



High accuracy in-situ phosphate measurement

- Product type
 Unattended
- Parameters measured Phosphate
- Product highlights
 5-month reagent life, 2.3- \(\]gP/L detection limit, click-in reagent cartridges, on-board NIST standard, >1500 samples/service, factory-calibrated
- Interface SDI-12

Sea-Bird Scientific's HydroCycle-PO4 is a wet chemical sensor engineered for environmental monitoring. Advanced fluidics enable the sensor to stabilize rapidly and give accurate results once deployed without excessive priming. Real-time QC flags and post-processing enable fast, valid, scientifically defensible results that lead to better management recommendations.

Mechanical		
Height (w/handle)	56 cm	
Width	18 cm	
Weight in air	6.8 kg (w/ reagents)	
Weight in water	0.37 kg	
Depth	200 m	
Temperature *1	0 35 °C	







Technical Data





Electrical		
Input	10.5 18 VDC	
Current draw	3.0 A max; 115 mA avg	
Data output	RS-232 / SDI-12	
Host Connector	MCBH-6-MP	
SDI Connector	MCBH-8-MP	
Sample rate	2 per hour	
Data memory	1 GB	

Optical	
LED wavelength	870 nm
Pathlength	5 cm
Linearity	equal or greater than 95% R2

Analytical	
Detection limit, three standard	equal to or less than 0.0023 mg/L PO4-P
deviations of 18 MOhm water	
Quantification limit, ten standard	equal to or less than 0.0077 mg/L PO4-P
deviations of 18 MOhm water	
Standard deviation of standard	equal to or less than 0.0015 mg/L PO4-P
solution of 2.6 μM	
Range, nominal *2	0-0.3 mg/L PO4-P
Note:	*1 Both storage and operating temperature for sensor and
	reagent cartridges.
	*2 Higher range is possible (0 40 μM, 0 1.2 mg/L PO4-P) but
	is outside specifications
	mg/L PO4-P refers to mg of atoms phosphorus per liter measured
	in the form of reactive phosphate.
	ppm ~ mg/L, ppb ~µg/L
	Specifications are subject to change without notice.



