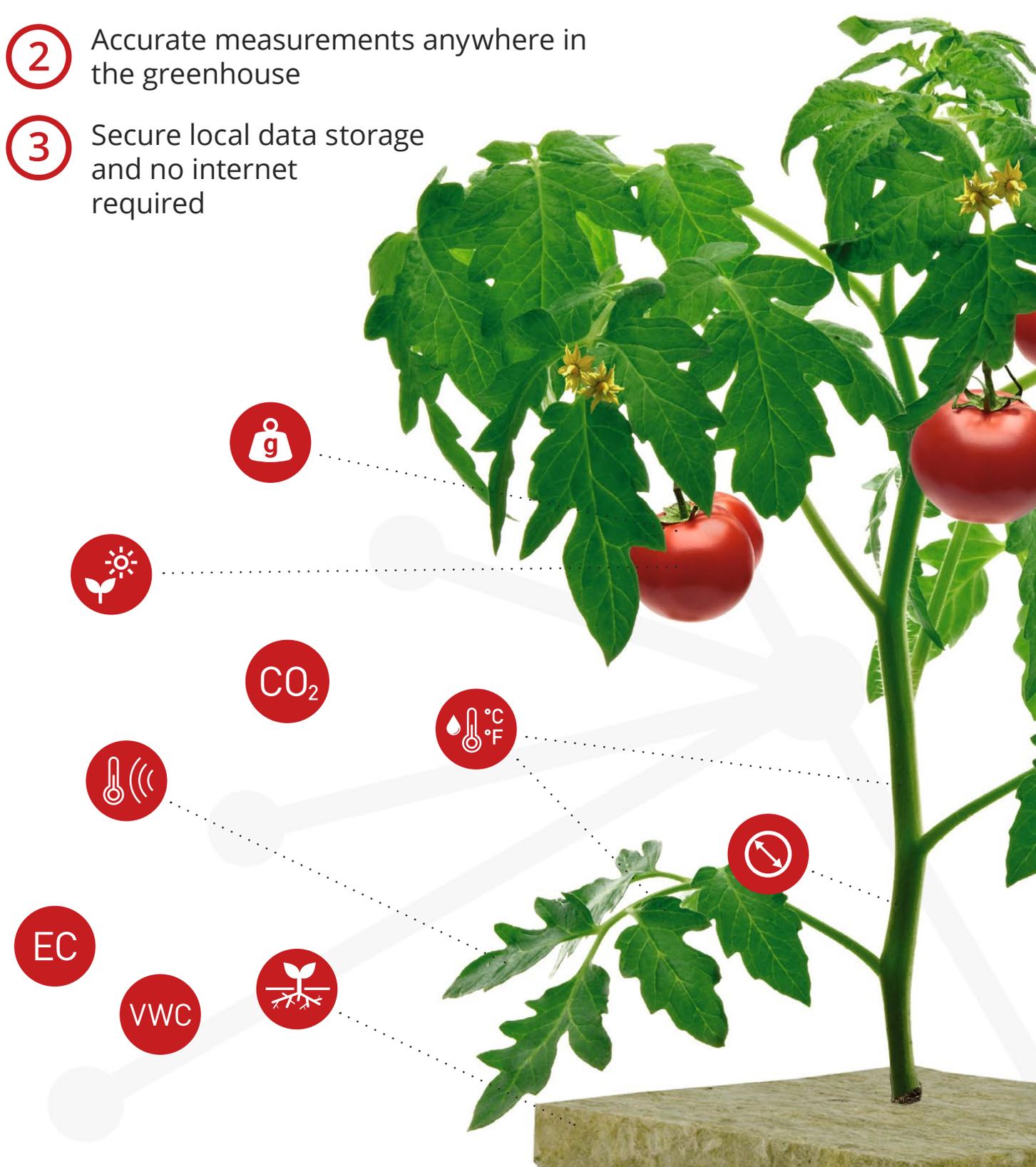


Wireless monitoring for a greenhouse



- 1 Reliable wireless technology and simple set-up
- 2 Accurate measurements anywhere in the greenhouse
- 3 Secure local data storage and no internet required



Why monitor temperature and relative humidity?

- Temperature is one of the driving factors in crop development. Monitoring temperature can provide real-time data that can be used to optimize growing conditions and reduce costs on heating.
- The relative humidity in the air can affect the flow of water through the plant – the higher the relative humidity, the slower the transpiration occurs.
- If environmental changes that affect the transpiration rate are rapid enough, plant tissue can be damaged.

Aranet PRO base station

Systems consist of a base station with advanced data analysis software and wireless sensors that measure temperature and relative humidity.

- 3 km/1.9 mi line of sight range between the base station and sensors.
- Up to 100 sensors per base station.
- 24/7 monitoring with e-mail and SMS alerts.
- Safe, private network independent from 3rd party service providers.

Aranet T/RH sensors

- Measures temperature and relative humidity.
- Measurement range – T (-40°C to 60°C / -40°F to 140 °F). RH (0% to 100%).
- Battery life up to 10 years.
- IP42 or IP67 – indoor/outdoor use.
- Data transmission – can be set to 1, 2, 5 or 10 minutes.

Aranet T/RH sensor with Radiation Shield

- Protects temperature measurements from sun radiation.
- Battery life up to 10 years.
- IP65 – designed for greenhouses.
- Data transmission – can be set to 1, 2, 5 or 10 minutes.

Aranet T-probe sensor

- Monitors air, liquid and solid surface temperature.
- Probe lengths 0.3 m / 1 m / 5 m / 10 m; 0.9 ft / 3.2 ft / 16.4 ft / 32.8 ft.
- Measurement range – T (-55°C to 105°C / -67°F to +257°F).
- Battery life up to 10 years.
- IP68 class – hermetic enclosure.
- Data transmission – can be set to 1, 2, 5 or 10 minutes.

Aranet IR plant temperature sensor

- Plant temperature is a critical parameter for determining Vapour Pressure Deficit (VPD).
- IP65 casing.
- Up to 12 years of battery life.



CO₂ and Temperature sensor

- Aranet carbon dioxide, temperature and atmospheric pressure sensor is wireless and battery-powered.
- It is highly accurate, versatile, simple to set up and is an integral part of many industrial processes in greenhouses, storage tanks and others.
- IP67 protection class.

Aranet PAR sensor

- Light is an essential element of photosynthesis and overall plant development as it impacts numerous factors including plant form and structure, plant orientation, and reproduction.
- PAR meter is a sensor for measuring photosynthetic active radiation. It helps to determine the amount of light the plants are exposed to.
- IP68 protection class.

Aranet Stem Micro-Variation sensor

- Changes in stem diameter is a response to plant water status and soil water content.
- Sensors on selected plants continuously monitor micro-variations of stem diameter to help optimize irrigation.
- IP64 protection class.

Aranet Soil VWC, EC and T sensor

- The built-in soil moisture sensor helps determine when plants need or do not need watering by regularly indicating the water content of the soil.
- The sensor is equipped with a built-in temperature sensor to determine if the soil temperature is ready for planting and seeds can germinate properly.
- The sensor also has an electrical conductivity meter – a reliable and easy way to determine if fertilizer nutrient levels are adequate for optimal plant growth.
- IP68 protection class.

Aranet Soil Moisture sensor

- Cost-effective wireless soil moisture sensor designed for wide range applications for efficient monitoring of irrigation delivery to plants.
- IP67 protection class.

Aranet Weight sensor

- Plant weight is essential to quantify plant growth and increase in biomass.
- The weight sensor allows close monitoring of plant growth and development, therefore allowing for more precise optimization of plant environmental conditions.
- IP67 protection class.



To find out more visit Aranet.com

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Aranet.com

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