pH sensor | Mettler Toledo

max. depth 160 m.

Sea & Sun Technology

The pH-sensor (HA405-DXK) is a pressure-resistant, low-maintenance pH-electrode for a variety of applications. The sensor consists of a solid polymer electrolyte (no refilling and pressurising of electrolyte) that is in direct contact with the surrounding water via an open junction. The open junction reduces clogging in contaminated media. The electrode allows reliable process control in e.g. suspensions or sulfide-bearing water. The sensor has a standard S7/S8 head and is screwed into a flange with a fitting socket. A coaxial contact makes the electrical connection to the flange.

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

+ integrable into all probes
+ applicable in fresh water
+ easy exchangeable S7/S8 connection

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Pressure resistance	160 dbar
Temperature range	0...110°C
Measuring range	2...14 pH
Accuracy	± 0.02 pH
Response time	1 s
Principle	Single rod electrode
Diaphragm	Open junction
Dimensions	12 mm Ø, 167 mm long with flange
Material	Glass, polymer electrolyte
Electrical connector	S7/S8
Used for	CTD48, CTD48c, CTD48M, CTD48Mc, CTD75M, CTD90, CTD90M, CTD115M

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