



# Sensedge Go Commercial IAQ Monitor



The Sensedge Go is Kaiterra's best wireless indoor air quality monitor ever designed, featuring an extremely fast installation, and the longest battery life on the market. The Sensedge Go monitors up to 14 parameters, is RESET Grade B certified, and is part of the Works with WELL catalog.



## Product Features

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### Easy installation

Peel-and-stick wall installation  
Electrical junction box installation

### Long-range gateway

Sub-Ghz wireless communication;  
Penetrate 3~5 floors and reach over  
one mile horizontally

### Long battery life

Up to 8 years of battery life<sup>1</sup> using  
Adaptive Sampling™ and over 4 years  
using a high-frequency fixed sampling  
rate<sup>2, 3</sup>

### Replaceable sensor modules

Modules can be swapped in seconds,  
providing a cost-effective way to  
maintain long-term accuracy and avoid  
the traditional calibration process.

# Sensedge Go is Available in 3 Models

|  | SE-300W   | SE-300A   | SE-300L   |
|--|---|---|---|
|  | <p><b>Sensedge Go for WELL</b></p> <p>Made for WELL projects to earn 9 points and replace performance testing for Air &amp; Thermal Comfort</p> | <p><b>Sensedge Go</b></p> <p>Best for commercial buildings and workplace wellbeing projects</p> | <p><b>Sensedge Go Core</b></p> <p>Great for increasing monitoring coverage and data density</p> |
| CO <sub>2</sub>  | ✓   | ✓   | ✓   |
| Temperature  | ✓   | ✓   | ✓   |
| Relative Humidity  | ✓   | ✓   | ✓   |
| Occupancy  | ✓   | ✓   | ✓   |
| Light (Lux and spectrum)   | ✓   | ✓   | ✓   |
| Atmospheric Pressure   | ✓   | ✓   | ✓   |
| Particulate Matter (PM <sub>1</sub> , PM <sub>2.5</sub> , PM <sub>10</sub> ) | ✓   | ✓   |   |
| TVOC   | ✓   | ✓   |   |
| NO <sub>2</sub>  | ✓   |   |   |
| CO   | ✓   |   |   |
| O <sub>3</sub>   | ✓   |   |   |

# Sensor Specification

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## Particulate Matter Sensor

(Available in SE-300W, SE-300A)

### Sensor technology

Laser particle sensor (Light scattering)

### Mass concentration size range

PM<sub>2.5</sub>: 0.3 to 2.5 µm

PM<sub>10</sub>: 0.3 to 10.0 µm

### Mass concentration range

0 to 1,000 µg/m<sup>3</sup>

### Mass concentration accuracy for PM<sub>2.5</sub>

0 to 30 µg/m<sup>3</sup>: ±3 µg/m<sup>3</sup>

30 to 1000 µg/m<sup>3</sup>: ±10 % m.v.

### Mass concentration accuracy for PM<sub>10</sub>

0 to 30 µg/m<sup>3</sup>: ±3 µg/m<sup>3</sup>

30 to 1000 µg/m<sup>3</sup>: ±15 % m.v.

### Sensor output resolution

1 µg/m<sup>3</sup>

### Calibration

Calibrated against standardized aerosol mix

### WELL specification requirements

Adjustable particle density (K-factor) to accommodate project/region specific particulate profile.

Complies with [WELL Performance Verification Guidebook](#) to be used in WELL certification.

## TVOC Sensor

(Available in SE-300W, SE-300A)

### Sensor technology

Multi-pixel metal oxide sensor (MOx)

### Target gas profile

Complex mixture of 22 VOCs<sup>4</sup> as defined by Molhave et al.

### Measurement range

0 - 60,000 ppb

### Accuracy

< ±15 VOC Index points or % m.v. (the larger)

### Sensor output resolution

1 ppb

### Calibration

Ethanol in clean air

### Sampling process

Passive

### WELL specification requirements

Calibration gas: ethanol

Target gas profile (ppb=µg/m<sup>3</sup> conversion factor under STP): 22 VOC mixed per Molhav et al. (1 ppb = 4.57 µg/m<sup>3</sup>)

Complies with [WELL Performance Verification Guidebook](#) to be used in WELL certification.

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## CO<sub>2</sub> Sensor

(Available in all models)

### Sensor technology

Non-dispersive infrared (NDIR)

### Measurement range

400 to 2,000 ppm<sup>5</sup>

Up to 10,000 ppm extended range<sup>6</sup>

### Accuracy

± 40 ppm ± 3%<sup>7</sup> (Comply with ANSI/ASHRAE Standard 62.1-2022)

### Sensor output resolution

1 ppm

### Target gas

CO<sub>2</sub>

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## Nitrogen Dioxide Sensor

(Available in SE-300W)

### Sensor technology

Multi-pixel metal oxide sensor (MOx)

### Measurement range

0 - 10,000 ppb

### Sensor output resolution

1 ppb

### Calibration

NO<sub>2</sub> in clean air

### Precision

< ±20 %<sup>8</sup>

### Sampling process

Passive

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## Temperature Sensor

*(Available in all models)*

### Sensor technology

Digital sensor

### Measurement range

-20 - 100 °C

### Accuracy

±0.2 °C

### Sensor output resolution

0.1 °C

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## Relative Humidity Sensor

*(Available in all models)*

### Sensor technology

Digital sensor

### Measurement range

0 - 100 %RH

### Accuracy

±2 % RH

### Sensor output resolution

0.1 % RH

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## Atmospheric Pressure

*(Available in all models)*

### Sensor Technology

Microelectromechanical systems (MEMS) sensor

### Pressure Range

300-1100 hPa

### Pressure Accuracy

±0.3 hPa

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## Light Sensor

*(Available in all models)*

### Field of view

90 ° horizontal, 90 ° vertical

### Light channels

R/G/B/IR/C

### Measuring Range

0 - 60000 lux

### Color Temperature range

1,000-10,000 K

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## Occupancy Sensor

*(Available in all models)*

**Focus:** 5.2 mm

**Sensing angle:** 120°

**Sensing distance:** 5 m

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## CO & O<sub>3</sub> Sensor

*(Available in SE-300W)*

Coming soon in Q3 2025.

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## Device Specification

### Power

Battery: 6 x Li/SOCI2 AA size

USB-C: 5V 0.5A (Cable not included)

PoE: Via PoE to USB-C converter (Cable not included)

### Battery Life

Up to 8 years of battery life<sup>9</sup> using Adaptive Sampling™ and over 4 years using a high frequency fixed sampling rate<sup>10 11</sup>

### Data Logging & Storage

Data Storage: Cloud storage

Local data storage: 0.5 days

Data sampling: Adaptive Sampling™ to automatically adjust sampling frequency to maximize battery life.

Selected sensors support a configurable sampling rate from 1 minute to 24 hours.

## Connectivity

Frequency range (MHz):

Sub-Ghz wireless communication

IN865/EU868/US915/AU915/KR920/AS923

These frequency bands cover over 200 countries, contact Kaiterra for details on compliance in your location.

Gateway supports cellular<sup>12</sup> and ethernet

## Integration

BACnet/IP via Gateway

API

## Installation

Methods: Peel-and-stick installation for surface mount and drywall mount

Electrical junction box mount with screws

## Modules & Calibration

Compatible modules: KM-300 (Particulate Matter sensor module), KM-308 (O3, NO2 & CO sensor module)

Calibration: Swappable sensor modules

## Certifications

Quality: RESET Grade B

Healthy Building: Works with WELL

## Operating conditions

Operating temperature: -20 - 50 °C

Operating humidity: 5 to 95 %RH, non-condensing

## Size & Weight

155 mm x 126 mm x 35 mm (6.1" x 5.0" x 1.4")

388 g (0.86 lbs)

1. Using Adaptive Sampling™ in a building with 15 devices, located in a typical North American city with mechanical ventilation and strong wireless signal strength to the gateway.
2. During operating hours (9-5, Mon-Fri): one sample per minute for all sensors except particulate matter, and one sample every 10 minutes for particulate matter. Outside of operating hours: one sample every five minutes for all sensors except particulate matter sensor, and one sample every 60 minutes for particulate matter.
3. Actual battery life may vary based on usage, environmental conditions, and other factors.
4. n-Hexane, n-Nonane, n-Decane, n-Undecane, 1-Octane, 1-Decene, Cyclohexane, m-Xylene, Ethylbenzene, 1,2,4-Trimethylbenzene, n-Propylbenzene, a-Pinene, n-Pentanal, n-Hexanal, Iso-propanol, n-Butanol, 2-Butanone, 3-Methyl-3-butanone, 4-Methyl-2-pentanone, n-Butylacetate, Ethoxyethylacetate, 1, 2-Dichloroethane
5. Extended exposure to concentrations below 400 ppm may result in incorrect operation of ABC algorithm and should be avoided.
6. Sensor provides readings in the extended range but the accuracy may be lower than that specified in the table.
7. The accuracy specification covers environments ranging from 0-50°C and 0-80% RH, and complies with indoor air quality standards ANSI/ASHRAE Standard 62.1-2022 at 25°C.
8. Sensor specifications are under controlled laboratory conditions. Field measurements may use localized ambient air quality and historical infiltration rates to enhance the accuracy and baseline readings of NO<sub>2</sub> concentrations. This method is effective under typical indoor conditions but may not suit environments with persistently high indoor NO<sub>2</sub> levels.
9. Using Adaptive Sampling™ in a building with 15 devices, located in a typical North American city with mechanical ventilation and strong wireless signal strength to the gateway.
10. During operating hours (9-5, Mon-Fri): one sample per minute for all sensors except particulate matter, and one sample every 10 minutes for particulate matter. Outside of operating hours: one sample every five minutes for all sensors except particulate matter sensor, and one sample every 60 minutes for particulate matter.
11. Actual battery life may vary based on usage, environmental conditions, and other factors.
12. Cellular is supported in select countries and regions.