PRODUCT DATASHEET



Cloud Air Quality Track +





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16.1 °C
43.5 %
4.9 -
641.0 ppm
13.0 Ug/m3
4.9 Ug/m3
Air Quality_3.0_29
Premi per impostare >
RB
Air Quality_3.0_2920





Features:

- Lighting track Indoor Air Quality monitor compatible with Casambi ecosystem.
- Measure Ambient temperature, Relative Humidity, Tvoc (Total Volatile Organic Compound, CO2, PM 10, PM 2,5
- Data are visible on Casambi App and stored in Casambi Cloud
- Cloud stored data can be retrieved with the included app that allow display, charting, analyzing of all parameters.
- No tools installation.
- Small dimensions allow to be easily installed and hidden.

Description

Cloud Air quality Track + is a Casambi ready Air Quality sensor station that allow to measure, report and store Air Quality data . It consists in a several sensor that allow to give complete measurement of indoor location Air Quality.

All the electronic is housed in a 3 circuit standard lighting track that allow easy placing in indoor location like offices, shops, mass retail channels, museum etc.

The device has to be paired to a Casambi network and it is visible in Sensor section. Acquired data are available on sensor page app and are stored in Casambi cloud. The device need a reliable Internet connection and an active Casambi Gateway with Sensor data enabled

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Indietro Air Qua	ality_3.0_2920
SENSORI	16.1 °C
Relat. Humidity	43.5 %
TVOC	4.9 -
CO2	441.0 ppm
PM 10	13.0 Ug/m3
PM 2.5	4.9 Ug/m3
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Nome	Air Quality_3.0_29
Icona	Premi per impostare >
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Modello	Air Quality_3.0_2920
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The included Windows App allow to establish a Cloud Casambi API Session to retrieve data from cloud to display, chart and report mains parameters and installation energy consumption.

Software is intuitive and all setup settings are automatically stored and retrieved on App closing and opening.



Technical specification:

Air quality measured parameters:

Ambient temperature	-45 - 85 °C		
Relative Humidity (RH)	0 - 90 %		
Pressure	300 – 1100 hPA		
Index of Air Quality	0-500		
Carbon dioxide (CO2)	0 - 5000 ppm		
Particulate Matter < 10 Um (PM 10)	0 - 1000 μg/m³		
Particulate Matter < 2.5 Um (PM 2.5)	0 - 1000 μg/m³		
Input Voltage:	200-260 Vac		
Power consumption:	2W		
Isolation:	class II		
Protection grade	IP 20		
Dimensions:	120x185x54 mm		
Standards: Electromagnetic compati	Electromagnetic compatibility (EMC) - emissions and immunity: EN 62052-11		
Electrical safety: EN 61010-1, EN 50470-1 (MID), UL 61010-1			
Approvals:			

Not suitable for safety applications

IAQ Index	Air Quality	Impact (long-term exposure)	Suggested action
0 - 50	Excellent	Pure air; best for well-being	No measures needed
51 - 100	Good	No irritation or impact on well-being	No measures needed
101 - 150	Lightly polluted	Reduction of well-being possible	Ventilation suggested
151 - 200	Moderately polluted	More significant irritation possible	Increase ventilation with clean air
201 - 250 ⁹	Heavily polluted	Exposition might lead to effects like headache depending on type of VOCs	optimize ventilation
251 - 350	Severely polluted	More severe health issue possible if harmful VOC present	Contamination should be identified if level is reached even w/o presence of people; maximize ventilation & reduce attendance
> 351	Extremely polluted	Headaches, additional neurotoxic effects possible	Contamination needs to be identified; avoid presence in room and maximize ventilation

Installation

- 1) Install Cloud Air Quality Track on a 3 wire lighting track. Select correct wire .
- 2) Cloud Air Quality has to be in the radio range of at least one Casambi network other node.
- 3) Pair the device with the Casambi network active in the area.
- 4) An active Casambi network gateway is needed to delivery data to the cloud. Data will be available with some delay.
- Our Cloud Air quality are designed for indoor use in public and domestic spaces (were normally the sensor will be exposed to "fresh" air at list once in 8 days (ambient unoccupied by humans))

In this way we can rely on the sensor auto-calibration built-in algorithm .

- Requirements for auto-calibration: At list weekly exposure to fresh air Device Continuously powered
- 7) The sensor must be exposed to typical background CO2 levels (around 400-450ppm) at least once during the auto-calibration period. The built in autocalibration function in sensors uses the information gathered at these periods to recalibrate the zero point. A typical example would be in office buildings, which are often unoccupied overnight and at weekends. During these 'out of hours' times, background CO2 levels tend to drop very low. This is why an auto-calibration cycle is typically at least 8 days, to include a weekend. For auto-calibration to function, the sensor must be continuously powered for the entire auto-calibration period. This is because when the sensor is switched off, autocalibration information is deleted (to ensure that each installation is unaffected by previous data history).
- 8) In alternative it is always possible to start calibration using specific command from Casambi app (using fresh air too)