Aranet wireless monitoring system for educational facilities

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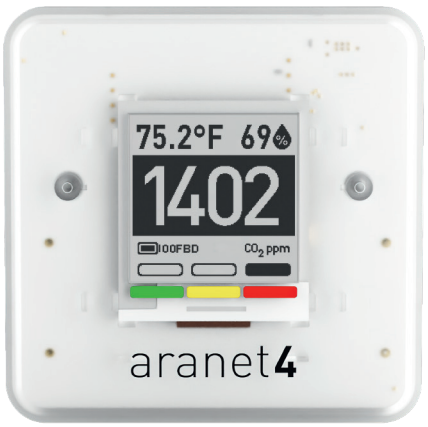
- Indoor air quality (IAQ) is measured by determining how much carbon dioxide (CO_2) exists within a building or enclosed space. CO_2 is measured in parts per million (ppm).
- CO_2 levels impact human performance[1]:
  – 420 ppm: Air is fresh and well ventilated
  – 945+ ppm: Human cognition drops by 15 %
  – 1400+ ppm: Concentration and learning drop by 50 %
- Studies show an average productivity loss due to IAQ between 3-7 %, with individual productivity losses of 33 %[2]

Modern buildings are well sealed to prevent heat loss. However, this practice also reduces flows of fresh air into structures. In high-traffic areas like schools and universities, crowds can rapidly use up the available air supply. And while these spaces do have heating, ventilation, and air conditioning (HVAC) systems circulating in new air, it's not always clear whether this replacement is sufficient and healthy.

Aranet4 PRO monitor



IAQ monitoring device

- Tracks CO_2, temperature, relative humidity, and atmospheric pressure
- Wireless plug-and-play device with a high-visibility E-Ink display
- Color indicators and customizable alarms signal when action (improving ventilation, opening windows, leaving the room, etc.) should be taken

Aranet base station

An environmental data monitoring in three solutions: **Aranet PRO**, **Aranet PRO Plus**, and the **Aranet PRO Plus LTE**.

- Wirelessly gather readings from up to 100 Aranet4 devices
- Understand the situation of each room in a facility; discover which locations are adequately ventilated
- View, analyze, and compare the data in real-time
- Easy to integrate into existing systems and databases
- Compatible with Aranet Cloud for a complete experience

[1] ARANET.COM/LIBRARY/HARVARDSTUDYCO2
[2] HTTPS://BIT.LY/43HSIUC

Aranet Cloud

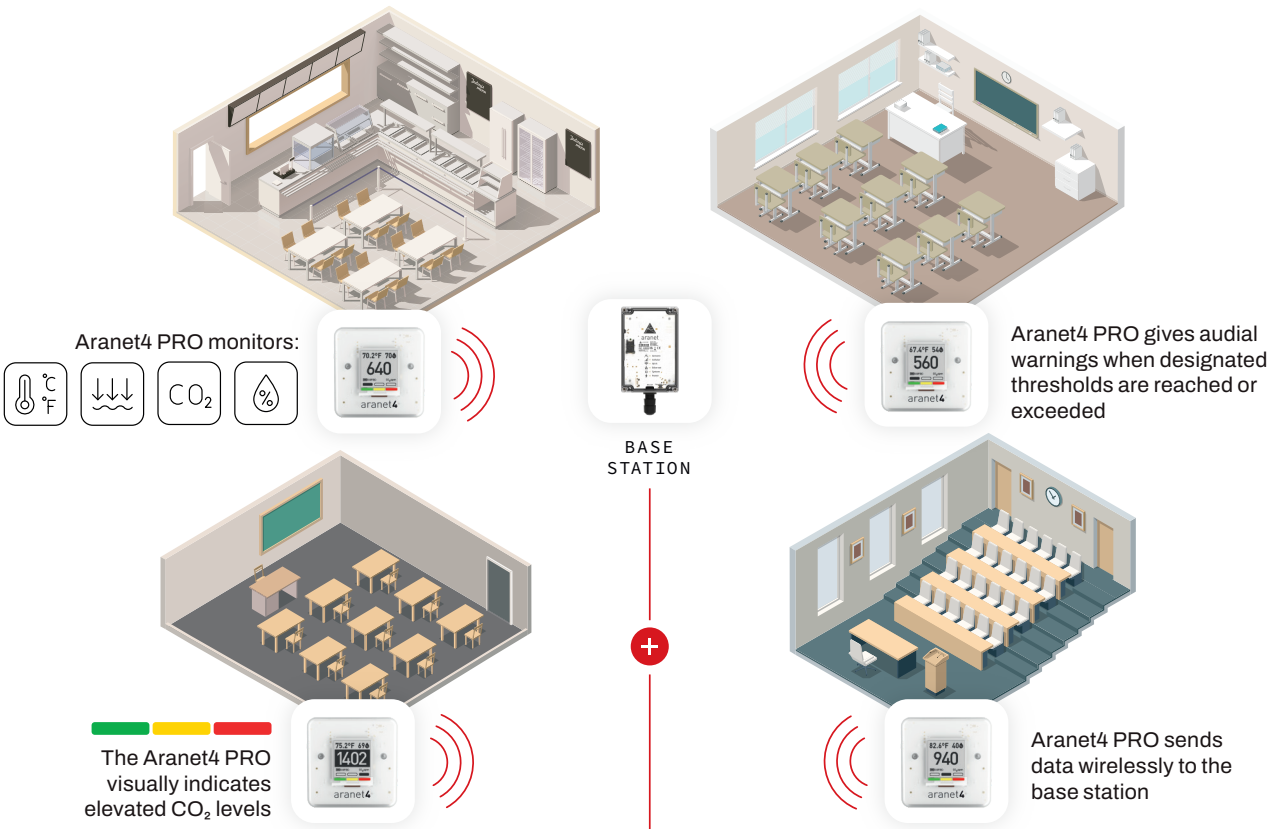
An industrial-grade solution for safe data collection, storage, aggregation, and analysis anytime and anywhere. It offers centralized reporting, customizable dashboards, helpful alarms, and more.

MONITOR → COLLECT → ANALYZE → AUTOMATE

The Aranet ecosystem

The Aranet network consists of three components: Aranet4 PRO sensors, an Aranet base station, and Aranet Cloud. Sensors within classrooms send data along to a base station which collects and stores those measurements. From there, Aranet Cloud enables centralized data monitoring and analysis.

The Aranet ecosystem is a simple, effective solution that identifies and promotes proper air quality for students and faculty. Measure, improve, and make facilities safer.



Aranet Cloud

- See graphs, download reports, and receive centralized alarms
- Get a completed overview of buildings and identify poorly ventilated areas
- Access and manage your data anytime and anywhere

Smarter than others

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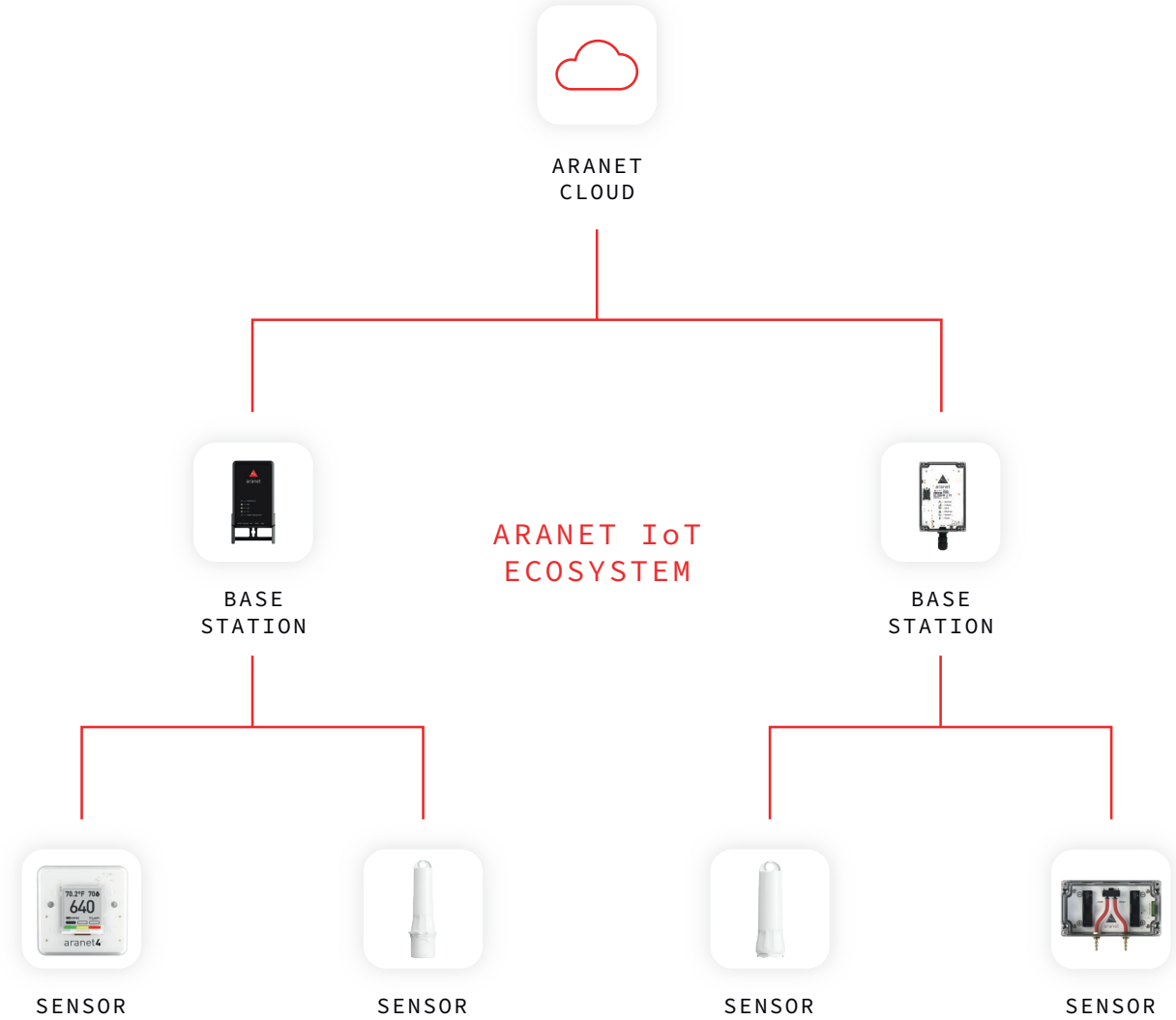

Sensors

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

FOR MORE DETAILED INFORMATION ABOUT ARANET PRODUCTS, PLEASE VISIT ARANET.COM,
CONTACT YOUR ARANET REPRESENTATIVE OR WRITE TO INFO@ARANET.COM.
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