

Redox / AMT

max. depth 6,000 m external sensor.



Sea & Sun
Technology

The combined-redox sensor consists of a reference electrode and a noble metal electrode in one housing. To realize accurate measurements in the deep sea, a double diaphragm for the reference electrode is used to avoid problems with the signal stability during pressure changes. The interface of reference electrode and sample is realized by means of a hole diaphragm. The reference electrode consists of a KCl containing gel with a special built-in second diaphragm. Behind the second diaphragm is the Ag/AgCl-reference system located in a potassium chloride solution. The sensor for the in-situ determination of redox is available as deep sea version (up to 600 bar) without integrated temperature sensor.

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).

ADVANTAGE

+ max. depth 6,000 m

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Pressure resistance	6,000 dbar
Measuring range	$\pm 2,000$ mV
Accuracy	± 2 mV
Resolution	0.1 mV
Dimensions	30 mm \varnothing , 250 mm total length
Feature	H ₂ S resistant
Used for	CTD90M



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