HydroC™

Specification Sheet

Methane is one of the most important gases in our environment. Indeed, in many areas of everyday life, the monitoring of methane is a necessity. CONTROS' HydroC™ is a unique underwater methane sensor solving the global problems of the in-situ measurements of CH_4. Applications include offshore pipeline inspections, exploration of new oil and gas deposits, oceanographic applications and water & waste water treatment tasks.

HydroC™ - Methane and Hydrocarbons Sensor

Detector:	Optical analysing system (patended) NIR 3.4 µm /bandwidth 180 nm for CH_4
Function principle:	Hydrocarbon / methane diffuse out of the liquid through a special silicone membrane (patended) into the detector chamber. The adsorption of light and gas (hydrocarbon molecules) leads to change of intensity which is measured electronically and converted into an output signal.
Membrane:	Standard: 10 µm silicone membrane. Other or anti fouling device on request
Operational depth:	2000 m, 4000m (6000m on request)
Temperature:	0 .. +50 °C, other ranges on request
Measuring range:	100 nmol/l .. 50 µmol/l, other ranges on request
Resolution	10 ppm
Accuracy	±3% reading + 1.5% full scale range (one year max.)
Response time:	typ. 7 seconds
T90-Time range:	typ. 30 seconds
Calibration:	Stored internally. Recalibration recommended every 12 months
Zero adjust:	Auto / smart zeroing, external (RS-232/485) with software or switch button
Power supply:	wide range 9 .. 36 VDC, typ. 300 mA @ 12V (6W)
Output:	Connector SUBCONN® MCBH8MTI 8-pin
	Analogue: 0 .. 5 V, 0 ..10 V, 0 .. 20 mA, 4 .. 20 mA; linear output; voltage range point can be user-configured
	Digital: RS-232C, RS-485, Long-Range-Modem 25 km

Specifications	High grade steel (V4A)	Titanium
Housing diameter:	110 d x 390 l mm	90 d x 380 l mm
Weight in air / water:	13 kg / 8 kg approx.	4.2 kg / 2.0 kg approx.

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