Weight sensor

50 kg and 100 kg

Continuous weight measurement using the Aranet Weight sensor enables real-time monitoring of various plant growth factors including biomass increase, plant weight, water addition, and drainage weight. Both the 50 kg and 100 kg versions operate wirelessly and are powered by a single AA battery. For more comprehensive insights, consider combining multiple weight sensors to detail processes within the greenhouse.

Features:

Continuous weight measurements

Wireless sensor

Battery life up to 9 years

The sensor provides accurate real-time data, eliminating the need to relocate objects or plants for weighing—objects can be suspended permanently. Weight measurements enable precise, long-term monitoring of growth progress up to harvest and provide feedback on how plants interact with their environment.

Use cases:

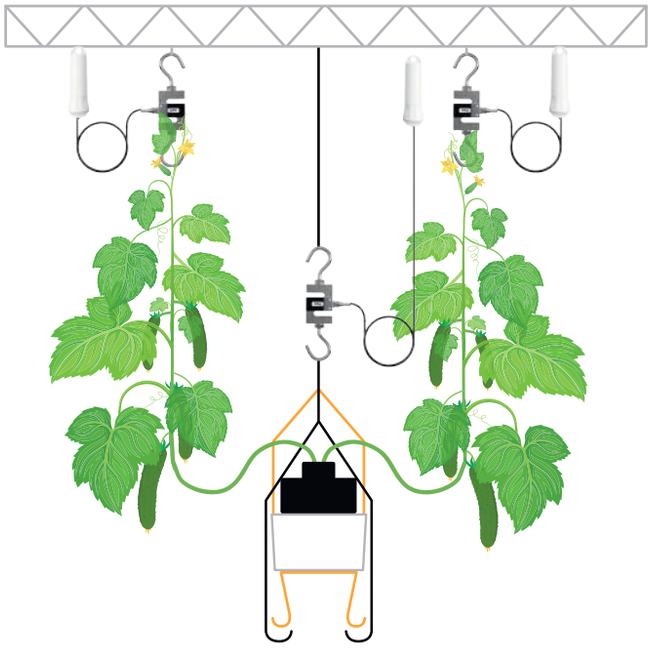
Measurements allow us to foresee problems, which can result in a slowdown in production and plant overload. Weight sensors can also be used to gain insights about fruit weight, evaluate average fruit growing days, and assess leaf weight on the plant. Data enables the analysis of biomass distribution by examining weight changes at fruit and leaf harvest, as well as tracking weekly yield and other parameters.

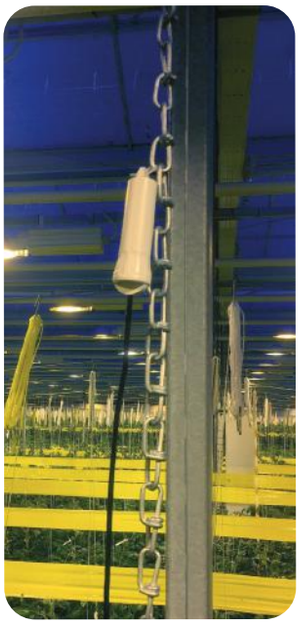
Combine multiple weight sensors and track weight for several parameters to obtain more detailed information about processes in the greenhouse. Aranet Cloud platform allows the creation of virtual sensors to calculate the difference or sums between the measurements.

Use insights of weight data to adjust greenhouse environment conditions and irrigation strategy.

Good practice recommendations:

To track biomass gain, fruit load, etc, install a Weight sensor directly at the truss.

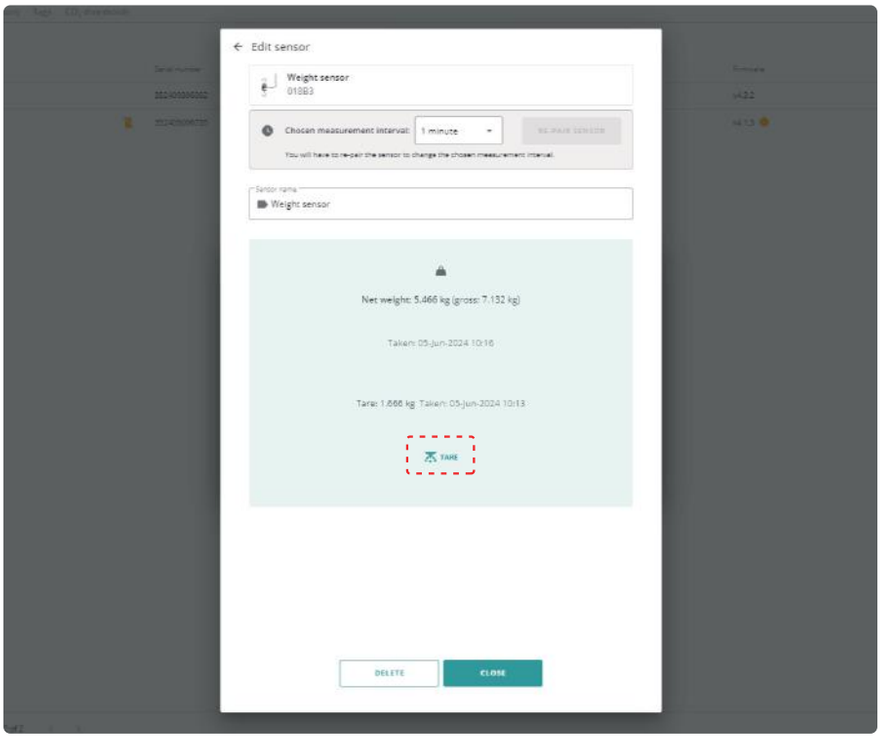




In case several weight sensors are used for more precise plant growth insights, feel free to create a frame with several weight sensors, as well as install the weight sensors for the whole plant section as a reference section for a greenhouse.

The large water content in plants and fruits is the primary factor contributing to the weakening of the radio signal if sensors or the base station are positioned too low. The sensor has an extended wire to a transmitter - position the transmitter (white body approximately one foot or 30 centimeters above the expected maximum height of the plants.

To tare the weight measurement, go to the base station management feature in the Aranet Cloud interface. Click on “Manage & Pair Sensors,” select your weight sensor, and then click on the TARE button.



Create virtual sensors to calculate averages, differences, sums, and other parameters across multiple weight sensors. To establish a virtual sensor, go to the Sensors section in the Cloud interface and select NEW VIRTUAL SENSOR in the Virtual Sensors sheet.