

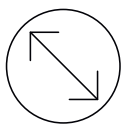
Aranet Stem diameter sensor overview



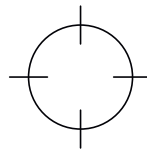
This sensor measures micro-variations in plant stem diameter for horticulture or other applications.

Function

When attached to the stem of a plant, this sensor:



Measures changes to the plant's stem diameter with μm precision.



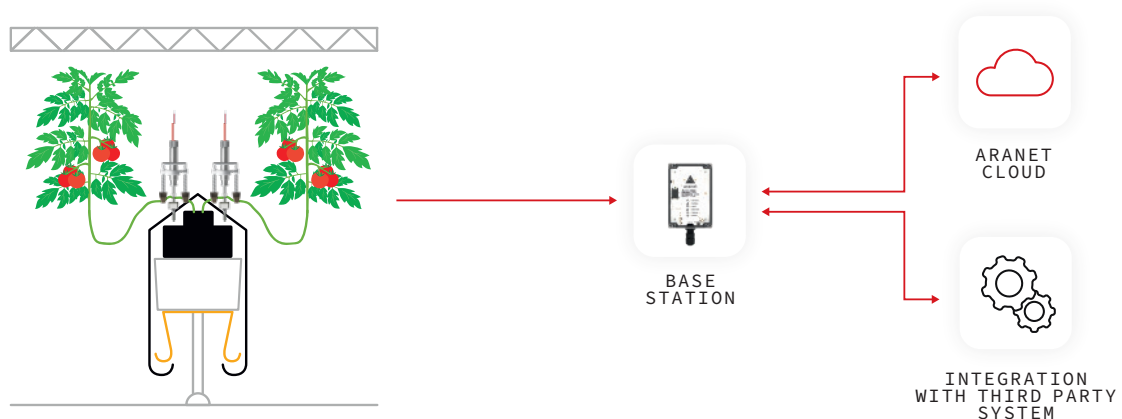
Detects plant behavior in response to growth factors.



Optimizes ventilation, light screening, and irrigation.

How to use stem diameter sensor

Attach the diameter sensor to the top and the base of the plant to determine factors related to growth. Use this data alongside other indicators to optimize growing conditions.



The schematic of Aranet Stem diameter sensor installation.

Full automation routine

Using Aranet Stem diameter sensors and climate computer optimizes water irrigation, ventilation, and light screening:

1. The Stem diameter sensor network measures the stem size.
2. Base station collects the measured data.
3. Access data from the base station locally or from Aranet cloud.
4. Evaluate the diameter size data and let the climate computer adjust irrigation, ventilation, and light conditions.