

# Sensorbee Carbon Dioxide Gas Sensor (CO<sub>2</sub>)

The SB4212 Carbon Dioxide Sensor is a photoacoustic NDIR gas sensor module designed for accurate outdoor CO<sub>2</sub> monitoring. With a specified measurement range of 400 to 5,000 ppm and integrated temperature and humidity compensation, it delivers reliable long-term measurements with a module operational life exceeding three years.



## SB4212 - Carbon Dioxide Sensor (CO<sub>2</sub>)



**Sensor type:**  
Photoacoustic



**Dimensions:**  
Ø20 mm x 24 mm



**Measurement Range:**  
Maximum 0 to 40,000 ppm  
Specified Range 400 to 5,000 ppm



**Weight:**  
8 gram



**Measurement Accuracy:**  
400 to 1,000 ppm: ± (50 ppm + 2.5 %)  
1,001 to 2,000 ppm: ± (50 ppm + 3 %)  
2,001 to 5,000 ppm: ± (40 ppm + 5 %)



**Enclosure:**  
Polyamide



**Resolution:**  
1 ppm



**Operating Temperature:**  
-10 to +60 °C



**Response Time:**  
< 60 sec



**Operating Humidity:**  
0 to 95 %RH



**Module Operational Life:**  
> 3 Year