

# SUBSEA PH METER

The Oceaneering pH probe is a self contained and self-powered tool designed to read the pH in water depths up to 10,000 fsw. The self-contained/powering feature allows the use of this tool by a wide range of Remotely Operated Vehicles (ROVs).

This pH reading is displayed by an Intelligent Display that can be toggled between awake mode (reading mode) or sleep mode (battery saving mode) by the ROV's light flashes. The Intelligent Display also allows the control of the pH measurement update time, automatic sleep mode, among other features.

One direct application for the pH measurement tool is to detect the presence of cement coming out from the wellhead during the cement injection process during the well completion. The presence of cement alters the pH of the water in the well surroundings. By accurately detecting the presence of cement coming out, the operator can stop the injection process, saving time and material.



## Technical Data / Specifications

### *Dimensions (Overall)*

Length	37.5 in
Diameter	6-1/2 in
Materials	Stainless Steel 17-4 PH Lexan

### *Performance Data*

PH Range	1 to 14 +/-
Battery Life (Awake Mode)	72 hours (max)
Display Time	Programmable
Sampling rate	Programmable

