

Solu-Blu™ TDG

Features

- High accuracy
- Low power consumption
- Easy integration
- Long-term stability
- Rugged and reliable
- Multiple data output formats available

TDG Sensor Applications

- Monitoring gas super-saturation levels in water
- Monitoring gas pressure in water wells during pumping
- Aquaculture RAS
- Data correction for water samples collected for groundwater and wellwater monitoring
- Monitoring TDG pressure in transformer fluids

Solu-Blu™ Total Dissolved Gas Pressure Probe

The Solu-Blu™ series of instruments combine rugged design, ease of use, and versatility, all in a single sensor package. The measurement of all gases dissolved in a liquid is facilitated by a semi-permeable membrane that allows gases to transfer from water into a gas head space where the measurement is made.

The Solu-Blu™ total dissolved gas (TDG) probe can be used for long-term continuous in-situ monitoring that provides reliable dissolved gas pressure measurements. It provides accurate TDG pressure data and is designed for use in aquaculture, dam spillways, groundwater monitoring, and industrial applications.

Unlike other total gas pressure probes, the Solu-Blu™ 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 or hydraulic fluid.

The Solu-Blu™ TDG probe is designed for long-term deployments with simple, stable and accurate results.



PRO *Stability in a sea of change.*
OCEANUS

Solu-Blu™ TDG

Sensor Specifications

Sensor Performance

TDG Pressure Range	0-2 bar Absolute
*other ranges available	0-150% Saturation

Accuracy:	
TDG	± 0.1%
Temperature	± 0.5° C

Equilibration rate (t₆₃):	Dependent on gas composition
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Resolution pCO₂	0.1 mbar 0.1% Saturation level
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Physical

Length	20 cm (8 in) 26 cm with connector
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Diameter	5.1 cm (2 in)
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Weight	0.28 kg (0.6 lbs)
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Housing Material	Acetal Plastic
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Depth Rating	0 - 50 meters
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Water Temperature	-2° to 40° C
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Electrical

Input voltage	5 - 30 VDC
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Power consumption	0.45 W (35 mA @ 12 V)
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Data output	RS-232, ASCII format 0-5 V or 4-20 mA
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Sample rate	2 seconds
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Standard Product

Includes sensor with 3 meters (10 feet) of cable



Optional Accessories

Power / Communications Box

Allows for direct connection to computer and wall power outlet for plug and play operation

Water-pumped head

Reduce biofouling and improve response rate



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