Smart business

aranet
by SAF Tehnika

From greenhouses to factories, Aranet sensors deliver precise, real-time data for smarter decisions indoors and outdoors.



- Indoor and outdoor monitoring solutions
- Up to 10-year sensor battery life
- Wireless monitoring for ultimate flexibility
- Line-of-sight range up to 3 km / 1.9 miles
- Aranet Cloud service
- Up to 100 sensors per base station

PRODUCT OVERVIEW

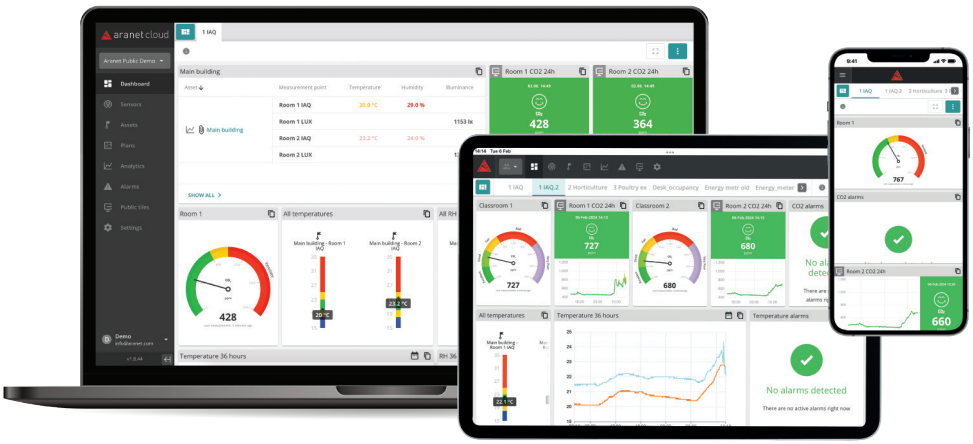
Gateway PRO & PRO Plus Base Station

Aranet gateway and base stations form the backbone of the Aranet wireless ecosystem. They gather sensor readings from up to 3 km / 1.9 mi away (line of sight). PRO Plus Base Station includes internal memory and a built-in web server with free software for viewing, analyzing, and comparing data in real time, setting alarm thresholds, and exporting reports. Gateway PRO adds an integrated touchscreen, supports up to 100 wireless sensors, and forwards data to Aranet Cloud or third-party systems. Connect the gateway or base station to Aranet Cloud for the full Aranet ecosystem experience.



Aranet Cloud

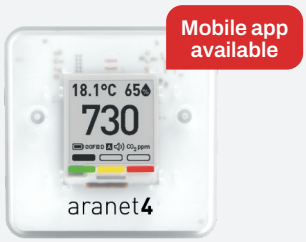
Aranet Cloud gathers the data from base stations and enables 24/7 uninterrupted and secure centralized data monitoring and analysis across all the monitored locations, regardless of whether it's a single venue or multiple geographically distributed locations.



- Choose how to view 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

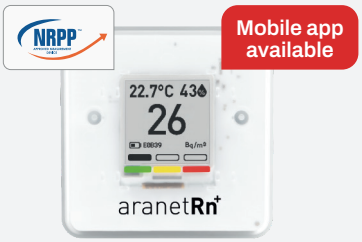
Indoor Air Quality Sensors

Designed to optimize indoor air quality for healthier living and working environments. CO_2 sensors use NDIR technology for precise detection, while PM sensors track PM1.0, PM2.5, and PM10. The Radon Plus features the world's fastest battery-operated radon sensor!



Aranet4 Sensor HOME / PRO

Aranet4 HOME / PRO is an innovative stand-alone battery-powered wireless sensor for monitoring CO2, relative humidity, temperature and atmospheric pressure in a variety of indoor settings such as home, school or office.
CO_2: 0–9999 ppm
Temperature: 0 °C–50 °C, 32 °F–122 °F
Relative humidity: 0 %–85 %
Atmospheric pressure: 600–1100 hPa
Battery life up to: 3 years
IP class: IP20



Radon Plus Sensor HOME / PRO

Sensor combines best-in-class features for effective radon gas measurement. The unique battery-powered ionization chamber technology provides continuous radon level monitoring.
Available also Radon Plus Pro Calibrated for radon professionals.
Radon: 0–4000 Bq/m³
Temperature: 0 °C–50 °C, 32 °F–122 °F
Relative humidity: 0 %–85 %
Atmospheric pressure: 600–1100 hPa
Battery life up to: 10 years
IP Class: IP20



Aranet2 HOME / PRO

Temperature:
0 °C–50 °C, 32 °F–122 °F
Relative humidity: 0 %–85 %
Battery life up to: 3 years
IP class: IP20



PM Sensor

Particulate matter measurement
PM1.0, PM2.5, PM10
Measurement range:
0–1000 µg/m³
Power source:
External power supply
IP class: IP42

T/RH Sensors

T/RH sensors measure temperature and relative humidity. Aranet sensors are extremely durable and can be placed in both inside and outside environments as well as humid locations.



T/RH Mini Sensor

Temperature:
-40 °C–60 °C
-40 °F–140 °F
Relative humidity: 0 %–100 %
Battery life up to: 16 years
IP class: IP42



T/RH IP67 Sensor

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

Horticulture sensors

Specifically designed for greenhouses. The sensors measure a variety of parameters that help optimize yield predictions and save on energy, water, and fertilizers. Relative humidity and plant temperature are critical parameters to determine Vapor Pressure Deficit (VPD).



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%



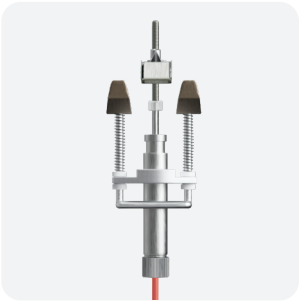
Aranet Drainage Sensor

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 diamater:
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, ePAR Sensor

Designed to make high-accuracy total photon flux density measurements. PAR measurements under all light sources, including LEDs.
Spectral range:
400 to 750 nm, 400 to 700 nm
IP Class: IP68



PAR-FAR sensor

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



Pyranometer

Continuous outdoor solar radiation monitoring.
Spectral range:
360 to 1120 nm
IP Class: IP68



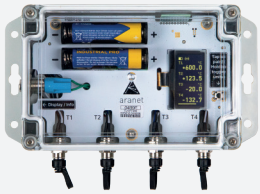
Infrared Radiometer

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.

Temperature Sensors

Measure and monitor air, liquid, and solid surface temperature. The probe can be placed in liquids or places that require close contact temperature measurements, like heating pipes or soil. Use cases include air conditioning and ventilation systems (HVAC), food industry, pharmaceutical industry, R&D laboratories.



4xT-Probe Sensor

Measures temperature simultaneously with four platinum resistance thermometer probes.
Temperature:
-30 °C–180 °C, -22 °F–356 °F
Battery life up to: 10 years
IP class: IP65



PT100 Temperature Sensor

Temperature:
-50 °C–180 °C
-58 °F–356 °F
Battery life up to: 12 years
IP class: IP68



T Compact Sensor

Temperature:
-40 °C–60 °C
-40 °F–140 °F
Battery life up to: 8 years
IP class: IP68



T/RH Probe Heavy Duty

Temperature:
-40 °C–60 °C
-40 °F–140 °F
Relative humidity: 0–100 %
Battery life up to: 10 years
IP class: IP68

Gas Sensors

Designed for leak detection, workplace safety, and personal safety.
Suitable for the most challenging environments.



Differential Pressure Sensor

Pressure range: ±500 Pa
Accuracy:
0.10 Pa + 3 % of reading
Battery life up to: 10 years
IP class: IP65



CO_2 and Temperature Sensor

CO_2: 0–9999 ppm
Temperature: 0 °C–50 °C
32 °F–122 °F
Battery life up to: 8 years
IP class: IP67

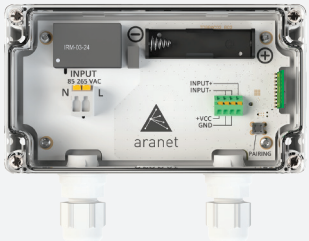


NH_3 Sensor Kit

NH_3: 0–100 ppm
Power source:
External power supply
IP class (sensor): IP65
IP class (transmitter): IP67

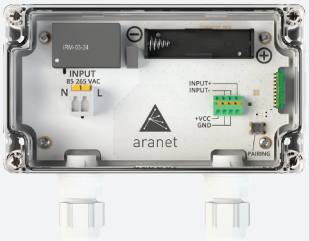
Transmitters

Solutions that easily integrate with third-party sensors, enabling the monitoring of various parameters within the single Aranet ecosystem.



4-20 mA Transmitter

Current: 4–20 mA
Built-in power supply options: 12 VDC and 24 VDC
Power source: External power supply
IP class: IP67



0-10 V Transmitter

Current: 0–10 mA
Built-in power supply options: 12 VDC and 24 VDC
Power source: External power supply
IP class: IP67



PT100 / PT1000 Transmitter

Temperature:
-200 °C–600 °C
-328 °F–1112 °F
Battery life up to: 12 years
IP class: IP68



Dry Contact Pulse Counter

Detects dry contact pulses. Perfect for electricity meters and water flow monitoring.
Battery life up to: 10 years
IP class: IP68

Energy meter

Designed for precise measurement of electricity usage and frequency of use, tracking and optimizing energy consumption across various industries.



One-Phase Energy Meter Kit

Measures the amount and frequency that electricity is used
Battery life up to: 10 years
IP class (energy meter): IP51
IP class (sensor): IP68



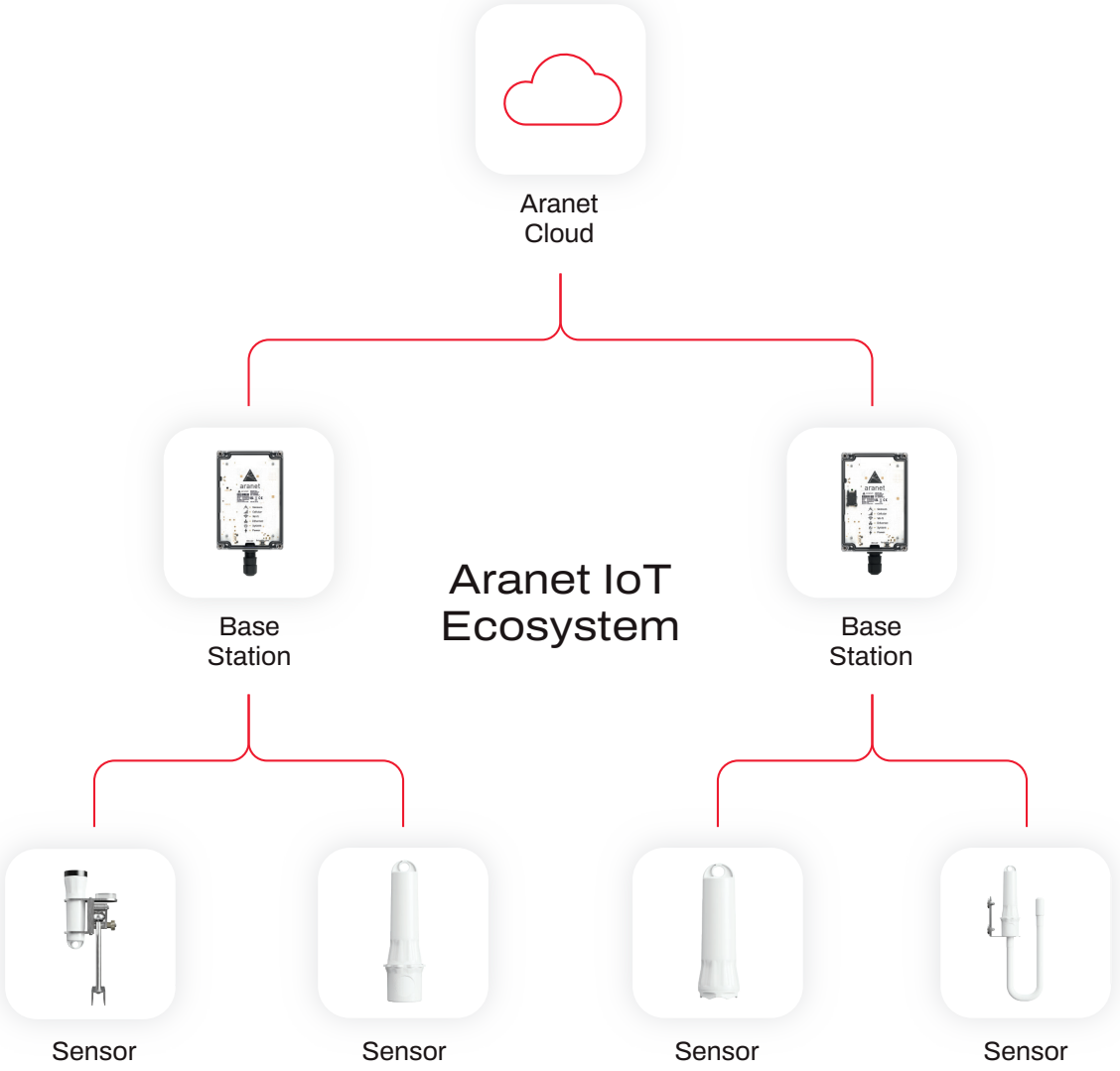
Three-Phase Energy Meter Kit

Measures the amount and frequency that electricity is used
Battery life up to: 10 years
IP class (energy meter): IP51
IP class (sensor): IP68

Getting Started with Aranet

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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

Designed 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. V 140726

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