



Phosphax sc Phosphate Analyzer, Outdoor, 1.0-50 mg/L PO₄ - P, Two Channel Continuous Sample, 115-230V

Product #:

6159900

ZAR Price:

Contact Hach

Ships within 2 weeks



Items with this mark may be considered hazardous under some shipping conditions.

If necessary, we will change your selected shipping method to accomodate these items.

The Phosphax sc Analyzer is ideal for precise phosphate measurement in rugged outdoor environments. Perfect for a wide range of wastewater and drinking water applications, it features a broad measurement range, minimal maintenance, and predictive diagnostics for optimal performance.

The Phosphax sc Phosphate Analyzer is designed for phosphate measurement and phosphate analysis in environmentally controlled, rugged outdoor installations, with the ability to measure phosphate across a wide range of wastewater applications, from 1.0-50 mg/L. It offers a broad measurement range suitable for various wastewater and drinking water applications, featuring a self-cleaning membrane that requires minimal maintenance.

Phosphax sc must be used with a Hach controller and is compatible with Hach SC4500 or SC1000.

Prognosys, a predictive diagnostic system, allows you to proactively manage maintenance by alerting you to upcoming instrument issues. This ensures you can confidently determine whether changes in your measurements are due to the instrument or the water.

Multiple measurement ranges for a variety of wastewater applications

With detection limits as low as 0.05 mg/L and as high as 50 mg/L, the Phosphax sc phosphate analyzer can be used anywhere in the wastewater treatment process, from the influent or start of the phosphorous removal process where phosphate levels may be high to the effluent where phosphate levels are at their lowest.

Low cost of operation with proven yellow method

The Phosphax sc analyzer determines ortho-phosphate concentration using the molybdovanadate yellow colorimetric method which optimizes reagent consumption and helps save on operating costs.

Generate actionable insights from measurement data

The Phosphax sc is Smart Monitoring enabled so you can leverage Hach to collect, manage and analyse data from your instrument.

Easy installation at the measurement point

Hach's Phosphax sc phosphate analyzer is designed to be installed at the measurement point (indoor and outdoor options). The housing is weatherproof and lockable for installation at the basin, even in the toughest climates. Mounting options include: wall, rail, or standing. The unit comes complete and assembled; no separate housing is required.

Low maintenance

Several features make the Phosphax sc phosphate analyzer easy to use and maintain:

1. Automatic cleaning at customized intervals.
2. Automatic zero-calibration at each measuring cycle.
3. Prognosys Predictive Diagnostics alerts you to upcoming instrument issues and guides you on whether the changes in your measurements are due to your instrument or your water.

4. Easy access to reagents and wear parts.

Specifications

Accuracy:	Using standard solutions: $2\% \pm 1.0 \text{ mg/L}$
Cable Length:	2 m fixed power cable at analyzer
Channels:	2
Data Transfer:	Current output, relays and bus communication via SC controller
Dimensions (H x W x D):	720 mm x 540 mm x 390 mm
Enclosure rating:	IP55
Filtersystem included:	No, use e.g. Filtrax
Flow:	1 - 20 L/h Sample (free of suspended solids)
Fuse Protection:	Via SC1000 controller or power box. Maximum of 2 analysers per SC1000 or power box
Housing Type:	Outdoor
Indoor/Outdoor:	Outdoor
Lower Limit of Detection (LOD):	1.0 mg/L $\text{PO}_4\text{-P}$
Material:	ASA/PC UV-resistant
Measurement method:	Photometric method using vanadate-molybdate
Measuring Interval:	5 - 120 min, adjustable per 5 min.
Measuring Principle:	Phosphate ions react with vanadate-molybdate reagent to form a yellow dye.
Measuring range:	1.0 - 50 mg/L $\text{PO}_4\text{-P}$
Number of Channels:	2
Operating temperature range:	-20 - 45 °C
Outputs:	Current output, relays and bus communication via SC controller
Parameter:	ortho-Phosphate
Permissible Chloride range:	Max. Cl^- concentration: 1000 mg/L
pH Range:	5 - 9 pH
Power requirements (Hz):	50 Hz
Power requirements (Voltage):	115 - 230 VAC, powered by Power Box or SC Controller
Power supply:	115-230 VAC
Pressure Range:	-30 - 50 mbar with continuous sample preparation; at overflow vessel
Reagent Consumption:	1000 mL/month
Reproducibility:	2 % + 1.0 mg/L
Response Time:	< 5 min
Sample Delivery Hose Options:	Outdoor
Sample Level:	Level of liquid in basin with filtration probe must be below analyzer
Sample Quality:	Ultra filtrated or comparable
Sample Temperature:	4 - 40 °C (39 - 104 °F)
Sampling Option:	2 channel continuous sample from filtration unit, e.g. Filtrax
Storage conditions:	-20 - 60 °C (-4 - 140 °F), 95% relative humidity, non-condensing
Warranty:	12 months
Weight:	Without sample preparation system and without chemicals: 31 kg

What's included?:	1 - 50 mg/L PO4-P, 115-230 VAC Phosphax sc Ortho-Phosphate Analyzer for two channel continuous sample, 3 month supply of all necessary consumables at 5 minute cycle time, user manuals
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Required Accessories

- SC1000 Display Module, Multi-Parameter Universal Controller (Item LXV402.99.00002)
- SC1000 Probe Module, 6 Sensor Connectors, Prognosys, Modbus 485, 100-240 VAC with Conduits (Item LXV400.99.1H082)
- SC1000 Probe Module, 8 Sensor Connectors, Prognosys, 100-240 VAC with Conduits (Item LXV400.99.1G092)
- SC1500 Controller, 6 Sensor Connectors, 8x mA Out, 110V/Cond Ext MOD (Item LXV446.99.103N1)
- SC1500 Controller, 6 Sensor Connectors, 8x mA Out, 110V/Cond 4 Relay/C Ext MOD (Item LXV446.99.1R3S1)