

**CONTROS** SOPHISTICATED UNDERWATER GAS DETECTION

MADE IN GERMANY

# HydroC™

**CH<sub>4</sub>**



## THE „REAL TIME“ LEAK DETECTION SYSTEM

- ✓ Pipeline Inspection
- ✓ Process Monitoring
- ✓ Cost and Maintenance Efficient
- ✓ Offshore Risk Management
- ✓ ROV and AUV suitable

Subsea fieldwork product line

Globally subsea pipelines and production systems are becoming a major concern as authorities become less tolerant to leaks of polluting material into the marine environment. In this respect, the ability to detect and also to locate any leakage of oil or gas to the surrounding water and environment is of utmost importance to safeguard a green and healthy planet.



**CONTROS' HydroC™ is a unique underwater methane sensor solving the global problems of the in-situ and online measurements of CH<sub>4</sub>.**

Applications include Offshore Pipeline Inspections, Exploration of new Oil and Gas Deposits, Process Monitoring and Offshore Risk Management.

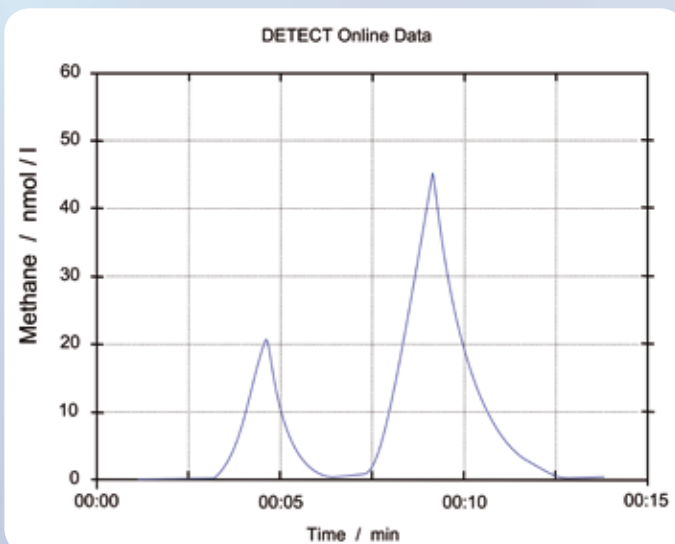
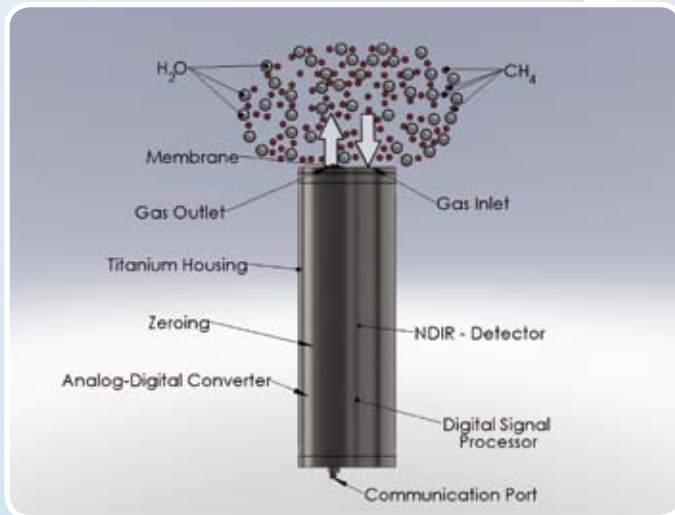
### FUNCTION PRINCIPLE

Hydrocarbon / methane diffuses quickly from the liquid through a patented thinfilm composite membrane into a detector chamber.

The CH<sub>4</sub> concentration is measured reliably by non-dispersive infrared spectrometry (NDIR) within a gas circuit.

### ADVANTAGES

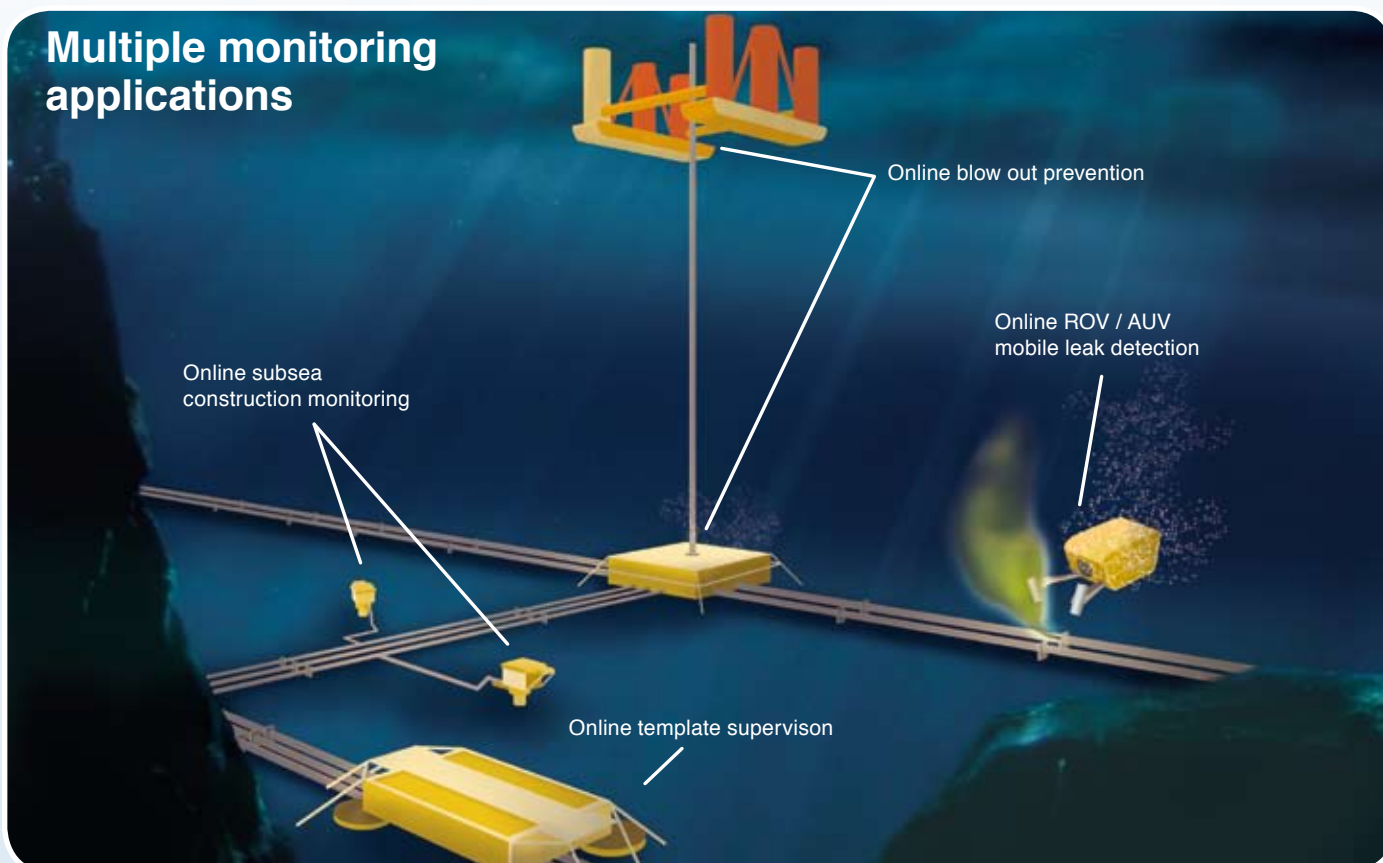
- ✓ The HydroC™ system is unaffected by turbidity or interferences to other gaseous substances in the environment (lowers false alarm rate).
- ✓ The HydroC™ system features an optical technology with a proven track record.
- ✓ The HydroC™ system has a long-term stable signal and a long maintenance interval.
- ✓ The HydroC™ system has a proven ROV and AUV compatibility.



### TECHNICAL OUTLINE

Detection time:	typical 10 s
Operational depths:	up to 6000 m
Maintenance interval:	12 Months
Data outputs:	digital & analogue

## Multiple monitoring applications



## CONTROS' OFFER

CONTROS provides offshore pipeline inspection and long term monitoring solutions. HydroC™ leak detection product line, field experience and advanced data management systems meet demanding regulatory requirements and enhance safety during production from subsea production systems.

## PRODUCTS

- ✓ Sensor Systems
- ✓ Subsea Power Supplies
- ✓ Data Management Systems
- ✓ Subsea Datalogger

## SERVICES

- ✓ Instruction and Training
- ✓ Engineering Services
- ✓ International Project Management
- ✓ Offshore Surveys
- ✓ Global presence and availability





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**CONTROS**

**CONTROS Systems & Solutions GmbH**

Wischhofstrasse 1-3 • Building 2 • D-24148 Kiel

fon: +49 (0)431/260 95-900

fax: +49 (0)431/260 95-901

[www.contros.eu](http://www.contros.eu) • [contact@contros.eu](mailto:contact@contros.eu)