

The oxi::lyser

Optical Oxygen - Plug & Measure

- **Plug&Measure:** There is no need for sensor preparation or initial calibration at start-up. Just plug in and measure.
- **Principle of Operation:** The oxi::lyser measures the quenching of a fluorescing complex in a sol-gel matrix. Different to other equipment available on the market, the sensor is not damaged by exposure to sunlight.
- **Calibration:** NO regular calibration is recommended. With the sensor kept reasonably clean, under normal conditions the calibration will hold for 6 months to 2 years.
- **Cleaning:** Fouling of the oxi::lyser does not have much effect on accuracy, but should only slow the response time of the system, so routine sensor cleaning is typically not required. If cleaning is wanted anyway, the instrument can be directly plugged to the s::can hydraulic cleaning system.
- **Costs of Operation:** No membranes or electrolytes are needed which sets maintenance almost zero and greatly reduces operational costs.
- **Flow Rate:** Readings are not affected by flow - the oxi::lyser will measure accurately even in stagnant water. This is great advantage in fine bubble aeration tanks where there is minimum flow.
- **Applications:** Can be used in all kind of waters: surface waters (rivers, lakes), ground waters, drinking waters, waste waters (influent, aeration tank, effluent).
- **Controllers:** The oxi::lyser is a smart sensor and thus has the controller inside. It is compatible with all types of s::can software and terminals and fully integrated into all s::can systems
- **Installation:** The oxi::lyser can be installed quickly and easily via the 1 1/2 inch external screw thread at any place.



Measuring principle	Fluorescence quenching
Measuring range	0.0 to 25.0 ppm
Sensitivity	0.02 ppm
Stability (24 hr)	0.05 ppm
Precision	0.02 ppm
Accuracy	1% of reading or 0.05 ppm (whichever is greater)
Response time	1 minute
Ambient conditions	0 - 60°C, 6 bar pressure
Sensor diagnosis	Automatic self diagnostics
Power	12V DC, provided by any type s::can terminal
Interface	RS485 Modbus directly to s::can terminal
Weight	appr. 350g w/o cable
dimensions	48 mm x 150 mm
Wetted Materials	Polyurethane, Epoxy, Silicon
Minimum Flow Rate	No flow required
Sensor Cable	4 conductor, 22 AWG, Polyurethane jacket
Temperature Sensor	available 0-60°C (optional)
Automatic Cleaning	Not required in most applications. Can be directly plugged into the s::can hydraulic cleaning system.

