



PRIVA

>

Priva | Aranet Wireless sensors

Product Overview

priva.com/wireless-sensors

Discover all Wireless sensors

Wireless sensors give you the flexibility to place them in any location in your crop production facility. Whether to measure the microclimate around the top of your plants or around the fruits in the lower part, you are free to decide which additional data you want to obtain to gain more insight into the crop environment. Extra sensors enable you to identify anomalies quickly and tackle the cause immediately, without having to check everything yourself manually.

Base station



Priva | Aranet Base Station Pro 100

The base station is essential to collect the wireless sensor data. It allows easy data export for further analysis. The wireless sensors can be deployed within the line-of-sight range up to 3 km / 1.9 mi.

- Easy to add (pair) new sensors
- Min and Max notification thresholds for individual sensors and groups of sensors
- Choose sensor measurement interval (1, 2, 5 or 10 minutes)
- 100 sensors per base station, Priva Cloud solution unlimited

Climate sensors



Priva | Aranet T/RH sensor with Radiation Shield

The Convection Radiation Shield in combination with temperature & relative humidity sensor is a unique solution, provides precise air temperature measurements for greenhouse environment.

- Measures temperature & relative humidity
- Protects measurements from sun radiation
- IP Class 68
- Up to 10 years battery life



Priva | Aranet T/RH IP67 sensor

The T/RH sensor measures temperature and relative humidity. The IP class 67 hermetic enclosure of the sensor ensures that no excessive moisture or dust particles can alter the readings, ensuring constant and reliable data monitoring.

- Temperature relative humidity monitoring
- IP Class 67
- Up to 10 years battery life



Priva | Aranet CO₂ and Temperature sensor

The carbon dioxide sensors have IP67 protection class. They can be placed in harsh environmental conditions. Sensors perform highly accurate measurements as well as they are flexible and easy to setup.

- CO₂, temperature and atmospheric pressure monitoring
- IP Class 67
- Up to 8 year battery life



Priva | Aranet PAR sensor

The PAR sensor allows measuring of Photosynthetically active radiation and Photosynthetic Photon Flux Density (PPFD). It helps determine the amount of light the plants are exposed to.

- PPFD Monitoring
- IP Class 68
- Up to 7 year battery life

Crop sensors



Priva | Aranet Infrared Object temperature sensor

The object temperature sensor measures the temperature of a leaf or part of the crop. The temperature measurement in combination with other climate parameters provides insights in the status of the crop.

- Measures plant temperature
- IP Class 65
- Up to 12 years battery life



Priva | Aranet Stem Variation sensor

The stem micro variation and 4-20mA sensor combination offers full wireless solution for stem variation monitoring in greenhouses. The sensor allows investigating effects of irrigation rate and other environmental factors on water balance and growth of plants.

- IP Class 64
- Up to 7 year battery life



Priva | Aranet Weight sensor

The weight sensor allows close monitoring of plant growth and development, therefore allowing for more precise optimization of plant environmental conditions.

- IP Class 67
- Up to 7 year battery life

Substrate sensors



Priva | Aranet Soil VWC, EC and T sensor

The Soil Moisture Sensor (VWC, EC and T sensor) helps to determine the optimal watering for the plants by regularly indicating the water content of the soil.

- Measures soil and substrate moisture
- Built-in temperature & EC meter
- Up to 7 year battery life
- IP Class 68



Priva | Aranet Soil Moisture sensor

The Soil Moisture sensor helps to determine the optimal watering for the plants by regularly indicating the water content of the soil for optimal plant growth.

- Soil volumetric content monitoring
- IP Class 67
- Up to 10 year battery life



Priva | Aranet contact temperature sensors

The contact temperature sensor measures the temperature of liquids or solid objects. Available in multiple cable lengths.

- Soil volumetric content monitoring
- IP Class 67
- Up to 10 year battery life



Priva | Aranet Ultrasonic Distance sensor

The Ultrasonic Distance sensor uses ultrasound to measure the distance to an object. A high frequency sound wave is emitted by the device, measuring the time it takes for the wave to reach the object and then return to the sensor.

- Distance monitoring
- IP Class 67
- Up to 7 years battery life



Priva | Aranet universal sensors

The universal sensors can be used to make any sensor with a -32 + 32VDC, 4 to 20 mA, or puls output wireless.

- Soil volumetric content monitoring
- IP Class 67
- Up to 10 year battery life



Priva | Aranet Ping-Pong Kit

Wireless, battery-powered tools designed to be used as signal testers. When choosing a location for potential sensor placement, simply check if the signal strength is good enough with just one push of a button on the sensor. The sensors will immediately indicate the strength of the received Aranet radio packet with the green LEDs.

- IP Class 42
- Up to 12 year battery life

An integrated solution: all your data in a single overview

By integrating Priva | Aranet sensors into the Priva platform, all sensor data becomes available in your Priva process computer. This means that you can easily combine data from wireless sensors with data from your Priva system. It makes it very easy to analyse, gain insights and adjust your settings accordingly. All within a single overview.

Want to know more or get in touch? Visit priva.com/wireless-sensors

#creatingaclimateforgrowth

