



HydroC™ / MEG

MEG Sensor

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.

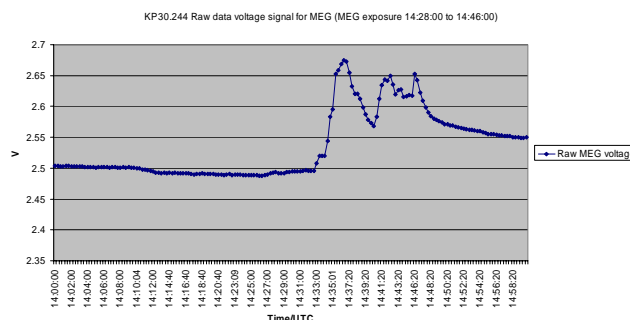


HydroC™ / MEG - Sensor for Mono Ethylene Glycol (Anti-freeze) in water

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 and converts into the output signals. Patent pending.
Membrane	Standard: 10 µm silicone membrane. Other options or anti fouling device on request
Operational depth	2000 m, 4000m, 6000m
Temperature	-5°C... +50 °C, other ranges on request
Measuring range	0...100% MEG, other ranges on request
Resolution	0.1 %
Accuracy	±3% reading + 1.5% full scale range (one year max.)
Response time	typ. 20 seconds, T90 time typ. 45 seconds
Zero adjust	Offset zeroing offline with software
ADC	24 Bit AD Converter with DSP Controller
Power supply	Wide range 10 .. 30 VDC typ. 250 mA @ 12V (max. 3,5 W)
Connector	Connector SUBCONN® MCBH8MTI 8-pin
Analogue Output	0 ... 5 V sensor reading
Digital Output	RS-232C, RS-485, CONTROS Long-Range-Modem up to 25 km
Housing	90 d x 380 mm Titanium, other on request (1.4571, POM)
Weight	3.8 kg / 1.8 kg approx. in air / water
Memory, Datalogger	Option internal SmartDI Datalogger with 2 GB CompactFlash Memory RS-232, RS-495 Output Binary and ASCII / NMEA-0183 Format



Spider ROV on pipeline survey © Statoil/Norsk Hydro



Signal of a Mono Ethylene Glycol umbilical leakage in seawater at 36 PSU, +8°C, 142m detected with a work ROV.



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