pH / AMT

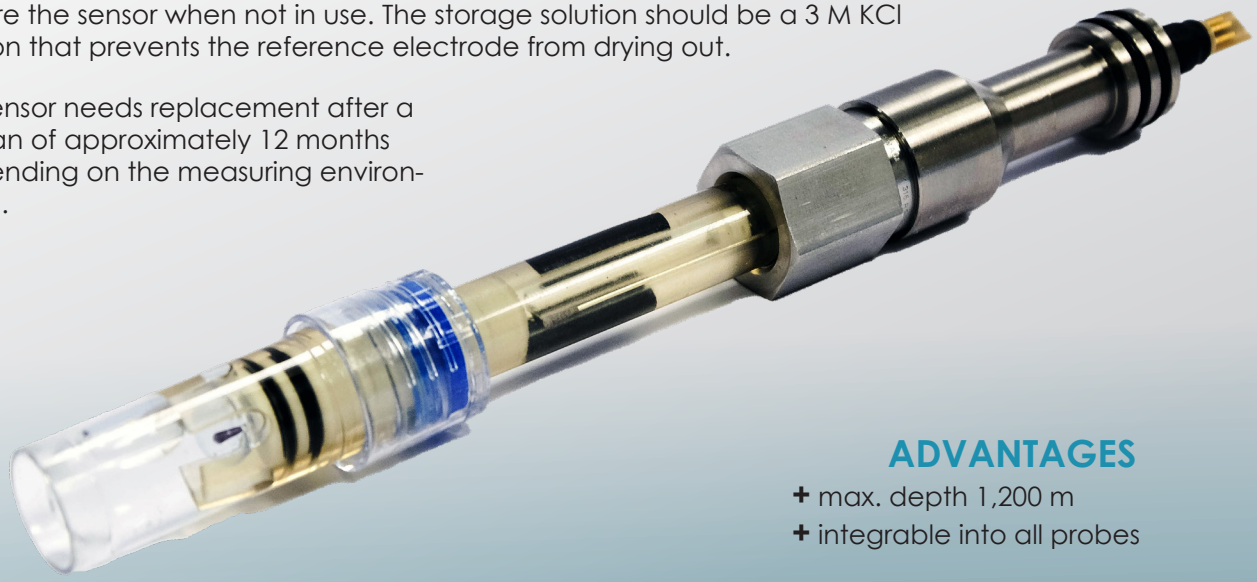
max. depth 1,200 m.

Sea & Sun Technology

The pH sensor uses a pressure-balanced glass electrode with a built-in reference to provide in-situ measurements up to 1,200 m depth. The sensor is equipped with a reference system consisting of a gel (stiff polymer mass containing KCl without Ag^+-ions) and a ceramic pore diaphragm. Due to the silver-free reference electrolyte, the sensor is H_2S resistant.

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).



ADVANTAGES

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

pH / AMT	
Pressure resistance	1,200 dbar
Temperature range	0…60 °C
Measuring range	0...14 pH
Accuracy	± 0.02 pH
Respone time	1 s $t_{63\%}$ of reading
Principle	Single rod electrode
Diaphragm	Open junction
Dimensions	12 mm Ø, 117 mm long
Feature	H_2S resistant
Used for	CTD48, CTD48c, CTD48M, CTD48Mc, CTD75M, CTD90, CTD90M, CTD115M

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