Redox / AMT

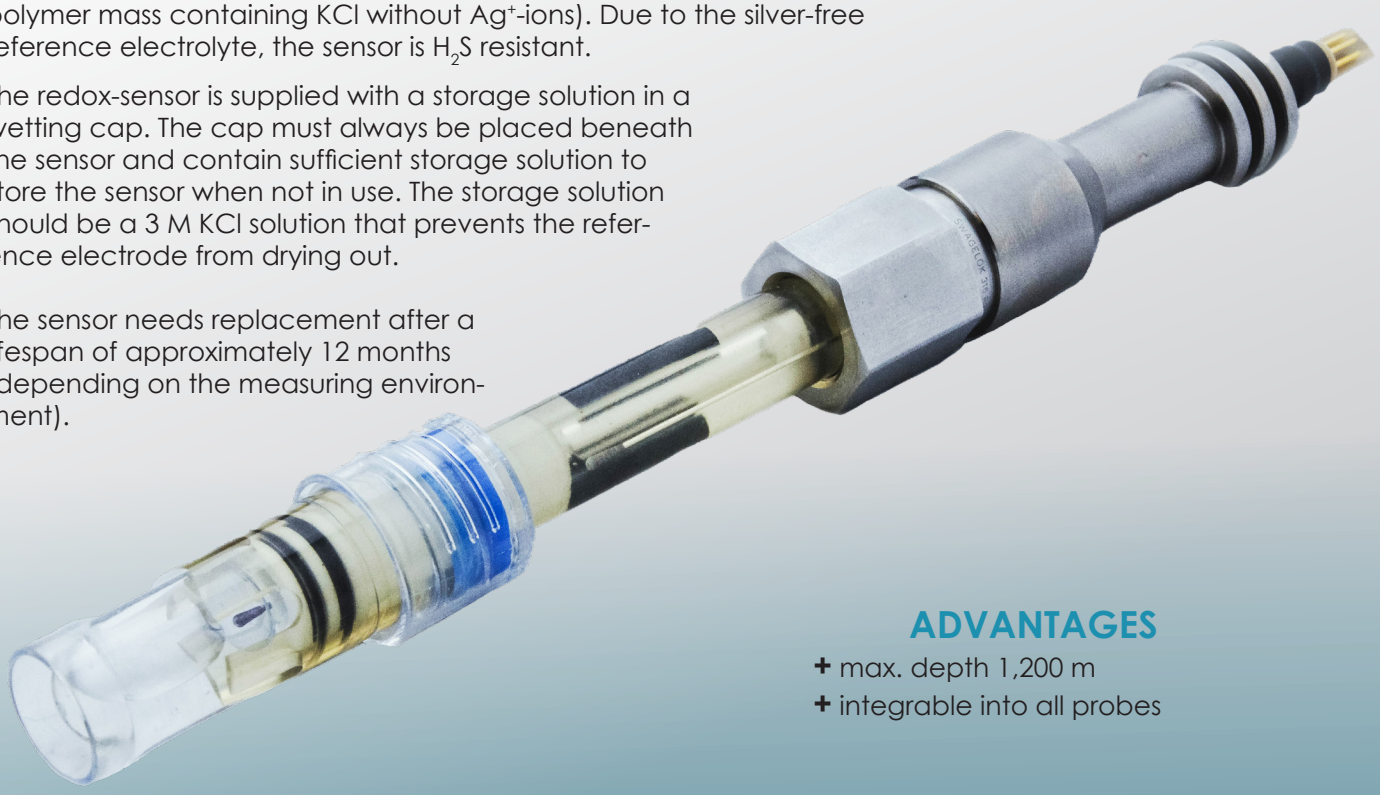
max. depth 1,200 m.

Sea & Sun Technology

The redox (OPR) sensor consists of a pressure-balanced platinum electrode and reference electrode (Ag/AgCl) in a plastic rod. The device is desinged for in-situ measurements up to 1,200 m depth. The sensor is further equipped with a ceramic diaphragm containing a high number of pores and a reference system consisting of a gel (stiff polymer mass containing KCl without Ag^+-ions). Due to the silver-free reference electrolyte, the sensor is H_2S resistant.

The redox-sensor is supplied with a storage solution in a wetting cap. The cap must always be placed beneath the sensor and contain sufficient storage solution to store the sensor when not in use. The storage solution should be a 3 M KCl solution that prevents the reference electrode from drying out.

The sensor needs replacement after a lifespan of approximately 12 months (depending on the measuring environment).



ADVANTAGES

+ max. depth 1,200 m
+ integrable into all probes

Redox / AMT	
Pressure resistance	1,200 dbar
Measuring range	± 2,000 mV
Accuracy	± 1 mV
Resolution	approx. 1 mV
Response time	1 s $t_{63\%}$ of reading
Dimensions	12 mm Ø, 84 mm long, 150 mm with flange
Feature	H_2S resistant
Used for	CTD48, CTD48M, CTD48c, CTD48Mc, CTD75M, CTD90, CTD90M, CTD115M

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