

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



Space CO<sub>2</sub> Mini is the discreet answer to increasing focus and regulations on CO<sub>2</sub> monitoring in schools, public buildings and offices. Offered in a 4-pack, 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 CONTENT

Space CO<sub>2</sub> Mini  
 2 x 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)  
 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 \*

\* 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

## MOUNTING

Optimum product placement is on wall 4 - 6 ft (1.2 m - 1.8 m) above floor.

Double sided tape for mounting included. Alternatively use two fully threaded countersunk screws 3.5 x 25mm 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 (1.8 m) above floor, but in this case mounting with screws is mandatory

## REQUIREMENTS

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

Space Hub is needed to post sensor values to cloud

## PRODUCT FEATURES

Sensors: CO<sub>2</sub>, 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

# Space CO<sub>2</sub> 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 CO<sub>2</sub> 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:  $\pm 0.2^{\circ}\text{C}$  /  $\pm 0.4$  F  
and Humidity Accuracy:  $\pm 2.0\%$  RH  
within product operating range

### PRESSURE SENSOR

Absolute pressure accuracy:  $\pm 30$  Pa  
Unit-to-unit pressure accuracy:  $\pm 10$  Pa  
Operating range for full accuracy  
300 - 1250 hPa

### CO<sub>2</sub> SENSOR

NDIR Sensor (Non-Dispersive Infra-Red):  
Measurement range 400 – 5000 ppm  
Accuracy  $\pm 50$  ppm  $\pm 5\%$  within  
500 - 2000 ppm, 10 – 35 °C / 50 - 95 °F  
and 0 – 80%RH.  
Self-calibrated using an automatic  
baseline algorithm that updates once a  
week.

### LIGHT SENSOR

Light sensor is measured in received luminous flux per unit area, also known as lux. Light sensitivity varies with incoming light direction. Absolute Accuracy in most sensitive direction :  $\pm 5$  lux  $\pm 10\%$

### 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:  $\pm 3$  dB

### VIRTUAL SENSORS

Virus Risk, Occupancy. Please consult web dashboard for latest

## RADIO SPECIFICATIONS

### BLUETOOTH LOW ENERGY

Used for commissioning only  
Output power: <10 mW  
Frequency Range (MHz): 2400.0 - 2483.5

### AIRTHINGS SMARTLINK

Used to post sensor values  
Output power: < 25 mW  
Frequency range (MHz):

India	865-870
Europe	868 - 870;
North America	902-928
Singapore, Hong Kong, Malaysia, Thailand	920-923
Australia, New Zealand, Japan	923-928



CO<sub>2</sub>



HUMIDITY



TEMP



PRESSURE



LIGHT



NOISE

VIRTUAL SENSORS



OCCUPANCY



VIRUS RISK

PRODUCT ON-BOARDING AND DAILY USE

Battery tab pull: LED blinks green when device is powered on

On boarding: LED pulses white 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 white 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, the LED shows CO<sub>2</sub> level color coded green, yellow or red.

PRODUCT DIMENSIONS

