

Senseair Sunlight CO₂



Extremely power efficient CO₂ sensor with NDIR technology

Compliant with HVAC and building standards, we offer Senseair Sunlight CO₂ – an extremely power efficient NDIR CO₂ sensor. Senseair Sunlight CO₂ 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 Senseair Sunlight CO₂ is maintenance-free, which means that you can mount and forget your sensor during its whole lifetime and it will still be accurate.

Standard specification

Article number	006-1-0100
Operating principle	Non-dispersive infrared
Measured gas	CO ₂
Measurement range	0–10 000 ppm
Accuracy	±50 ppm ±3% of reading
Accuracy, ANSI/ASHRAE	±75 ppm
Operating conditions	0–50 °C 0–85% RH
Warm-up time	0 s
Response time	30 s
Power supply	3.05–5.5 V
Peak current	< 125 mA
Average current	1–34 µA
Communication	UART, I ² C
Outputs	Digital
Compliance	ANSI/ASHRAE 62.1-2022 RESET grade B WELL v2™
Maintenance	Maintenance-free
Life expectancy	> 15 years
Dimensions	34x21x12 mm
Weight	5 g
Storage conditions	–40–70 °C

Key benefits

- Compliant with
ANSI/ASHRAE Standard 62.1-2022
+Addendum ab (October 31, 2023)
RESET grade B
WELL Building Standard® (WELL v2™)
- Ultra Low Power consumption
- High Precision
- Robust
- Mass Production
- Self-correcting

Disclaimer : Please refer to product specification for the complete technical details.

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Senseair
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