

OceanLine™ pH Sensor

for marine autonomous applications



The pH sensor-system is a high quality, high accuracy probe for oceanographic, limnologic, industrial and off-shore measurement of the pH of any water. With a special designed Gel-electrode for SubCtech applications and requirements, this sensor provides best accuracy and long-time stability for water quality monitoring applications.

Together with the flow-through process assembly, this sensor is ideal for ship measurements or aquaculture systems. This probe has proved particularly in long-term measurements with little maintenance facilities. Calibration is easy and performed in 5 minutes.

With the SubCtech data logger the pH Sensor can be included in a complete measuring network for monitoring and controlling. Special adapted for ROV / AUV inspection sensor packs.

Specification	
Type	Ag/Ag Cl Gel electrode
Range	0..14pH, depends on the calibration
Accuracy	< 0.1 pH
Resolution	±0.002 pH (Electrode system), 0.01 over-all performance
System pressure	Max. 6 Bar (note: the max. system pressure of the OceanPack will be 3 Bar).
Temperature compensation	PT1000 DIN IEC 751 integrated → automatically compensation
Calibration	Build-in direct 2-point calibration → calibrate direct in your application
Display	Online data for pH, Temperature
Dimensions:	Glass electrode: Ø12mm, length 120mm, PG13,5
Interface	RS-232 or USB, binary format; 2 x Analogue 4..20 mA / 0...5V
Power	24V, 60mA (15-30V e.g. provided by the OceanPack)
Connector	Industrial connector, IP68
Housing	Electrode: POM flow-through armature, IP68 6 Bar, PG13,5 Amplifier: DIN EN 50022-35, IP40 (e.g. build into the OceanPack Datalogger)
Fittings	Quick-connectors for water tubes ½" or DN15
Accessories	Flow-through (underway) OceanPack systems, Battery packs, Datalogger etc.
	<p>Optimized for vessel operations with flow-through systems and long-time deployments with less maintenance access. Cleaning and calibration in 10 minutes only.</p>  

