Solu-Blu™ CH_4

Features

- Provides continuous 24-7 monitoring
- Compact size
- Easily integrated
- Rugged design
- Plug and play sensor

Applications

- Determining baseline levels of dissolved methane prior to hydrofracturing
- Groundwater and wellwater monitoring
- Wastewater greenhouse gas emissions
- Landfill leachate methane monitoring
- Measurement of dissolved CH_4 in fermentation bioreactors

Solu-Blu™ Dissolved CH_4 Probe

The Solu-Blu™ series of instruments combine rugged design, ease of use and versatility, all in a single sensor package. The measurement of a gas 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™ dissolved CH_4 probe can be used for long-term continuous in-situ monitoring to provide dissolved methane data for applications such as groundwater baseline monitoring and laboratory fermentation studies. The probe provides fully temperature and pressure compensated data. Flow-through and in-line adapters are also available for simple and effective industrial solutions.

The simple yet rugged sensor allows for the monitoring of methane in a range of environments and liquids. The probe is configured for multiple data output formats to allow for rapid integration into most platforms for data transmission and collection with minimal time and effort.

PRO OCEANUS Stability in a sea of change.

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Solu-Blu™ CH_4

Sensor Specifications

Sensor Performance

CH_4 Measurement Ranges	0-30 mg/L 0-3 mg/L 0-300 µg/L 0-10,000 µatm
Total Dissolved Gas Pressure	0-2 bar
Accuracy	
CH_4	± 3% of max range
TDGP	± 0.1%
Temperature	± 0.5° C
Equilibration rate (t63)	~10 minutes
Resolution pCH_4	0.1% of max range

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 Material	Acetal Plastic
Depth Rating	0 - 50 meters
Water Temperature	0° to 35° C

Electrical

Input voltage	7 - 24 VDC
Power consumption	RS232 with 0-5 V: 90 mW (7.5mA @ 12 VDC) RS232 with 4-20 mA: 300-600mW (25-50 mA @ 12VDC) Maximum 60 mA
Data output	RS-232, ASCII format 0-5 V or 4-20 mA
Sample rate	2 seconds

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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