



Comprehensive Indoor Air Quality Monitoring

HibouAir SSD002/4B is a new generation indoor air quality sensor that combines particulate matter (PM), CO₂ and additional gas monitoring with wireless connectivity.

The sensor uses advanced laser scattering and NDIR technologies to provide accurate and stable measurements. Additional gas sensors use high-reliability solid polymer electrochemical technology with intelligent algorithm calculation.

With a built-in self-correcting algorithm, the sensor maintains its accuracy over time.



Temperature



Humidity



PM1.0 / PM2.5 / PM10



Carbon Dioxide



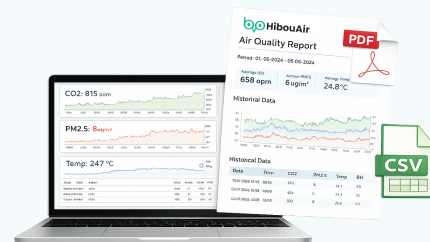
Additional Gases

DATA LOGGER & REPORTS

Smart Data Logging & Historical Reports

Capture more. Store longer. Report clearly.

HibouAir includes a built-in data logger with programmable storage intervals in 1-minute steps. Choose the interval that fits your monitoring needs and store measurements for days or even months. Access historical data and generate professional PDF reports for analysis, documentation, and sharing.



Interval Control

Flexible logging with programmable storage intervals in 1-minute steps.

Store Data for Days or Months

Adjust the interval to balance measurement detail and long-term storage duration.

Historical PDF Reports

Review historical trends and export clean PDF reports for documentation and sharing.

Actionable Trend Visibility

Turn historical measurements into clear insights for smarter air-quality decisions.

Technical Specifications

Core Sensor Specifications

Included in every SSD002/4B variant

Ambient Temperature :

Range: -5 to 65°C ,

Accuracy: ± 0.5°C

Humidity :

Range: 0–100% r.H.,

Accuracy: ± 4 % r.H.

Particulate Matter (PM1.0, PM2.5, PM10) :

Range: 0 to 1,000 µg/m³

Accuracy: ± 5 µg/m³ (between 0 ~ 35 µg/m³)
± 10 % (between 35 ~ 1,000 µg/m³)

CO₂ (Carbon Dioxide)

Range: 400 ppm – 10,000 ppm,

Accuracy: ± (30 ppm / 3%)

All SSD002/4B variant includes temperature, humidity, PM and CO2 monitoring.

Device Specifications

Power & Connectivity

Power : +5VDC input on micro USB connector.

Connectivity: Bluetooth Low Energy 5.2

Mechanical & Environmental

Working conditions: -20°C to +65°C,
Humidity: 100%

Size: 88 x 88 x 33 mm

Weight: 250g

Certification: CE, RoHS, REACH

Color: White

Optional Additional Gas Configurations

Depending on the selected variant, one or two additional gas sensors are included alongside the standard measurement.

Model	Additional Gas	Range	Resolution
SSD002/4B-1	CO (Carbon Monoxide) O ₂ (Oxygen)	0 - 100 ppm 0 - 25% Vol.,	0.1 ppm 0,01% Vol.
SSD002/4B-2	H ₂ (Hydrogen) O ₂ (Oxygen)	0 - 5% Vol 0 - 25% Vol.,	0,01% Vol. 0,01% Vol.
SSD002/4B-3	HCHO (Formaldehyde)	0 - 1000 ppb	1 ppb
SSD002/4B-4	CO (Carbon Monoxide)	0 - 100 ppm	0.1 ppm
SSD002/4B-5	NO ₂ (Nitrogen Dioxide)	0 - 5 ppm	< 0.005 ppm
SSD002/4B-6	O ₃ (Ozone)	0 - 5 ppm	< 0.01 ppm
SSD002/4B-7	H ₂ S (Hydrogen sulfide)	0 - 100ppm	0.01 ppm

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VAT registration number

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