

Datalogging Water Quality Sensor

AquiStar® DO2 Dissolved Oxygen Sensor with Datalogging

The DO2 Smart Sensor is the next generation in trouble-free oxygen sensing design.

Utilizing fluorescence of a stable, immobilized ruthenium-based film matrix, the sensor provides precision optical transmission and detection to measure oxygen concentration in the fluid outside of the sensor.

Equipped with integrated datalogger and Aqua4Plus software, this sensor provides convenient, high-quality data to the user.

FEATURES

- **Measures and records dissolved oxygen and temperature internally**
- **Modbus® RTU (RS485)**
- **260,000+ record non-volatile memory**
no data loss in the event of a power failure
- **Wireless connectivity**
radios and/or cellular
- **Programmable warm-up time**
- **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

APPLICATIONS

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



CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.

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SPECIFICATIONS

General

Probe Diameter	1.66" (4.22 cm)
Tube Material	Acetal & 316 stainless steel or titanium
Probe Material	Epoxy, polyurethane, and PVC
Wire Seal Material	Fluoropolymer and PTFE
Submersible Cable	Polyurethane, polyethylene, or ETFE available
Terminating Connector	Available
Communication	RS485 Modbus® RTU
Direct Modbus Read Output	32-bit IEEE floating point
Internal Math	32-bit floating point
Operating Temp. Range	0°C to 55°C
Storage Temp. Range¹	-40°C to 80°C

Logging

Memory	260,000+ records
Log Types	Variable, user-defined, logarithmic, profiled
Programmable Baud Rate	9600, 19200, 38400
Logging Rate	8x/sec maximum
Software	Complimentary Aqua4Plus or Aqua4Push
Networking	32 available addresses per junction w/batching capabilities (up to 255)
File Formats	.xls/.csv/.a4d

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°C to 55°C
Response Time	95% in less than 60 seconds
Maximum Pressure	100 PSI

Power

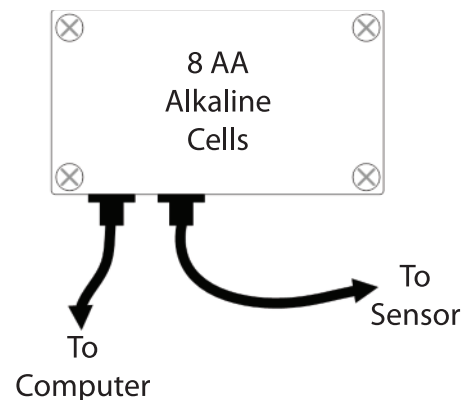
External Power Pack Required 9-15 VDC

INW Power Pack described below.
Other power options available.
Contact Geotech for details.

Information in this document is subject to change without notice.

INW POWER PACK

Enclosure Material	Polycarbonate (1P67)
Enclosure Dimensions	5.5" x 3.1" x 2.6" (14 x 7.9 x 6.6 cm) (excluding connectors)
Power Supply	12 VDC (8 AA cells)
Connectors	1 communication port 1-3 sensor ports



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