Submersible Dissolved Oxygen Sensor
WITH DATA LOGGING VIA GDL
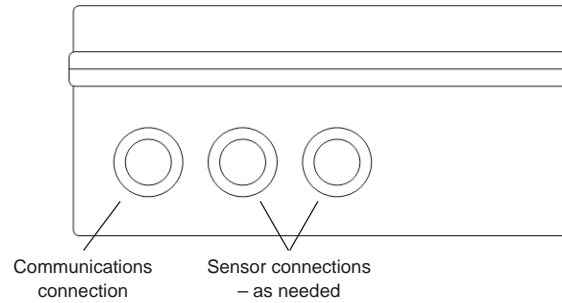
AquiStar™
Data Collection Systems

GDL

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*

INW™

True data, measure by measure

ISO

1-800-PRO-WELL
WWW.INWUSA.COM

Submersible Dissolved Oxygen Sensor with Data Logging via GDL

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Communications connection

Sensor connections – as needed

GENERAL

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

LOGGING

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

POWER

Power Supply	12VDC (8 AA cells)

SENSOR

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

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