



Indoor. Outcomes.

Sense LTE

SSCM860

Getting started guide

4G  connected



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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 AirSuite™ sensor is battery-powered, and connects to the Internet over the Spark mobile network for Internet of Things (IoT) devices. The network uses LTE Cat-M1 technology and runs over Spark's 4G mobile network. This network allows this sensor to operate in an ultra low-power mode, meaning its battery should last for up to 5 years, depending on the configured reporting frequency.

AirSuite™ sensors with LTE are especially suitable for:

- Rapid deployment for large numbers of sensors
- No-cable deployments, and deployment in locations where it would be difficult to connect to a power supply
- Deployment in buildings without a secure Wi-Fi network for IoT devices
- Temporary deployments

Check the network connection at your intended deployment location here: www.spark.co.nz/coverage

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

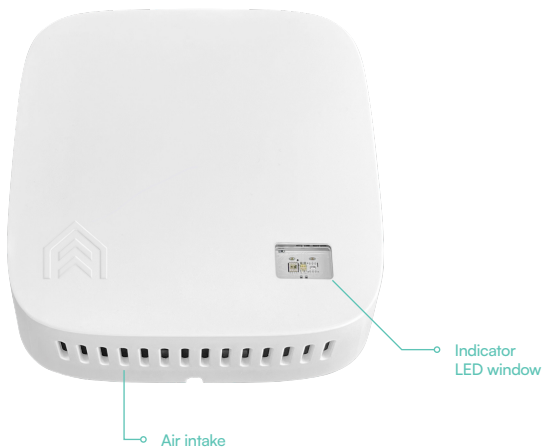


D.

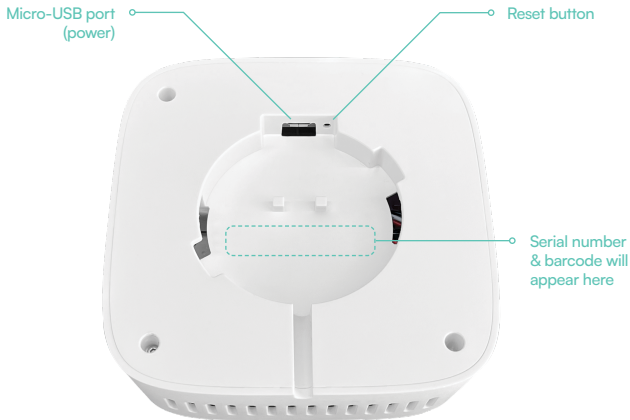
4x hollow wall
anchor screws

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.

Your sensor — Front

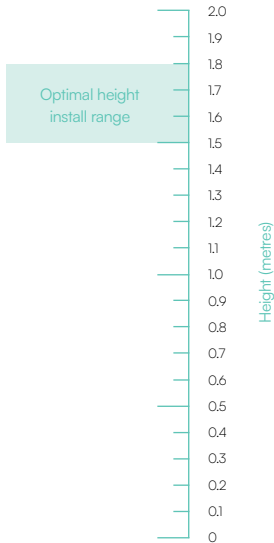


Your sensor — Back



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.
- 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.



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. With the bracket installed on the wall, it is time to turn your sensor on. With a ball-point pen or the end of a paperclip, press and hold down the reset button for 2 seconds until the LED illuminates solid green in the Indicator LED window.
5. The LED will flash green once every second to indicate that the sensor is connecting to the mobile network. This could take up to 5 minutes. When it successfully connects, the LED will illuminate solid green briefly.
6. To confirm that the sensor has connected successfully, press the reset button once. The LED will flash green twice to indicate it is connected.

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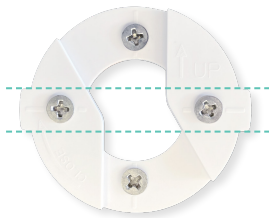


Figure 1: The mounting bracket secured to a wall. The dashed lines illustrate how the “wings” on either side are horizontally level.

Installation continued

7. Place the sensor on the wall mount at an angle, then rotate it clockwise until it clicks into place.
8. The sensor is now reporting to the Cloud. To set its name and location, you can either sign in to the AirSuite™ Monitor Portal, or follow the instructions on the next page to create a new deployment for the sensor using the AirSuite™ Monitor app.

Indoor.
Outcomes.

Deployment

After physically installing your sensor, you can set its name and location (which will appear in the Portal) using the mobile app as follows:

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.

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

Deployment continued

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. Press “Finish setup” and wait for the deployment to complete. This should only take a few moments.
8. Return to the sensor status page and 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 cellular signal.

Your
device
is now
connected.

Usage information

Turning off your device

If the device is going to be transported or put into storage, it should be turned off to preserve its battery capacity. 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. To turn off your device, press and hold the reset button until the LED illuminates solid orange, which indicates it is turning off.

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 heartbeat flashes green, the sensor is turned on and connected to the mobile network. If the heartbeat flashes red, your device is turned on, but has not been able to connect to the Cloud in the last hour. If the LED does not illuminate every 30 seconds, the sensor is not turned on, or is in sleep mode.

AirSuite™ Smart Sleep

To preserve battery life, your device will go to sleep periodically using Smart Sleep, which will optimise itself based on occupancy and usage. When the device is asleep, some features of the device will be turned off or limited. For example, the heartbeat LED will be disabled, and reporting to the Cloud will be scheduled for when the device wakes up. While asleep, the device will continue to take sensor measurements at regular intervals, and all data will be uploaded to the Cloud when the device wakes up.

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, and (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) 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.

French:

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

L'appareil numérique du ciem conforme canadien CAN ICES-3 (B)/NMB-3(B).

Cet appareil est conforme à l'exemption des limites d'évaluation courante dans la section 2.5 du CNR 102 et conformité avec RSS 102 de l'exposition aux RF, les utilisateurs peuvent obtenir des données canadiennes sur l'exposition aux champs RF et la conformité.

Cet équipement est conforme Canada limites d'exposition aux radiations dans un environnement non contrôlé.

Cet équipement doit être installé et utilisé avec une distance minimale de 20cm entre l'appareil et le corps d'une personne.



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

airsuite.com