

# 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. The SB8202 Air Pro 2 MCERTS particle matter module needs to be MCERTS Compatible to keep it's certification.



- SB4102 - Particle Matter Module MCERTS Compatible
- SB4103 - Particle Matter Module

## PARTICLE SENSOR:



**Type:**  
Optical particle counter



**Heating element:**  
Heating element active when >60% humidity.



**Airflow:** 2.5 lpm  
**Resolution:** 1 µg/m<sup>3</sup>



**Concentration Ranges:**  
0 to 1000 µg/m<sup>3</sup> Mass Concentration  
0 to 2600 #/cm<sup>3</sup> Number Concentration

### Mass/Number Concentration Range & Precision:

PM1.0: 0.3-1.0µm part.size - ±5% precision(µg/m<sup>3</sup>)/(#/cm<sup>3</sup>)  
PM2.5: 0.3-2.5µm part.size - ±5% precision(µg/m<sup>3</sup>)/(#/cm<sup>3</sup>)  
PM10: 0.3-10.0µm part.size - ±10% precision(µg/m<sup>3</sup>)/(#/cm<sup>3</sup>)

### Bins (pcs/L):

0.3-0.5µm  
0.5-1µm  
1-2.5µm  
2.5-5µm  
5-10µm

## 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



**MCERTS Compatible calibration:**  
Module is individually 3-point-calibrated, and shipped with its own calibration certificate.