



## Hochgenaue in-situ Phosphatmessung PO4

- **Produktart**  
Fest installiert
- **Messparameter**  
Phosphat
- **Produkt Highlights**  
Standzeit Reagenzien 5 Monate, Nachweisgrenze 2.3-  $\mu\text{gP/L}$  , klick-in Reagenzien-Partone, NIST standard, >1500 Proben / Service, werkskalibriert
- **Schnittstellen**  
SDI-12

Die Messmethode des HydroCycle P Sensors basiert auf US-amerikanischen EPA-Standardmethoden. Um Messungen von hoher Genauigkeit zu realisieren, werden nasschemische Fluide und modernste optische Messverfahren vereint. Da im HydroCycle PO4 Kartuschen mit bereits gemischten Reagenzien und Kalibrierlösungen integriert sind, ist er ideal für den Einsatz an unbemannten Messstellen geeignet.

Mechanical	
Height (w/handle)	56 cm
Width	18 cm
Weight in air	6.8 kg (w/ reagents)
Weight in water	0.37 kg

# Technische Daten

Sea-Bird Scientific HydroCycle-PO4 - in-situ Phosphate Analysator



Depth	200 m
Temperature *1	0 ... 35 °C

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