

## COMPANY BACKGROUND

ALGI is a small startup instrument company looking to fill a niche currently not served by other scientific instrument manufacturers. We saw a need in the algae bio-fuels community for an inexpensive means to quantify concentrations of H<sub>2</sub> gas in solution and decided to try and develop an instrument that could meet that demand but in a way that was tailored to the algae research community. Unlike similar instrumentation currently available, our instrument has this capability. We feel we have done a good job of reaching our goal, but constantly strive to improve current designs based on feedback from our customers.

# ALGi

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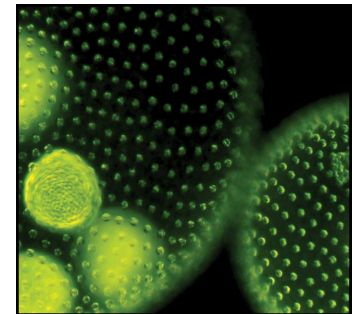
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# ALGi

H<sub>2</sub>/O<sub>2</sub> DISSOLVED  
GAS ANALYZER

DEVELOPING  
TOMORROW'S  
GREEN  
TECHNOLOGY



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# H<sub>2</sub>/O<sub>2</sub> DISSOLVED GAS ANALYZER

## INSTRUMENT OVERVIEW

The model DGA-LPT-1.0 dissolved gas analyzer is a Clark electrode based measurement and data recording system. Its two electrodes allow simultaneous measurement of H<sub>2</sub> & O<sub>2</sub> from a small thermally controlled 1ml sample volume. Each electrode can be set to measure O<sub>2</sub> or H<sub>2</sub> independently or redundantly. Barometric pressure is measured on board and is used in conjunction with user inputted salinity values to accurately calculate DG numbers. Software can be used to create user defined lighting schemes of frequency based flashing or timed intervals of on and off.

**Model: DGA-LPT-1.0**



## INSTRUMENT HARDWARE

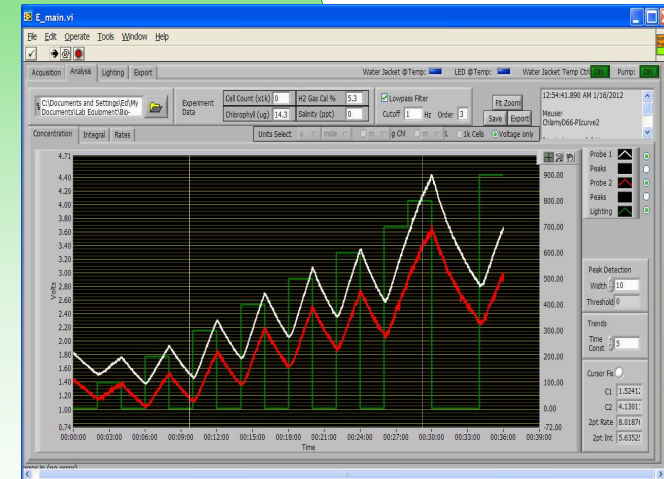
- Removable jacketed thermostatically controlled sample volume.
- Software controlled mini-water recirculator.
- Ultra-thin stir plate for sample homogeneity.
- High power quad-LED with temperature and lighting feedback for day to day lighting stability.
- Power supply with simple one plug connector.
- USB connectivity to host computer.
- Software lighting calibration using customer supplied light meter.
- Data analysis can be set to output data in umol of H<sub>2</sub>/O<sub>2</sub> per ugm of chlorophyll or voltage.
- Two Pt/Ag Clark Electrodes Included.
- Optional external lighting outlet for controlling customer supplied light.

## INSTRUMENT SPECS

- Min Rate of H<sub>2</sub> Detection : 1umol per hour
- Min Rate of O<sub>2</sub> Detection : 1umol per hour
- Max Irradiance Thermal Control: 3000umol
- Light Range: 1umol-Max in 5umol increments
- Sample Volume Temp Range: 15-40C



One computer can be used to control multiple instruments.



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