



Sensorbee

Air Quality Front Sensor Module

The Front module have multiple sensors built in. A high performance particle sensor capable of measuring particles from 0.1 μ m to 10 μ m in 7 bins. There are an option to upgrade using a software licence to add a ambient noise sensor. The front module are used in Sensorbee Air Pro products.



Product specification

Module SKU SB3516

Dimensions

61 x 56 x 20 mm

Weight

70 gram

Material

Polyamide

Operating Temperature

-10 °C to +60 °C

Operating Humidity

0 to 95 %RH

Particle Sensor

Type

Optical particle counter

Mass Concentration Range

Pierrra 7100

Mass size Range

7 Binning output PC0.1-PC10

Particle Count (PC) resolution

1 #/Liter

Particle Count (PC) accuracy

±10 %

Sample Flow Rate

0.1 LPM

Temperature Sensor

Range and Accuracy

-40°C to 60°C, ± 0.3°C

Humidity Sensor

Range and Accuracy

0...100 %RH, ±3 %RH

VOC Sensor Range

0 to 1,000 ppm (VOC Index 0-500)

NOX Sensor Range

0-10,000 ppb (NOX Index 0-500)

Pressure Sensor

300 ... 1250 hPa

Accuracy

±0.50 hPa

Module Operational Life

24 months

Noise Meter(extra license required)

Range

55-100 dBA

Typical accuracy

±4 dBA

Frequency range

20 - 12k Hz

Sensorbee Ambient Noise add-on License



Introducing our ambient noise license, specially designed for use with Sensorbee Air Pro and Sensorbee Air Lite units. The license enable you to enjoy uninterrupted Ambient noise service for the full lifespan of your base unit, even if sensor modules are exchanged.

Product specification Module SKU SB1101

The Sensorbee Ambient noise enhancer is an innovative software upgrade designed to enable your Sensorbee Air Quality Sensors to also measure noise levels in your environment. Built with advanced dBA noise calculation technology, our add-on license allows your existing Sensorbee units to capture, analyze, and report noise pollution data in real-time, along with the air quality metrics.

Our add-on software license integrates seamlessly with your current Sensorbee Air Quality Sensors, turning them into comprehensive air and noise pollution monitors. The license are valid for a base unit over the full use, even if sensor modules are being exchanged during service life.

Our license tokens can be braght and installed in three ways. Firstly, you can order the base unit together with a noise license, and the license will be at factory.

Alternatively, you can enable the license through the Sensorbee cloud service or receive a licence token generated specifically for your base unit and install the token to the device using a terminal.

The accuracy of the ambient noise sensor are determined by each product. for more information look at Sensorbee Pro front module as well as Sensorbee Lite product specifications.

Sensorbee CO2 Gas Module



The CO2 gas module has a solid state sensor that detects CO2 concentration.

The CO2 gas modules are pre-calibrated and easy exchangeable.

Temperature and humidity compensation by algorithm.



Product specification Type SKU SB3552

Gas Module Dimensions

58 x 21 x 22 mm

Weight

20 gram

Enclosure

Polyamide

Operating Temperature

-10°C to +60°C

Operating Humidity

0 to 95 %RH

Module Sensor CO2

Sensor type

Photoacoustic sensor technology

CO2 Measurement Range

0 ppm – 40'000 ppm

CO2 Accuracy

±(40 ppm + 5 %)

Module Operational Life

> 3 years

Sensorbee NO2 Gas Module



The NO2 gas module has a built-in electrochemical sensor that detects NO2 concentration.

The gas modules are pre-calibrated and easy exchangeable.

Temperature and humidity compensation by algorithm.



Product specification Type SKU SB3532

Gas Module Dimensions

58 x 21 x 22 mm

Weight

20 gram

Enclosure

Polyamide

Operating Temperature

-20°C to +40°C

Operating Humidity

15% to 85 %RH

Gas Sensor

NO2

Type

Electrochemical

Measurement Range

0-5000 ppb

Typical Accuracy

±5ppb

Module Operational Life

>12 months

Sensorbee NO Gas Module



The NO gas module has a built-in electrochemical sensor that detects NO concentration.

The gas modules are pre-calibrated and easy exchangeable.

Temperature and humidity compensation by algorithm.



Product specification Type SKU SB3532

Gas Module Dimensions

58 x 21 x 22 mm

Weight

20 gram

Enclosure

Polyamide

Operating Temperature

-20°C to +40°C

Operating Humidity

15% to 85 %RH

Gas Sensor

NO

Type

Electrochemical

Measurement Range

0-5000 ppb

Typical Accuracy

±5ppb

Module Operational Life

>12 months

Sensorbee CO Gas Module



The CO gas module has a built-in electrochemical sensor that detects CO concentration.

The CO gas modules are pre-calibrated and easy exchangeable.

Temperature and humidity compensation by algorithm.



Product specification Type SKU SB3543

Gas Module Dimensions

58 x 21 x 22 mm

Weight

20 gram

Enclosure

Polyamide

Operating Temperature

-30°C to +40°C

Operating Humidity

15 to 85 %RH

Type

Electrochemical

Measurement Range

0-12000 ppb

Typical Accuracy

±0.08 ppm

Module Operational Life

>12 months

Sensorbee O3 Gas Module



The Ozone gas module has a built-in electrochemical sensor that detects O₃ concentration.

The gas modules are pre-calibrated and easy exchangeable.

Temperature and humidity compensation by algorithm.



Product specification Type SKU SB3534

Gas Module Dimensions

58 x 21 x 22 mm

Weight

20 gram

Enclosure

Polyamide

Operating Temperature

-20°C to +40°C

Operating Humidity

15% to 85 %RH

Type

Electrochemical Ozone sensor

O₃ Measurement Range

0-2000 ppb

Typical Accuracy

±5ppb

Module Operational Life

>12 months

Sensorbee SO2 Gas Module



The SO2 gas module has a built-in electrochemical sensor that detects SO2 concentration.

The gas modules are pre-calibrated and easy exchangeable.

Temperature and humidity compensation by algorithm.



Product specification Type SKU SB3542

Gas Module Dimensions

58 x 21 x 22 mm

Weight

20 gram

Enclosure

Polyamide

Operating Temperature

-20°C to +40°C

Operating Humidity

15% to 85 %RH

Gas Sensor

SO2

Type

Electrochemical

Measurement Range

0-10000 ppb

Typical Accuracy

±15ppb

Module Operational Life

>12 months

Sensorbee External ultrasonic Anemometer



It measures both wind speed and wind direction. It is an ultrasonic anemometer.

The unit can be mounted to a pole or a flat vertical surface. Easily connect to Sensorbee Air quality unit using the external connector.



Product specification Type SKU SB3611

Wind range

0.12 to 40 m/s

Wind resolution

0.05 m/s

Wind accuracy

0.12 m/s

Weight

200 gr

Direction resolution

1°

Direction accuracy

± 1.5°

Operating temperature

-15°C to 55°C

Dimensions

300 x Ø16 mm

Sensorbee External Rain Gauge



The rain gauge are reliable and simple to maintain, it can handle all climates. Proven self-emptying bucket technology to ensure uninterrupted measurement of precipitation regardless of amount and intensity.

It measures rain by means of a standardised orifice funnel. The design offers a long-term accuracy because of its counterweight is not affected by dirt and dust accumulation. Connect to Sensorbee Air quality unit using the external connector.



Product specification Type SKU SB3631

Dimensions

120 x 55 x 55 mm

Weight

300 gram

Material

Polyamide

Operating Temperature

-40°C to +60°C

Operating Humidity

0 to 99 %RH

Typical accuracy

±0.2 mm

Resolution

0.2 mm

Measuring range

-0°C to +60°C

Orifice area

Ø200 cm²

Mounting bracket

universal pole bracket Included

Bird protection spikes

Included