

PSI GTD-Pro™

The PSI GTD-Pro™ is the most accurate and stable 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. If oxygen is measured independently, N_2 can be determined from gas tension. The two gases together can be used to make substantially improved estimates of net biological production.



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

Ask about the HGTD-Pro™ hurricane model which is smaller, lighter, and equilibrates faster than the GTD-Pro™.

PSI GTD-Pro™ Features

- High precision and accuracy
- User friendly setup and operation
- Low power
- Unique antifouling protection

PRO *Stability in a sea of change.®*
OCEANUS
O

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PSI GTD-Pro™

How stable is the PSI GTD-Pro?™

One PSI GTD-Pro™ was repeatedly deployed over a period of 6 years at depths up to 120 meters, first in the Labrador Sea, then in the Equatorial Pacific and North Pacific. Over that 6 year period, the PSI GTD-Pro™ drifted from calibration by less than 0.001% per year. Not every PSI GTD-Pro™ will be this stable, but all are guaranteed to drift no more than 0.02% per year.

Performance

Accuracy:	< 0.02 mbar / yr drift
Resolution:	0.002 mbar
Equilibration time (T_{63})	3 min
Measurement range	Minimum 800 mbar Maximum 2000 mbar (other maximum limits available)

Physical Dimensions

	GTD-Pro™	HGTD-Pro™
Length	31.4 cm	22.9 cm
Diameter	11.4 cm	8.3 cm
Weight	4 kg in air 3.4 kg in water	1.6 kg in air 0.6 kg in water
Housing	Delrin® (300 m depth)	Delrin® (300 m depth)

Electrical Characteristics

Input voltage	9-12 V DC
Power consumption	75 mA at 12 V

PSI HGTD-Pro™
Option



Optional Features

Pumped Delrin® plenum (flat interface only) reduces the thickness of the water-side diffusion boundary layer and reduces the time constant for equilibration.

Tubular pumped fast interface - alternate fast interface for our standard PSI GTD-Pro™

Hurricane GTD (HGTD) - Smaller format GTD with fast, pumped tubular interface.

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