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## 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, OEM version, 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<sub>2</sub>S and sulphide containing samples. The OEM version is equipped with a stainless steel adapter with thread and a 30 cm long cable for self interfacing into the probes housing at the bottom.

The sensor is delivered without electronics and 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:  $\pm 2000$  mV
- ☞ accuracy:  $\pm 1$  mV
- ☞ pressure range: up to 1.200 dbar
- ☞ dimensions: plastics rod diameter: 12 mm,  
length over all (except the cable: 117 mm)
- ☞ thread: G 1/4A, stainless steel
- ☞ response time: 1 second (63% of reading)



**Fig.:**ORP-combined sensor, shallow water version, OEM-version for integration into probe bottoms