Airly Air Quality Sensors

Product Card

General information

Available protocols for communication

- GSM

Particulate matter concentration measurement

	Range	Accuracy
PM1.0	0 – 500 µg/m³	± 1 µg/m3
PM2.5	0 – 1000 µg/m³	± 1 µg/m3
PM10	0 – 1000 µg/m³	± 1 µg/m3

Measurements interval

- Airly PM Sensor: 5 min
- Airly PM+GAS Sensor: 5 min

Power supply

- Powered by: 5V@2A from external USB
- Power supply: (230V/110V)
- Power supply cable length: 2.9 m
- Solar power supply: available
- Average power consumption: 1.2 W
- Max. power consumption: 2 W
- Energy consumption (per 24h): 0.03 kWh
- Energy consumption (per year): 10.5 kWh

Data accessibility

- Airly website map.airly.org
- Airly Mobile app iOS, Android and Huawei
- Widget
- Airly API
- Airly Data Platform (ADP)

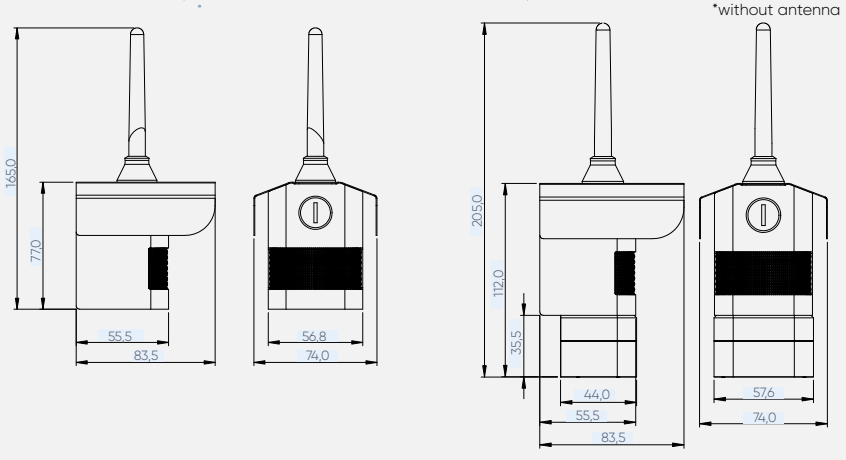
Installation requirements

- GSM range: min -90 dBm
- Access to power: The sensor must be permanently connected powered if you can't meet this recommendations for your destination, consider using the sensor with the power system solar energy.
- Height: 1.5 – 8 m above the ground

Technical specification

	Airly PM Sensor		Airly PM+GAS Sensor	
Constant working conditions				
Temperature	-40°C – +80°C		-40°C – +80°C	
Humidity	0 – 100%		0 – 100%	
Pressure	700 – 1 200 hPa		700 – 1 200 hPa	
Measurements				
	PM1, PM2.5, PM10, temperature (°C), pressure (hPa), humidity (%)		PM1, PM2.5, PM10, temperature (°C), pressure (hPa), humidity (%	
			types: NO $_2$+O_3, SO_2+CO, NO_2+NO	
	Range	Accuracy	Range	Accuracy
Temperature	-40°C – +80°C	± 0,1°C	-40°C – +80°C	± 0,1°C
Pressure	700 – 1 200 hPa	± 1 Pa	700 – 1 200 hPa	± 1 Pa
Humidity	0 – 100%	± 1%	0 – 100%	± 1%
Measurement frequency				
Sampling Interval	1-2 sec		1-2 sec	
Averaging Interval	5 min		5 min	
Interwał wysyłania	5 min		15 min (3 samples with a 5-minute average)	
Both sensors (in Low Power mode)	Sampling Interval	sending interval	Sleep time	
	1-2 sec every 4 min	20 min	16 min	
Gas concentration measurement			Range	Accuracy
NO			0 – 5 000 ppb	± 1 ppb
NO_2			0 – 5 000 ppb	± 1 ppb
O_3			0 – 5 000 ppb	± 1 ppb
SO_2			0 – 5 000 ppb	± 1 ppb
CO			0 – 20 000 ppb	± 1 ppb
Enclosure parameters and weight				
Case material	Stainless steel		Stainless steel	
Dimensions	74 x 77* x 83,5 mm		74 x 112* x 83,5 mm	
Device weight	440g		490g	

*without antenna



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