ORP-combined shallow water sensor – OEM version

Platinum and reference electrode in one housing - for depths of up to 1,200 m

The ORP-combined shallow water sensor with integrated electronic device has been developed above all for interfacing with existing CTD probe systems. The sensor consists of a pressure balanced platinum electrode and a reference electrode (Ag/AgCl) in a plastic rod. It is equipped with a ceramic diaphragm containing a high number of pores. The electrolyte is a KCl containing gel without silver ions to allow also measurements in H_2S and sulphide containing samples. The ORP shallow water sensor is equipped with a titanium housing including the electronic device, with a plastics protection cage and a BH 4 M SUBCONN titanium connector. On own risk the protection cage could be screwed off. The sensor has to be calibrated by the customer itself (calibration on request). All electrodes are delivered with wetting cap containing pH 4 buffer/KCl and covering the measuring end.

Main features:

- measuring range:	+/- 2,000 mV
- accuracy:	+/- 1 mV
- resolution:	approx. 1 mV
- pressure range:	up to 1,200 dbar
- dimensions:	length over all: 240 mm
	diameters: max. 37 mm (with protection cage)
- connector:	BH 4 M SUBCONN, titanium, others on request
- output:	0 to 5 V DC (others on request)
- input voltage:	9 to 30 V DC (not included)
- response time:	1 second (63% of reading)

Fig.: ORP shallow water sensor with integrated electronic device for CTD

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