Solu-Blu™ GEN2 TDG

DATA SHEET



SOLU-BLU™ GEN2 SUBMERSIBLE TDG SENSOR

The Solu-Blu™ GEN2 series of instruments are the next generation of dissolved gas monitoring. With a compact form and updated 6-pin micro series bulkhead connector, Solu-Blu GEN2 are designed to make dissolved gas measurements easier across research, aquaculture, and industrial applications while maintaining long-term reliability.

Unlike other total gas pressure probes, the Solu-Blu™ GEN2 TDG is not affected by increasing hydrostatic pressure. It can be used in a range of liquids ranging from fresh- and salt-water to industrial fluids such as oil and hydraulic fluid. The probe combines an oil-resistant membrane with a compact pressure sensor that provides quality TDG data. The Solu-Blu™ GEN2 TDG probe is designed for long-term deployments with simple, stable, and accurate results.

FEATURES

- Low power
- Compact size
- Easy integration
- Durable
- Many concentration ranges

APPLICATIONS

- Monitoring gas supersaturation levels in bodies of water
- Aquaculture, live fish transport, and RAS
- Monitoring gas pressure in water wells during pumping
- Data correction for ground water and well water samples
- Monitoring TDG in transformer fluids

PRO OCEANUS Dissolved Gas Sensors
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SENSOR SPECIFICATIONS

Sensor Performance

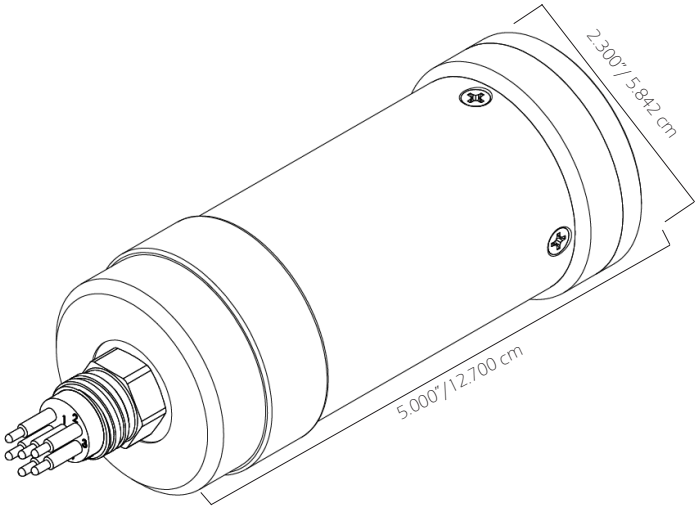
Total Dissolved Gas Measurement Ranges *other ranges available	0-2 bar absolute 0.8-1.2 bar absolute 0-5 bar absolute
Accuracy	±0.1%
Resolution	0.1 mbar
Equilibration rate (t_{63})	Dependent on gas composition

Electrical Parameters

Input voltage	8-24 VDC
Data output options	1. RS-232 CSV ASCII 2. RS-485 CSV ASCII or MODBUS 3. Analog 0-5 VDC 4. Analog 4-20 mA
Sample rate	1 second (variable with logger/controller)

Physical Parameters

Weight (Plastic)	Air: 0.4 kg (0.9 lbs) Water: 0 kg (0 lbs)
Housing	Plastic or Titanium
Depth Rating	Plastic: 0-600 meters Titanium: 0-6000 meters
Water Temperature	-2° to 35° C



Optional Accessories

Power/Communications Box
Allows for direct connection to computer and wall power outlet for plug and play operation

Water-Pumped Interface Head
Reduces biofouling and improves response rate

Pigtail Cables with Locking Sleeves
2, 5, 10, 20, 30, 50 meters or longer

Internal Battery power

Mooring cage or frame with instrument brackets

External Battery Pack

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