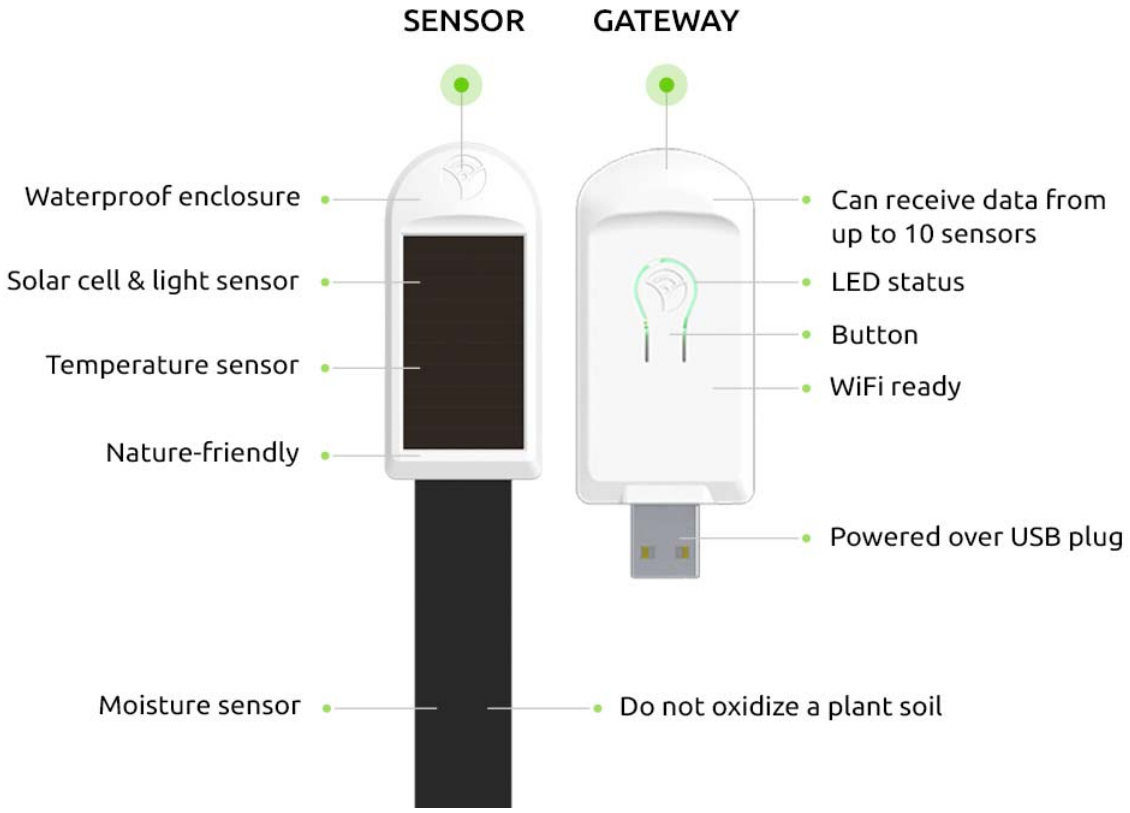
greensens

Manual: Smart plant sensor

Product description

Greensens smart plant sensor system can help you care your plant and flowers ease. Data bank incudes over 5500 plants unique habits, it can detect the light, temperature, moisture in real time, and show the data through connecting greensens App over Internet connection. System include smart plant sensor, gateway and free greensens Android/iOS App.



For data transfer plant sensors use gateway, which has WiFi connection and transfer data to the cloud. Gateway can manage data from **up to 10 sensors**. To

configure the system and register sensors you need to download the apps. Greensens provide Apps for 2 main smartphone systems: Android and iOS.

Main features:

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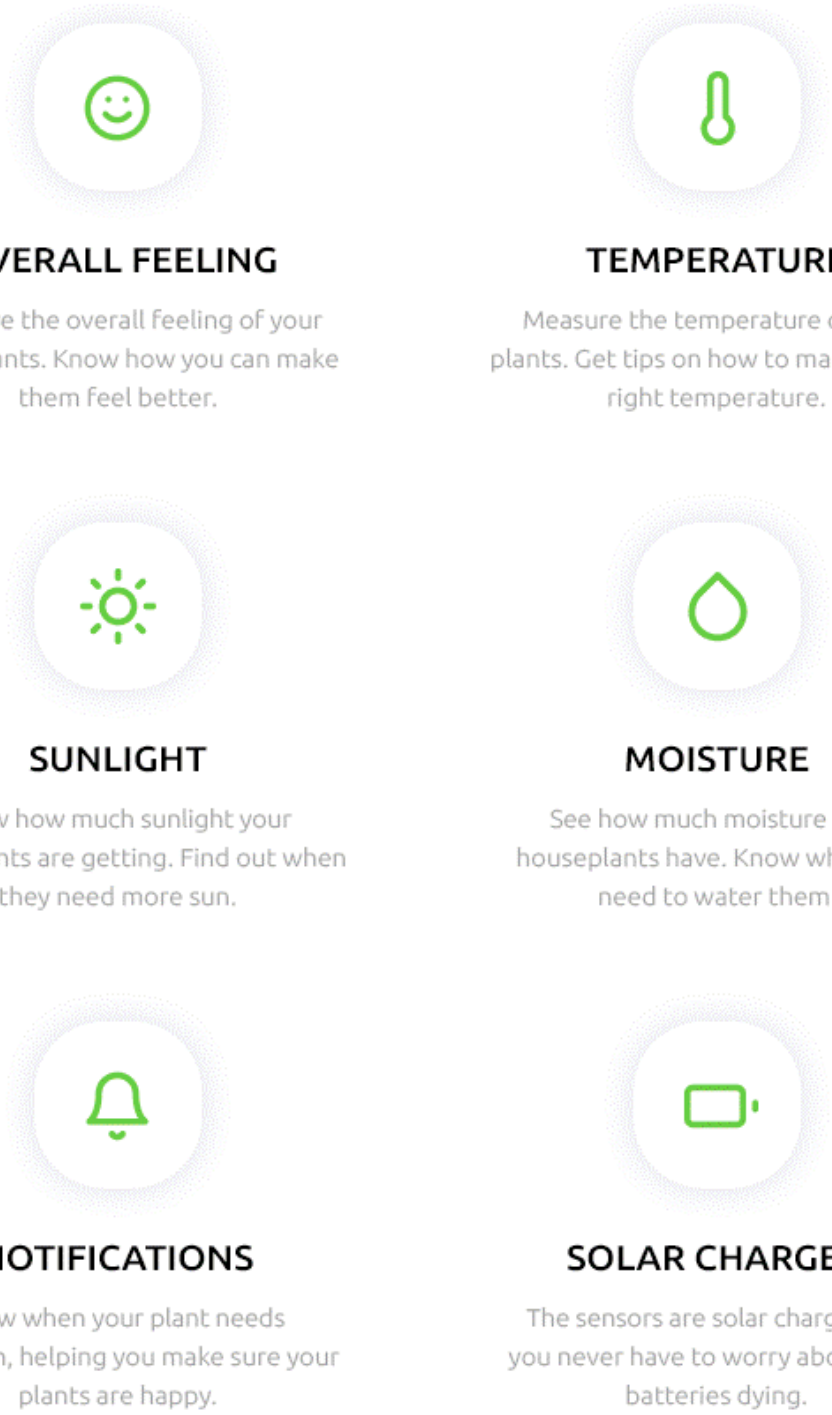

Pre-Install App:

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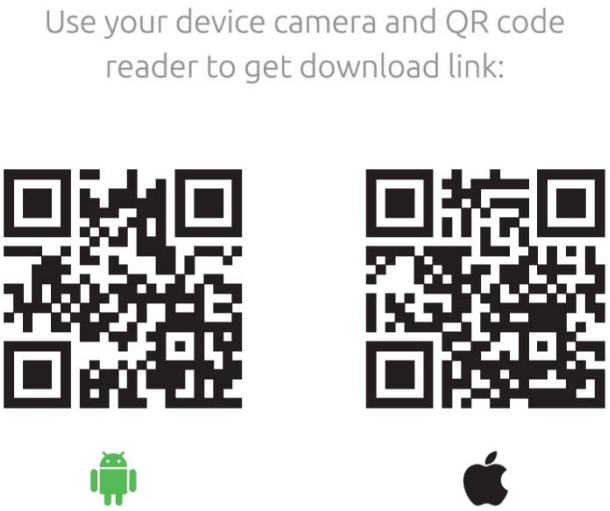
Below you can scan 2 QR-codes to download the App you need and start system configuration.



Alternate can go into Play Market (Android) or App Store (iOS) to download the Apps directly.

How to use:

1. Install greensens App to your smartphone, turn on WiFi and make sure your phone has internet connection over your mobile provider (3G,4G/LTE or 5G).

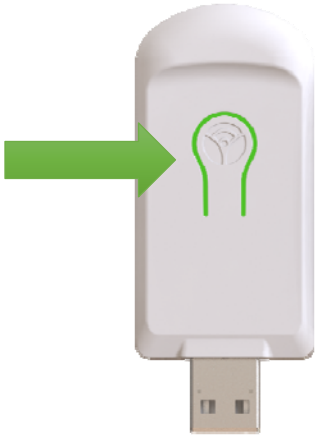
2. Inside the App create account and start configuration.

3. Gateway registration:

a. Power up your gateway from **permanent power source.** Gateway require continuous power supply, otherwise data from sensors will be lost. For this, you can use USB port on your WiFi router, USB wall socket adapter or something else.

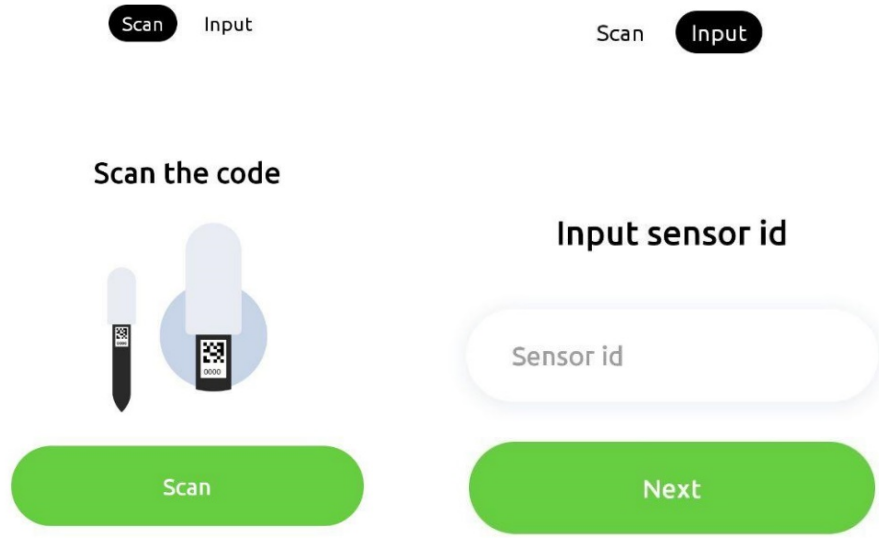
b. Then App will guide you through the steps of gateway registration. These steps include gateway name sign, search and select your WiFi network and final registration. After you successfully add your device you can got for sensors registration.

c. **Reset gateway setting**: Pull-off it from the power source -> push and hold the button -> pug it back into the power source -> release button.

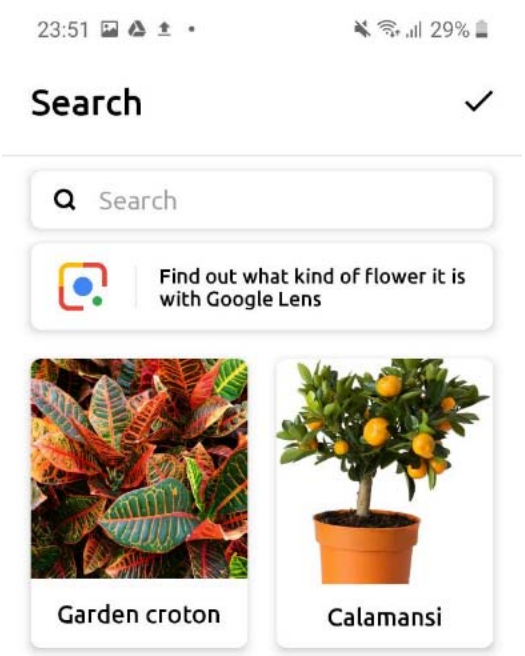


4. Sensor registration:

   a. At this very simple step, you need push button “Add new sensor” and scan, or enter manually, your sensor ID code on the backside of your sensor.



   b. Inside the next window, you can select your plant name. You can search for your plant inside the search window or just scroll down until you find a right one. If you do not know your plant name, you can use Google Lens application with image recognition function to find a right plant.



5. Sensor installation:
    a. After you successfully register your sensor, please put inside your plant pot, with solar cell **direction light source**. For each plant, you need one sensor.

    b. Sensor powered with solar cell, therefore it is very important to make sure that sensor has enough light. Please avoid sensors shading with leaves or any other obstacles. Like on the first plant (left on picture) you can tilt sensor a little back for the better light falling. About 10 – 15 degree will be enough.
    c. On the front side of sensor you find a line, which shows you where at least should top of the soil. If the sensor installed not deep enough this may lead to back soil moisture readings.

Notes:

1. Please make sure solar cell clean and has no damages.
2. Keep the surface of sensor clean before installing.
3. Stick sensor probe at least 7cm deep into the soil.
4. Sensor has certain water protection, but still do not pour water over the sensor.
5. Sensor design for indoor use, not for outdoor. In case of outdoor use warranty do not apply.
6. Depends on light conditions, sensor transfers data up to 24 times a day.
7. Please make sure your sensor has at least 500 lux light. Otherwise, it won't be able to send data. This is also a minimum light condition for many plants to survive.
8. If you use Android 10. Gateway registration might be refused, at first time, due to google restrictions, just repeat.
9. If you see accuracy problem with temperature value, please do calibration. This calibration will be saved until you delete sensor from gateway. If you just change the pant, temperature calibration remains.
10. If you don't see data from your sensor in the app:
    a. Check if your sensor has proper position to the light.
    b. If the distance not feather then 10m (line of sight).
    c. Check in the app dot in front of your gateway name: green = online, red = offline.
    d. If your gateway offline check your wifi internet connection and make sure it works stable.
11. Sensor enclosure is not fully water protected, only spray-water. Do not pour water over it.

WARNINGS:

FCC Warning Statement

- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.

  This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.