Sunrise 1% CO2 Sensor

- **NEW NDIR Sensor w. LED Technology**
- **Wide Supply Voltage Range**
- **Ultra-Low Power Consumption**
- **High Precision, Optical Solid State**
- **Self-Calibration**

SE-11

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

Thanks to the next generation LED technology of SE-11, it has an ultra-low power consumption. 6 times lower than the competing low power NDIR sensor on the market. Average current 150µA[2,5].

Mount the SE-11 1% CO2 Sensor, and forget your sensor for the next 15 years; as it will still be accurate thanks to the built-in, selfcorrecting ABC algorithm.

Applications

- Battery Powered Applications

Specifications

- Measurement Range: 400-5000 ppm
- Operating Principle: NDIR
- Accuracy: ± 30ppm or ± 3% of reading
- Measurement Interval: every 16 seconds
- Operation Range: 0-50°C, 0-85 % RH
- Storage Temperature: -40 - 70°C
- Power Supply: 3.05-5.5V[4]
- Measurement Period: adjustable by host
- Serial Communication: UART, I²C
- Sensor Life Expectancy: >15 years

Part no. SE-11

Features

- Wide supply voltage range enables a variety of battery options
- Robust and resistant to vibrations and tough environments
- High precision NDIR sensor with LED technology
- Adjustable ABC period by host
- Adjustable measurement period by host

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