GTD-Pro Submersible Sensor

For measurement of total dissolved gas tension.

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 N2 and 02 are the dominant dissolved gases.

When oxygen is measured independently, N2 can be determined from gas tension. These gases measured together can be used to make substantially improved estimates of net biological production.

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

Features

- **High accuracy, long-term stability**
- **Easy integration into any system**
- **HGTD Pro model has superior response rate.**
- **RS-232 or analogue data output formats available**
- **Optional data logger (>1 year of data storage)**
- **Patented tubular interface (HGTD) provides unique biofouling resistance**

Applications

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

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

Accuracy (Range 800 – 2000ppm)	0.01%
Resolution	0.002 mbar
Stability (annual drift)	< 0.02 mbar
Equilibration rate (t63)	
GTD-Pro	3 min
HGTD	1 min

		GTD-Pro	HGTD
Length		314mm	229mm
Diameter		114mm	83mm
Weight (air / water)		4.0 kg / 3.4 kg	1.6 kg / 0.6 kg
Depth (Delrin*)		300m	
Operational Temp		-2 – +30 °C (+40 ° option)	
Input Voltage		9 – 12 Vdc	
Power consumption		75mA	
Data Output	Analog	0 – 5 V or 4 – 20mA	
	Digital	RS-232 ASCII	

Hurricane model **HGTD Pro** for reduced bio-fouling and improved response rate

***Options:**

Data logger and controller, *complete with 2 GB flash memory and terminal program for self-contained measurement and logging, with variable sampling rate (Required for digital output.)*

Optional housing for 4000m depth / Internal batteries / External power / Water pumped Head

Swale Technologies Ltd

6 Greenacres, Monument Park, Chalgrove, Oxfordshire OX44 7RW, UK

Tel: +44 (0)1865 582265 - Sales@swaletechnologies.com - www.swaleocean.co.uk