



Wireless monitoring for a greenhouse

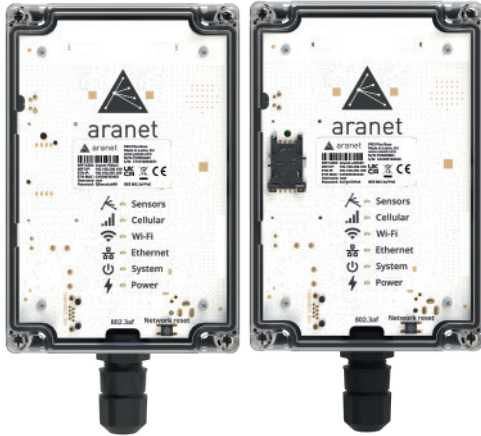
PRODUCT OVERVIEW



aranet
by SAF Tehnika

PRO Plus base station

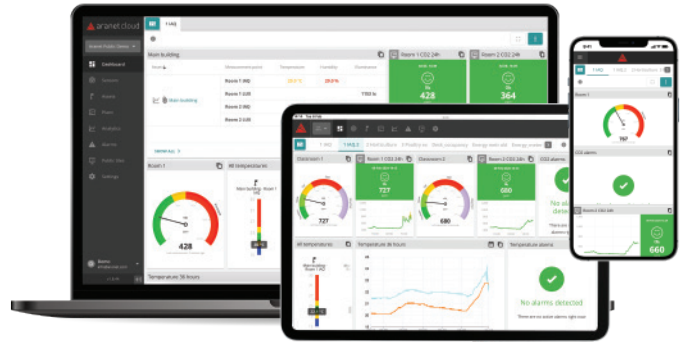
An environmental monitoring solution that acts as a gateway, data storage, and web server



- 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
- Available for indoor or outdoor environments, with or without LTE modem

Aranet Cloud

Connect the base station to Aranet Cloud for full Aranet ecosystem experience.



- Centralized access to all your data
- Remotely manage all Aranet devices
- Adaptable to your business needs
- Smart and effective alerting
- Simple integration with 3rd party systems
- Share your data publicly

Sensors



T/RH Sensor with Radiation Shield

Temperature:
-40 °C–60 °C
-40 °F–140 °F
Relative humidity: 0 %–100 %
Battery life up to: 10 years
IP class: IP65



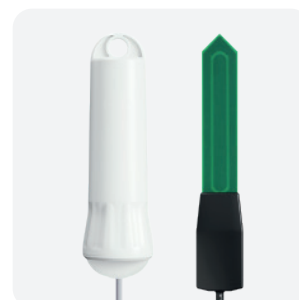
IR Plant Temperature Sensor

Temperature:
-20 °C–85 °C
-4 °F–185 °F
Battery life up to: 10 years
IP class: IP65



Soil Sensor WET150

Track root zone conditions: soil and substrate volumetric water content (VWC), bulk and pore electrical conductivity, temperature.
Battery life up to: 8 years
IP class: IP68



Soil Moisture Sensor

Soil volumetric water content
Battery life up to: 10 years
IP class: IP67



Weight Sensor

Track plant growth by monitoring weight. Optimize environmental conditions to improve yield

Range:
0–50 kg / 0–110 lbs
0–100 kg / 0–220 lbs
Accuracy: ±0.02 %
IP class: IP67



Tray Weight Sensor

Consistent and precise weighing of seedlings directly in cultivation trays, minimizing handling.

Range: 0–50 kg / 0–110 lbs
Accuracy: ±0.02 %
IP class: IP67



Light Spectrum Sensor

The sensor delivers five color channels (blue, green, red, far-red, near-IR) plus PAR and PAR+far-red data for LED light optimization in greenhouses.

Spectral range: 350–950 nm
IP class: IP68



PAR Sensor

Photosynthetic PhotonFlux Density (PPFD)

Battery life up to: 9 years
IP class: IP68



Horticulture Drainage Sensor

Drainage box with volume sensor, buffer container, and EC/pH probe holders for efficient irrigation monitoring.

Buffer container: 1 liter / 33.8 oz
Maximum flow: 3.6 l/h / 1.19 gal/h
Accuracy: +5%



Slab Weight Sensor

Monitor weight changes and drainage volume to gain irrigation insights.

Weight measurements.
Range: 0–100 kg / 0–220 lbs
Accuracy: +/-0.02%
Drain volume measurements.
Range: 3.6 l/h / 0.95 gal/h
Accuracy: +/- 5%



Aranet Drainage Sensor

Drain water flow monitoring.

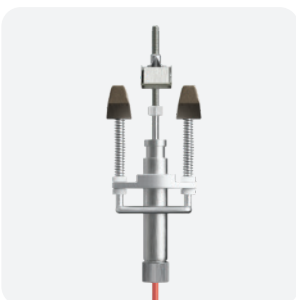
Accuracy: ±5%
Battery life up to: 10 years
IP class: IP67



EC & pH Sensor

High-precision sensors in a pre-assembled enclosure box, designed to measure EC and pH in irrigation water for horticulture.

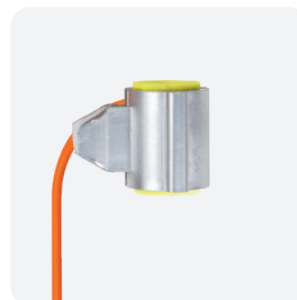
Range: EC (0–20 mS/cm)
pH (0–14)
IP class: IP67



Stem Micro-Variations Sensor Kit

Micro-variations of stem diameter: 0–5 mm

Power source:
External power supply
IP class (sensor): IP64
IP class (transmitter): IP67



Sap Flow Sensor Kit

Relative variations of sap flow rate in plants petiole or small shoot

Stem diameter:
1–5 mm or 4–10 mm
Power source:
External power supply
IP class (transmitter): IP67



Rain and Precipitation Sensor Kit

Precise rain and precipitation monitoring

Accuracy: ±2%
Battery life up to: 10 years
IP class: IP68



T/RH sensor & probe with outdoor radiation shield

Measure outdoor air temperature and relative humidity while reducing solar radiation impact for more reliable readings.



PAR Sensor

PAR measurements under all light sources, including LEDs.
Spectral range:
 400 to 700 nm
IP Class: IP68



PAR-FAR sensor

Two-channel sensor for measuring both the PAR (PPFD) and Far-red.



ePAR Sensor

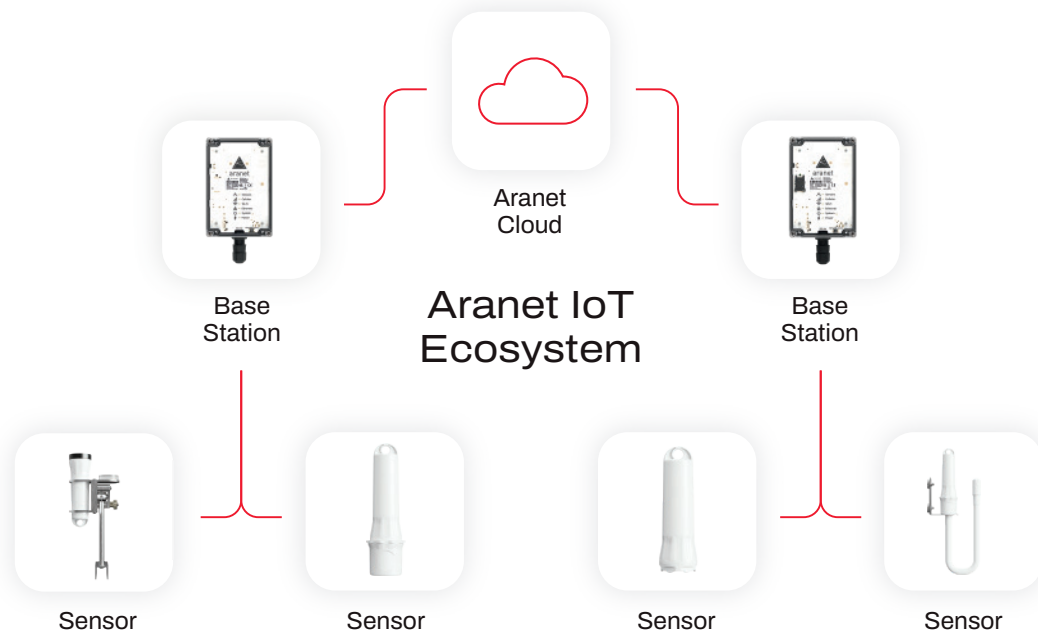
Designed to make high-accuracy total photon flux density measurements.
Spectral range:
 400 to 750 nm
IP Class: IP68



Infrared Radiometer

Measure surface temperature without contact with high precision. For indoor and outdoor use.

One universal Aranet Apogee Transmitter works with 8 different Apogee sensors for light and plant temperature monitoring



Sensors

A variety of wireless sensors that monitor conditions indoors and outdoors

Base stations

One or multiple base stations that gather and store data from sensors

Cloud

A cloud service to access, view, and analyze all your data in one place

All sensors are wireless and battery powered with battery life up to 10 years (depending on sensor and data transmission interval).
 Measurement intervals for all sensors are 1, 2, 5, and 10 minutes.



Design and manufactured by SAF Tehnika
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