

# Phosphax sc Online Phosphate Analyzer

## Applications

- Wastewater
- Drinking Water



## The Phosphax sc online analyzer provides reliable and accurate PO<sub>4</sub> measurements

### 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 phosphorus 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 Claros enabled so you can leverage the Hach Water Intelligence System 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. Prognosis 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.

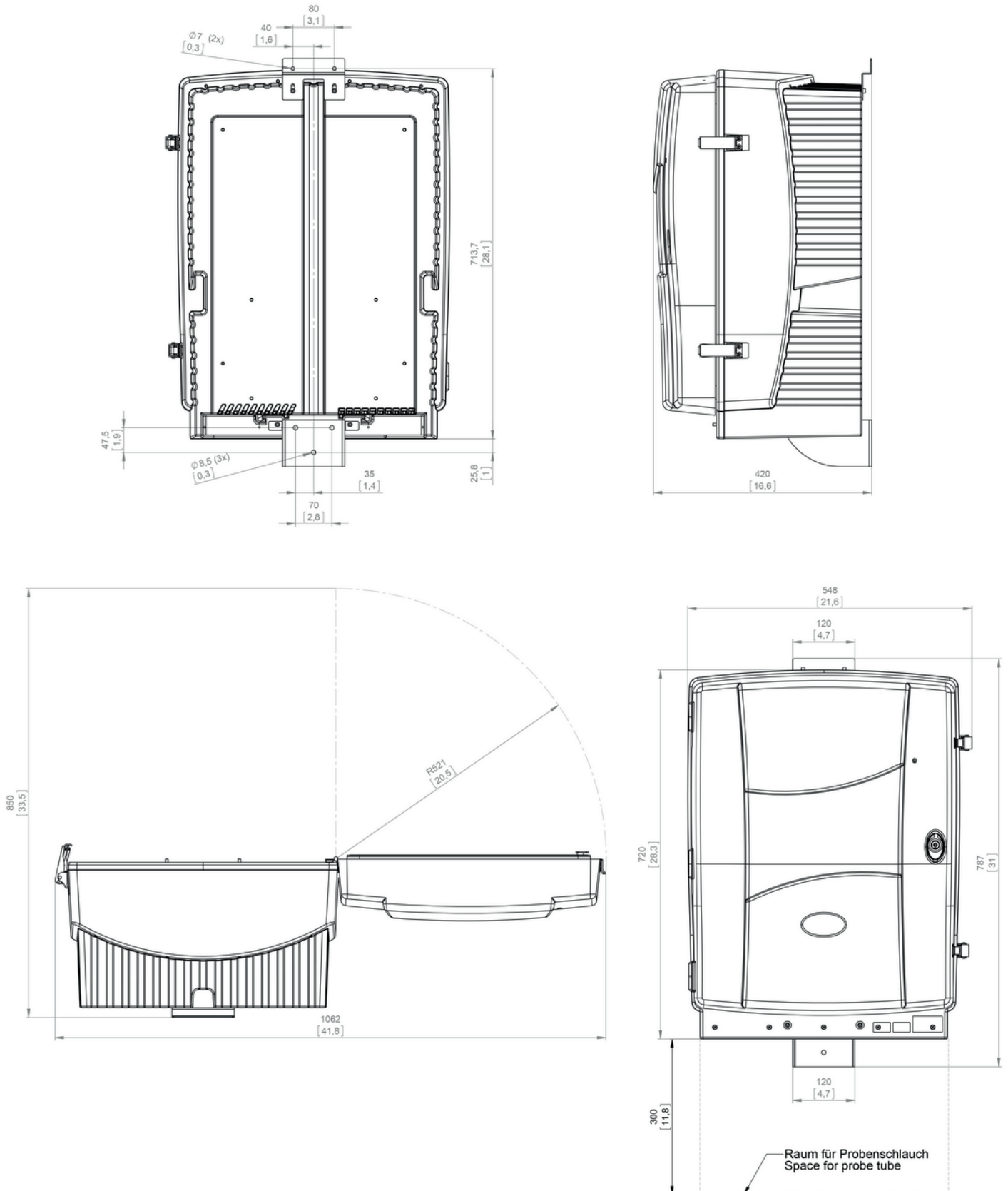
## Technical Data\*

	Low Range	High Range
<b>Range</b>	0.05 - 15.0 mg/L PO <sub>4</sub> -P	1 - 50 mg/L PO <sub>4</sub> -P
<b>Lower Limit of Detection (LOD)</b>	0.05 mg/L PO <sub>4</sub> -P	1.0 mg/L PO <sub>4</sub> -P
<b>Accuracy</b>	Using standard solutions: 2% ± 0.05 mg/L	Using standard solutions: 2% ± 1.0 mg/L
<b>Reproducibility</b>	2% + 0.05 mg/L	2% + 1.0 mg/L
<b>Reagent Consumption</b>	500 mL/month	1000 mL/month
<b>Response Time</b>	< 5 minutes	
<b>Measurement Method</b>	Photometric method using vanadate-molybdate	
<b>Measuring Interval</b>	5 - 120 min, adjustable per 5 min.	
<b>pH Range</b>	5 - 9 pH	
<b>Pressure Range</b>	-30 - 50 mbar with continuous sample preparation; at overflow vessel	
<b>Permissible Chloride Range</b>	Max. Cl <sup>-</sup> concentration: 1000 mg/L	
<b>Operating Conditions</b>	Indoor model: 5 - 40 °C; 95% relative humidity, non-condensing Outdoor model: -20 - 45 °C; 95% relative humidity, non-condensing	
<b>Sample Temperature</b>	4 - 40 °C	
<b>Sample Quality</b>	Ultra filtrated or comparable	
<b>Flow</b>	1 - 20 L/h sample (free of suspended solids)	
<b>Power Requirements (Voltage)</b>	115 - 230 VAC, 50/60 Hz, power provided by SC controller or power box	
<b>Dimensions (H x W x D)</b>	Indoor model: 720 mm x 540 mm x 370 mm Outdoor model: 720 mm x 540 mm x 390 mm	
<b>Cable Length</b>	2 m fixed data cable at analyzer	
<b>Weight</b>	Without sample preparation system and without chemicals: 29 kg (indoor model) or 31 kg (outdoor model)	
<b>Material</b>	ASA/PC UV-resistant	
<b>Enclosure Rating</b>	Indoor model: IP54 Outdoor model: IP55	

\*Subject to change without notice.

## Dimensions

The Phosphax sc phosphate analyzer is designed for wall mounting, outdoor or indoor. Rail- and stand-mounting options are available. The enclosure is rated to IP55 (outdoor model) or IP54 (indoor model), is weatherproof and lockable.



## Order Information

### Analyzers

<b>6159600</b>	Phosphax sc Phosphate analyzer, 0.05-15 mg/L PO <sub>4</sub> -P, one channel continuous sample, 115-230 VAC
<b>6159700</b>	Phosphax sc Phosphate analyzer, 0.05-15 mg/L PO <sub>4</sub> -P, two channel continuous sample, 115-230 VAC
<b>6159800</b>	Phosphax sc Phosphate analyzer, 1-50 mg/L PO <sub>4</sub> -P, one channel continuous sample, 115-230 VAC
<b>6159900</b>	Phosphax sc Phosphate analyzer, 1-50 mg/L PO <sub>4</sub> -P, two channel continuous sample, 115-230 VAC

*There are additional options available (indoor versions), please contact Hach for more information.*

*Please note: An SC controller is required for operation of the Phosphax sc.*

### Mounting Hardware

<b>LZY287</b>	Stand mounting kit for SC analyzer without SC controller
<b>LZY286</b>	Stand mounting kit for SC analyzer with SC controller
<b>LZY316</b>	Rail mounting kit for SC analyzer without SC controller
<b>LZY285</b>	Rail mounting kit for SC analyzer with SC controller

### Reagents

<b>2825253</b>	Reagent for Phosphax sc analyzer (high range and low range), 1000 mL
<b>2825254</b>	Reagent for Phosphax sc analyzer (high range and low range), 2000 mL
<b>2825353</b>	Cleaning solution for Phosphax sc analyzer (high range and low range), 1000 mL

### Accessories

<b>LZY302</b>	Heated drain/connecting hose, 2 m, 230 V
<b>LZY303</b>	Heated drain/connecting hose, 2 m, 115 V
<b>LZY431</b>	Power extension cable for SC1000/SC1500, 5 m, 115-230 VAC
<b>LQV155.99.00002</b>	Power box without power connection cable
<b>LQV155.99.00012</b>	Power box with power connection cable

*To order a digital SC controller or a Filtrax sample preparation system please contact Hach.*



This instrument connects to Claros, Hach's innovative Water Intelligence System. Claros allows you to seamlessly connect and manage instruments, data, and process – anywhere, anytime. The result is greater confidence in your data and improved efficiencies in your operations. To unlock the full potential of Claros, insist on Claros Enabled instruments.



With Hach Service, you have a global partner who understands your needs and cares about delivering timely, high-quality service you can trust. Our Service Team brings unique expertise to help you maximize instrument uptime, ensure data integrity, maintain operational stability, and reduce compliance risk.

DOC053.53.35310.Sep20

### Hach World Headquarters: Loveland, Colorado USA

United States: 800-227-4224 tel 970-669-2932 fax [orders@hach.com](mailto:orders@hach.com)  
 Outside United States: 970-669-3050 tel 970-461-3939 fax [int@hach.com](mailto:int@hach.com)  
[hach.com](http://hach.com)

Printed in U.S.A.

©Hach Company, 2020. All rights reserved.

*In the interest of improving and updating its equipment, Hach Company reserves the right to alter specifications to equipment at any time.*



Be Right™