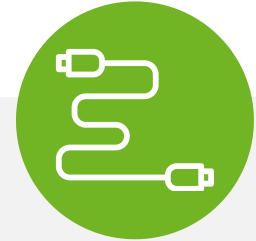sensorbee

Sensorbee Air Quality Monitoring Solution

Reliable Data in a Compact Design

Sensorbee's air quality system comes with high-accuracy sensors that offer dependable data. The device has a built-in buffer to store data during network or power outages. Weighing just 0.5 kg, it's easy to fit into various urban environments.

Easy to Connect & Solar-Powered

Our low-energy design and rechargeable batteries make it simple to power the device with a solar panel or street light. We use energy-efficient GSM technologies like NB-IoT and LTE-M to ensure reliable long-distance coverage.
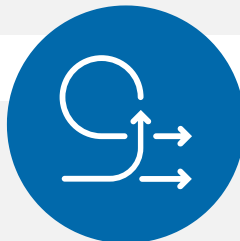
Versatile Connectivity

Sensorbee's air quality solutions easily integrate with different systems using Modbus RS-485, as well as LTE-M and NB-IoT connectivity. This makes our technology versatile and suitable for a wide variety of applications and environments.

Easy to Use

Sensorbee's user-friendly web interface allows you to easily manage your air quality system. Set up remote data collection, view real-time information, and receive crucial alerts, all from your web browser. Adding a new Sensorbee unit is simple—just scan its QR code using an Android/iOS device or computer.
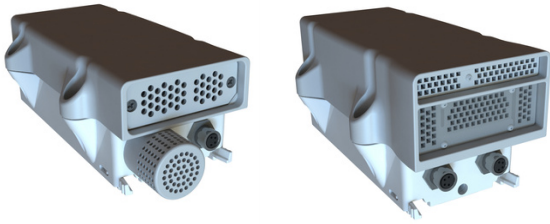
Flexible Expansion Options

Both the Sensorbee Air Pro and Modbus Pro units feature an expansion port for connecting external sensors. This allows you to easily integrate a variety of sensor types, like weather station sensors, to improve your system's functionality.
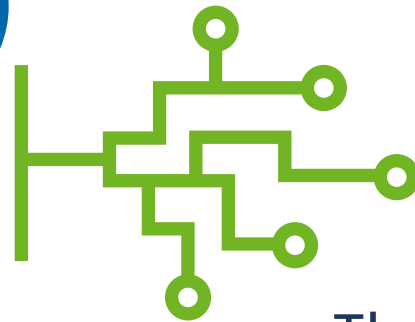
Ambient Noise

Sensorbee's Ambient Noise Enhancer is a software update for your Air Quality Sensors that adds real-time noise level measurement in dBA. Now you can monitor both air quality and noise levels using your existing Sensorbee devices, expanding your environmental monitoring capabilities.
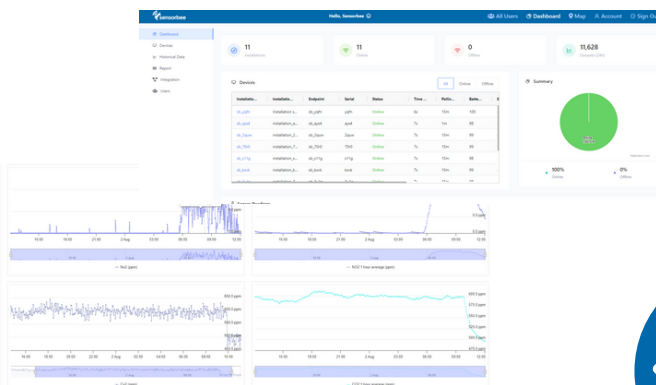
How does it work?

The Sensors

Our sensors runs on solar power or external power.

The data

Real-time pollutant data transmitted over cellular network.

NB-IoT **LTE-M**

Cloud Services

Sensors and data can be managed and stored either in Sensorbee's cloud services or on customer-specific cloud servers.

Access your data

You can access and utilize your data through the Sensorbee Web Interface or via the API for third-party integration.

Sensorbee Cloud and Apps

The Sensorbee cloud platform is a robust solution for handling IoT devices and their data. It offers an easy-to-use interface for setting up devices, monitoring their status, and viewing sensor readings.

Beyond device management, the platform also comes with data analytics tools and options for integration. Users can effortlessly configure Realtime-Push or GET APIs to receive the data they need.

In summary, Sensorbee's cloud services offer a versatile and efficient way to manage both IoT devices and the data they generate.

Access to System
Web

Device/Back-end protocol
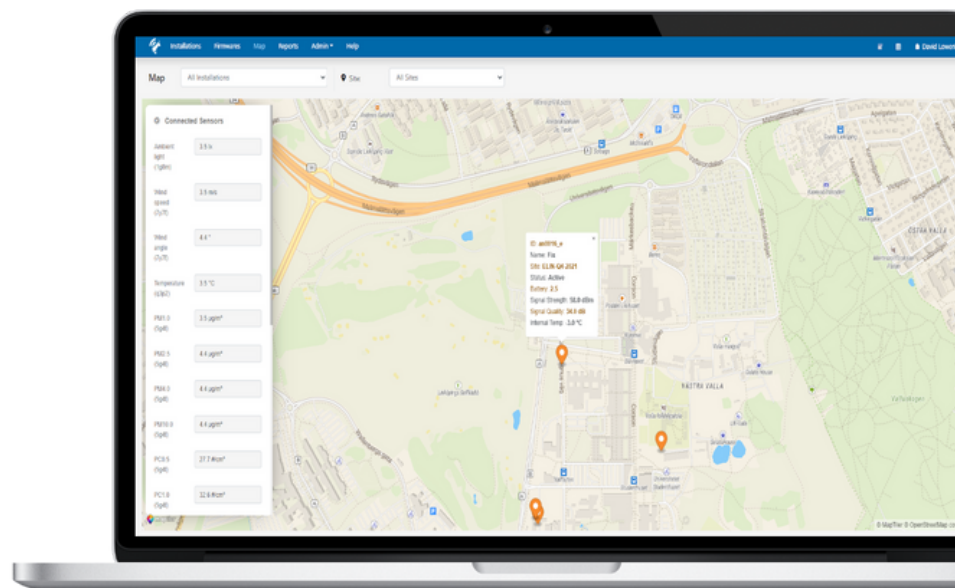LWM2M

API Sensorbee cloud
PUSH API
REST API

Sensor Data Download
CSV file

Notifications
Email
SMS

LightweightM2M
specified at oma

Sensorbee Air Pro Cellular

Sensorbee Air Pro is a flexible air quality monitoring system. The modular system can measure particles, temperature, humidity, and up to three different gases. You can also expand its capabilities by connecting sensors for noise, wind, rain, and more to meet your specific needs.

With real-time data transmission over mobile networks, NB-IoT, and LTE-M, our solution is easy to install and cost-effective to own. Its compatibility with solar panels also makes it an eco-friendly monitoring option.

SB3323 - Air Pro (Generic)
SB3324 - Air Pro (Sub-Zero)

Communication & Remote Management:
LTE-M or NB-IoT (Nano SIM)
Sensorbee Cloud (LwM2M ≥1.1)
Dimensions, weight & material:
140 x 80 x 65 mm, 0.4 kg
Polycarbonate & Polyamide
Operating Temperature & Humidity:
-20 °C to +60 °C, 0 to 99 %RH
Power Input: 5 - 15 VDC
Regulatory Compliance: CE
Mounting: Pole/Wall mounting bracket
External Sensor Connector: 1
Internal Battery
SB3323 for use in general climate (3.4Ah batteries)
SB3324 for optimal battery function in sub-zero degree climates (2.8Ah)

Modules Supported
3 Sensorbee gas modules(not included)
Included *Module (SB3516)*:
Particle Sensor:
Type : Optical particle counter
Mass size Range: PM1, PM2.5, PM10
Number size Range: PM0.5, PM1, PM2.5, PM10
Temperature & Humidity Sensor:
 -40 °C to +60 °C ±0.3 °C, 0-100 %RH ±3 %RH
VOC: 0 - 1000 ppm (VOC Index 0 - 500)
NOX: 0 - 10000 ppb (NOX Index 0 - 500)
Pressure: 300 - 1250 hPa ±0.5 hPa
Noise Meter (extra license required):
20 Hz - 10 kHz: 55 - 100 dBA ±4 dBA
Module Operational Life: 2 Years