AIRTHINGS | FOR BUSINESS

MONITORS

CO$_2$	HUMIDITY	TEMP
PRESSURE	LIGHT	NOISE

VIRTUAL SENSORS:

OCCUPANCY	VIRUS RISK	AIR CHANGES

Space CO$_2$ Mini

Discrete CO$_2$ Monitoring for the Airthings Ecosystem

- Compact and economic
- Secure and encrypted end-to-end solution
- Transmits data securely via cellular powered space hub to Airthings cloud, dashboard, and mobile app
- Scalable platform seamlessly integrates multiple Airthings for Business solutions

- Simple and intuitive installation requiring no tools
- Self calibrated weekly
- Up to 10 years of battery life

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Space CO2 Mini

Discrete CO_2 Monitoring for the Airthings Ecosystem

DESCRIPTION

Space CO_2 Mini is the discreet answer to increasing focus and regulations on CO_2 monitoring in schools, public buildings, and offices. Offered in a 4-pack, Space CO_2 Mini helps cover more spaces in your building, ensuring optimal ventilation and energy usage. Wireless, with up to 10 years or more battery lifetime.
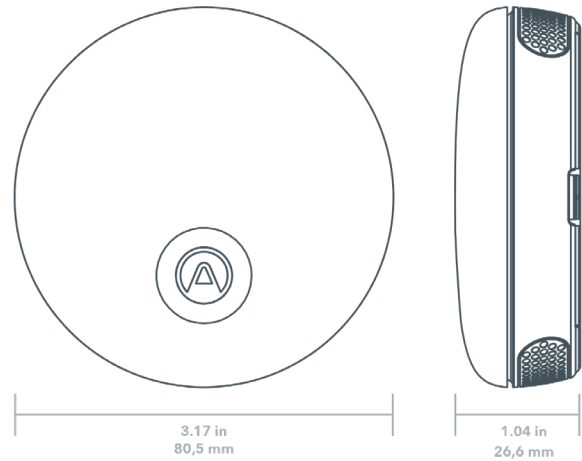
PRODUCT FEATURES

Sensors*:	CO_2, Temperature, Relative Humidity, Pressure, Noise, Light (lux)
Virtual Sensors Included*:	Virus Risk, Occupancy, Air Changes, please 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*

PRODUCT SPECIFICATIONS

3.17 in
80,5 mm

1.04 in
26,6 mm
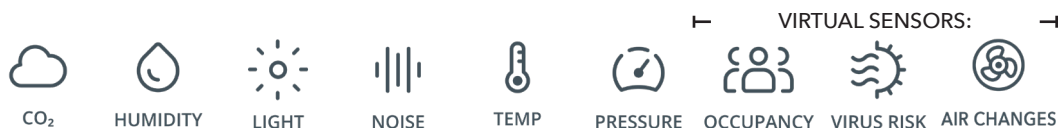
Serial Number: 312xxxxxxx

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

PACKAGE CONTENT

Part Number: **SPACECO2MINI**

- Package Dimension: 7.9 x 4.5 x 2.4 in (200 x 115 x 60 mm)
- Weight: 148 oz (419 g)
- Package includes 4 devices and accessories:
  - Airthings Space CO_2 Mini
  - 2 x 1.5V Lithium AA batteries
  - Double-sided tape
  - Battery lid with theft protection

MOUNTING

- Optimum product placement is on wall 4 -6 feet (1.2 m - 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.

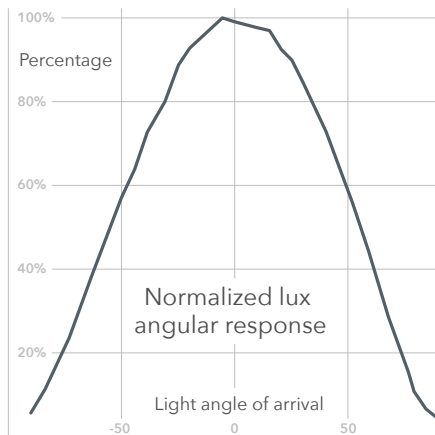## MONITORS - 6 CONDITIONS WITH 3 VIRTUAL SENSORS

VIRTUAL SENSORS:

CO_2	HUMIDITY	LIGHT	NOISE	TEMP	PRESSURE	OCCUPANCY	VIRUS RISK	AIR CHANGES

Terms and conditions apply. Visit the Airthings website for more information.

airthings.com/en/business/terms-and-conditions

- 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.
- TEMPERATURE AND RELATIVE HUMIDITY SENSORS
  - Temperature Accuracy: ± 0.2 °C / ± 0.4 °F
  - Humidity Accuracy: ± 2.0 % RH
- CO_2 SENSOR
  - NDIR Sensor (Non-Dispersive Infra-Red):
  - Measurement range 400 - 5000 ppm
  - Accuracy: ±50 ppm ±5% within
  - 500 - 2000ppm,, 10 - 35 °C / 50 - 95 °F
  - and 0 - 80%RH.
  - Self-calibrated using an automatic baseline algorithm that updates once a week.
- LIGHT SENSOR (LUX)
  - 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.
  - Absolute Accuracy in most sensitive direction: ±5 lux ±10%

Normalized lux angular response

- PRESSURE SENSOR
  - Absolute pressure accuracy: ± 30 Pa
  - Unit-to-unit pressure accuracy: ± 10 Pa
- NOISE SENSOR
  - 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).
  - Typical sensitivity: 33dBA SPL
  - Dynamic range: 33dBA - 120dBA SPL
  - Absolute Accuracy over dynamic range: ±3 dB
- VIRTUAL SENSORS
  - Occupancy
  - Virus Risk
  - Air Changes

- 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_2 Alert is enabled, LED shows CO_2 level color coded green, yellow, or red.
- CO_2 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.