

# Submersible Dissolved Oxygen Sensor

WITH DATA LOGGING VIA GDL



## APPLICATIONS

- Dam Discharge Monitoring
- Aquaculture
- Leachate Monitoring (Landfill)
- Long-term surface water monitoring
- Monitoring remediation performance
- Municipal and Industrial Water Treatment Facilities

## The next generation in trouble-free oxygen-sensing design

### Features

- Measures and records dissolved oxygen, temperature, and time
- Modbus® RTU (RS485) and SDI-12 interface — *great flexibility*
- Connects topside to a GDL control box — *connect up to four sensors to one box*
- Non-volatile memory — *no data loss in the event of a power failure*
- Wireless connectivity — *radios and/or cellular*
- Free, easy-to-use software



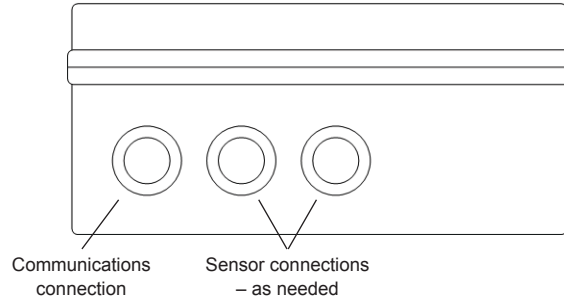
- Fluorescence sensor technology
- No membranes, fill solutions, or cartridges
- No replacement caps required
- Does not need water movement, flow, or frequent cleaning
- Does not require frequent calibration
- 1.66 inch diameter — *fits easily in 2-inch wells*



True data, measure by measure

1-800-PRO-WELL  
[WWW.INWUSA.COM](http://WWW.INWUSA.COM)

## Submersible Dissolved Oxygen Sensor with Data Logging via GDL



### GENERAL

<b>Enclosure Material</b>	Polycarbonate (IP67)
<b>Enclosure Dimensions</b>	5.5" x 3.1" x 2.6" (14 x 7.9 x 6.6 cm) <i>(excluding connectors)</i>
<b>Probe Diameter</b>	1.66" (4.22 cm)
<b>Connectors</b>	1 Communication port 1-4 Sensor ports
<b>Protection Rating</b>	IP68, NEMA 6P
<b>Communication</b>	RS485 Modbus® RTU SDI-12 (ver. 1.3)
<b>Direct Modbus Read Output</b>	32-bit IEEE floating point
<b>SDI-12 Output</b>	ASCII
<b>Internal Math</b>	32 bit floating point

### LOGGING

<b>Memory</b>	Up to 260,000 records — <i>depending on configuration</i>
<b>Log Types</b>	Variable, user-defined, logarithmic, profiled
<b>Programmable Baud Rate</b>	9600, 19200, 38400
<b>Software</b>	Complimentary Aqua4Plus or Aqua4Push
<b>Networking</b>	32 available addresses pre junction w/ batching capabilities (up to 255)
<b>File Formats</b>	.xls / .csv / .a4d

### POWER

<b>Power Supply</b>	12VDC (8 AA cells)
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### SENSOR

<b>Measuring Range</b>	0 - 25 ppm
<b>Accuracy</b>	1% of reading or 0.02 ppm — <i>whichever is greater</i>
<b>Sensitivity / Resolution</b>	0.01 ppm below 4.00, 0.1 ppm above 4.0
<b>Stability</b>	0.01 ppm
<b>Repeatability</b>	0.01 ppm
<b>Sensor Drift</b>	Less than 1% per year
<b>Temperature Range</b>	0° to 55° C
<b>Response Time</b>	95% in less than 60 seconds
<b>Output</b>	RS485 Modbus®
<b>Ambient Temperature</b>	-20° to 70° C
<b>Ambient Humidity</b>	0 to 100%
<b>Wetted Materials</b>	Epoxy, polyurethane, and PVC
<b>Maximum Pressure</b>	100 PSI

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