

Solu-Blu™ TDG

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 to provide 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.



FEATURES

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

PCO₂ SENSOR APPLICATIONS

- Monitoring gas supersaturation 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



Dissolved Gas Sensors

Solu-Blu™ TDG

SENSOR SPECIFICATIONS

Sensor Performance

TDG Measurement Ranges 800-1300 mbar Absolute
*other ranges available 75-150% Saturation

Resolution 0.1 mbar
0.1% Saturation level

Accuracy ± 0.1% (Temperature compensated from 0 to 50° C)

Equilibration rate (t63) Dependent on gas composition

Physical

Length 19.68 cm (7.75 in)
25.68 cm with connector

Diameter 4.76 cm (1.875 in)

Weight 0.47 kg (1.04 lbs)

Housing Acetal Plastic

Depth Rating 0-50 meters

Water Temperature 0° to 35° C

Electrical

Input voltage 7-24 VDC

Power consumption 0.045 W (3.5 mA @ 12 V)

Data output RS-232, ASCII format
0-5 V or 4-20 mA

Sample rate 1 second

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

