

## NextPM Data Sheet

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







## Technical specifications

Designation	Values	Units	
GENERAL			
Technology	Optical	-	
Targeted pollutants	Particulate Matter	-	
Outputs	PM1 PM2.5 PM10 Temperature <sup>1</sup> Relative Humidity <sup>1</sup>	μg/m³ & pcs / L °C %	
Airflow	2,5	L/mn	
Size	Annex 1	mm / Inches	
Lifetime	>10 000	hour	
PERFORMANCE			
Particle Size detection range	0,3 - 10	μm diameter	
Detection efficiency with 0.3 μm diameter particles	> 50	%	
Concentration detection range / PM <sub>10</sub> - PM <sub>2,5</sub> - PM <sub>1</sub>	0 - 1000	µg/m3 (Arizona dust A1 equivalent)	
Detection Limit	<1	μg/m3 (Arizona dust A1 equivalent)	
Linearity error	<5	%	
Repeatability error <sup>2</sup>	<3	%	
Refresh rate	1/10/60	sec.	
Warm-up time	10	sec.	
Temperature influence 0°C to 30°C -20°C to 0°C 30°C to 70°C	0 < +1.0 < -0.8	%/°C	





Designation	Values	Units	
ELECTRIC SPECIFICATIONS			
Power supply	5.0	VDC	
Power consumption in operation	<80 300	mA mA (Maximum)	
Power consumption in Sleep Mode	<20	mA	
COMMUNICATION			
UART / Modbus (RS485) <sup>3</sup>	Download NextPM User Guide for more informations		
OTHER			
Operating conditions	-20 à +70 253 to 343	°C K	
	0 - 95 uncondensed	%	
	500 à 1500	hPa	
Storage conditions	-20 à +70	°C	
	0 - 95 uncondensed	%	
	500 à 1500	hPa	
Certifications	CE		
	RoHS compliant		
Dimensions and weight	L 62 mm x   52 mm x H 23 mm   45 g L 2,4 / W 2,07 / H 0,9 inches   1.59 Oz		

<sup>&</sup>lt;sup>1</sup> See NextPM User Guide for more information about these data

 $<sup>^{\</sup>rm 2}$  Calculated with the fifteen minutes moving average output

 $<sup>^3\,</sup>$  This communication's protocol needs a converter has described in the "NEXTPM RS485" document.





## **Mechanical Specifications**



