

pH / AMT

max. depth 6,000 m.



Sea & Sun
Technology

The pH-combined sensor consists of a reference electrode and a pH sensitive glass electrode in one housing. To realize accurate measurements in the deep sea, too, a double diaphragm for the reference electrode is used to avoid problems with the signal stability during pressure changes. The interface reference electrode/sample is realized in this case 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 pH-combined sensor for the in-situ determination of pH is available as deep sea version (up to 600 bar) without integrated temperature sensor.

The pH 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

pH / AMT	
Pressure resistance	6,000 dbar
Measuring range	2...11 pH (optional 0...14 pH)
Accuracy	± 0.05 pH
Resolution	0.01 pH
Principle	Single rod electrode
Diaphragm	Open junction
Dimensions	30 mm Ø, 250 mm long
Feature	H ₂ S resistant
Used for	CTD90M



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