YSI Optical Dissolved Oxygen & Temperature Sensor
for aquaculture continuous monitoring and control

Engineered specifically for aquaculture applications, the optical dissolved oxygen sensor can be used with the 5500D MultiDO monitor for process control to ensure adequate oxygen levels for your livestock or for improved energy efficiency. With YSI's ODO® optical dissolved oxygen technology you’ll benefit from reduced costs, less maintenance and better data. The ODO sensors require no membrane changes, no electrode cleaning, no stirring for accurate data and less frequent calibrations.

You can also incorporate the DO sensor directly with your PLC via the RS485 communication. Additional inputs for barometric pressure and salinity are used to accurately calculate the DO % and mg/L.

• Non-consumptive luminescent method eliminates stirring
• No warm-up time required
• Smart sensor retains calibration in the probe
• Compatible with 5500D MultiDO monitor and the IOEM and REM expansion modules
• User-replaceable, low maintenance DO cap with +1 year life
• Tank-side calibration when used with the YSI 5500D monitor
• Ability to connect to PLC
• Communication via RS485
• 2-year cable and probe warranty

With optical DO, oxygen is constantly diffusing through the sensing cap affecting the luminescence of the sensing layer. The lifetime of the luminescence is measured by the sensor and compared against a reference.
### YSI Optical Dissolved Oxygen and Temperature Sensor Specifications

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<tbody>
<tr>
<td><strong>Dissolved Oxygen</strong></td>
<td><strong>Range</strong></td>
<td>0 to 500% air saturation</td>
<td><strong>Accuracy</strong></td>
<td>0 to 200% air saturation ±1% of the reading or ±1% air saturation, whichever is greater; 200 to 500% air saturation ±1% of the reading</td>
<td>0.1% air saturation</td>
<td>2-years cable and probe; 1-year sensor cap (actual sensor cap life may be longer)</td>
<td>CE, RoHS, WEEE, C-Tick, VCCI, IP-67, Made in USA</td>
<td>6.3 VDC at 10-20 mA</td>
<td>Length: 19 cm (7.5 in); Diameter 2.4 cm (0.95 in)</td>
<td>Xenoy® PBT Polycarbonate blend, Noryl, Stainless Steel, Titanium, Polyurethane, Santoprene, Acrylic, Polystyrene</td>
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<td><strong>Dissolved Oxygen</strong></td>
<td><strong>Range</strong></td>
<td>0 to 50 mg/L</td>
<td><strong>Accuracy</strong></td>
<td>0 to 20 mg/L ±0.1 mg/L or ±1% of reading, whichever is greater; 20 to 50 mg/L ±1% of the reading</td>
<td>0.01 or 0.1 mg/L (auto scaling)</td>
<td>RS485, proprietary communication (NDA required)</td>
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<td><strong>Temperature</strong></td>
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<td>-5 to 70 °C (23 to 158 °F)</td>
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<td><strong>Response time</strong></td>
<td>90% of reading in 25 seconds; 95% of reading in 45 seconds (typical response times with no stirring; sample movement will improve typical response times)</td>
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<td><strong>Communication Protocol</strong></td>
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<td><strong>Warranty</strong></td>
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### YSI Optical Dissolved Oxygen and Temperature Sensor Ordering Information (order items separately)

- 626320: Sensor cap (included with initial probe purchase)
- 626200-4: 4-meter cable with optical DO probe
- 626200-10: 10-meter cable with optical DO probe
- 626200-20: 20-meter cable with optical DO probe
- 626200-30: 30-meter cable with optical DO probe
- 626200-40: 40-meter cable with optical DO probe
- 626200-50: 50-meter cable with optical DO probe
- 626200-60: 60-meter cable with optical DO probe
- 626200-100: 100-meter cable with optical DO probe

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**YSI**  
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