

Senseair Sunrise



A new generation NDIR sensor

Senseair Sunrise is our most accurate and power efficient sensor. It complies with several modern standards including Addendum ab to ANSI/ASHRAE Standard 62.1-2022.

It is a new generation of NDIR sensor with Optical Solid State design. Electronics with no moving parts makes this sensor robust and resistant to vibrations. Any application with a tough environment or in environments with explosion risk is benefited by the solid state design.

It is the first NDIR sensor with LED technology that truly saves power while maintaining a high precision.

The ultra low power consumption makes Sunrise optimal for battery and wireless applications.

Thanks to the built-in self-correcting algorithm you can mount and forget your sensor for the next 15 years and it will still be accurate.

Standard specification

Article number	006-0-0008
Operating principle	Non-dispersive infrared
Measured gas	CO ₂
Measurement range	0–10000ppm
Accuracy	±30ppm ±3% of reading ¹
Operating conditions	0–50 °C 0–85% RH
Warm-up time	0s
Response time	30s
Power supply	3.05–5.5V
Peak current	< 125mA
Average current	1–34µA
Communication	UART, I ² C
Outputs	Digital
Compliance	ANSI/ASHRAE 62.1-2022 RESET grade A WELL v2™
Maintenance	Maintenance free
Life expectancy	> 15 years
Dimensions	33.5x19.7x11.5mm
Weight	5g
Storage conditions	-40–70 °C

Key benefits

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

Note 1: ±75ppm Accuracy at 1500–2500ppm (ANSI/ASHRAE compliance)
Disclaimer: Please refer to product specification for the complete technical details.

