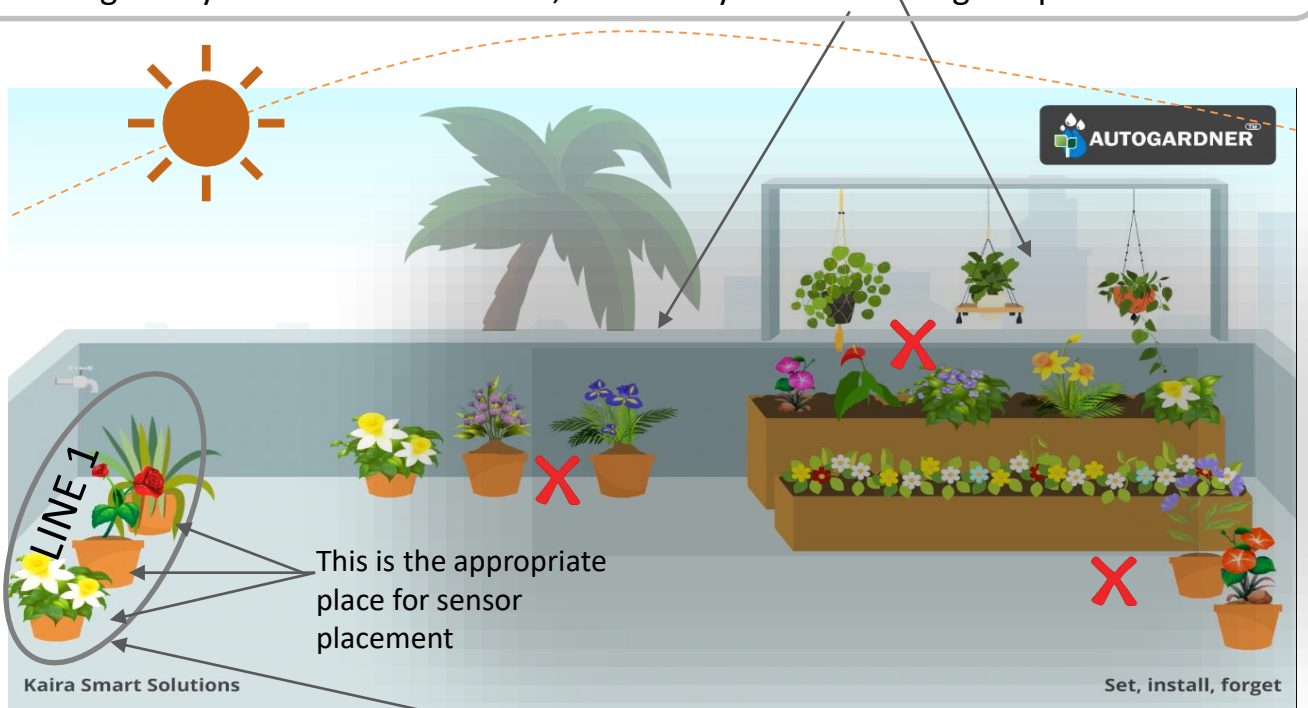
POSITION SOLAR PANEL
FINALIZE THE LOCATION OF THE SOLAR PANEL & INSTALL FIRMLY FACING
MIN 3-4HOURS DIRECT SUNLIGHT (MORE THE TIME HIGHER THER
PERFORMANCE)

Set, install, forget

STEP 1: INSTALL DEVICE : Position the AUTOGARDNER device firmly..

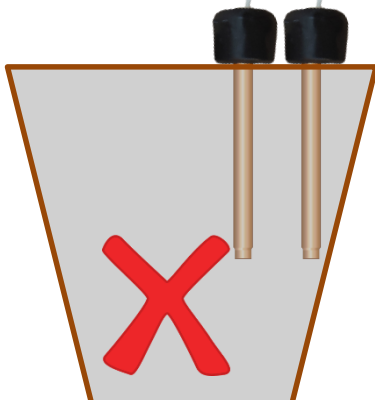
STEP 2: CHOOSING THE RIGHT POT /AREA TO INSERT SENSOR PROBE - Find the right Pot/Area/location, which dries quickly/First as compared to other pots/area. (IF YOU INSERT THE SENSOR IN THE AREA/pot OF WHICH THE SOIL DRIES SLOW-Than the POT which dries quickly will get water late.

These are having some or other obstacles in receiving the sun radiation, and hence soil loses its moisture SLOWER THAN THE pots in LINE 1 , if you place sensor in this pot. It take long to dry and hence water late , which may effect watering the pots in LINE 1 late.

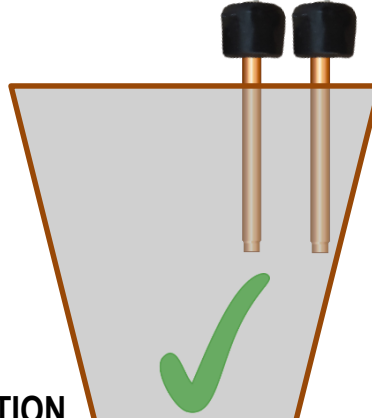


These pots/soil will dry first as compared to other pots As there will be cont. sun radiation falling on the soil having no obstruction of shade which decrease the rate of dropping/loosing soil moisture in the pot.

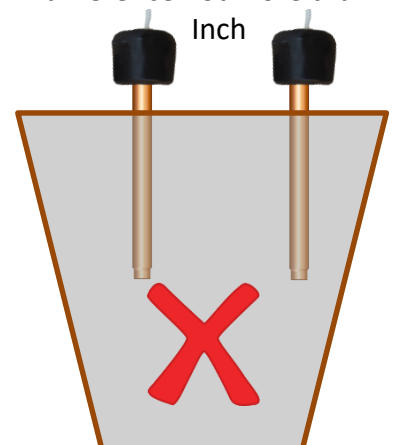
Keep very small portion of copper probe outside the soil



PERFECT : INSTALLATION, SMALL PORTION OF COPPER IS OUT AND ARE PLACED CLOSE TO EACH OTHER



Sensor should be place close, difference not more than 1 Inch



STEP 3: SENSOR PROBE INSERTION

STEP 1:

Mount Device firmly on its location, connect the Power Cable /Solar Panel Port to the device Port



After turning the power ON/connecting the solar port, push the button side and system will on & RED INDICATOR GLOW. This red indicator will always be on as far as the device is ON.

STEP 2:

Connect the MOISTURE sensor probe port.



STEP 3:

Keep the probe UNTOUCHED to each other away from water/moisture

STEP 4:

Rotate the knob , very slowly and stop at the movement when "Yellow/Blue" LED glows.



STEP 5:

TEST , TOUCH OR UNTOUCH PROBE TO OBSERVE BLUE LIGHT

STEP 6:

Insert Sensor probe firmly into the chosen POT/AREA, Soil should be 100% WET.

