



Standard specification

Article No. Measured gas Operating principle Measurement range (CO₂)

Accuracy (CO₂)

Average current, typical Measurement period

Steady state current during sampling Peak current Power supply Dimensions Weight Life expectancy Operating range Storage temperature Serial communication 006-1-0100 Carbon dioxide (CO_2) Non-dispersive infrared 400 – 5000 ppm; extended range up to 10000 ppm ±50 ppm ±3% of reading ^{1,2} (extended range ±10% of reading) See table to the right Default: 16 s, 8 samples (adjustable by host)

50 mA <80 mA 3.05 – 5.5 V ³ 34 x 21 x 12 mm 5 g >15 years 0 – 50 °C, 0 – 85% RH -40 – 70 °C UART, I²C

Note 1: 15 – 35 °C, 0 – 80%RH, after 3 ABC (Automatic Baseline Correction) periods and default measurements settings. Specification is referenced to uncertainty of calibration gas mixtures (+:

 Note 2:
 Specification is referenced to uncertainty of calibration gas mixtures (±1%).

 Note 3:
 Unprotected against surges and reverse power supply polarity.

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Senseair Sunlight CO₂

World's most power efficient CO_2 sensor with NDIR technology

As a follow-up to our high performance flagship product Sunrise, we present Sunlight - the world's most power efficient NDIR CO_2 sensor. Sunlight can be used in a wide range of applications but is optimal for battery and wireless applications or in places where you want to secure a reliable and secure sensor with long lifetime.

The module is designed for simple integration into products. The optical solid state design with no moving parts makes this sensor robust and resistant to vibrations.

With our automatic baseline correction Sunlight is maintenance-free, which means that you can mount and forget your sensor during its whole lifetime and it will still be accurate.

Key benefits

- Optical Solid State
- Ultra Low Power consumption
- High Precision
- Robust
- Mass Production
- Self-correcting

Average current (typical), at continuous and single measurement mode respectively.

Measurement	2 Samples		8 Samples		32 Samples	
period	Cont Single		Cont Single		Cont Single	
16 s 1 min 5 min	21 μΑ 18 μΑ 16 μΑ	7 μΑ 1 μΑ	30 μΑ 20 μΑ 17 μΑ	16 μΑ 3 μΑ		22 μΑ 4 μΑ





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