



OPTICAL DISSOLVED OXYGEN SENSOR

Maintaining proper dissolved oxygen levels in water is vital to raising healthy fish and ensuring robust growth. Innovasea's Optical DO Sensor delivers precise, accurate readings of dissolved oxygen in real time so farm operators can quickly and easily make sure their fish are healthy and safe – and optimize production.

The Optical DO Sensor is compatible with both analog and digital interface systems, comes preconfigured for error-free set up and requires less frequent calibration than galvanic sensors. It also features a rugged cable and housing, with a smart oxygen sensing patch that can be replaced on-site to minimize maintenance costs.



| OPTICAL DO SENSOR |

APPLICATIONS

- o Land-based fish farms
- o Pond aquaculture
- o Semi-enclosed pens
- o Open ocean net pens



BENEFITS

Optical technology provides more accurate data and requires less frequent calibration than galvanic sensors.

Data is delivered in real time to provide instant insight on water conditions.

Improve FCR and increase profits with the ability to monitor and control dissolved oxygen.

Reduce downtime and maintenance costs with Innovasea technology and smart oxygen sensing patch system.

Compatible with both analog and digital interface systems.

**GET PRECISE, ACCURATE READINGS
OF DISSOLVED OXYGEN IN REAL TIME.**

OPTICAL DISSOLVED OXYGEN SENSOR

SPECIFICATIONS

- **Sensor Type:** Optical Based Measurement
- **Saturation Range, DO:** 0-200%, 0 – 20 mg/L
- **Accuracy:** +/-5%, up to 0-120%, from 5°C to 25°C
- **Response Time (in water):** T90: < 45s
- **Temperature:** -5°C to 35°C, +/- 0.1°C
- **Communications Output:**
 - Modbus RTU/RS485 Communication
 - Analog output options for both oxygen and temperature: 0-5V, 0-10V, 4-20mA, 0-20mA, 0-24mA
- **Sensor Length:** 260mm (includes strain relief)
- **Sensor Diameter:** 60mm
- **Cable Length:** 7m (standard), 15m, 30m, or custom
- **Weight:**
 - Dry – 0.8kg/1.8lbs
 - Wet – 0.25kg/0.6lbs
- **Sensor Material Type:** Acetal
- **Power Requirements:** 8V to 30V DC
- **Warranty:** 2 years

OPTIONS

- Threaded collar for in-line flow-through applications
- Copper guard to reduce biofouling growth between cleaning cycles

PAIR WITH

- aquaHub
- PLC
- aquaControl - closed loop oxygen control
- Pairs to other devices. Contact Sales for complete list.

Note: Unlike many of our competitors, Innovasea determines performance specifications based on laboratory testing in water to create an environment that resembles actual farm conditions.



FURTHER INFORMATION

Visit us today at www.innovasea.com



About Innovasea

Innovasea designs the world's most technologically advanced aquatic solutions for fish tracking and fish farming – and builds them to withstand the toughest conditions. We partner with customers to fully understand their needs and solve their most pressing challenges. It's all driven by a commitment to make our ocean and freshwater ecosystems sustainable for future generations. **Today. Tomorrow. For life.**