

Solu-Blu™ CH₄

SOLU-BLU™ DISSOLVED CH₄ 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 CH₄ 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.



FEATURES

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

PCO₂ 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 CH₄ in fermentation bioreactors



Dissolved Gas Sensors

Solu-Blu™ CH₄

SENSOR SPECIFICATIONS

Sensor Performance

CH₄ Measurement Ranges	0-30 mg/L
*other ranges available	0-3 mg/L
	0-300 µg/L
	0-10,000 µatm

Total Dissolved Gas Pressure	0-2 bar
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Accuracy

CH ₄	± 3% of max range
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TDGP	± 0.1%
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Temperature	± 0.5° C
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Equilibration rate (t63)	~10 minutes
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Resolution pCO₂	0.1% of max range
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Physical

Length	19.68 cm (7.75 in) 25.68 cm with connector
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Diameter	4.76 cm (1.875 in)
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Weight	0.47 kg (1.04 lbs)
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Housing	Acetal Plastic
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Depth Rating	0 - 50 meters
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Water Temperature	0° to 35° C
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Electrical

Input voltage	7-24 VDC
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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
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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

