



# SWALE OCEANOGRAPHIC

## Solu-Blu™ CH<sub>4</sub> Submersible pCH<sub>4</sub> 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<sub>4</sub> in fermentation bioreactors
- Background levels of pCH<sub>4</sub> prior to hydro-fracking

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<sub>4</sub> 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 <sub>4</sub> Concentration ranges		Length	260mm
	0-300 µg/L	Diameter	50mm
	0-3 mg/L	Weight ( air )	0.28kg
	0-30 mg/L	Depth	50m
TDGP range	0 – 2 Bar	Operational Temp	-2 – +40 °C
Accuracy: pCH <sub>4</sub>	± 2% FS	Input Voltage	5 – 30 Vdc
TDGP	± 1% FS	Power consumption	0.45W (35mA @12v)
Equilibration rate (t63)	10 minutes	Data Output	Analog 0 – 5 V or 4 – 20mA
Resolution	0.1% of max range	Digital	RS-232
		Sample Rate	1 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).

## SWALE TECHNOLOGIES Ltd

Unit 51G, Rm48 Whitehill & Bordon Enterprise Park, Budds Lane, Bordon, GU35 0FJ, UK  
Tel: +44 (0)1420 473334 Email: [Sales@swaletechnologies.com](mailto:Sales@swaletechnologies.com) [www.swaleocean.co.uk](http://www.swaleocean.co.uk)