

Luminescence Dissolved Oxygen Measurement (LDO)

XB4-S Optical Oxygen Sensor

XB4-S Optical Sensor - Properties and Function

- Robust housing for freshwater and saltwater applications
- Factory pre-calibrated
- Low maintenance
- Output:
 - Analog (4-20 mA corresponding to oxygen 0-200 %)
 - 1:1 compatible with all leading systems; input (4-20 mA)
- Robust, easily removable sensor cap (replacement interval > 12 months)
- 3 year warranty (except sensor cap)
- Independent from incoming flow
- Best price-performance ratio
- Minimal operation costs
- No sensitivity towards H₂S or CO₂



**Designed with technical
knowledge**

Under Development:

- RS485 Modbus RTU-interface
- SCS Simulation Clark-Sensor (galvanic isolation)
- Calibration data stored in exposable cap



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XB4-S Optical Sensor - Technical Parameters

Power Supply	External source 18 – 35V DC/ 30 mA
Signal Output	4 – 20 mA Oxygen
Oxygen Measuring Range	0 – 200%
Oxygen Accuracy	~1 %
Sensitivity	0,2%
Response Time t98%	< 60 s
Pressure Range	0 to 1 bar (0 – 10 m water column)
Temperature Sensor	Ni 1000
Temperature Compensation	Ni 1000 / Automatic 0 – 50 °C
Temperature Measuring Range	0 – 100 °C
Measurement Principle	Oxygen dependent luminescence quenching
Protection Rating	IP 68
Dimensions	270 x 35 mm
Material	Resin, PU (cable), stainless steel 1.4404
Oxygen Consumption	None
Required Flow	None

Request your quote now at business@gryf.cz

