

# Phosphate

## Precipitation Dosing and Outlet Monitoring



Phosphorus compounds - in particular orthophosphate  $\text{PO}_4^{3-}$  - are considered to be the limiting nutrients in most stagnant and flowing waters. An increase in their concentration caused by higher input (wastewater, soil erosion etc.) results directly in increasing eutrophication of the water with known effects such as increased growth of algae, oxygen depletion and even anoxia in the deeper regions, etc.. Hence, the elimination of phosphorus on wastewater treatment plants is very important.

### Fields of application:

- Municipal wastewater (wwtp)
  - Precipitation control
  - Effluent monitoring
- Surface water

see also <https://www.xylymanalytics.com/en/parameters/phosphate>



# Analyzer

The wet chemical analyzer **Alyza IQ PO<sub>4</sub>** provides precise results due to its revolutionary MultiPort Valve. Further on, the instrument requires extremely low amounts of liquids.

Precipitation control and outlet monitoring with the orthophosphate measurement of the Alyza IQ PO<sub>4</sub> (molybdate vanadate method or yellow method). It is connectable to IQ SENSOR NET Systems 2020 and 282/284 and provides 10 W to the IQ SENSOR NET.



- Minimized reagent consumption and waste
- Extremely low maintenance
- High accuracy at low measuring ranges



## Orthophosphate Analyzer Alyza IQ PO<sub>4</sub>

To be connected to the digital, modular, and expandable IQ SENSOR NET.



Alyza IQ PO<sub>4</sub> one channel version with open measuring unit and visible photometer



Alyza IQ PO<sub>4</sub> two channel version with covered measuring unit

### Alyza IQ PO<sub>4</sub>-111

1-channel version for measuring range 1

### Alyza IQ PO<sub>4</sub>-121

1-channel version for measuring range 2

### Alyza IQ PO<sub>4</sub>-112

2-channel version for measuring range 1

### Alyza IQ PO<sub>4</sub>-122

2-channel version for measuring range 2

## Ordering Information

Model	Description	Order No.
<b>Alyza IQ PO<sub>4</sub>-111</b>	PO <sub>4</sub> analyzer, 1-channel, with MR 1; incl. 2 m SNCIQ cable, reagent sets need to be ordered separately	825511
<b>Alyza IQ PO<sub>4</sub>-112</b>	as above, but 2-channel	825512
<b>Alyza IQ PO<sub>4</sub>-121</b>	PO <sub>4</sub> analyzer, 1-channel, with MR 2; incl. 2 m SNCIQ cable, reagent sets need to be ordered separately	825521
<b>Alyza IQ PO<sub>4</sub>-122</b>	as above, but 2-channel	825522



For technical data please see datasheet D2.25

Reagents and accessories see brochure "Product Details" and website

Information about IQ SENSOR NET system see from page 48

Further analyzer see from page 61