



NextPM Lite Data Sheet

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



Advantages

Tera Sensor's accuracy

Durability

The Smallest



Technical specifications

Designation	Values	Units
GENERAL		
<i>Technology</i>	<i>Optical</i>	-
<i>Targeted pollutants</i>	Particulate Matter	-
<i>Outputs</i>	PM1 PM2.5 PM10	$\mu\text{g}/\text{m}^3$ & pcs / L
<i>Airflow</i>	<i>TBD</i>	L/mn
<i>Size</i>	<i>Annex 1</i>	mm / Inches
<i>Lifetime</i>	>10 000	hour
PERFORMANCE		
<i>Particle Size detection range</i>	0,3 - 10	μm diameter
<i>Detection efficiency with 0.3 μm diameter particles</i>	> 50	%
<i>Concentration detection range / PM₁₀ - PM_{2.5} - PM₁</i>	0 - 1000	$\mu\text{g}/\text{m}^3$ (Arizona dust A1 equivalent)
<i>Detection Limit</i>	<1	$\mu\text{g}/\text{m}^3$ (Arizona dust A1 equivalent)
<i>Linearity error</i>	<5	%
<i>Repeatability error</i>	<3	%
<i>Refresh rate</i>	1	sec.
<i>Warm-up time</i>	10	sec.
<i>Temperature influence</i>	<0.01	$\mu\text{g}/\text{m}^3/^\circ\text{C}$



Designation	Values	Units
ELECTRIC SPECIFICATIONS		
Power supply	5.0	VDC
Power consumption in operation	<50	mA
Power consumption in Sleep Mode	<1	mA
COMMUNICATION		
UART or I2C	PM1 / PM2.5 / PM10	µg/m3 & pcs/L
OTHER		
Operating conditions	0 to +50	°C
	0 - 70 uncondensed	%
	500 à 1500	hPa
Storage conditions	-20 à +60	°C
	0 - 95 uncondensed	%
	500 à 1500	hPa
Certifications	CE	
	UL	
	RoHS compliant	
Dimensions and weight	L 33,5 mm x l 32,6 mm x H 20,5 mm >25 g L 1,32 / W 1,28 / H 0,8 inches 0,88 Oz	



Mechanical Specifications

