Sensorbee
Multi-Sensor Monitoring Station

Catalog 2026

sensorbee

|||

Sensorbee is a fast-growing provider of comprehensive environmental monitoring solutions based in Linköping, Sweden. We deliver advanced hardware for monitoring air quality, noise, dust, and vibration (NDV), paired with intuitive software and actionable data insights. Our solutions support construction companies, governments, and businesses in meeting compliance standards and improving environmental quality.

Our mission is to create a safer, more sustainable future by making air quality and environmental monitoring simpler, more affordable, and highly effective for industries and communities worldwide.

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 1.9 kg, it's easy to fit into various urban environments.

Easy to Connect & Solar-Powered

Designed for effortless setup and powered by solar panels, ensuring continuous operation with minimal energy use, even in remote locations.

Versatile Connectivity

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

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 External Options

The Sensorbee Air Pro 2 comes with an expansion port that makes adding external sensors straightforward. This port supports Modbus RS-485, so you can plug in any type of sensors to get more kinds of environmental data. It's a simple way to make your air quality system even more powerful and give you a wider view of what's happening in the environment, all without making things too complicated.

Ambient Noise

Sensorbee's Ambient Noise Module is an additional hardware component available that enables your Air Quality Sensors to measure real-time noise levels in dBA. With this module, you can simultaneously monitor air quality and noise levels, enhancing the scope of your environmental monitoring with your Sensorbee devices.

How Does It Work?

1

THE SENSORS

Our sensors runs on solar power or external power.
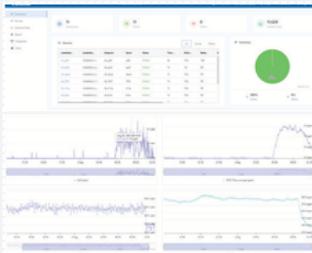
2

THE DATA

Real-time pollutant data transmitted over cellular network.

3

CLOUD SERVICES

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

4

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

➤ **Turnkey Environmental Monitoring:** A comprehensive solution for noise, dust, and vibration, ensuring continuous operation and reliable data.

➤ **Quick Setup & Real-Time Insights:** Rapid deployment with AI-powered analytics for instant decision-making and compliance.

➤ **Integrated Project Management:** Streamlined project tracking and automated reporting for efficient regulatory adherence.

Access to System
Web

Device/Back-end protocol
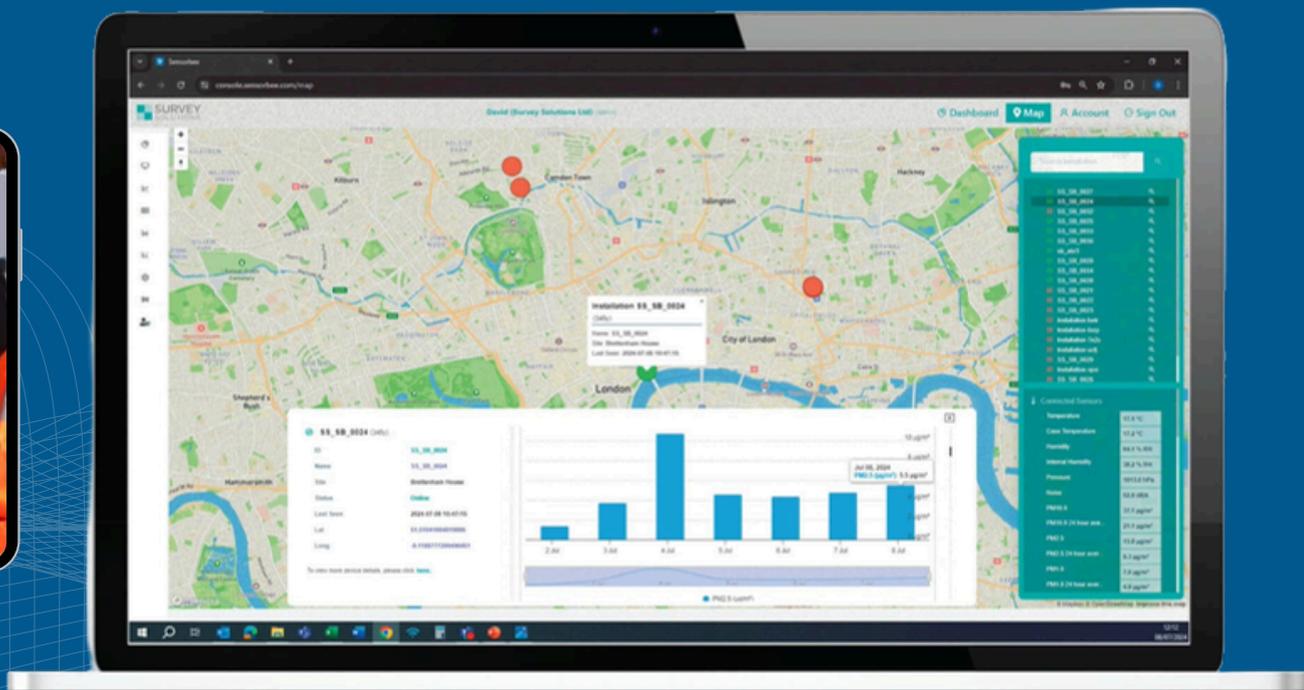LWM2M

Sensor Data Download
CSV file

API Sensorbee cloud
PUSH API, REST API

Notifications
Email, SMS

Project Management
Smart project management

sensorbee

Sensorbee
Pro2 Multi-Sensor Monitoring Station MCERTS

Built to meet the stringent standards set by the Environment Agency, its MCERTS certification ensures every reading is traceable and defensible — making it the trusted choice for compliance monitoring, planning applications, and enforcement programmes.

CSA MC250462/00

SB8202 - Air Pro 2 Cellular MCERTS

Communication & Remote Management:
LTE-M or NB-IoT (Nano SIM)
Sensorbee Cloud (LwM2M ⩾1.1)

External Sensor Connectors:
- M8 conn. for Sensorbee Provided sensors
- Can be modified to have up to 4 connectors for Sensorbee sensors (5V / 12V support)

Dimensions, Weight & Material:
145 x 200 x 80 mm, 1.9 kg, Polyamide

Power Input: 5 to 24 VDC
Internal Battery: 20 Ah

Regulatory Compliance:
CE

Modules Supported:
6 Sensorbee gas modules (not included)
Sound Level Meter (not included)

Operating Temperature & Humidity:
(Recommended) -20 to +60 °C,
0 to 99 %RH

Mounting:
Pole/Wall mounting bracket

MCERTS Compatible calibration:
Particle Matter Module is individually 3-point-calibrated, and shipped with its own calibration certificate.

INCLUDED MODULES :

Particle Sensor Module: (SB4102):
Type : Optical particle counter
Mass size Range: PM1, PM2.5, PM10
Number size Range: PM1, PM2.5, PM10

EnviroSense Sensor Module (SB4502):
Humidity: 0 to 100 %RH, 15 to 55 °C: ±1.0 %RH
Pressure: 300 to 1250 hPa ±0.5 hPa
Temperature: −20 to 50 °C: ±0.2 °C

Sensorbee
Pro2 Multi-Sensor Monitoring Station

The Sensorbee Air Pro 2 Cellular is a professional air environmental monitoring device. It uses solar power to measure dust, temperature, humidity, and gases. It can connect to extra sensors and shares data via mobile networks. This tool is designed for efficient and eco-friendly monitoring, useful for advanced environmental research and urban management.

SB8203 - Air Pro 2 Cellular

Communication & Remote Management:
LTE-M or NB-IoT (Nano SIM)
Sensorbee Cloud (LwM2M ≥1.1)

External Sensor Connectors:
- M8 conn. for Sensorbee Provided sensors
- Can be modified to have up to 4 connectors for Sensorbee sensors
  (5V / 12V support)

Dimensions, Weight & Material:
145 x 200 x 80 mm, 1.9 kg,
Polyamide

Power Input: 5 to 24 VDC
Internal Battery: 20 Ah

Regulatory Compliance:
CE

Modules Supported:
6 Sensorbee gas modules (not included)
Sound Level Meter (not included)

Operating Temperature & Humidity:
(Recommended) -20 to +60 °C,
0 to 99 %RH

Mounting:
Pole/Wall mounting bracket

INCLUDED MODULES :

Particle Sensor Module: (SB4103):
Type : Optical particle counter
Mass size Range: PM1, PM2.5, PM10
Number size Range: PM1, PM2.5, PM10

EnviroSense Sensor Module (SB4502):
Humidity: 0 to 100 %RH, 15 to 55 °C: ±1.0 %RH
Pressure: 300 to 1250 hPa ±0.5 hPa
Temperature: −20 to 50 °C: ±0.2 °C

Sensorbee Particle Matter Module

The Particle Matter Module, are a rugged high accuracy sensor built for outdoor use. It have a high air flow rate for robust PM10 readings, as well as heating element that make help improve accuracy in high humidity situations. The SB8202 Air Pro 2 MCERTS particle matter module needs to be MCERTS Compatible to keep it's certification.

■ SB4102 - Particle Matter Module MCERTS Compatible

■ SB4103 - Particle Matter Module

PARTICLE SENSOR:

Type:
Optical particle counter

Heating element:
Heating element active when >60% humidity.

Mass/Number Concentration Range & Precision:
PM1.0: 0.3-1.0µm part.size - ±5% precision(µg/m3)/(#/cm3)
PM2.5: 0.3-2.5µm part.size - ±5% precision(µg/m3)/(#/cm3)
PM10: 0.3-10.0µm part.size - ±10% precision(µg/m3)/(#/cm3)

Airflow: 2.5 lpm
Resolution: 1 µg/m3

Concentration Ranges:
0 to 1000 µg/m3 Mass Concentration
0 to 2600 #/cm3 Number Concentration

Bins (pcs/L):
0.3-0.5µm
0.5-1µm
1-2.5µm
2.5-5µm
5-10µm

MODULE:

Dimensions: 70 x 60 x 26 mm
Weight: 65 gram

Enclosure:
Polyamide

Operational Life:
>2 Years

Operating Temperature:
-20 to +60°C

Recommended Humidity range:
0 to 95 %RH

MCERTS Compatible calibration:
Module is individually 3-point-calibrated, and shipped with its own calibration certificate.

Sensorbee Sound Level Meter

The Sensorbee Sound Level Meter is an Add-on product that can be added to the Pro2 unit. It captures real-time noise data with an integrated microphone, analyzes it in A-weighted decibels for human hearing. Configurable alerts and data reporting comply with EU noise regulation directives.

■ SB4652 - Sound Level Meter

Measurement Range:
20 Hz to 10 kHz
40 to 100 dBA ±2 dBA

Meassurement units:
LAeq (A-weighted Equivalent Continuous)
LAFmax, LAFmin
L05, L10, L50, L90, L95

Dimensions:
∅12.8 x 45 mm

Tycpical accuracy:
±1 dB(A)

Module Operational Life:
2+ Years

Mounting:
Onto Pro2 base unit

Weight:
10 gram

Enclosure:
Polyamide

Operating Temperature:
-20 to +60°C

Operating Humidity:
0 to 99 %RH

Sensorbee Vibration Sensor

The SB3641 is a durable triaxial vibration sensor for monitoring construction, blasting, and traffic vibrations. It connects seamlessly with the Sensorbee Pro2 base via Modbus RTU and is built for long-term use in harsh environments with its IP67 weatherproof housing. The SB3641 provides real-time data on Peak Particle Velocity (PPV), Peak Component Particle Velocity (PCPV), and frequency spectrum, offering precise insights for infrastructure and environmental monitoring.

SB3641 - Sensorbee Vibration sensor

Velocity range:
± 200 mm/s

RMS noise:
0.05 mm/s

Interface:
Sensorbee extension port (M8)

Waterproof Rating:
IP67

Bandwidth:
1 to 100 Hz. Signals are sampled at 4096 Hz.

Operating Temperature:
-30 to +60 °C

Temperature Sensor:
-20 to 50 °C: ±0.1 °C

Operating Humidity:
0 to 99 %RH

Regulatory Compliance:
CE

Housing:
Aluminium with 5 mm plate.
Dimensions: 100 x 100 x 30 mm.

Power:
5 to 24VDC

Dimensions:
100 x 100 x 30 mm

Weight:
350 gram

Power:
7 mW

Cable length:
2.5m

Connectivity:
Compatible with Sensorbee Air quality units, using the M8 extension port (Modbus RTU)

Compliance Standards:
BS 7385-1, BS 6472-1

Output Data:
PPV,
PCPV (X, Y, Z),
Peak Frequency (X, Y, Z),
PPV FFT spectrum peak amplitude,
Temperature

Data Visualization:
The Sensorbee Cloud Platform displays sensor data in real-time and historical views, offering detailed visualizations such as PPV graphs, PCPV/requency plots, and FFT analysis.

Sensorbee EnviroSense Module

The SB4502 EnviroSense Module is a combined environmental sensor module designed for meteorological and climate monitoring applications. This module provides high-accuracy measurement of temperature (±0.2 °C), humidity (±1.5 %RH), and barometric pressure (300 to 1250 hPa), making it suitable for ambient environmental assessment, weather monitoring, and climate data collection applications."

SB4502 EnviroSense Module

Humidity Accuracy:
0 to 95 %RH: ±1.5 %RH
95 to 100 %RH: ±1.75 %RH
(20 to 75 %RH (15 to 55 °C): ±1.0 %RH)

Temperature Accuracy:
–20 to 50 °C: ±0.2 °C

Pressure:
300 to 1250 hPa ±0.5 hPa

Regulatory Compliance:
CE

Dimensions:
⌀20 mm x 24 mm

Weight:
5 gram

Enclosure:
Polyamide

Operating Temperature:
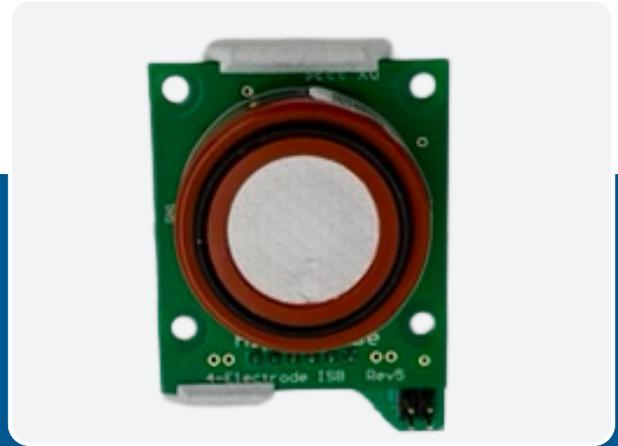-20 to +60 °C

Operating Humidity:
0 to 100 %RH

Module Operational Life:
> 2 years

Sensorbee Nitrogen Dioxide (NO2) Gas Sensor

The SB4202 Nitrogen Dioxide Sensor is an electrochemical gas sensor module designed for environmental air quality monitoring applications. This sensor provides sensitive ppb-level detection of nitrogen dioxide (NO_2) from 0 to 10,000 ppb, making it suitable for ambient air quality assessment, traffic emission monitoring, and environmental compliance applications.

SB4202 - Nitrogen Dioxide Sensor (NO2)

Measurement Range:
0 - 10,000 ppb

Resolution:
1 ppb

Limit of detection:
3 ppb (Spec:CEN/TS 17660-1:2022)

Repeatability:
4 ppb (Spec:CEN/TS 17660-1:2022)

Response Time:
< 80 sec

Guarantee range:
20 ppm

Typical Accuracy:
±7 ppb

Sensor type:
Electrochemical

Dimensions & Weight:
55 x 40 x 30 mm, 25 gram

Enclosure:
Polyamide

Operating Temperature:
-30 to +40 °C

Operating Pressure:
800 to 1200 hPa
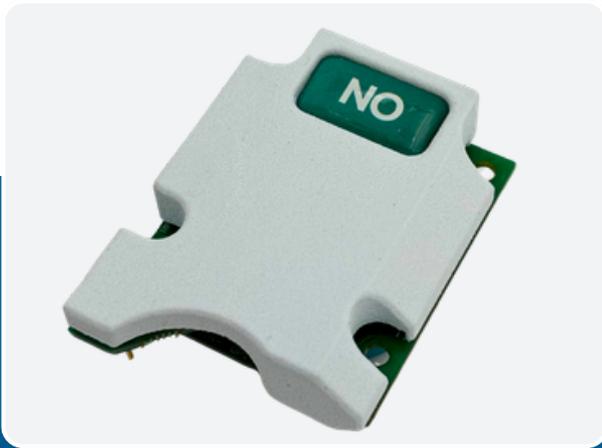
Operating Humidity:
15 to 85 %RH

Module Operational Life:
> 1 Year

Sensorbee Nitric Oxide (NO) Gas Sensor

The SB4242 Nitric Oxide Sensor is an electrochemical gas sensor module designed for environmental air quality monitoring applications. This sensor provides sensitive ppb-level detection of nitric oxide (NO) from 0 to 5,000 ppb, making it suitable for ambient air quality assessment, traffic emission monitoring, and environmental compliance applications.

SB4242 - Nitric Oxide Sensor (NO)

Measurement Range:
0 - 5,000 ppb

Resolution:
1 ppb

Limit of detection:
3 ppb (Spec:CEN/TS 17660-1:2022)

Repeatability:
4 ppb (Spec:CEN/TS 17660-1:2022)

Response Time:
< 45 sec

Guarantee range:
20 ppm

Typical Accuracy:
±7 ppb

Sensor type:
Electrochemical

Dimensions & Weight:
55 x 40 x 30 mm, 25 gram

Enclosure:
Polyamide

Operating Temperature:
-30 to +50 °C

Operating Pressure:
800 to 1200 hPa

Operating Humidity:
15 to 85 %RH

Module Operational Life:
> 1 Year

Sensorbee Carbon Monoxide (CO) Gas Sensor

The SB4262 Carbon Monoxide Sensor is an electrochemical gas sensor module designed for environmental air quality monitoring applications. This sensor provides sensitive ppb-level detection of carbon monoxide (CO) from 0 to 7,000 ppb, making it suitable for ambient air quality assessment, traffic emission monitoring, and environmental compliance applications.

SB4262 - Carbon Monoxide sensor (CO)

Measurement Range:
0 - 7,000 ppb

Resolution:
10 ppb

Limit of detection:
10 ppb (Spec:CEN/TS 17660-1:2022)

Repeatability:
20 ppb (Spec:CEN/TS 17660-1:2022)

Response Time:
< 30 sec

Guarantee range:
1000 ppm

Typical Accuracy:
±80 ppb

Sensor type:
Electrochemical

Dimensions & Weight:
55 x 40 x 30 mm, 25 gram

Enclosure:
Polyamide

Operating Temperature:
-30 to +50 °C

Operating Pressure:
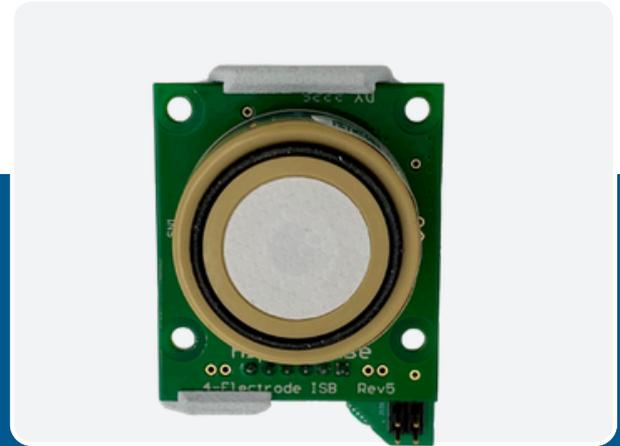800 to 1200 hPa

Operating Humidity:
15 to 90 %RH

Module Operational Life:
> 1 Year

Sensorbee Ozone (O3) Gas Sensor

The SB4272 Ozone Sensor is an electrochemical gas sensor module designed for environmental air quality monitoring applications. This sensor provides sensitive ppb-level detection of ozone (O_3) from 0 to 10,000 ppb, making it suitable for ambient air quality assessment, photochemical smog monitoring, and environmental compliance applications."

SB4272 - Ozone Sensor (O3) (+ NO2)

Measurement Range:
0 - 10,000 ppb

Resolution:
1 ppb

Limit of detection:
3 ppb (Spec:CEN/TS 17660-1:2022)

Repeatability:
4 ppb (Spec:CEN/TS 17660-1:2022)

Response Time:
< 80 sec

Guarantee range:
20 ppm

Typical Accuracy:
±8 ppb

Sensor type:
Electrochemical

Dimensions & Weight:
55 x 40 x 30 mm, 25 gram

Enclosure:
Polyamide

Operating Temperature:
-30 to +40 °C

Operating Pressure:
800 to 1200 hPa

Operating Humidity:
15 to 85 %RH

Module Operational Life:
> 1 Year

Sensorbee Sulfur Dioxide (SO2) Gas Sensor

The SB4252 Sulfur Dioxide Sensor is an electrochemical gas sensor module designed for environmental air quality monitoring applications. This sensor provides sensitive ppb-level detection of sulfur dioxide (SO_2) from 0 to 10,000 ppb, making it suitable for ambient air quality assessment, emission monitoring, and environmental compliance applications.

SB4252 - Sulphur Dioxide Sensor (SO2)

Measurement Range:
0 - 10,000 ppb

Resolution:
1 ppb

Limit of detection:
3 ppb (Spec:CEN/TS 17660-1:2022)

Repeatability:
5 ppb (Spec:CEN/TS 17660-1:2022)

Response Time:
< 80 sec

Guarantee range:
20 ppm

Typical Accuracy:
±15 ppb

Sensor type:
Electrochemical

Dimensions & Weight:
55 x 40 x 30 mm, 25 gram

Enclosure:
Polyamide

Operating Temperature:
-30 to +40 °C

Operating Pressure:
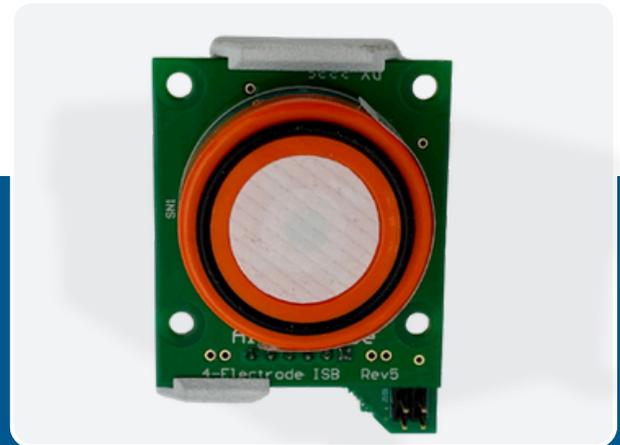800 to 1200 hPa

Operating Humidity:
15 to 85 %RH

Module Operational Life:
> 1 Year

Sensorbee Hydrogen Sulfide (H2S) Gas Sensor

The SB4282 Hydrogen Sulfide Sensor is an electrochemical gas sensor module designed for environmental air quality monitoring applications. This sensor provides sensitive ppb-level detection of hydrogen sulfide (H_2S) concentrations, making it suitable for ambient air quality assessment, odour monitoring near wastewater treatment plants, and environmental compliance applications.

■ SB4282 - Hydrogen Sulfide Sensor (H2S)

Measurement Range:
0 - 2,000 ppb

Resolution:
1 ppb

Limit of detection:
2 ppb

Repeatability:
4 ppb

Response Time:
< 55 sec

Guarantee range:
100 ppm

Typical Accuracy:
±10 ppb

Sensor type:
Electrochemical

Dimensions & Weight:
55 x 40 x 30 mm, 25 gram

Enclosure:
Polyamide

Operating Temperature:
-30 to +50 °C

Operating Pressure:
800 to 1200 hPa
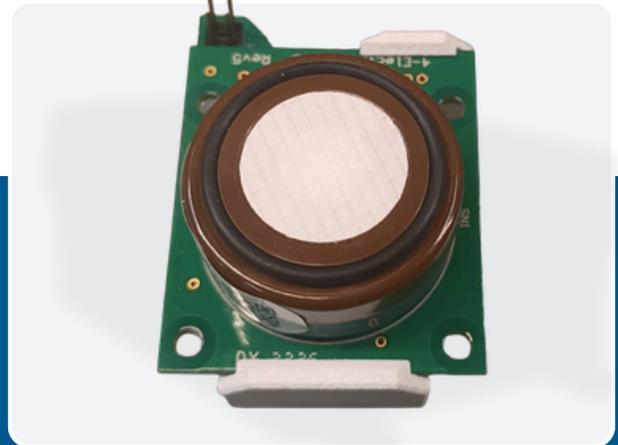
Operating Humidity:
15 to 90 %RH

Module Operational Life:
> 1 Year

Sensorbee Volatile Organic Compound (VOC) Gas Sensor

The SB4292 Volatile Organic Compound Sensor is an electrochemical gas sensor module designed for environmental air quality monitoring. This sensor provides sensitive ppb-level detection of volatile organic compounds (VOCs) from 0 to 2,000 ppb, making it suitable for ambient air quality assessment, emission monitoring, and process control applications.

SB4292 - Volatile Organic Compound Sensor (VOC)

Measurement Range:
0 - 2,000 ppb

Resolution:
1 ppb

Limit of detection:
2 ppb

Repeatability:
5 ppb

Response Time:
< 30 sec

Guarantee range:
50 ppm

Typical Accuracy:
±130 ppb

Sensor type:
Electrochemical

Dimensions & Weight:
55 x 40 x 30 mm, 25 gram

Enclosure:
Polyamide

Operating Temperature:
-30 to +50 °C

Operating Pressure:
800 to 1200 hPa

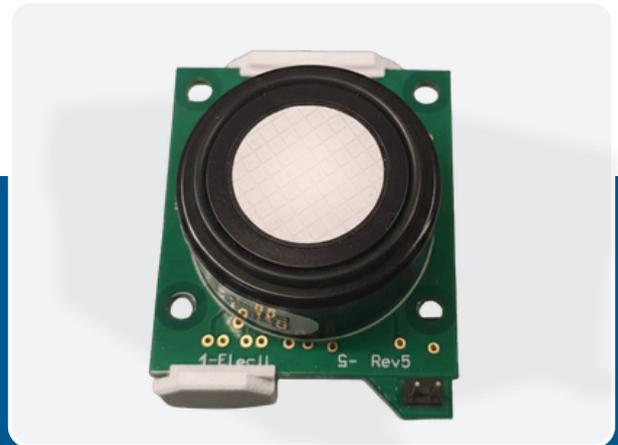**Operating Humidity:**
15 to 90 %RH

Module Operational Life:
> 1 Year

Sensorbee Ammonia (NH$_3$) Gas Sensor

The SB4232 Ammonia Sensor is an electrochemical gas sensor module designed for environmental air quality monitoring. This sensor provides reliable detection of ammonia (NH$_3$) concentrations from 0 to 100 ppm, making it suitable for both ambient air quality assessment and process control applications.

SB4232 - Ammonia (NH$_3$) Gas Sensor

Measurement Range:
0 - 100 ppm

Resolution:
10 ppb

Limit of detection:
100 ppb

Repeatability:
50 ppb

Response Time:
< 150 sec

Guarantee range:
200 ppm

Typical Accuracy:
±5 ppm

Sensor type:
Electrochemical

Dimensions & Weight:
55 x 40 x 30 mm, 25 gram

Enclosure:
Polyamide

Operating Temperature:
-30 to +50 °C

Operating Pressure:
800 to 1200 hPa

Operating Humidity:
15 to 90 %RH

Module Operational Life:
> 1 Year

Sensorbee Carbon Dioxide Gas Sensor (CO2)

The SB4212 Carbon Dioxide Sensor is a photoacoustic NDIR gas sensor module designed for accurate outdoor CO_2 monitoring. With a specified measurement range of 400 to 5,000 ppm and integrated temperature and humidity compensation, it delivers reliable long-term measurements with a module operational life exceeding three years.

SB4212 - Carbon Dioxide Sensor (CO2)

Sensor type:
Photoacoustic

Measurement Range:
Maximum 0 to 40,000 ppm
Specified Range 400 to 5,000 ppm

Measurement Accuracy:
400 to 1,000 ppm: ± (50 ppm + 2.5 %)
1,001 to 2,000 ppm: ± (50 ppm + 3 %)
2,001 to 5,000 ppm: ± (40 ppm + 5 %)

Resolution:
1 ppm

Response Time:
< 60 sec

Dimensions:
∅20 mm x 24 mm

Weight:
8 gram

Enclosure:
Polyamide

Operating Temperature:
-10 to +60 °C

Operating Humidity:
0 to 95 %RH

Module Operational Life:
> 3 Year

Sensorbee Wind Speed & Direction Sensor

The ultrasonic wind sensor delivers precise measurement of both wind speed and direction using advanced ultrasonic technology. With no moving parts, this sensor offers long-lasting performance and minimal maintenance. The wind sensor seamlessly integrates with the Sensorbee Pro series.

SB3611 - Wind Speed & Direction Sensor

Wind Speed Range:
0.5 to 45 m/s

Accuracy:
1% RMS at 10 m/s

Threshold:
0.5 m/s

Wind accuracy:
0.10 m/s

Direction accuracy::
±1° RMS at 10 m/s

Direction Range:
0-359 °

Dimensions:
330 x 65 x 230 mm

Weight:
450 gram

Operating Temperature:
-15 °C to +55 °C

Operating Humidity:
0 to 100 %RH

Module Operational Life:
> 2 Year

Mounting bracket
universal wall / pole bracket
2x metal hose clamp included

Sensorbee Wind & Rain Combo Sensor

Innovating all-weather monitoring, the Sensorbee SB3602 merges advanced ultrasonic wind measurement with optical infrared rainfall detection in one maintenance-free unit. Its robust, no-moving-parts design ensures long-lasting performance. With 0.2mm rainfall resolution and wind speed up to 45 m/s, it easily integrates with Sensorbee systems for real-time data on both wind and precipitation in a single durable sensor.

SB3602 - Sensorbee Wind & Rain Combo Sensor

Wind Measurement Method:
Ultrasonic wind meassurement

Wind Speed Range:
0.5 to 45 m/s

Wind Accuracy:
1% RMS at 10 m/s, with 0.5 m/s threshold

Wind Direction accuracy::
±1° RMS at 10 m/s

Precipitation Measurement Method:
Infrared optical sensor

Resolution & Accuracy:
0.2 mm, ±10 %

Dimensions:
330 x 65 x 230 mm

Weight:
950 gram

Operating Temperature:
Wins Sensor:-15 °C to +55 °C
Rain Sensor: 0 °C to +55 °C

Operating Humidity:
0 to 100 %RH

Module Operational Life:
> 2 Year

Mounting bracket
universal wall / pole bracket
2x metal hose clamp included

Sensorbee Pyranometer

Innovating precision solar analysis, the Sensorbee Pyranometer merges an ISO 9060 Spectrally Flat Class C thermopile with a rugged glass dome in one maintenance-free unit. Its robust, anodized aluminum design ensures long-lasting performance with a unique ball-leveling mechanism for reliable installation. With a spectral range of 285 to 3000 nm and digital Modbus output, it easily integrates with Sensorbee systems for real-time data on global solar irradiance in a single durable sensor.

SB3662 - Sensorbee Wind & Rain Combo Sensor

Measurement Method:
hemispherical solar radiation

Spectral Range:
285 to 3000 x 10^{-9} m

Calibration uncertainty:
< 2.4 % (k = 2)

Transmitted Range:
0-1600 W/m²

ISO 9060:2018 classification:
Spectrally flat Class C pyranometer

IEC 61724-1:2021 compliance
Class B

Dimensions:
330 x 65 x 230 mm

Weight:
500 gram

Operating Temperature:
-15 °C to +55 °C

Operating Humidity:
0 to 100 %RH

Module Operational Life:
> 2 Year

Mounting bracket
universal wall / pole bracket
2x metal hose clamp included

Sensorbee Precision Temperature & Humidity Sensor with Solar Shield

Redefining environmental precision, the Sensorbee Precision Temp & Humidity Sensor with Solar Shield combines laboratory-grade temperature, humidity, and barometric pressure sensing into a single, ultra-low power unit. Its advanced 3-in-1 probe is housed within a double-helix solar shield, utilizing a unique spiral airflow design to reject dirt and sand while eliminating solar heating errors without the need for fans. With Class A temperature accuracy (±0.2°C) and a robust RS-485 Modbus interface, it seamlessly integrates with Sensorbee systems to deliver WMO-compliant meteorological data in the harshest climates.

■ SB3104 - Sensorbee Wind & Rain Combo Sensor

Temperature range:
-40 to 105 °C

Temperature Accuracy:
±0.1 °C (0...65 °C)
±0.2 °C (-45...65 °C)

Relative Humidity Range:
0 to 100%

Relative Humidity Accuracy:
±1.5 % RH at 25 °C Hysteresis ±0.8 %

Barometric Pressure Accuracy:
±0.5 hPa (0...55 °C)

Response Time:
4 to 30 s

Dimensions:
330 x 65 x 230 mm

Weight:
500 gram

Operating Temperature:
-40 °C to +105 °C

Operating Humidity:
0 to 100 %RH

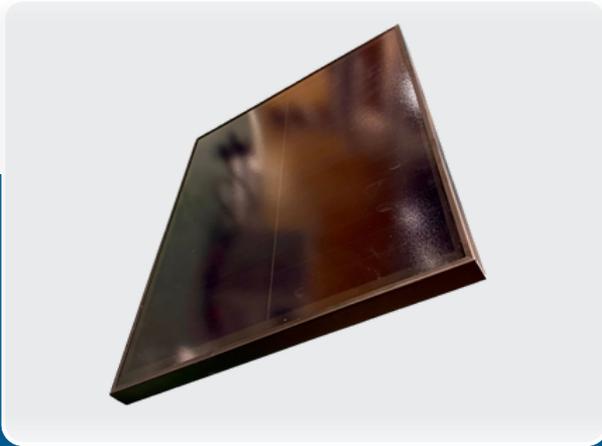**Module Operational Life:**
> 2 Year

Mounting bracket
universal wall / pole bracket
2x metal hose clamp included

Sensorbee
Solar Panel

The 30W solar panel offers flexible mounting options for installations on poles or walls. With adjustable angle to maximize sun exposure, this panel provides a sustainable and efficient power solution. It can easily be connected to the Air Cellular products.

SB6104 - 30W Solar Panel

Dimensions:
450 x 360 x 120 mm

Weight:
2.6 kg

Operating Temperature:
-30 to +60 °C

Operating Humidity:
0 to 99 %RH

Cable Length:
5 m cable with M8F-4 connector

Mounting:
Pole/Wall mounting
2x Steel Hose Included

Regulatory Compliance:
CE

Sensorbee
Solar Panel

The 14W solar panel offers flexible mounting options for installations on poles or walls. With adjustable angle to maximize sun exposure, this panel provides a sustainable and efficient power solution. It can easily be connected to the Air Cellular products.

SB6103 - 14W Solar Panel

Dimensions:
290 x 280 x 110 mm

Weight:
1.3 kg

Operating Temperature:
-30 to +60 °C

Operating Humidity:
0 to 99 %RH

Cable Length:
0.5 m cable with M8F-4 connector

Mounting:
Pole/Wall mounting
2x Steel Hose Included

Regulatory Compliance:
CE

Sensorbee
Dual 30W Solar Panel Carry Case

The rugged carry case is designed for efficient field deployment of Sensorbee Pro2 monitoring solutions. It securely stores and transports two SB6104 30W solar panels, keeping them protected during transit to and between job sites. With built-in compartments for pole-mount hardware and a screwdriver, everything needed for a quick solar panel installation is kept organized in one waterproof IP67-rated case.

■ SB6212 - Dual 30W Solar Panel Carry Case

Dimensions:
483 x 293 x 446 mm

Weight:
5.2 kg (11 Kg with Solar Panels)

Operating Temperature:
-40 to +80 °C

Enviroment:
Water proof, IP 67

Addons:
Screwdriver, Pole-mount compartment

Storage:
2 x SB6104 30W solar Panels
(not included)

Regulatory Compliance:
CE

Sensorbee
External Battery Pack 100 Ah

Reliable off-grid power for the Sensorbee Pro2 and compatible DC equipment. The 100 Ah LiFePO$_4$ battery delivers 4–6 weeks of autonomous operation in a rugged, IP66/IP67-rated enclosure weighing just 12.5 kg. Connect up to two 30 W solar panels via the integrated 5 A charge controller for year-round deployment. Quick-swap pole/wall mounting, weatherproof M8 connectors, and built-in BMS protection make field installation fast and safe. Over 5,000 charge cycles ensure years of dependable service.

■ SB6221 - External Battery Pack 100 Ah

Dimensions:
300 x 300 x 260 mm

Battery:
100 Ah, 12.8V (1,280 Wh)
5,000 Cycle life (80%)

Operating Temperature:
-20 to +55 °C (Discharge)
-0 to +45 °C (Charging)

Charger:
24V, 3A (via Solar connector)
10 hours charging time

Connectors:
2 x Solar panel in M8M-4
12V output M8F-4

Mounting:
Pole/Wall mounting
3x Steel Hose Included

Regulatory Compliance:
CE, IP65

Weight:
14 kg

Sensorbee
External Battery Carry Case

The rugged carry case is designed for efficient field deployment of Sensorbee Pro2 monitoring solutions. It securely stores and transports the SB6201 Power Unit, keeping it protected during transit to and between job sites. With built-in compartments for mounting hardware and cables, everything needed for a quick power installation is kept organized in one waterproof IP67-rated case.

SB6212 - External Power Box Carry Case

Dimensions:
483 x 293 x 446 mm

Addons:
Screwdriver, Pole-mount compartment

Weight:
5.2 kg (11 Kg with battery pack)

Storage:
SB6221 External Power Box including cable and pole mount

Operating Temperature:
-40 to +80 °C

Regulatory Compliance:
CE

Enviroment:
Water proof, IP 67

Sensorbee
Power Supply

Elevate your power setup with the Charger for SB6221 External Battery Pack 100 Ah 4A 24V. Engineered specifically for high-demand electronics like professional heavy duty battery, this 96W converter provides a stable, flicker-free energy source to ensure your equipment performs at its peak.

- **SB6226 - UK Charger for SB6221 External Battery Pack 100 Ah 4A 24V**
- **SB6227 - EU Charger for SB6221 External Battery Pack 100 Ah 4A 24V**

Power Adapter: **24**V 4A Power Adapter

Input: 100 to 240VAC

Output: 24 VDC, 4 A, 4-Pin Connector

Included blades: EU/UK

Operating Temperature: -20 °C to +40 °C

Dimensions: 115x50x30mm

IP Rating: IP65

Cable lenght: 5m
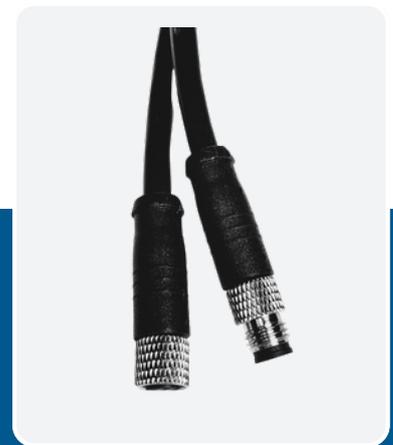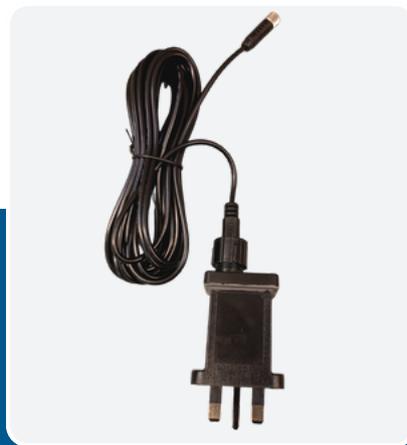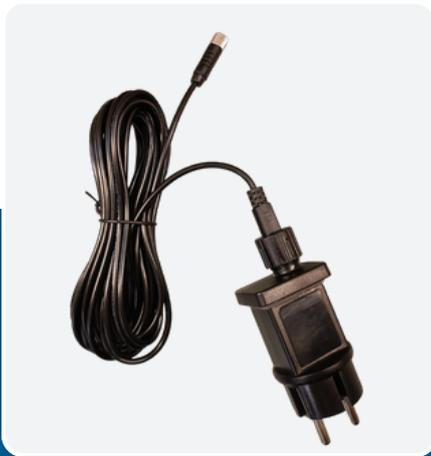
Operating Environment: Indoor

Sensorbee
Power Supply

Our compact 12V DC power supply provides a consistent, regulated voltage output, making it the ideal choice for robust solutions or for cloudy enviroment.
The 5m cable makes it very versatile while still having IP Rating of IP65.
The Power adapter is available for EU and UK standard power sockets.

- **SB9032- 12V EU Power Adapter, IP65 5m Cable (M8, 4-pos)**
- **SB9033 - 12V UK Power Adapter, IP65 5m Cable (M8, 4-pos)**
- **SB9022 - 2m Power Cable Extender**

Power Adapter: 12V 1A Power Adapter

Input: 100 to 240VAC

Output: 12 VDC, 1 A, 4-Pin Connector

Included blades: EU/UK

Operating Temperature: -20 °C to +40 °C

Dimensions: 100x50x42mm

IP Rating: IP65

Cable lenght: 5m

Operating Environment: Indoor and outdoor

Sensorbee
External Sensor Cable

Extension cables for external sensors are available to ensure flexible placement options. These cables come in lengths of 1m (SB9112), 2m (SB9114), and 5m (SB9116). Each cable features two 6 pins M8 connectors, one male and one female.

For setups requiring multiple connections, a Y-splitter (SB9131) is provided, allowing for the simultaneous connection of two or more devices.

- **SB9112 - 1 m Sensor Cable**
- **SB9114 - 2 m Sensor Cable**
- **SB9116 - 5 m Sensor Cable**
- **SB9131 - Sensor Cable Splitter**

SB9112:
1 m Sensor Cable Extender

SB9114:
2 m Sensor Cable Extender

SB9116:
5 m Sensor Cable Extender

SB9131:
Sensor Y-Type Cable Splitter
2 to 1 Y Splitter
Female ; Female ; Male