Senseair S9

CO_2 sensor for harsh environments

The Senseair S9 is a state-of-the-art carbon dioxide sensor that utilises NDIR technology, designed for installation in harsh environments. Its removable protective cover shields the sensing component, while the IP65-rated housing ensures durability and resistance to dust and water.

Capable of measuring CO_2 concentrations of up to 3%, the Senseair S9 converts data into both an analogue output (0–5 V) and a digital output, enabling seamless integration with various systems.

Thanks to its robust desgin, the Senseair S9 is ideal for industrial applications, including CO_2 monitoring in processes such as egg incubation, fly larvae cultivation, and fermentation.

Key benefits

- Heat- and water resistant (IP65 protection rating)
- Engineered for harsh environments
- Proven and reliable technology
- Removable protective cover for sensor protection
- Individually calibrated sensors
- High volume production

Standard specification

Article number	099-16-00xx
Operating principle	Non-dispersive infrared
Measured gas	CO_2
Measurement range	0–30 000 ppm
Accuracy	±300 ppm ±3% of reading
Operating conditions	0–50 °C
	0–95% RH
Warm-up time	< 60 s
Response time	< 60 s
Power supply	15–30 VDC
Average power consumption	< 1 W
Communication	UART (Modbus)
Outputs	Linear analogue output
	1–4 VDC, 0–30 000 ppm
Maintenance	Periodical calibration
Life expectancy	> 10 years
Dimensions	Height: 42 mm
	(without connector)
	Diameter: 35 mm
Storage conditions	-40–60 °C

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

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