



IDRONAUT OCEAN SEVEN 306

pH AND REDOX PROBE

The OCEAN SEVEN 306 pH and redox probe is provided with analogue output 0..5V and allows the *in situ* determination of pH and redox (ORP - oxidation reduction potential) in natural waters as oceans, lakes, rivers and estuaries, at depths down to 600 bar. The OCEAN SEVEN 306 pH and redox combined probe, is specifically designed to simplify the integration into CTD probe.

Specifications

Measuring principle:	potentiometric
pH sensor:	glass membrane
Redox sensor:	platinum electrode
Reference sensor:	Ag/AgCl double bridge
Measuring range:	
pH	3..11 pH (*)
Redox	+/- 1000 mV
Accuracy:	
pH	0.03 pH
Redox	+/- 10mV
Resolution:	
pH	0.01 pH
Redox	+/- 2mV
Time constant:	$t_{63\%} < 3 \text{ s}$
Temperature range:	-2.. +38°C
Output:	
pH:	0..5 VDC
Redox:	0..5 VDC (**)
Power supply:	12VDC (11..15 VDC)
Power consumption:	30 mA@12 VDC
Mechanics:	
Probe housing:	AISI 316L
Sensor body:	titanium
Probe diameter:	48.5 mm
Probe Length:	325 mm (including bulkhead connector)

- (*) The pH electronic range is user customizable to: 0..14 pH, 2..12 or 3..11(default).
- (**) An offset of +2500mV shifts the redox sensor output. Therefore, the redox sensor output is +1500 mV to +3500 mV.



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