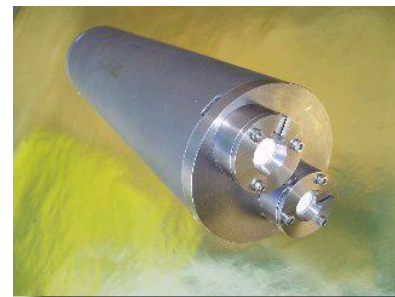




CONTROS

HydroC™ / MEG

Mono Ethylene Glycol (Anti-freeze) in water

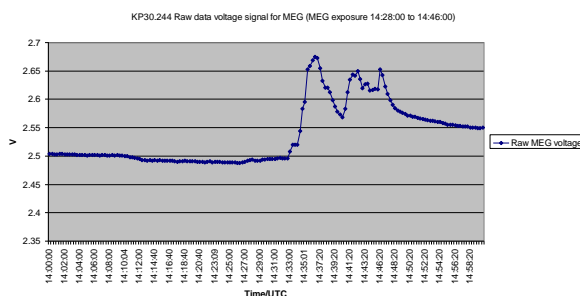


Mono Ethylene Glycol is one of the most important fluids in the modern Oil + Gas industry. Indeed, in many areas of the offshore, the monitoring of MEG has become a necessity. CONTROS' HydroC™ / MEG is a unique underwater leakage sensor solving the global problems of the in-situ measurements of Mono Ethylene Glycol. Applications include offshore pipeline inspections, leakage detection, water & waste water treatment tasks and risk management solutions.

| | |
|-----------------------------|--|
| Function principle | MEG diffuses out of the liquid through a special silicone membrane (patented) into the detector chamber. Inside the chamber MEG gas is measured electronically with an adaptive analysing system (patented) and converts into the output signals. |
| Membrane | Special membrane for shallow water < 100m • Standard membranes up to 2000m • HD membrane up to 6000m • Protection cap included • Anti fouling device on request |
| Operational depth | 2000 m titanium • 4000m titanium deep sea • Special 6000m deep sea extended rating |
| Temperature | Standard +0 to +10 °C • Other ranges on request |
| Measuring range | 0...50% MEG • Other ranges on request |
| Resolution | 0.5 % |
| Accuracy | ±3% reading + 1.5% full scale range |
| Reaction time | Typ. 20 seconds |
| Calibration | Recalibration recommended every 12 months |
| Power supply | Wide range 9 .. 32 VDC • typ. 200 mA @ 12V (3 W) |
| Connector | Connector SUBCONN® MCBH8MTI 8-pin • Other on request |
| Analogue Output | 0 ... 5 V sensor reading |
| Digital Output | RS-232C • Option RS-485 / 3000m • Option Long-Range-Modem / 20 km • Option FSK Power+Data Modem / 12 km • Data format ASCII NMEA-0183 |
| Software | Windows® Software DETECT™ included • User-software is easy to adapt |
| Memory, Datalogger, Options | Internal Datalogger with 2 GB FlashCard Memory • Extreme small and in-expensive Flow-trough system for underway / FerryBox and lab applications • Low-Power Battery powered sensor • Lilon PowerPacks e.g. 41Ah • ROV+AUUV Adaption packages • Profiling+Mooring frames • External Datalogger and Controller |
| Housing | 90 d x 500 mm • Titanium • 7,0 kg / 3,2 kg approx. in air / water |

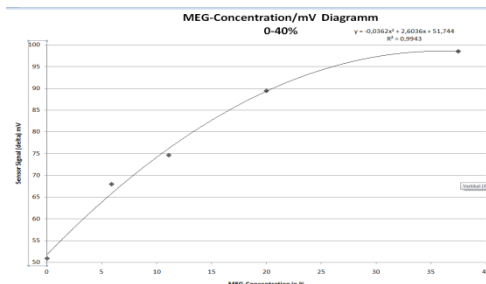


Spider ROV on
ORMEN LANGE
umbilical survey ©
StatoilHydro



MEG leak detection at an umbilical in seawater at 36 PSU, +8°C, 142m detected with a work-class ROV.

Standard Calibration
0-40%



CONTROS Systems & Solutions GmbH
Wischhofstrasse 1-3 · Geb. 6b · D-24148 Kiel · Germany
Web www.contros.eu E-mail: info@contros.eu

Phone: +49 (0) 431-260 95900
Fax +49 (0) 431-260 95901
Mobil: +49 (0) 178 -6176 888