Sparknz
hello tomorrow

IoT

AIRSUITE
QUICKSTART
GUIDE

AirSuite™

Breathe better with Spark Indoor Air Quality Monitoring.

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 Spark IoT Bridge Portal.

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

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.

Take a look at the front and back of your device. Important features are identified below.

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.
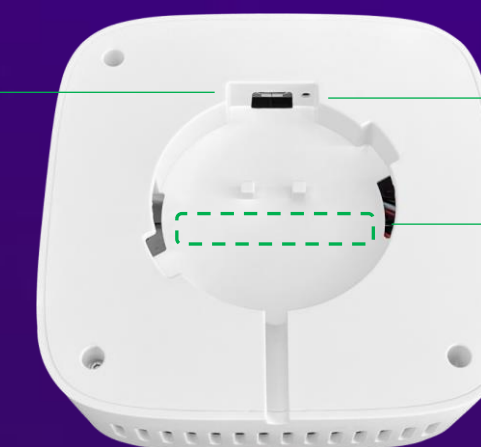
Indicator LED Window

Air intake

Micro USB port (power)

Reset button

Serial number & barcode will appear here

- 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.

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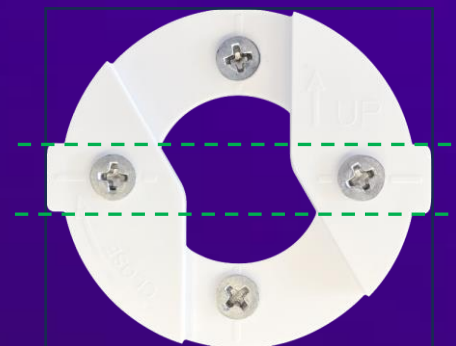
Figure 1: The mounting bracket secured to a wall. The dashed lines illustrate how the "wings" on either side are horizontally level.

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 into the Spark IoT Bridge Portal.

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.

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To log in to the IoT Bridge Portal, visit
www.iotbridge.nz

Having trouble logging in? Please contact us at
iotsupport@spark.co.nz or one of options below.

✉ iotsupport@spark.co.nz

📞 0800 436 4847

📍 Spark.co.nz/IoT/Help

With Spark IoT, you create optimal conditions to help your people stay well and perform at their best.