

Senseair S88

Residential

The obvious choice for a wide array of CO₂ applications

The S88 Residential is a refresh of our popular S8 platform that defined modern sensor pinning. The same form factor, the same cost efficiency, designed for mass production and it of course come with the same pinning.

What we have done with the S88 is refresh its internals, ensuring a long period of support and availability moving forward. We've also made sure it meets the latest standards, including ASHRAE 62.1-2022 addendum ab.

The appearance and I/O of the sensor remains identical, making sure that, should you choose, transitioning from the S8 to the S88 is as smooth as possible.

The S88 punches well above its weight in terms of both cost and size, and its ease of integration makes it an easy recommendation for a large variety of use cases.



Standard specification*

Article number	004-1-0100
Operating principle	Non-dispersive infrared
Measured gas	CO ₂
Measurement range	400–10000ppm
Accuracy	±50ppm ±3% of reading ¹
Operating conditions	0–50 °C 0–85% RH
Warm-up time	< 10s
Response time T _{63%}	< 30s
Power supply	4.5–5.25V
Peak current	≤ 300mA
Average current	≤ 30mA
Communication	UART (Modbus)
Outputs	Digital
Compliance	ANSI/ASHRAE 62.1-2022 RESET grade B WELL v2™ California Energy Code
Maintenance	Maintenance free
Life expectancy	> 15 years
Dimensions	33.9x19.8x8.7mm
Weight	< 5g

Key benefits

- Compliant with:
 - ANSI/ASHRAE Standard 62.1-2022 +Addendum ab (October 31, 2023)
 - RESET grade B
 - WELL Building Standard® (WELL v2™)
 - Title 24, California Energy Code
- Cost efficient
- Low Power consumption
- High Precision
- Mass Production
- Self-correcting

Note 1: ±75ppm Accuracy at 600, 1000 and 2500ppm @ sea level, 77 °F (25 °C) (ANSI/ASHRAE compliance)

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

* Might be changed without notice.

