Pre-calibrated AG-4 module

----Alphasense A series Oxygen Sensors Module

Features

- ✓ High performance
- ✓ Leak FREE
- ✓ Digital outputs: UART / TTL / RS232
- ✓ pre-calibrated before leaving the factory

Product Description

The AG-4 module uses Alphasense A-series electrochemical oxygen sensors for reliable, pre-calibrated oxygen concentration measurements. With a compact 20mm diameter, it fits well in portable gas detectors. Its high accuracy is essential for monitoring oxygen levels in safety, healthcare, air quality assessment, and industrial processes.

Technical Specification

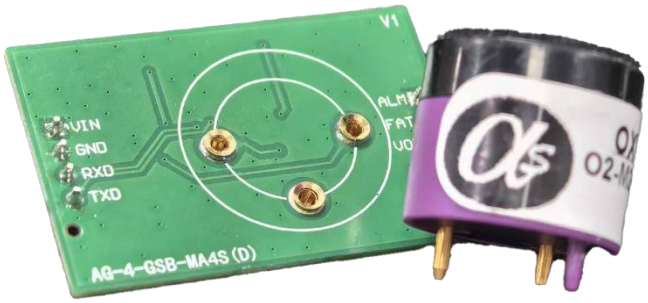
Item	Specification
Model Number	AG-4-GSB-MA4S(D)
Target Gases	Oxygen
Sensing Principle	Electrochemical
Detection Range	See corresponding sensor spec
Resolution	See corresponding sensor spec
Measurement Error	< ±5% FS
Operating Voltage	3.2 – 5.5V DC
Operating Current	≤ 500uA@5V
Output Signal	UART (+3.0V TTL)
Temperature Range	-20 - 55°C
Humidity Range	0% -90%RH
Pressure Range	1 ± 0.1 atm
Storage Temperature	10 - 20°C
Size	L*W*H=41mm*27mm*26mm
Expected Life	See corresponding sensor spec

Corresponding Sensor

Alphasense next-generation oxygen sensors — the leak-proof O2-A2/A3, industrial safety-focused LFO2-A1 (0-30% O_2), and ultra-precise LFO2-AH (0-2% O_2 with ppm-level detection)

Oxygen Sensor		
Sensor part number	**Measuring range**	**Sensor spec**
AG-4-O2-MO2A2(D)	**0 ~25% vol O_2**	2-year life span[1] t90: < 13(s) [2]
AG-4-O2-MO2A3(D)	**0 ~25% vol O_2**	3-year life span t90: < 13(s)
AG-4-O2-MLFA4(D)	**0 ~30% vol O2**	Lead-Free Operating life > 5 years Linearity < 0.1% deviation[3]
AG-4-O2-MLFA1(D)	**0 ~30% vol O_2**	Lead-Free Operating life > 5 years[4] t90: < 10(s)
AG-4-O2-MLFAH(D)	**0 ~2% vol O_2**	
AG-4-O2-MLFAL(D)	**0 ~95% vol O_2**	

Alphasense oxygen sensors sensor delivers RoHS-compliant, lead-free durability, combining universal reliability with specialized performance for safety, process control, and critical low-concentration applications.



[1] Years until 80% original output of 20.9% **O_2**
[2] Seconds from 20.9% to 0% **O_2**
[3] At 10% **O_2**
[4] Years until 85% original output of 20.9% **O_2**