



Wireless monitoring for a greenhouse

PRODUCT OVERVIEW

 **aranet**
by SAF Tehnika

PRO / 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

Aranet Cloud

Connect 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

Sensors



T/RH IP67

Temperature:
-40 °C–60 °C
-40 °F–140 °F
Relative humidity: 0 %–100 %
Battery life up to: 10 years
IP class: IP67



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



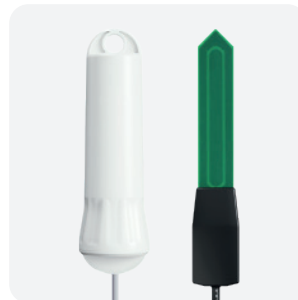
CO₂ and Temperature sensor

CO₂: 0–9999 ppm
Temperature: 0 °C–50 °C
32 °F–122 °F
Battery life up to: 8 years
IP class: IP67



Soil Moisture, EC and T sensor (WET150)

Soil and substrate moisture,
electric 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



Light Spectrum sensor

The sensor provides five color channels and PAR/PAR+far-red data for LED light optimization in the greenhouse.
Spectral range: 350–950 nm
IP class: IP68



PAR sensor

Photosynthetic PhotonFlux Density (PPFD)
Battery life up to: 9 years
IP class: IP68



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



Aranet Weight sensor with frame

Consistent, precise, and conveniently managed weighing of the seedlings. Seedlings can be weighed in their cultivation trays to minimize handling
Range: 0–50 kg / 0–110 lbs
Accuracy: ±0.02 %
IP class: IP67



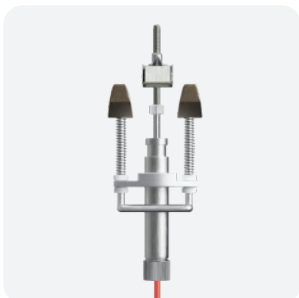
Slab Weight sensor

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%



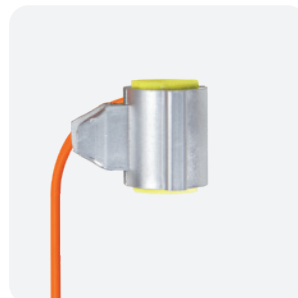
Aranet Drainage sensor

Drain water flow monitoring.
Accuracy: ±5%
Battery life up to: 10 years
IP class: IP67



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



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



Horticulture Drainage sensor

Drainage box with volume sensor and buffer container for irrigation monitoring, with holders for EC and pH probes.
Buffer container: 1 liter / 33.8 oz
Maximum flow: 3.6 l/h / 1.19 gal/h
Accuracy: +5%



Rain and Precipitation sensor kit

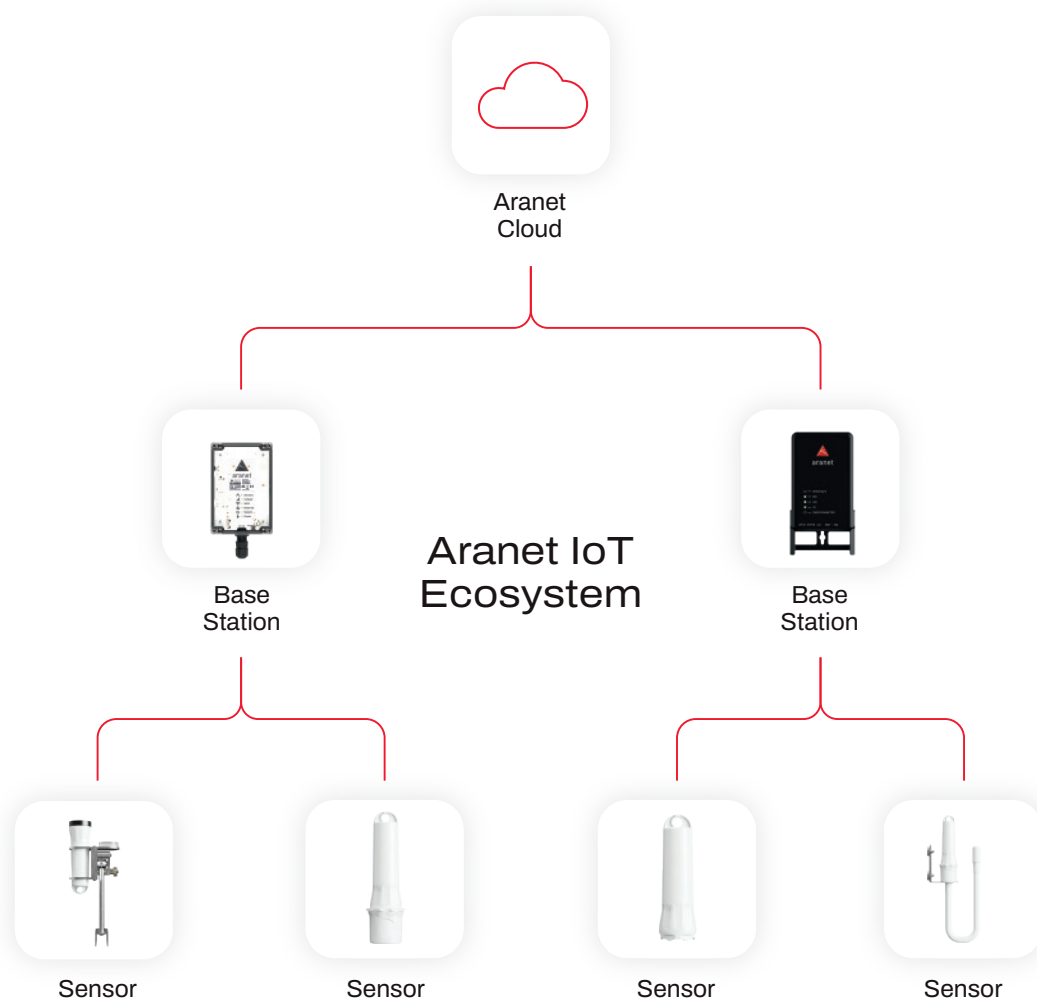
Monitors rainfall for use in irrigation, soil moisture management, weather stations, and water treatment.
Accuracy: ±2 %
IP class: IP68

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.

Getting Started with Aranet



Ready to enhance your business with Aranet's monitoring solution? Contact us to discuss your needs and discover how Aranet can support your commitment to data-driven decision-making.



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



Design and manufactured by SAF Tehnika

For more detailed information about Aranet products, please visit aranet.com, contact your Aranet representative, or write to info@aranet.com. Product specifications are subject to change without prior notice. © SAF Tehnika, JSC. All rights reserved. v140126

