

Sensorbee Particle Matter Module

The Particle Matter Module, are a rugged high accuracy sensor built for outdoor use.

It have a high air flow rate for robust PM10 readings, as well as heating element that make help improve accuracy in high humidity situations.



SB4102 - Particle Matter Module

PARTICLE SENSOR:



Type:

Optical particle counter



Heating element:

Heating element active when >80% humidity.



Airflow: 2.5 lpm

Resolution: 1 $\mu\text{g}/\text{m}^3$



Concentration Ranges:

0 to 1000 $\mu\text{g}/\text{m}^3$ Mass Concentration

0 to 2600 $\#/\text{cm}^3$ Number Concentration

Mass Concentration Range & Precision:

PM1.0: 0.3-1.0 μm part.size - $\pm 5\%$ precision($\mu\text{g}/\text{m}^3$)

PM2.5: 0.3-2.5 μm part.size - $\pm 5\%$ precision($\mu\text{g}/\text{m}^3$)

PM10: 0.3-10.0 μm part.size - $\pm 10\%$ precision($\mu\text{g}/\text{m}^3$)

Number Concentration (PC) Range & precision:

PM1.0: 0.3-1.0 μm part.size - $\pm 5\%$ precision($\#/\text{cm}^3$)

PM2.5: 0.3-2.5 μm part.size - $\pm 5\%$ precision($\#/\text{cm}^3$)

PM10: 0.3-10.0 μm part.size - $\pm 10\%$ precision($\#/\text{cm}^3$)

MODULE:



Dimensions: 70 x 60 x 26 mm

Weight: 65 gram



Enclosure:

Polyamide



Operational Life:

>2 Years



Operating Temperature:

-20 to +60°C



Recommended Humidity range:

0 to 95 %RH



Operating Humidity range:

0 to 99 %RH