

## HATUSOKU HSK-2012-01

# HATUSOKU Large Screen CO2 Sensor

Model: HSK-2012-01

Brand: HATSUKOU

## 1. INTRODUCTION

The HATUSOKU Large Screen CO2 Sensor is designed for accurate monitoring of indoor air quality. It measures carbon dioxide (CO2) concentration, temperature, and humidity, providing clear, real-time data on a large LED display. This device utilizes the Non-Dispersive Infrared (NDIR) method for high-precision CO2 detection and includes an alarm function to alert users when CO2 levels exceed a preset limit. Its thin design and versatile installation options make it suitable for various environments requiring diligent ventilation management.

## 2. PRODUCT FEATURES

- **Large LED Display:** A 170mm x 210mm screen with bright, large characters ensures visibility from a distance, facilitating easy monitoring of indoor ventilation status.
- **High-Precision NDIR Sensor:** Employs a high-accuracy NDIR CO2 sensor and a design that prioritizes air circulation to the sensor for precise measurements.
- **Temperature and Humidity Display:** In addition to CO2, the device displays current temperature and humidity, aiding in comprehensive environmental monitoring.
- **Adjustable Alarm Function:** Users can set a custom upper limit for CO2 concentration. An alarm will sound if this limit is exceeded, prompting necessary action. Temperature and humidity alarm limits can also be set on Japanese display types.
- **Slim Design:** With a maximum thickness of 2.5 cm, the unit integrates seamlessly into indoor spaces without appearing obtrusive.
- **Flexible Installation:** Includes a stand for desktop placement and hardware for wall mounting, offering two convenient setup methods.
- **Automatic Calibration:** The sensor features an automatic calibration function, eliminating the need for manual calibration.

## 3. PACKAGE CONTENTS

Please verify that all items are present in the package:

- HATUSOKU Large Screen CO2 Sensor Unit
- USB Connection Cable
- AC Adapter (PSE Mark certified)
- Stand for desktop placement
- Wall mounting hardware (screws and anchors)
- User Manual (Japanese)



Image: HATUSOKU CO2 Sensor unit with included accessories.

## 4. SETUP

### 4.1 Power Connection

This device operates via AC power using the included AC adapter. It is not battery-powered or rechargeable.

1. Connect the USB cable to the sensor unit's USB port.
2. Connect the other end of the USB cable to the AC adapter.
3. Plug the AC adapter into a standard 100V AC power outlet.



Image: Important note regarding AC power supply.

## 4.2 Placement Options

Choose between desktop placement using the included stand or wall mounting.

### Desktop Placement:

Attach the provided stand to the back of the unit and place it on a flat, stable surface. Ensure the device is positioned where air can circulate freely around it for accurate readings.

### Wall Mounting:

Use the included screws and anchors to securely mount the unit on a wall. The device has a single mounting hole on the upper center of the back. For increased stability, consider adding additional support if needed.



Image: Illustration of stand and wall mounting options.

## 5. OPERATION

### 5.1 Initial Power-On

Once connected to power, the device will automatically turn on and begin displaying CO2 concentration, temperature, and humidity. Allow approximately 1 hour for the sensor to stabilize and provide accurate readings, especially after initial setup or relocation.

### 5.2 Reading the Display

The large LED display shows three primary values:

- **Temperature:** Displayed in degrees Celsius (°C).
- **Humidity:** Displayed as a percentage of relative humidity (%RH).
- **CO2 Concentration:** Displayed in parts per million (ppm).

# 業務用



- 大画面で広い場所、遠くからでもよく目立つ。
- 大きな文字で関係者が情報を共有しやすい。
- くっきりLEDで数値が読みやすい。

# 家庭用



- 大画面、大型文字なので、家庭内で使用するには存在感が大きすぎる。
- 明るいLED表示が寝室などには不向き。



## 室内の換気の徹底を必要とする業者向けの商品

Image: Close-up of the large LED display showing current readings.

### 5.3 Alarm Function

The device features an alarm to notify you when CO2 levels exceed a user-defined threshold. For Japanese display types, temperature and humidity alarms can also be set.

#### Setting Alarm Thresholds:

Refer to the detailed instructions in the included Japanese user manual for specific steps on how to set the CO2, temperature, and humidity alarm thresholds. Typically, this involves using buttons on the side or back of the unit to navigate menus and adjust values.

#### Alarm Activation:

When a measured value surpasses its set upper limit (or falls below a lower limit for temperature/humidity), the device will trigger a visual alarm. The alarm sound is quite loud and cannot be adjusted. If the sound is too disruptive, covering the speaker on the back with tape may reduce its volume.

## 6. MAINTENANCE

### 6.1 Cleaning

To maintain optimal performance and readability, regularly clean the device.

- Wipe the display and exterior with a soft, dry cloth.
- Do not use abrasive cleaners, solvents, or spray directly onto the unit.
- Ensure the air vents are free from dust and obstructions.

### 6.2 Automatic Calibration

The HATUSOKU CO2 sensor is equipped with an automatic calibration function. This feature ensures long-term

accuracy without requiring manual intervention. For best results, ensure the device is exposed to fresh air periodically (e.g., by opening a window in the room) to allow the automatic calibration to function correctly.

## 7. TROUBLESHOOTING

### 7.1 Display Not Turning On

- Check if the AC adapter is securely plugged into both the device and the power outlet.
- Ensure the power outlet is functional.
- Verify that the USB cable is properly connected.

### 7.2 Readings Seem Inaccurate or 'Frozen'

- Allow the device to operate for at least 1 hour after initial power-on or relocation for the sensor to stabilize.
- Ensure the device is not placed in an area with poor air circulation or directly exposed to strong drafts, heat sources, or direct sunlight.
- If readings appear consistently incorrect, try unplugging the device for a few minutes and then reconnecting it.
- Ensure the air vents on the device are not blocked.
- If the issue persists, contact customer support.

### 7.3 Alarm is Too Loud

- The alarm volume is not adjustable. To reduce the sound, you may cover the small speaker hole on the back of the unit with tape.

## 8. SPECIFICATIONS

Specification	Value
Model Number	HSK-2012-01
Brand	HATUSOKU
Product Dimensions (L x W x H)	17 x 21 x 2.5 cm
Product Weight	510 g
Color	Black
Style	Japanese Display Type
Material	Plastic
Power Source Type	Corded Electric (AC Adapter)
Voltage	5 Volts (AC)
Wattage	5 Watt-hours
Sensor Type	NDIR (Non-Dispersive Infrared)
Alarm Type	Visual
Temperature Rating Upper Limit	80 °C

Batteries Included	No
Batteries Required	No

## 9. WARRANTY AND SUPPORT

This HATUSOKU CO2 Sensor comes with a **1-year warranty** from the date of purchase. Please retain your proof of purchase for warranty claims.

For technical support, warranty service, or inquiries, please contact HATUSOKU customer service through the retailer where the product was purchased or refer to the contact information provided in the included user manual. HATUSOKU is a Japanese company committed to providing quality measurement devices. In cases of product malfunction or freezing, HATUSOKU has a record of providing prompt replacement units.

## 10. IMPORTANT SAFETY INFORMATION

- Use only the provided AC adapter. Using unauthorized adapters may damage the device or pose a safety risk.
- Do not expose the device to water or excessive humidity.
- Avoid placing the device in direct sunlight or near strong heat sources, as this may affect sensor accuracy.
- Keep the device out of reach of children.
- Do not attempt to disassemble or repair the device yourself. Refer all servicing to qualified personnel.
- The bright LED display may be too intense for bedrooms or dark environments at night. Consider placement carefully.