

Aranet Soil sensor overview



This sensor measures volumetric water content, dielectric permittivity, and soil temperature for horticulture and other applications.

Function

When attached to plant substrate*, this sensor:



Measures water content in the substrate.



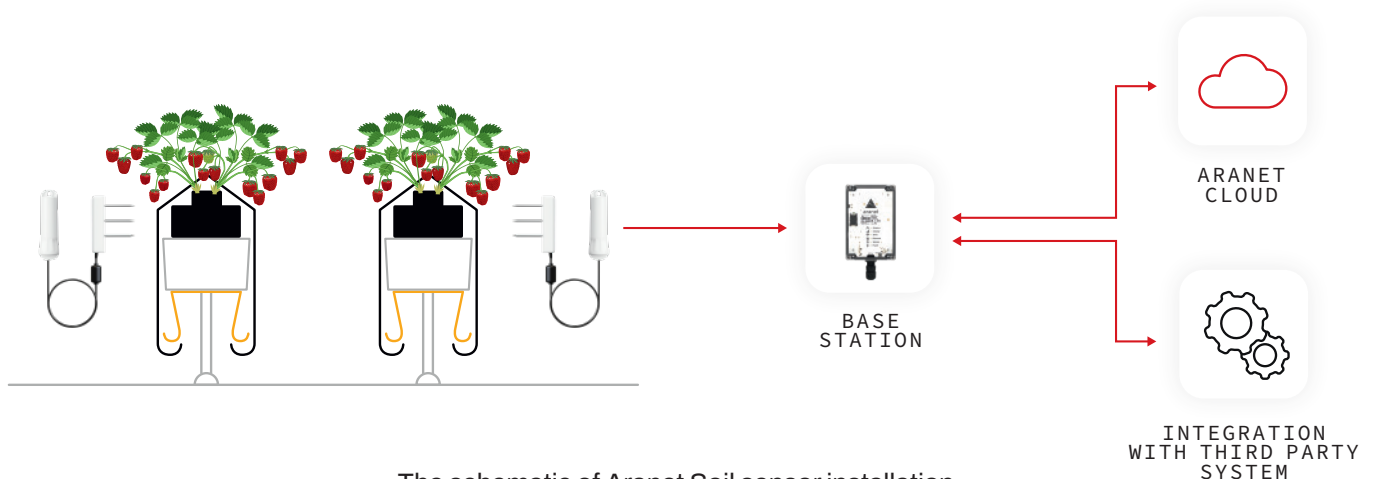
Monitors soil temperature for planting and seed germination.



Indicates optimal fertilizer nutrient levels via electrical conductivity.

Instructions

Insert sensor probes into the plant substrate* and observe the trend of the electric conductivity as one of the growth indicators. Ideally, use 3 – 5 sensors per irrigation valve.



Full automation routine

Aranet Soil sensors and climate computer optimize the usage of fertilizer, water irrigation system, and seed planting:

1. The Soil sensor network measures electric conductivity and water saturation.
2. Base station collects and stores measured data.
3. Access historic data from a base station locally or from Aranet cloud.
4. Evaluate data and let the climate computer adjust irrigation and fertilizer dosing.

*optimal probe placement depends on the type of the crop as well as substrate and is a subject to experimentation.