

GTD-Pro Submersible Sensor

The GTD-Pro™ is the most accurate and stable total dissolved gas sensor on the market. It measures the sum of the partial pressures of all dissolved gases, i.e. gas tension.

In most natural waters N_2 and O_2 are the dominant dissolved gases. When oxygen is measured independently, N_2 can be determined from gas tension. These gases measured together can be used to make substantially improved estimates of net biological production.



Features

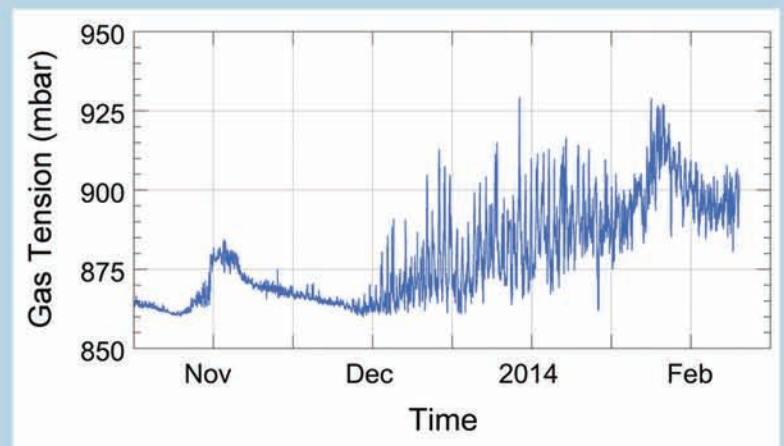
- High accuracy, long-term stability
- Multiple data outputs
- Superior response rate with the hurricane model, HGTD
- Easily integrated into any system
- Patented tubular interface (HGTD provides unique biofouling resistance)

Gas tension measurements are also used to study air-sea gas exchange and upper-ocean physical, chemical and biological processes.

Also available is the HGTD-Pro hurricane model that is lighter, and equilibrates faster than the GTD-Pro™.

Sensor Applications

- Air-sea gas transfer rates
- Net biological production estimates
- Near-surface flux studies
- Correction of other dissolved gas measurements



GTD-Pro™ measurements of total dissolved gas pressure in Saanich Inlet as part of the Venus Ocean Observation Network. Data from the Venus website: venus.uvic.ca

Sensor Specifications

Sensor Performance

Accuracy	0.01 %
Resolution	0.002 mbar
Stability	< 0.02 mbar / yr drift
Range	800-2000 mbar (other ranges available)
Equilibration time (t ₆₃):	
GTD-Pro	3 min
HGTD	1 min

Physical

	<u>GTD-Pro</u>	<u>HGTD</u>
Length	31.4 cm	22.9 cm
Diameter	11.4 cm	8.3 cm
Weight	air: 4 kg	1.6 kg
	water: 3.4 kg	0.6 kg
Housing	Delrin®	
Depth	0-300 m (0-1000 ft)	

Electrical

Input voltage	9-12 VDC
Power consumption	75 mA
Data output	RS-232, ASCII format
Sample rate	1 second (user selectable with datalogger / controller)

Options and Accessories

- Datalogger and controller
Complete with 2 GB flash memory and terminal program for self-contained measurement and logging.
- Optional titanium housing
- External battery pack
- Integration into CTD and other sensor packages

Hurricane model "HGTD"

*Reduced biofouling
and improved
response rate.*



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