Aranet
PM sensor

The perfect solution to monitor air
pollution and keep you safe from
harmful particulate matter in the air

aranet

Aranet PM sensor

Measures the concentration of particulate matter in the air.

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TDSPPM02 (EU)
TDSPPMR2 (RU)
TDSPPMU2 (US,AS)
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Sensor performance

	PM1.0	PM2.5	PM10
Range	0 – 1000 μg/m^3	0 – 1000 μg/m^3	0 – 1000 μg/m^3
Resolution	1 μg/m^3	1 μg/m^3	1 μg/m^3
Accuracy[1]	± 10 %	± 10 %	± 10 %

Radio parameters

Line of sight range	3 km (1.9 mi)
Supported ISM bands	EU868, RU869 US920, AS923
Transmitter power	14 dBm
Data transmission interval	1, 2, 5 or 10 minutes
Data protection	XXTEA encryption
Compatible base stations	Aranet PRO

General

Ingress Protection code	IP42
Operating temperature range	-10 °C to 60 °C (14 °F to 140 °F)
Operating relative humidity range	0% to 95 %
Dimensions	104 x 67 x 37 mm (4.10 x 2.64 x 1.46 in)
Weight[2]	116 g (4.1 oz)
Power	12-24 VDC
Included in the box	AC power supply, wall mount

AQI[3]

AQI[3]	Category	LED
0-50	good	green
51-100	moderate	yellow
101-150	unhealthy for sensitive groups	orange
151-200	unhealthy	red
201-300	very unhealthy	purple
301+	hazardous	flashing

Compliance

CE	Conformité Européenne
IC	Innovation, Science and Economic Development Canada
FCC	Federal Communications Commission (USA)

The sensor best performs when operated within 10–40 °C and 20–80 % RH, should be placed in stable temperature and relative humidity locations. Avoid operating in a heavily contaminated environment; under excessive ambient light, and/or wind.

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[1] 95 % of the sensors measure within these typical limits in equilibrium state at time of sale.
[2] without wall mount.
[3] Air Quality Index, see www.epa.gov/outdoor-air-quality-data/how-aqi-calculated