



Alyza IQ: The Simple choice for PO₄ and NH₄ Analyzers



a xylem brand

How much reagent does

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

TresCon®

100:1

:1.0 ml 100

90

80

70

60

50

40

30

20

10

Simple Service

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

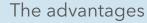


Long Life Reagents

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

your analyzer use?

Alyza IQ



- Measurement of PO4 or NH4
- High accuracy at low measuring ranges
- Extremely low reagent consumption
- Connectable to the IQ SENSOR NET (provides 10 W)
- Installation of PO₄ and NH₄ analyzer directly at the basin
- One- and Two-channel versions available
- Safe and easy replacement of reagents
- Optimized user interface and self diagnostics
- Minimum maintenance and easy handling



Clear Information

25:0,5 ml in 201 150,5 ml 25

P7001Q

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

CONTROLLER	03 July 2	2018	15:22	3		0
501 Alyza IQ NH4 111	11111					
 Settings Mainter 	enance 9	Status	Remainir	ng		►
0	ays (appr	ox.)		_		
Mixing unit:	178					
Reagents:	108	A B C				
Standard solutions:	167	1 2				
Cleaning solution:	3!	E				
Attention: The quote replacement was don				/ corr	ect if	
Select 🚓, exit with E	50					



The Alyza IQ 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: www.IQ-Sensor.Net



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



Ammonium measurement

Method

Indophenol method according to DIN 38 406

As the name suggests, the Indophenol method results in a blue coloration of the sample. The color is generated by the reaction of ammonium ions from the sample with hypochlorite ions and carbolic acid or a carbolic acid derivative under alkaline conditions (pH approx. 12.6). For acceleration of the reaction, a catalyst is used. The reaction can be sped up further by increasing the temperature of the reaction solution. The colored sample then is analyzed photometrically in the red spectral range. The higher the ammonium concentration, the more intense the blue coloration.

Fields of application

Wastewater treatment plant effluent monitoring

- High measuring accuracies even at low concentrations
- Easy handling due to optimized user interface
- Increased employee protection by safe exchange of reagents



River monitoring

- Long lifetime of reagents due to minimum consumption
- Minimal maintenance effort reduces work and travel times
- Full remote access via IQ WEB CONNECT, at any time



Orthophosphate measurement

Method

Molybdate-Vanadate method (Yellow method)

In the Molybdate Vanadate process, Orthophosphate (dissolved $PO4^{3-}$) is detected. Thereby, a color reagent consisting of Molybdate and Vanadate is added to the sample. Under acid consistions, the $PO4^{3-}$ ions are integrated into the generated polyanions. The intensity of the occurring yellow color depends on the concentration of $PO4^{3-}$. 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 in IQ SENSOR NET

Example 1 - System 2020 Example 2 - System 282/284 **Example configuration** Order no. **Example configuration** Order no. MIQ/TC 2020 3G 470022 DIQ/S 284-CR6 472130 MIQ/JB 480008 MIO/JB 480008 SACIQ-7,0 480042 SACIQ-7,0 480042 IQ Sensors IQ Sensors user selected user selected 🗠 Alyza IQ, 🗤 🕬 🛯 Alyza IQ_{PO,} . MIQ/TC 2020 3G (terminal/ • controller) 000 000 MIQ/JB (module for system DIQ/S 284-CR6 (controller) • expansion) Alyza IQ PO₄ (analyzer incl. Alyza IQ NH4 (Analyzer incl. SNCIQ SNCIQ cable and power supply) • Additional hardware required: cable and power supply) Additional hardware required: 2 SACIQ (sensor cables) 3 SACIQ (sensor cables) 2 IQ sensors (e.g. oxygen, NH₄) • 3 IQ sensors (e.g. turbidity, pH, oxygen) 1 IQ spectral sensor (e.g. COD)

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 NH4	Alyza IQ PO4		
Measurement method	ł	Berthelot method (Indophenol method)	Moybdate-Vanadate method (Yellow method)		
Measurement		Two measuring ranges	One measuring range		
range	MR1: Displayed: Resolution: Accuracy:	0.00 4.00 mg/l NH ₄ -N	0.02 15.00 mg/l PO4-P 0.00 15.00 mg/l PO4-P 0.01 mg/l PO4-P ± 2 % ± 0.02 mg/l		
-	MR2: Displayed: Resolution: Accuracy:	0.00 20.00 mg/l NH4-N 0.05 mg/l NH4-N	0.2 50.0 mg/l PO4-P 0.0 50.0 mg/l PO4-P 0.05 mg/l PO4-P ± 2 % ± 0.2 mg/l		
Sample streams/chan	nels	1- and 2-channel versions available			
Cleaning		Automatic cleaning with cleaning solutions			
Calibration		Automatic 1- and 2-point calibrations			
Operational temperat	ure	-4 104 °F (-20 +40) °C			

For further technical data please see datasheets D2.24 and D2.25

Order information

Order information								
Model	Description	Order no.						
Alyza IQ for Ammonium measurement								
Alyza IQ NH4-111	NH4 analyzer, 1-channel, with 2 measuring ranges, Indophenol method, connectable to IQ SENSOR NET Systems 2020 and 282/284, provides 10 W to the IQ SENSOR NET; including 2m SNCIQ cable; reagnet sets need to be ordered separately	825011						
Alyza IQ NH4-112	NH4 analyzer, 2-channel, with 2 measuring ranges, Indophenol method, connectable to IQ SENSOR NET Systems 2020 and 282/284, provides 10 W to the IQ SENSOR NET; including 2m SNCIQ cable; reagnet sets need to be ordered separately	825012						
Reagent sets								
R-Set NH4/1-1	Reagents for Alyza IQ NH4, when using MR1	827540						
R-Set NH4/1-2	Reagents for Alyza IQ NH4, when using MR2	827541						
SC-Set NH4/1-1_0/1	Calibration standards and cleaning solution for Alyza IQ NH4, when using MR1; Calibration standards with 0 mg/l and 1 mg/l	827545						
SC-Set NH4/1-1_0/4	Calibration standards and cleaning solution for Alyza IQ NH4, when using MR1; Calibration standards with 0 mg/l and 4 mg/l	827546						
SC-Set NH4/1-2_0/16	Calibration standards and cleaning solution for Alyza IQ NH4, when using MR2; Calibration standards with 0 mg/l and 16 mg/l	827547						
Alyza IQ for Orthophosph	ate measurement							
Alyza IQ PO4-111	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; reagnet sets need to be ordered separately	825511						
Alyza IQ PO4-112	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; reagnet sets need to be ordered separately	825512						
Alyza IQ PO4-121	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; reagnet sets need to be ordered separately	825521						
Alyza IQ PO4-122	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; reagnet sets need to be ordered separately	825522						
Reagent sets								
R-Set PO4/1-1	Reagents for Alyza IQ PO ₄ -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 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 |'zīləm|

1) The tissue in plants that brings water upward from the roots;

2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

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