

Space CO₂ Mini



Space CO₂ Mini is the discreet answer to increasing focus and regulations on CO₂ monitoring in schools, public buildings and offices. Offered in a 4-pack, Space CO₂ 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 CONTENT

Airthings Space CO₂ Mini
2 x 1.5V Lithium AA batteries
Double-sided tape
Battery lid with theft protection

PACKAGE

4 devices included in package
Dimension: 7.9 x 4.5 x 2.4 in
(200 x 115 x 60 mm)
Weight: 148 oz (419 g)

PRODUCT CODES

EU, India and United Arabic Emirates (UAE)
311xxxxxxx - serial number
4-pack EU/UAE SKU 13110, EAN
709003110 0117 UPC NA *
North America and ROW 312xxxxxxx -
serial number
4-pack North America SKU 13120, EAN
709003110 0124 UPC 854232008552 *

MOUNTING

Optimum product placement is on wall
3.6 - 5.6 ft (110 - 170 cm) above floor.
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.
If needed, the product can also be placed > 6 ft
(180 cm) above floor, but in this case mounting
with screws is mandatory.

PHYSICAL SPECIFICATION

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

REQUIREMENTS

Space Hub is needed to post sensor values
to cloud.

* Both SKU 13110 and 13120 will be replaced with
new common SKUs that cover all countries /
regions to be supported by the models 311 and
312 respectively

PRODUCT FEATURES

Sensors: CO₂, Temperature, Relative
Humidity, Pressure, Noise, Light (lux)
Virtual sensors included: Virus Risk,
Occupancy, please consult web dashboard
for latest.
Battery life depends on sensor on/off/
interval settings and building settings -
office hours. More than 10 years with noise
off or alternative office hours set (i.e 7AM-
5PM Mon-Fri). Product has more than 5
years battery life regardless of settings.

PRODUCT SPECIFICATIONS

Operational Environment (Temperature, Relative Humidity):
32°F to 113°F (0 °C to 45 °C) / 5% - 85% (non-condensing)
Firmware updates are automatically downloaded and installed over the air
(OTA) via the Space Hub
SmartLink frequencies: 865-870 / 902-928 MHz depending on region



CO₂



HUMIDITY



TEMP



PRESSURE



LUX



NOISE

VIRTUAL
SENSORS



OCCUPANCY



VIRUS RISK



VENTILATION
RATE

Space CO₂ Mini

SENSOR SPECIFICATIONS

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 CO₂ interval is set to hourly. In addition, humidity, pressure and light are reduced to 5 min interval regardless of sensor sampling interval setting.

TEMPERATURE AND RELATIVE HUMIDITY SENSORS

Temperature Accuracy: $\pm 0.2^{\circ}\text{C}$ / $\pm 0.4^{\circ}\text{F}$

Humidity Accuracy: $\pm 2.0\%$ RH

CO₂ SENSOR

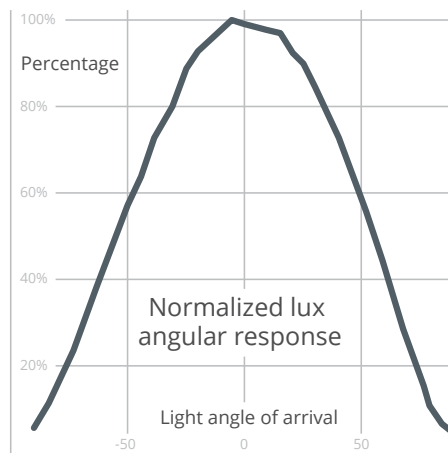
NDIR Sensor (Non-Dispersive Infra-Red):
Measurement range 400 – 5000 ppm

Accuracy: ± 50 ppm $\pm 5\%$ 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 $\pm 10\%$

PRESSURE SENSOR

Absolute pressure accuracy:

± 0.3 mbar / ± 30 Pa (0.01 inHg)

Unit-to-unit pressure accuracy:

± 0.1 mbar / ± 10 Pa (0.003 inHg)

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

Ventilation Rate

PRODUCT ON-BOARDING AND DAILY USE

Battery tab pull: 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

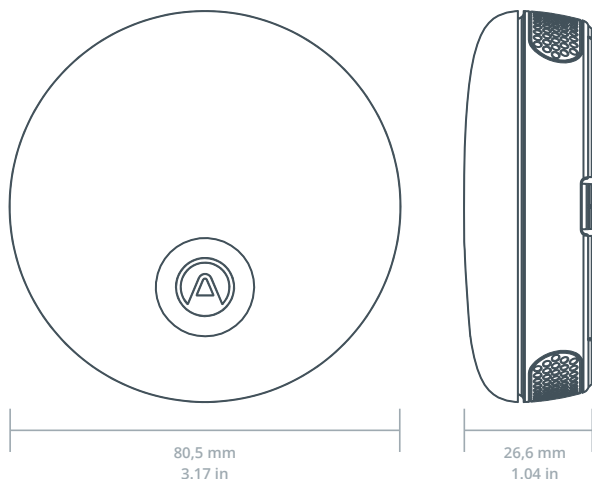
followed by blue LED pulse for up to 1 min or until connected to Space Hub. In case no connection is established, the blink pattern will repeat at increasing intervals, to not deplete batteries.

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 CO₂ Alert is enabled, LED shows CO₂ level color coded green, yellow or red.

CO₂ 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.

PRODUCT DIMENSIONS



VIRTUAL SENSORS

