



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



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

