

ALS-DOA1
Process Grade Optical
Autoclavable
Steam Sterilizable
Dissolved O2 Sensor

algae lab systems™
accelerating algae



The ALS-DOA1 sensor is an optical, autoclavable, steam sterilizable dissolved oxygen sensor. The optical technology means that the sensor will rarely if ever need calibration, does not require electrolyte, and functions without media flow. It withstands temperatures of up to 140 deg C and pressures up to 12 bar. Available in lengths from 120 mm to 425 mm.

Materials and Environment

Body	Stainless steel 1.4435, Silicone (FDA approved), EPDM
Process Connection	PG13.5 threads
Controller Connection	Signal conditioning cable ALS-BDOA1 to ALS-ACM/ACX
Diameter	12 mm
Temperature Range	-10 to 140 °C
Max. Pressure	12 bar

Measurement

Range	4 ppb to 25 ppm (DO) or 0.1 to 600 mbar (pO ₂) ¹
Accuracy at 25 °C	1 ± 0.05%-vol; 21 ± 0.2%-vol; 50 ± 0.5%-vol
Drift at room temperature	< 1% per week
Electrolyte required	None
Flow required	None
Required conditioning cable	ALS-BCC-42
Compatible with	ALS-ACM, ALS-ACX

Features

- Fully autoclavable and steam sterilizable
- Optical measurement principle allows long term use without frequent calibration
- Available in various lengths from 120 mm to 425 mm
- Highly accurate readings
- No electrolyte required, leakage free
- No flow required