## SPEC SHEET

# **Airthings** Space CO<sub>2</sub> Mini

Discrete CO<sub>2</sub> monitoring for the Airthings for Business ecosystem.



- Compact and economic
- Secure and encrypted end-to-end solution
- Scalable platform seamlessly integrates multiple Airthings for Business solutions
- Simple and intuitive installation requiring no tools
- Up to 10 years of battery life



### Airthings Space CO<sub>2</sub> Mini



#### **OVERVIEW**

The Space CO<sub>2</sub> Mini is the descreet answer to increasing focus and regulations on CO<sub>2</sub> monitoring in schools, public buildings, and offices. Offered in a 4-pack, the Space CO<sub>2</sub> Mini helps cover more spaces in your building, ensuring optimal ventilation and energy usage. Wireless, with up to 10 years or more battery lifetime.

#### PACKAGE CONTENTS

Part Number: SPACECO2MINI

Package Dimension: 7.9 x 4.5 x 2.4 in

 $(200 \times 115 \times 60 \text{ mm})$ Weight: 148 oz (419 g)

Package includes device and accessories:

- Airthings Space CO<sub>2</sub> Mini
- 2 x 1.5V Lithium AA batteries
- Double-sided tape
- · Battery lid with theft protection

#### LED INDICATOR

- Pull battery tab: LED blinks green when device is powered on.
- On boarding: LED pulses blue while device connects to Space Hub and pulses white until device is connected all the way to Airthings cloud.
- In case SmartLink connection is lost, within 10 min LED will blink green one time followed by blue LED pulse for up to 1 min or until connected to Space Hub. In case no connection is established, the blink pattern will repeat at increasing intervals, to not deplete batteries.
- Touching Airthings logo on product front with finger: single white blink if connected via Space Hub to cloud, single blue blink if not connected. If CO<sub>2</sub> Alert is enabled, LED shows CO<sub>2</sub> level color coded green, yellow, or red.
- CO<sub>2</sub> Alert: event is shown as two blinks in yellow or red depending on limits set. Alert frequency and snooze time can also be set in dashboard.

#### **KEY FEATURES**

Sensors: CO<sub>2</sub>, Temperature, Relative Humidity, Air Pressure, Noise, and Light

Virtual Sensors: Virus Risk, Occupancy, Air Changes, Consult web dashboard for latest

Battery Life: 10 years (battery life depends on sensor on/off interval settings, office hours, and noise sensor settings - product has 5-year battery life regardless of settings)

Firmware updates: Automatically downloaded and installed over the air (OTA) via the Space Hub

\*Space Hub is needed to post sensor values to cloud. Annual subscription fee for device is required.

#### Mounting

- Optimum product placement is on wall 4-6 feet (1.2 - 1.8 m) above floor. (If needed, the product can also be placed >6 ft (1.8 m) above floor, but in this case mounting with screws is mandatory.)
- · Double-sided tape for mounting included
- Alternatively use two fully threaded countersunk screws 3.5 x 25 mm or longer (not included)
- For masonry/concrete add expansion plug. For plaster walls, special plugs should be used.

#### **MONITORS 6 CONDITIONS WITH 3 VIRTUAL SENSORS**





















**HUMIDITY** 

LIGHT

PRESSURE OCCUPANCY VIRUS RISK AIR CHANGES



## Airthings Space CO<sub>2</sub> Mini

#### PRODUCT SPECIFICATIONS

Serial Number: 312xxxxxxx Dimensions: 3.17 x 3.17 x 1.04 in

(80.5 x 80.5 x 26.6 mm)

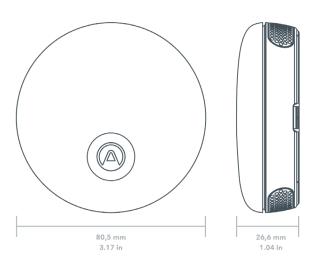
Weight: ~2.9 oz (~84 g) with batteries

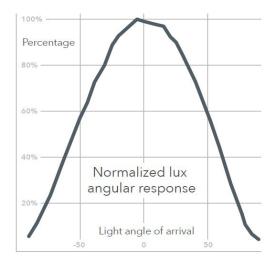
Operational Environment (Temperature, Relative Humidity): 32 F to 113 F (0 C to 45 C) / 5% - 85%

(non-condensing).

SmartLink frequencies: 865-870 / 902-928 MHz

depending on region





#### **SENSOR SPECS**

TEMPERATURE AND RELATIVE HUMIDITY SENSOR	<ul> <li>Temperature Accuracy: ± 0.2 °C / ± 0.4 °F</li> <li>Humidity Accuracy: ± 2.0 % RH</li> </ul>
CO <sub>2</sub> SENSOR	<ul> <li>NDIR Sensor (Non-Dispersive Infra-Red):</li> <li>Measurement range 400 - 5000 ppm</li> <li>Accuracy: ±50 ppm ±5% within</li> <li>500 - 2000ppm,, 10 - 35 °C / 50 - 95 °F</li> <li>and 0 - 80%RH.</li> <li>Self-calibrated using an automatic baseline algorithm that updates once a week.</li> </ul>
LIGHT SENSOR (LUX)	<ul> <li>Technology: Solid state sensor</li> <li>Resolution: 0.1 °F (0.1 °C)</li> <li>Accuracy: ±0.9 °F at 77 °F / ±1.8 °F from 32-140 °F (±0.5 °C at 25 °C / ±1 °C from 0-60 °C)</li> </ul>
PRESSURE SENSOR	Technology: Solid state sensor Resolution: 0.02 mBar/hPA Absolute accuracy: ± 0.6 mBar/hPA Relative accuracy: ± 0.12 mBar/hPA Measurement range: 500-1100 mBar.hPA
LIGHT SENSOR	<ul> <li>Light sensor is measured in received luminous flux per unit area, also known as Lux. Light sensitivity varies with incoming light direction as shown in graph.</li> <li>Absolute Accuracy in most sensitive direction:         ±5 lux ±10%     </li> </ul>
PRESSURE SENSOR	<ul> <li>Absolute pressure accuracy: ± 30 Pa</li> <li>Unit-to-unit pressure accuracy: ± 10 Pa</li> </ul>
NOISE SENSOR	<ul> <li>Ambient sound is sampled at 1% duty cycle and presented as sound pressure level in dB (adjusted to human ear hearing profile - A-weighted, dBA).</li> <li>Typical sensitivity: 33dBA SPL</li> <li>Dynamic range: 33dBA - 120dBA SPL</li> <li>Absolute Accuracy over dynamic range: ±3 dB</li> </ul>
VIRTUAL SENSOR	<ul><li>Occupancy</li><li>Virus Risk</li><li>Air Changes</li></ul>

Sensor sampling interval: 5 min default and 2.5 min optional

Office hours set on building level: Outside office hours +1 hour before and after noise sensor is turned off and  $CO_2$  interval is set to hourly. In addition, humidity, pressure, and light are reduced to 5-minute interval regardless of sensor sampling interval setting.

