



YSI Alyza IQ Analyzers

THE SIMPLE CHOICE FOR ORTHOPHOSPHATE AND AMMONIUM ANALYZERS

Meet Alyza IQ. It Just Works.

The innovative Alyza IQ analyzers are YSI's reliable, low-maintenance solution for wastewater monitoring and control. Easy to maintain with reliable measurements, IQ analyzers just work... and work... and work.

Low Reagent Use

Uses 5 μ L (PO₄) or 15 μ L (NH₄) reagent per sample, saving you time and money.

Simple Service

Reagent bag design makes replacing reagents easier and safer than ever.

Reliable Measurements

Real-time monitoring of reagent levels helps keep your analyzer in operation.

Automatic Calibration

Routine self calibration ensures accurate measurements.



Quick, Easy Exchange Service

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



Long-life Reagent

Long-lasting no-drip replacement pouches are easier and safer to use.

Applications

The Alyza PO4 and NH4 instruments are cabinet-style, wet chemistry analyzers with built-in sample delivery systems. Available in single- or dual-channel versions, Alyza features self-cleaning and calibration for reliable measurements. In addition, Alyza uses very little reagents, lowering your cost per measurement.



Orthophosphate measurement

Method | Molybdate-Vanadate method (Yellow method)

- Monitor and control chemical phosphorus removal, reducing dosing chemicals and sludge production
- Monitor biological phosphorus removal
- Effluent monitoring to ensure compliance
- Low measuring range for lowering effluent limits

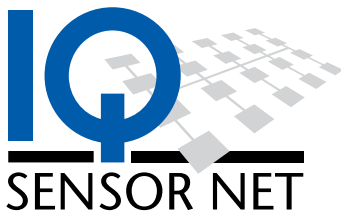


Ammonium measurement

Method | Indophenol method

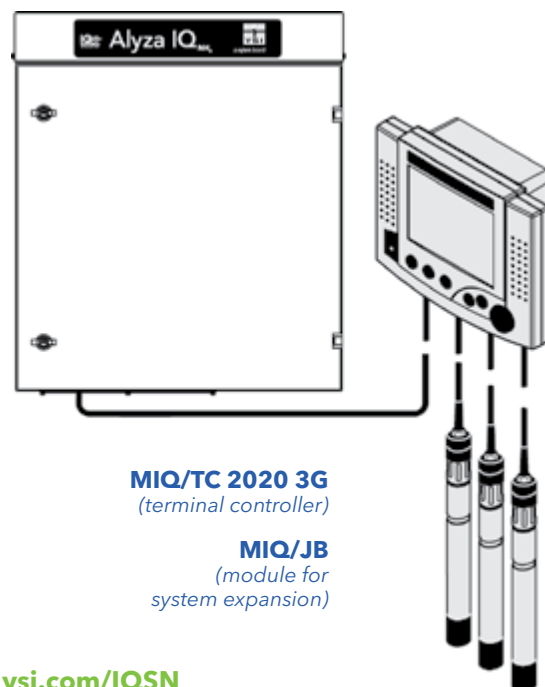
- Monitor and control ammonia-based aeration
- Effluent monitoring to ensure compliance

Networking



Integration

The Alyza IQ is fully integrated into the IQ SENSORNET as a sensor. The new analyzer connects to IQ SENSORNET 2020 or 282/284 controllers.

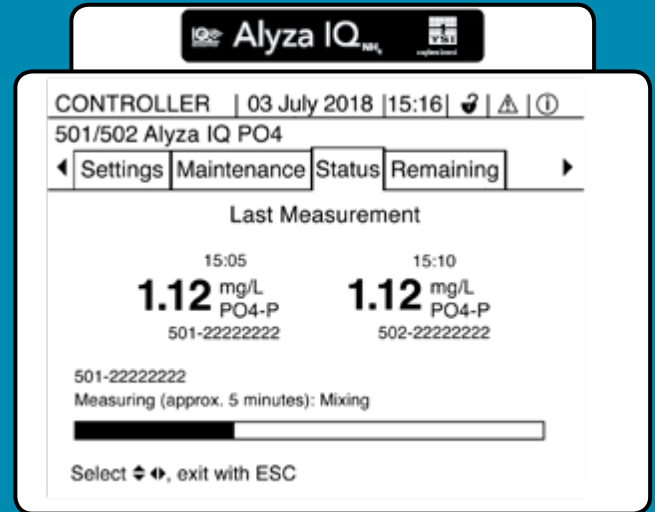


MIQ/TC 2020 3G
(terminal controller)

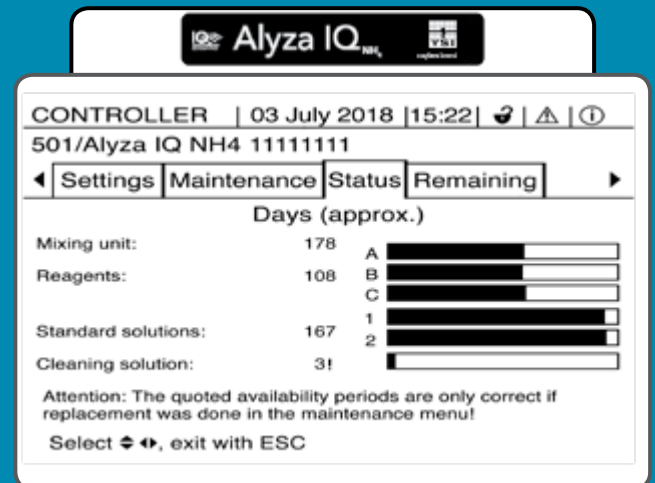
MIQ/JB
(module for system expansion)

Benefits of Alyza IQ

- Minimum maintenance with automatic cleaning
- High accuracy at low measuring ranges
- Extremely low reagent consumption - uses 5 μ L (PO4) or 15 μ L (NH4) per sample
- Connects to IQ SENSORNET controllers (provides 10W power)
- Easy installation - analyzers can be installed directly at the basin
- 1- or 2- channel versions; 2-channel allows for sampling from two locations
- Optimized user interface and self-diagnostics
- Serviceable - safe and easy replacement of reagents
- One- or two-point automatic calibration at user-defined intervals
- Ammonium or orthophosphate units available



Measurement Status of Alyza IQ showing last reading and time remaining until next measurement.



Innovation

Real-time monitoring of reagent levels. No more guessing the number of days left before reagents need changed.

Technical data

Model	Alyza IQ NH ₄ (Ammonium)	Alyza IQ PO ₄ (Orthophosphate)
Measurement method	Berthelot method (Indophenol method)	Moybdate-Vanadate method (Yellow method)
Measurement range	Two measuring ranges NH₄ MR1: 0.02 to 4.00 mg/l NH ₄ -N Displayed: 0.00 to 4.00 mg/l NH ₄ -N Resolution: 0.01 mg/l NH ₄ -N Accuracy: ± 3 %, ± 0.02 mg/l NH₄ MR2: 0.10 to 20.00 mg/l NH ₄ -N Displayed: 0.00 to 20.00 mg/l NH ₄ -N Resolution: 0.05 mg/l NH ₄ -N Accuracy: ± 3 %, ± 0.10 mg/l	Measuring range is instrument dependent PO₄ - 111/112 MR1: 0.02 to 15.00 mg/l PO ₄ -P Displayed: 0.00 to 15.00 mg/l PO ₄ -P Resolution: 0.01 mg/l PO ₄ -P Accuracy: ± 2 %, ± 0.02 mg/l PO₄ - 121/122 MR2: 0.2 to 50.0 mg/l PO ₄ -P Displayed: 0.0 to 50.0 mg/l PO ₄ -P Resolution: 0.05 mg/l PO ₄ -P Accuracy: ± 2 %, ± 0.2 mg/l
Sample Time Intervals	1 channel: 10 minutes; 2 channel: 20 minutes	1 channel: 5 minutes; 2 channel: 10 minutes
Sample streams/channels	1- and 2-channel versions available	
Cleaning	Automatic cleaning with cleaning solutions	
Calibration	Automatic 1- and 2-point calibrations	
Operational temperature	-4 to 104 °F (-20 to +40 °C)	
pH range	5 to 9	
Warranty	2 years	
Solids content	< 6 g/l before filtration	

Order information

Model	Description	Order no.
Alyza IQ for Ammonium measurement		
Alyza IQ NH₄-111	NH ₄ analyzer, 1-channel, with 2 measuring ranges, Indophenol method, connects to 2020 and 282/284 controllers, provides 10 W to the IQ SENSOR NET; includes 2 meter SNCIQ cable. Controller, reagent sets, filter and mounting hardware need to be ordered separately.	825 011Y
Alyza IQ NH₄-112	NH ₄ analyzer, 2-channel, with 2 measuring ranges, Indophenol method, connects to 2020 and 282/284 controllers, provides 10 W to the IQ SENSOR NET; includes 2 meter SNCIQ cable. Controller, reagent sets, filter and mounting hardware need to be ordered separately.	825 012Y
Reagent sets		
R-Set NH4/1-1	Reagents for Alyza IQ NH ₄ , when using MR1	827 540Y
R-Set NH4/1-2	Reagents for Alyza IQ NH ₄ , when using MR2	827 541Y
SC-Set NH4/1-1_0/1	Calibration standards and cleaning solution for Alyza IQ NH ₄ , when using MR1; Calibration standards with 0 mg/l and 1 mg/l	827 545Y
SC-Set NH4/1-1_0/4	Calibration standards and cleaning solution for Alyza IQ NH ₄ , when using MR1; Calibration standards with 0 mg/l and 4 mg/l	827 546Y
SC-Set NH4/1-2_0/16	Calibration standards and cleaning solution for Alyza IQ NH ₄ , when using MR2; Calibration standards with 0 mg/l and 16 mg/l	827 547Y
Alyza IQ for Orthophosphate measurement		
Alyza IQ PO₄-111	PO ₄ analyzer, 1-channel, with MR1, yellow method, connects to 2020 and 282/284 controllers, provides 10 W to the IQ SENSOR NET; includes 2 meter SNCIQ cable. Controller, reagent sets, filter and accessories need to be ordered separately.	825 511Y
Alyza IQ PO₄-112	PO ₄ analyzer, 2-channel, with MR1, yellow method, connects to 2020 and 282/284 controllers, provides 10 W to the IQ SENSOR NET; includes 2 meter SNCIQ cable; Controller, reagent sets, filter and accessories need to be ordered separately.	825 512Y
Alyza IQ PO₄-121	PO ₄ analyzer, 1-channel, with MR2, yellow method, connects to 2020 and 282/284 controllers, provides 10 W to the IQ SENSOR NET; includes 2 meter SNCIQ cable. Controller, reagent sets, filter and mounting hardware need to be ordered separately.	825 521Y
Alyza IQ PO₄-122	PO ₄ analyzer, 2-channel, with MR2, yellow method, connects to 2020 and 282/284 controllers, provides 10 W to the IQ SENSOR NET; includes 2 meter SNCIQ cable. Controller, reagent sets, filter and mounting hardware need to be ordered separately.	825 522Y
Reagent sets		
R-Set PO4/1-1	Reagents for Alyza IQ PO ₄ -X1X with MR1	827 550Y
R-Set PO4/1-2	Reagents for Alyza IQ PO ₄ -X2X with MR2	827 551Y
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	827 555Y
SC-Set PO4/1-1_0/10	Calibration standards and cleaning solution for Alyza IQ PO ₄ -X1X with MR1; Calibration standards with 0 mg/l and 10 mg/l	827 556Y
SC-Set PO4/1-2_10/40	Calibration standards and cleaning solution for Alyza IQ PO ₄ -X2X with MR2; Calibration standards with 10 mg/l and 40 mg/l	827 557Y

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.

For more information on how Xylem can help you, go to www.xylem.com



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