

Aranet Particulate Matter sensor overview



This sensor detects and measures wide range of air pollutants including dust, smoke, or mold spores and is suitable for IAQ and other applications.

Function

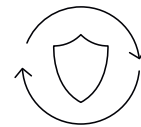
Placed in the areas of interest indoors or outdoors (IP42 rating), this sensor:



Measures concentration of particles with size range of 0.3 – 10 μm .



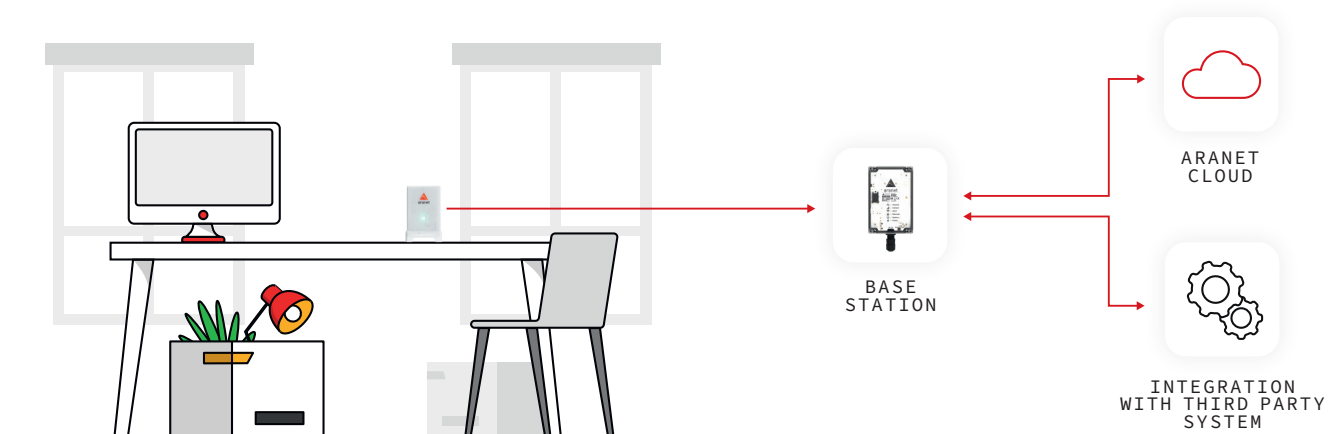
Indicates Air Quality Index through the LED light color.



Helps determine the safety of the surrounding environment.

Instructions

Place the sensor on a surface or mount on a wall in a location where you intend to follow the concentration of particulate matter (PM). Ideally somewhere with stable temperature and relative humidity.



The schematic of Aranet PM sensor installation and usage.

Full automation routine

For indoor environments, Aranet PM sensor network in conjunction with building management system can automate the alert, ventilation, and air purification system:

1. The PM sensor network measures particle concentration in the air.
2. Base station collects and stores measured data.
3. Access historic data from a base station locally or from Aranet cloud.
4. Evaluate data and let the BMS adjust ventilation, air purification, or send alerts.