

Airthings Space Pro

The most comprehensive monitor in the Airthings for Business ecosystem.



MONITORS



PM₁



PM_{2.5}



CO₂



LIGHT



NOISE



PRESSURE



VOC



HUMIDITY



TEMP

VIRTUAL SENSORS:



OCCUPANCY



VIRUS RISK



AIR CHANGES

- Customizable display
- Scalable platform seamlessly integrates multiple Airthings for Business solutions
- Simple and intuitive installation requiring no tools
- RESET accredited sensor
- Up to 2 years of battery life or use USB-C connection

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OVERVIEW

The most comprehensive indoor air quality monitor in the Airthings for Business solution, including PM, noise, and more. The Space Pro has an ultra-low battery consumption customizable display. Can be seamlessly added into any existing Airthings for Business solution.

PACKAGE CONTENTS

Part Number: SPACEPRO

Package Dimension: 7.9 x 4.5 x 2.4 in
(200 x 115 x 60 mm)

Weight: 15.17 oz (430 g)

Package includes device and accessories:

- Airthings Space Pro
- 6 x 1.5V Lithium AA batteries
- Double-sided tape
- Security mount

KEY FEATURES

Sensors: PM1, PM2.5, VOC, CO₂, Noise, Relative Humidity, Temperature, Air Pressure, and Light

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

Battery Life: Up to 4 years on Lithium (depending on the sensor interval settings). Optional USB-C power available

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

- Supports wall mounting or placement on table
- Optimum product placement is breathing height of 3-6 feet (110 - 170 cm) above floor. Only suitable for mounting at heights below 6.56 ft (200 cm).
- Double-sided tape for mounting included
- Alternatively use 3 screws of type countersunk M4 (not included)

MONITORS 9 CONDITIONS WITH 3 VIRTUAL SENSORS



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SENSOR SPECS

RELATIVE HUMIDITY SENSORS	<ul style="list-style-type: none">• Technology: Solid state sensor• Resolution: 0.5 %RH• Accuracy: $\pm 3\%$RH at 77 °F (25 °C)
TEMPERATURE SENSOR	<ul style="list-style-type: none">• Technology: Solid state sensor• Resolution: 0.1 °F (0.1 °C)• 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)
PRESSURE SENSOR	<ul style="list-style-type: none">• Technology: Solid state sensor• Pressure Accuracy: ± 0.6 mBar/hPA (0.02 inHg) range 500-1100 mBar/hPA
VOC SENSOR	<ul style="list-style-type: none">• Technology: Metal-oxide based gas sensor• Measurement range: 0-10 000 ppb• Settling time: ~ 7 days• Accuracy: $20 \mu\text{g}/\text{m}^3 + 15\%$ at values between 1 and $500 \mu\text{g}/\text{m}^3$• Resolution: $1 \mu\text{g}/\text{m}^3$

RADIO SPECIFICATIONS

- **BLUETOOTH LOW ENERGY**
 - Output power: $< 5\text{mW}$
 - Frequency Range (MHz): 2400.0 - 2483.5
- **AIRTHINGS SMARTLINK**
 - Output power: $< 25\text{mW}$
 - Frequency range (MHz): North America 902 - 928

PRODUCT SPECIFICATIONS

Serial Number: 2969xxxxxx

Dimensions: 6.69 x 3.54 x 1.30 in (170 x 90 x 33 mm)

Weight: 12.7 oz (360 g) with batteries

Operational Environment (Temperature, Relative Humidity): 39 F to 104 F (4 C to 40 C) / 10% - 80% (non-condensing). Operation in temperatures < 32 F (0 C) or relative humidity $> 90\%$ can cause permanent damage to the products

SmartLink frequencies: 865-868 / 902-928 MHz depending on region

PARTICULATE MATTER PM1 AND PM2.5	<ul style="list-style-type: none">• Technology: laser scattering based optical particle counter• Particle size detection range: 300 nm to $10 \mu\text{m}$• Measurement Range: $1-1000 \mu\text{g}/\text{m}^3$• Measurement Accuracy: below $150 \mu\text{g}/\text{m}^3$:<ul style="list-style-type: none">• $\pm (5 \mu\text{g}/\text{m}^3 + 15 \%)$, above $150 \mu\text{g}/\text{m}^3$: $\pm (5 \mu\text{g}/\text{m}^3 + 20 \%)$. Calibrated with a GRIMM reference instrument using cigarette smoke source.• Resolution: $1 \mu\text{g}/\text{m}^3$• Classified as Class 1 Laser per IEC60825-1 Ed. 3. This device complies with 21 CFR 1040.10 and 1040.11, except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019. Caution: This device contains one or more lasers. Use other than as described in the user guide, repair, or disassembly may cause damage, which could result in hazardous exposure to infrared.
CO₂ SENSOR	<ul style="list-style-type: none">• NDIR Sensor (Non-Dispersive Infra-Red);• Measurement range 400–5000 ppm.• Settling time: ~ 7 days• Accuracy ± 50 ppm $\pm 5 \%$ at 400-2000 ppm within 50 - 95 °F (10 - 35 °C) and 0 - 80 %RH, after initial settling time of 7 days.• Resolution: 1 ppm
LIGHT SENSOR	<ul style="list-style-type: none">• Measurement range: 0 - 100 %
NOISE SENSOR	<ul style="list-style-type: none">• Dynamic range: 35 - 120 dBA SPL (optimization pending)
VIRTUAL SENSORS	<ul style="list-style-type: none">• Occupancy• Virus Risk• Air Changes

Sensor sampling interval: 5 min. Space Pro offers additional configurable sensor sampling intervals from 2.5 min to 60 min for selected sensors.

