Conductivity sensor

Description:

The new 7-pole-cell conductivity sensor with analogue output is aimed at probe systems with built-in multi-channel data acquisition. The principle of measurement used makes it independent from electrical fields and magnetic effects. It's absolutely linear slope within the whole measuring range gives an easy adaptation to existing firmware.

Using comparably large dimensions for the conductivity cell leads to long unattended measuring times, as biological activity at the sensor has only small degrading effects.

The sensor's housing is made of titanium and is pressure resistant up to 500 dbar making it ideally suited for long time monitoring systems even at corrosive environments.

The connection of the sensor to the data acquisition system is done by a multi-core sea cable for power supply and analogue voltage.

Figure: conductivity sensor

Technical specification:

- ❍ rugged construction
- ❍ titanium cell for high quality measurements
- ❍ independent from electrical fields and magnetic effects
- ❍ measuring ranges: 0...1, 0...6 and 0...60 mS/cm
- ❍ for depths of up to 500 m

Dimensions:

diameter of the housing: 39 mm
total length: approx. 270 mm
weight in air: approx. 300 g
housing material: titanium

Electrical:

output: analogue ± 2,5 Volt or
0...2,5 Volt DC (standard)
other outputs on request
power supply: 9-18 V DC
current consumption: 20 mA
Connector: Subconn MC-BH-4M titanium or BH-4M titanium

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