NextPM Lite Datasheet

NEXT GENERATION PARTICULATE MATTER OEM SENSOR
PM 10, PM 2.5, PM 1

Advantages

TERA Sensor's accuracy

Durability

The Smallest

Designed for **indoor air quality monitoring and home equipment**, NextPM Lite provides real-time measurements of PM1, PM2.5 and PM10 in µg/ m3 and pcs/ L.

NextPM Lite is **one of the smallest** sensors on the market with the most advanced performance.

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Technical specifications

Designation	Values	Units
GENERAL		
Technology	Optical	-
Targeted pollutants	Particulate Matter	-
Outputs	PM1 PM2.5 PM10 Channel 1 : >0.3 µm Channel 2 : >0.5 µm Channel 3 : >1.0 µm Channel 4 : >2.5 µm Channel 5 : >5.0 µm	*µg/m³ & number of particles / L* *number of particles / L*
Airflow	1	*L/mn*
Size (l * w * h)	Annex 1	*mm*
Lifetime (MTTF)[1]	up to 10	years
PERFORMANCE		
Particle Size detection range	0.3 - 10	*µm diameter*
Detection efficiency with 0.3 µm diameter particles	> 50	%
Concentration detection range / PM10 - PM2,5 - PM1	0 - 1000	*µg/m3* *(Arizona dust A1 equivalent)*
Detection Limit	< 1	*µg/m3* *(Arizona dust A1 equivalent)*
Linearity error	< 5	*%*
Repeatability error [2]	< 3	*%*
Refresh rate	1/10	*sec.*
Warm-up time	10	*sec.*
Temperature influence	< 0.01	*µg/ m³ /°C*
ELECTRIC SPECIFICATIONS		
Power supply	5	*VDC*
Power consumption in operation	< 80	*mA*
Power consumption in Sleep Mode	< 5	*mA*

Designation	Values	Units
COMMUNICATION		
UART, Modbus or I2C	Download NextPM Lite User Guide for more informations	
OTHER		
Operating conditions	0 to +50	*°C*
	0 - 70 uncondensed	*%*
	500 to 1500	*hPa*
Storage conditions	-20 to +60	*°C*
	0 - 95 uncondensed	*%*
	500 to 1500	*hPa*
Certifications	CE	
	REACH	
	RoHS compliant	
Dimensions and weight	L 34.3 mm x W 32.4 mm x H 18.9 mm | < 16 g L 1.34 in / W 1.26 in / H 0.71 in | < 0.57 Oz	

[1] Lifespan can vary depending on the operating conditions

[2] Calculated with the fifteen minutes moving average output

Mechanical specifications