

Alyza IQ: The Simple choice for PO₄ Analyzers





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







100:1

** 100

TresCon®

90 80 70

50

40 30

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.

Learn more about IQ SENSOR NET on our website:

www.IQ-Sensor.Net



Learn more about Alyza IQ PO₄ on our website:

www.WTW.com/Alyza-IQ

Alyza IQ



SENSOR NET

Orthophosphate measurement

Method

Molybdate-Vanadate method (Yellow method)

In the Molybdate Vanadate process, Orthophosphate (dissolved PO_4^{3-}) is detected. Thereby, a color reagent consisting of Molybdate and Vanadate is added to the sample. Under acid consitions, the PO_4^{3-} ions are integrated into the generated polyanions. The intensity of the occurring yellow color depends on the concentration of PO_4^{3-} . 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

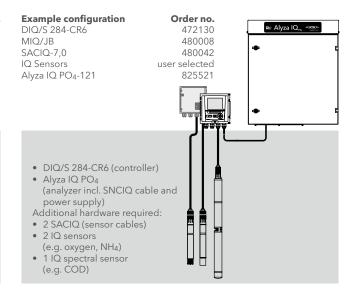


Configuration examples Alyza IQ PO4 in IQ SENSOR NET

Example 1 - System 2020

Example configuration Order no. MIQ/TC 2020 3G 470022 MIQ/JB 480008 SACIQ-7,0 480042 IQ Sensors user selected Alyza IQ PO₄-112 825512 MIQ/TC 2020 3G (terminal/controller) • MIQ/JB (module for system expansion) Alyza IQ PO₄ (Analyzer incl. SNCIQ cable and power supply) Additional hardware required: • 3 SACIQ (sensor cables) • 3 IQ sensors (e.g. turbidity, NH₄, oxygen)

Example 2 - System 282/284



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

Technical data

Model	Alyza IQ PO4	
Measurement method	Molybdate-Vanadate method (Yellow method)	MR1
Measurement range	One measuring range	Displayed Resolution
Sample streams/channels	1- and 2-channel versions available	Accuracy
Cleaning	Automatic cleaning with cleaning solutions	MR2 Displayed Resolution Accuracy
Calibration	Automatic 1- and 2-point calibrations	
Operational temperature	-4 104 °F (-20 +40) °C	

Displayed: Resolution:	0.02 15.00 mg/l PO ₄ -P 0.00 15.00 mg/l PO ₄ -P 0.01 mg/l PO ₄ -P ± 2 % ± 0.02 mg/l	
Displayed: Resolution:	0.2 50.0 mg/l PO ₄ -P 0.0 50.0 mg/l PO ₄ -P 0.05 mg/l PO ₄ -P ± 2 % ± 0.2 mg/l	TI D2

Order information

Model	Description	Order no.
Alyza IQ PO ₄ -111	PO ₄ 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 ₄ -112	PO ₄ 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 ₄ -121	PO ₄ 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 ₄ -122	PO ₄ 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 PO4-X1X with MR1	827550
R-Set PO4/1-2	Reagents for Alyza IQ PO ₄ -X2X with MR2	827551
SC-Set PO4/1-1_0/1	Calibration standards and cleaning solution for Alyza IQ PO $_4$ -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	827557



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