Senseair S88 GH

CO_2 Sensor for Agricultural Environments

Senseair S88 Greenhouse (GH) is a high-performance NDIR CO_2 sensor module designed for modern, high-demand agricultural and indoor farming applications. Based on the robust and proven S88 platform, this variant is engineered specifically for harsh environments with high sustained relative humidity. It provides accurate and reliable CO_2measurements up to 20 000 ppm, ensuring stable performance even under the extreme conditions often found in greenhouse and vertical farming environments.

Built with advanced NDIR sensing technology, the S88 GH offers long-term stability and fast response times. Its rugged design and compact form factor allow seamless integration into climate control systems that manage ventilation, CO_2 enrichment, and air exchange.

With real-time, high-accuracy monitoring and a durable construction suited for continuous operation in high-humidity, high-CO_2 environments, the Senseair S88 GH is the ideal sensor module for climate-optimized agriculture.

Standard specification

Article number	004-1-0102
Operating principle	Non-dispersive infrared
Measured gas	CO_2
Measurement range	0–20 000 ppm
Accuracy	±50 ppm ±5% of reading
Operating conditions	0–50 °C
	0–95% RH
Warm-up time	< 3 s
Response time	< 30 s
Power supply	4.5–5.25 V
Peak current	≤ 300 mA
Average current	≤ 60 mA
Communication	UART (Modbus)
Outputs	Digital, PWM, Alarm
Maintenance	Maintenance free
Life expectancy	> 5 years
Dimensions	33.9x19.8x8.7 mm
Weight	< 5 g
Storage conditions	-40–70 °C

Key benefits

- 0–20 000 ppm range
- Engineered for high-humidity environments
- Rugged design
- Multiple output options
- Fast response time

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