Manuals+ — User Manuals Simplified.

AirSuite SSCM880 Sense WiFi IAQ Monitoring Sensors User Guide

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Introduction

- AirSuite™ Sensors are a range of intelligent devices designed to monitor indoor environmental conditions.
- Each device is packed with a powerful array of sensors that monitor all important environmental factors including thermal comfort, ventilation, lighting, and acoustics. AirSuite™ Sensors have a wireless connection to the Internet and provide a live feed of sensor data securely into the AirSuite™ Monitor Portal and to the AirSuite™ Monitor App.
- This device is mains-powered, and connects to the Internet over Wi-Fi. As a security best-practice, we recommend it for usage where your organisation has a dedicated, secure network for IoT devices, but it is compatible with any standard Wi-Fi network.
- With its standard 10-second reporting rate, this is our highest resolution sensor and is ideal when instant feedback and accuracy is critical. Add-on sensors can also be attached, such as for detecting levels of carbon monoxide or particulate matter.

What's in the box?

Included are enough accessories to support a variety of installation scenarios. It is recommended that you select the mounting solution that best suits your intended installation location.

A. Mounting bracket		B. 2x Command adhesive strips	
C. 4x mounting bracket screws		D. 4x hollow wall anchor screws	

Command adhesive strips (B) can be used as an alternative to mounting with screws. Hollow wall anchor screws (D) can be used for mounting on plasterboard.

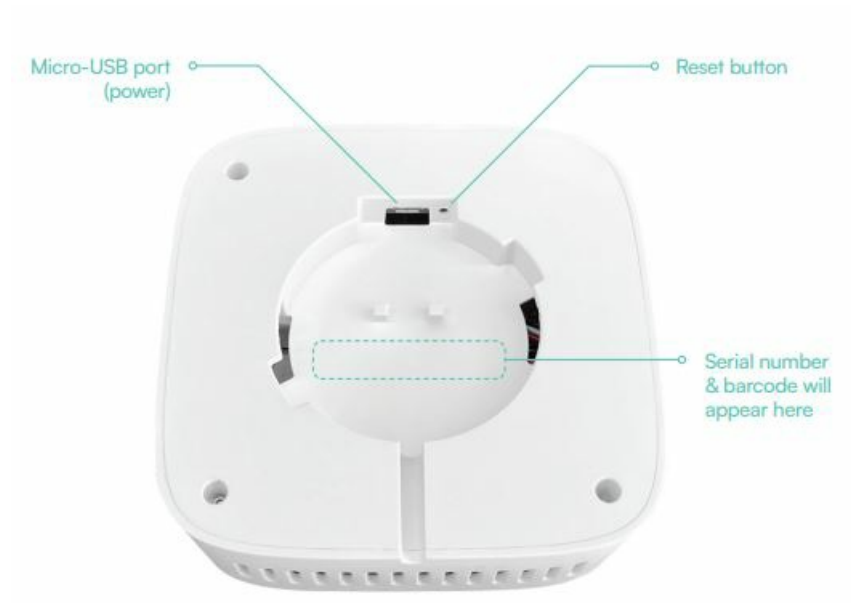**E.**

5V USB Power
Adapter and
Micro-USB cable

F.

3x nail-in clips for
cable organisation

G.

3x adhesive clips for
cable organisation

Your sensor

Your sensor — Front

Indicator
LED window

Air intake

Your sensor — Back

Micro-USB port (power)

Reset button

Serial number & barcode will appear here
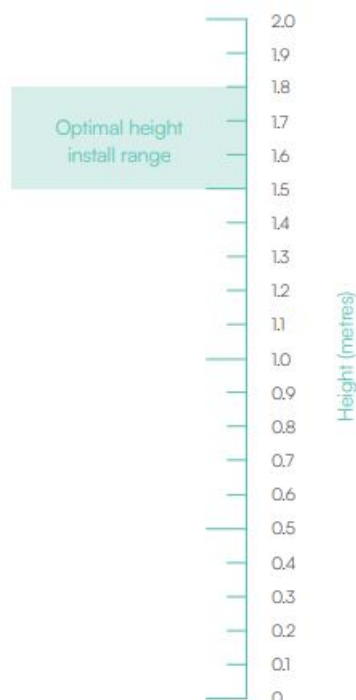
Before you start

- We recommend installing on the wall at a height of 1.5m to 1.8m from the ground, so that it has a good view of the room.
- If possible, use a power socket that is high off the ground to avoid the power adapter being accidentally removed or damaged.
- Avoid positioning facing windows, where it would be exposed to direct sunlight, as this will affect temperature and light level measurements.
- Avoid positioning too close to where people will be using the space, as this could affect carbon dioxide level measurements.
- Avoid placing near a stove or kettle, as this may affect temperature and humidity measurements.

Optimal height install range

Height (metres)

2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

Installation

1. Locate the mounting kit (A) included in the box.
2. Determine the best way to mount the bracket to your chosen surface. In this example, we are mounting to a wooden board, so screws (C) are used to install the bracket permanently. For a temporary installation, substitute the screws for the two Command adhesive strips (B).
3. Mount the bracket to the wall. The "wings" of the mounting bracket should sit level across the wall as shown in Figure 1. This ensures that the sensor sits plumb.
4. Insert the micro-USB cable (E) into the micro-USB port above the serial number sticker on the back of the unit, and ensure it is firmly in place.
5. Plug the USB power adapter (E) into a power socket. Switch on the power.
6. Check to see if the LED is flashing in the
   Indicator LED window on the front of the unit. If so, the device is turned on already – skip to step 8.
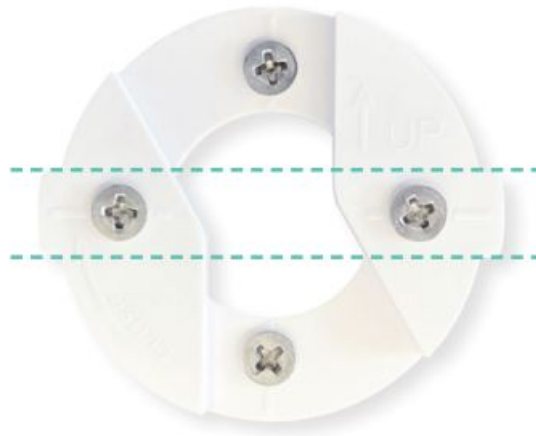

Figure 1: The mounting bracket secured to a wall. The dashed lines illustrate how the "wings" on either side are horizontally level.

7. Using a ball-point pen or the end of a paperclip, press the reset button once and watch to see if the LED flashes in the Indicator LED window. If the LED does not light up, the unit is turned off. To turn it on, press and hold the reset button for 2 seconds, until the LED illuminates a solid colour. After you release the reset button, the LED will flash once every second to indicate that the device is turned on and waiting to be setup.
8. Place the device on the wall mount at an angle, then rotate it clockwise until it clicks into place.
9. Use the provided cable clips (F, G) to tidy the USB cable. If the USB cable is too long, use a cable tie to tie up the excess cable.

Deployment

After physically installing your device, you can now connect it to a Wi-Fi network to complete the installation process.

1. Scan the QR code, or visit the link provided in Figure 2 to download and install the AirSuite™ Monitor App.
2. Open the app and accept the prompts to enable the required permissions for Bluetooth and Location access.
3. The app will automatically scan for nearby devices. When it finds the device you are setting up, select it from the list.
4. Press the "Setup" button to start the deployment process.
5. Enter the password provided to you by AirSuite™ or your organisation. If your organisation has not chosen a password, it may be set to "password" by default.

Figure 2: Scan the QR code above to download the AirSuite™ Monitor App, or visit **app.airsuite.com**

6. Enter a descriptive name for the deployment. For deployments across a large number of rooms and buildings, we recommend that your organisation uses a consistent naming scheme so that deployments are easy to identify later for management purposes.

7. Select the Wi-Fi network that the sensor should connect to from the list and enter the passphrase for that network. Alternatively, if the network you intend to connect to does not appear in the list, you may enter it manually.

8. Press "Finish setup" and wait for the deployment to complete. This should only take a few moments.

9. Wait until you see your device has entered the "Reporting to Cloud" state. This will take 10 to 30 seconds, but can vary depending on the Wi-Fi network equipment.

Usage information

Factory reset
To reset your device to its initial state (which will remove its saved deployment information and stop it from reporting to the Cloud until the setup process is completed again), follow these steps. Press the reset button once to check if the unit is turned on. If the LED flashes either green or red, your device is turned on. Your device includes a built-in backup battery, so it will continue running at first when you unplug it from the power adapter. To turn it off, press and hold down the reset button until the LED illuminates solid orange, which indicates it is turning off. Hold down the reset button again until the LED illuminates solid green to turn it back on.

Heartbeat
When turned on, your device's indicator LED will flash periodically to indicate its operational status – this is known as its 'heartbeat'. You can use the heartbeat to check that the unit is operating correctly without taking it off the wall. If the LED is flashing frequently – about once every second

- the unit has not yet successfully connected to the Cloud. This means either it has not been deployed yet; it is in the process of connecting; it has failed to connect to the Wi-Fi network; or

- it is otherwise unable to report to the Cloud. Use the mobile app to find out more information. When your device has successfully connected to the Cloud, the LED will flash green once every 30 seconds. If the LED does not illuminate at least once every 30 seconds, your device is turned off.

Safety & Compliance

FCC compliance statement
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference,
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by AirSuite could void your authority to operate this equipment.
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This device should be installed and operated with minimum distance of 20cm between the equipment and a person's body.

ISED Canada compliance statement
English:
This device complies with Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions:

1. this device may not cause interference, and (2)
2. this device must accept any interference, including interference that may cause undesired operation of the device.

The digital apparatus complies with Canadian CAN ICES-3 (B)/NMB-3(B).

- This device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian information on RF exposure and compliance.
- This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.
- This equipment should be installed and operated with minimum distance 20cm between the equipment and a person's body.

To log in to the AirSuite™ Monitor Portal, visit **portal.airsuite.com**
Having trouble logging in?
Please contact us at **support@airsuite.com**

Level 1, SkyPoint Building, Waikato Innovation Park, 3 Melody Lane, Hamilton, 3216, NZ

Documents / Resources

	[AirSuite SSCM880 Sense WiFi IAQ Monitoring Sensors](#) [pdf] User Guide 0880, 2BAOD-0880, 2BAOD0880, SSCM880, SSCM880 Sense WiFi IAQ Monitoring Sensors, Sense WiFi IAQ Monitoring Sensors, WiFi IAQ Monitoring Sensors, IAQ Monitoring Sensors, Monitoring Sensors, Sensors

References

- 🏠 **[AirSuite: Indoor Air Quality Monitors](#)**
- 🏠 **[Download the AirSuite app](#)**
- 🏠 **[AirSuite Portal](#)**