Manufactured by

TERA sensor

NextPM

Next Generation Particulate Matter OEM Sensor - PM10 | PM2.5 | PM

Technical Specifications

Designation	Values	Units
Technology	Optical	-
Targeted pollutants	Particulate Matter	-
Outputs	PM1 PM2.5 PM10 Temperature 1 Relative Humidity 1	µg/m3 &pcs/L °C %
Airflow	2,5	L/mn
Size	Annex 1	mm / Inches
Lifetime	>10 000	hour

Performance

Designation	Values	Units
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	%
Linearity error	Annex 1	mm / Inches
Lifetime	<5	%
Repeatability error 2	<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

- 1 - See NextPM User Guide for more information about these data
- 2 - Calculated with the fifteen minutes moving average output

Manufactured by

TERA sensor

ION SENSE

NextPM

Next Generation Particulate Matter OEM Sensor - PM10 | PM2.5 | PM

Technical Specification - Electrical Specification

Designation	Values	Units
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) 3	Download NextPM User Guide for more informations	
Other		
Operating conditions	20 à +70 253 to 343 0 - 95 uncondensed 500 à 1500	°C K % hPa
Warm-up time	10	sec.
Storage conditions	-20 à +70 0 - 95 uncondensed 500 à 1500	°C % hPa
Certifications	CE RoHS compliant	
Dimensions and weight	L 62mm x l 52mm x H 23mm | 45g L 2,4 / W 2,07 / H 0,9 inches | 1.59Oz	

- 3 - This communication's protocol needs a converter has described in the "NEXTPM RS485" document.

Manufactured by

TERA sensor

NextPM

Next Generation Particulate Matter OEM Sensor - PM10 | PM2.5 | PM

Mechanical Specifications