Solu-Blu™ CH_4 Submersible pCH_4 Sensor

For partial pressure measurement of dissolved Methane.

Compact and rugged Plug & Play sensor, supplied with 3m cable.

Applications

- **Groundwater and well-water monitoring**
- **Wastewater greenhouse gas emissions**
- **Landfill leachate methane monitoring**
- **Measurement of pCH_4 in fermentation bioreactors**
- **Background levels of pCH_4 prior to hydro-fracking**

The **Solu-Blu**™ series of instruments combine rugged design, ease of use and versatility, all in a single sensor package. Measurement of 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 a fully temperature and pressure compensated. 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 to allow for data transmission and collection with minimal time and effort.

pCH_4 Concentration ranges	
	0-300 µg/L
	0-3 mg/L
	0-30 mg/L
TDGP range	0 – 2 Bar
Accuracy: pCH_4	± 3% FS
TDGP	± 0.1% FS
Equilibration rate (t63)	~10 minutes
Resolution	0.1% of max range

Length	260mm (inc connector)
Diameter	50mm
Weight (air)	0.28kg
Depth	50m
Operational Temp	-2 – +40 °C
Input Voltage	5 – 24 Vdc
Power consumption	0.45W (35mA @12v)
Data Output Analog	0 – 5 V or 4 – 20mA
Digital	RS-232
Sample Rate	2 Sec

Optional Accessories:
Power/Communications Box (for direct connection to computer and power outlet for plug & play operation).
Water-pumped head (reduces biofouling and improve response rate).

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