





# Alyza IQ: The Simple choice for PO<sub>4</sub> Analyzers



a xylem brand



## How much reagent does your analyzer use?

## Less Reagents

Minimized reagent consumption and waste

## Simple Service

Regular maintenance takes just 10 minutes every 3 months

### **Better Data**

Reliable results from low to high measuring levels



## Simple Service

100:1

TresCon®

100

90 80 70

БŪ

50

40

20

Built with Service in mind, all service items can be quickly and easily exchanged without calling a service technician or service contracts.

P7001Q

#### Long Life Reagents

Easy and safe reagent replacement with no-drip reagent pouches.

#### Clear Information

Clear measurement menu - even for 2 channel versions and monitoring of reagent life time.



The Alyza IQ PO<sub>4</sub> is fully integrated into the IQ SENSOR NET as a sensor. The new analyzer can be operated in the system 2020 and the System 282/284.

Learn more about IQ SENSOR NET on our website: <u>www.IQ-Sensor.Net</u>



Learn more about Alyza IQ PO4 on our website: www.WTW.com/Alyza-IQ

Alyza IQ



## Orthophosphate measurement

#### Method

Molybdate-Vanadate method (Yellow method)

In the Molybdate Vanadate process, Orthophosphate (dissolved PO4<sup>3-</sup>) is detected. Thereby, a color reagent consisting of Molybdate and Vanadate is added to the sample. Under acid consistions, the PO4<sup>3-</sup> ions are integrated into the generated polyanions. The intensity of the occurring yellow color depends on the concentration of PO4<sup>3-</sup>. Subsequently, the sample is analyzed in the photometer at approx. 420 nm.

#### Fields of application

#### **Precipitation control**

- Automatic cleaning reduces maintenance effort and increases operational safety
- Reduction of precipitant costs without overdosing by reliable and fast measurement
- One instrument for up to two sample streams



## Wastewater treatment plant effluent monitoring

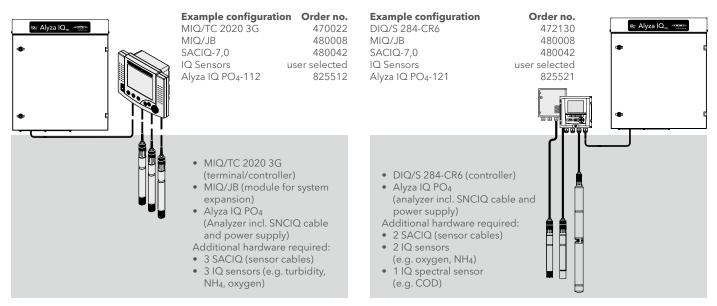
- Precise results via automatic 1- and 2-point calibration
- Easier everyday life due to self diagnostics with display of reagent lifetime
- Requirements for further decreasing effluent values are not a problem due to low measuring range



## Configuration examples Alyza IQ PO4 in IQ SENSOR NET

Example 2 - System 282/284

#### Example 1 - System 2020



Neither example 1 nor example 2 needs a power supply module MIQ/PS, as the Alyza IQ provides 10W to the systems.

#### Technical data

Displayed: Resolution:	0.02 15.00 mg/l PO <sub>4</sub> -P	
	0.00 15.00 mg/l PO <sub>4</sub> -P 0.01 mg/l PO <sub>4</sub> -P	
Displayed: Resolution:		
		TD
		D2 2
	MR2: Displayed: esolution:	Accuracy: ± 2 % ± 0.02 mg/l   MR2: 0.2 50.0 mg/l PO4-P   Displayed: 0.0 50.0 mg/l PO4-P   esolution: 0.05 mg/l PO4-P   Accuracy: ± 2 % ± 0.2 mg/l

#### Order information

Model	Description	Order no.
Alyza IQ PO <sub>4</sub> -111	PO4 analyzer, 1-channel, with MR1, yellow method, connectable to IQ SENSOR NET Systems 2020 and 282/284, provides 10 W to the IQ SENSOR NET; including 2 m SNCIQ cable; reagents need to be ordered separately	825511
Alyza IQ PO <sub>4</sub> -112	PO4 analyzer, 2-channel, with MR1, yellow method, connectable to IQ SENSOR NET Systems 2020 and 282/284, provides 10 W to the IQ SENSOR NET; including 2 m SNCIQ cable; reagents need to be ordered separately	825512
Alyza IQ PO <sub>4</sub> -121	PO4 analyzer, 1-channel, with MR2, yellow method, connectable to IQ SENSOR NET Systems 2020 and 282/284, provides 10 W to the IQ SENSOR NET; including 2 m SNCIQ cable; reagents need to be ordered separately	825521
Alyza IQ PO <sub>4</sub> -122	PO4 analyzer, 2-channel, with MR2, yellow method, connectable to IQ SENSOR NET Systems 2020 and 282/284, provides 10 W to the IQ SENSOR NET; including 2 m SNCIQ cable; reagents need to be ordered separately	825522
Reagent sets		
R-Set PO4/1-1	Reagents for Alyza IQ PO <sub>4</sub> -X1X with MR1	827550
R-Set PO4/1-2	Reagents for Alyza IQ PO <sub>4</sub> -X2X with MR2	827551
SC-Set PO4/1-1_0/1	Calibration standards and cleaning solution for Alyza IQ PO4-X1X with MR1; Calibration standards with 0 mg/l and 1 mg/l	827555
SC-Set PO4/ 1-1_0/10	Calibration standards and cleaning solution for Alyza IQ PO4-X1X with MR1; Calibration standards with 0 mg/l and 10 mg/l	827556
SC-Set PO4/1-2_10/40	Calibration standards and cleaning solution for Alyza IQ PO4-X2X with MR2; Calibration standards with 10 mg/l and 40 mg/l	827557



Xylem Analytics Germany Sales GmbH & Co. KG, WTW · Am Achalaich 11 · D-82362 Weilheim · Germany Phone: +49 881 183-0 · Fax: +49 881 183-420 · E-Mail: Info.WTW@xylem.com · www.xylemanalytics.com



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