Airly Air Quality Sensors
Product card

General information

Available protocols for communication
- GSM
- Optionally: Wi-Fi, LoRa, NB-IoT

Particulate matter concentration measurement

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

Installation requirements
- GSM range
- Power source
- Height: 1.5 – 8 m above ground

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Technical specification





Constant working conditions

	Airly PM Sensor	Airly PM+GAS Sensor
Temperature	-40°C – +80°C	-40°C – +80°C
Humidity	0 – 100%	0 – 100%
Pressure	700 – 1 200 hPa	700 – 1 200 hPa

Measurements

	Airly PM Sensor		Airly PM+GAS Sensor	
	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 hPa	700 – 1 200 hPa	± 1 hPa
Humidity	0 – 100%	± 1%	0 – 100%	± 1%

Gas concentration measurement

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

	Airly PM Sensor	Airly PM+GAS Sensor
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

