



## SENSEAIR SUNRISE 1% CO2 SENSOR SE-11

The Senseair Sunrise SE-11 1% CO2 Sensor is a miniature sensor module for battery-powered applications. It gives full control over the sensor's integration into a host system and flexibility in changing the CO2 measurement period.

## FEATURES

- Most common type of sensor to measure CO2
- Wide supply voltage range enables a variety of battery options
- Robust and resistant to vibrations and tough environment
- Self-Calibrating
- High precision NDIR sensor with LED Technology
- Adjustable measurement period by host
- Adjustable ABC period by host
- Ultra-low power consumption

## SPECIFICATIONS

- **Sensing Method:** NDIR with ABC (Automatic Baseline Correction)
- **Measurement Range:** 400-5000ppm with extended range up to 10,000ppm
- **Rate of Measurement:** 8 samples every 16 secs (adjustable by host)
- **Response Time:** 16 secs
- **Accuracy:**  $\pm(30\text{ppm} + 3\% \text{ of reading})$  (extended range  $\pm 10\% \text{ of reading}$ )
- **Operating temperature range:** 0-50°C
- **Operating humidity range:** 0-85%RH (non-condensing)
- **Dew point:**  $\leq 35^\circ \text{C}$
- **Sensor Life Expectancy:** 15 years
- **Dimensions:** 1.3 x 0.78 x 0.47 in.

## ELECTRICAL

- **Power Supply:** 3.05-5.5 V4
- **Current Consumption:** 38mA average, < 125mA peak

## ADDITIONAL MODELS

- **CM-11 - CO2 Sensor Development Kit**
  - Easy to use, simply plug the sensor module into your PC via USB. Use our free GasLab® software to measure and graph carbon dioxide, to configure the sensor or for data logging. Includes a connector and switch configurations to connect to an Arduino, Raspberry Pi, or any other microcontroller via UART or I2C for rapid development and prototyping.

## INDUSTRIES



Indoor Air Quality



Automotive



Outdoor Air



Battery Powered