

D02 Dissolved Oxygen Sensor

WITH DATALOGGING



APPLICATIONS

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

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*

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. Range ¹	-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 and Aqua4Plus Lite
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

¹ Storage without batteries

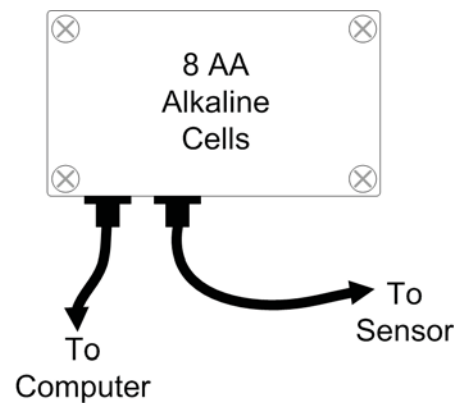
POWER

External Power Pack Required 9-15VDC

INW Power Pack described below.

Other power options available.
Contact INW for details.

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	12VDC (8 AA cells)
Connectors	1 communication port 1-3 sensor ports