

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 Arab Emirates (UAE)
311xxxxxx - 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



VIRTUAL
SENSORS



CO₂

HUMIDITY

TEMP

PRESSURE

LUX

NOISE

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: $\pm 2.0\% \text{ RH}$

CO₂ SENSOR

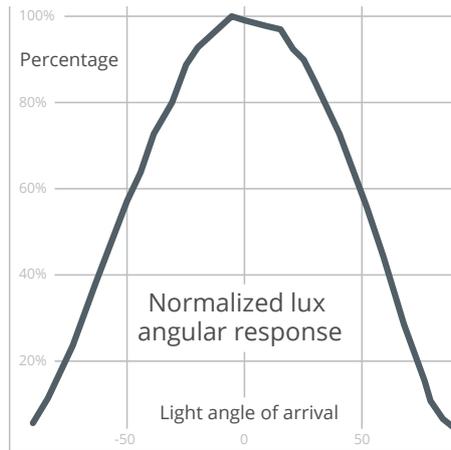
NDIR Sensor (Non-Dispersive Infra-Red):
Measurement range 400 – 5000 ppm

Accuracy: $\pm 50 \text{ ppm} \pm 5\%$ 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 : $\pm 5 \text{ lux} \pm 10\%$

PRESSURE SENSOR

Absolute pressure accuracy:
 $\pm 0.3 \text{ mbar} / \pm 30 \text{ Pa} (0.01 \text{ inHg})$
Unit-to-unit pressure accuracy:
 $\pm 0.1 \text{ mbar} / \pm 10 \text{ Pa} (0.003 \text{ inHg})$

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:
 $\pm 3 \text{ dB}$

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

