

Ammonium up to 150 mg/L

Wet-chemical analyzer for wastewater and river monitoring





Focus on your benefits

Analyzer to monitor ammonium concentrations in wastewater treatment plants and rivers – up to 150 mg/L, with automatic switch of the measuring range and event-driven measurement.



- Reliable results even at low concentrations
- Event-driven measurement by external signal
- Optional verification with additional standard solution
- · Corrosion resistant motor drive unit

AutoRange

Stay up-to-date – the automatic measuring range switch always provides a measured value.

Trigger measurement

Reduce consumption – with event-driven sampling you measure when it really matters.

Controlable filtration pump

Reduce your costs – adapt the sampling to your measuring interval and save on measuring technology and your wallet.



The Alyza IQ $\rm NH_4$ HR is fully integrated into the IQ Sensor Net as a "sensor". The analyzer can be operated in the system 2020 and the System 282/284. Connected to the IQ Sensor Net, the Alyza IQ $\rm NH_4$ provides 10 W.



Learn more about IQ SENSOR NET on our website



Learn more about Alyza IQ NH₄ HR on the <u>product detail page</u>

Ammonium measurement

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



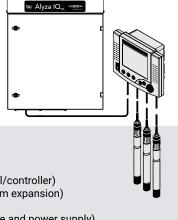


Configuration examples Alyza IQ NH4 HR in IQ SENSOR NET

Example 1 - System 2020

Example configuration Order no.

MIQ/TC 2020 3G MIQ/JB SACIQ-7,0 480008 480042 IQ Sensors user selected Alyza IQ NH₄ HR 825021

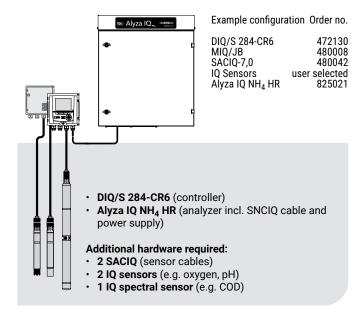


- MIQ/TC 2020 3G (terminal/controller)
- · MIQ/JB (module for system expansion)
- Alyza IQ NH₄ HR (Analyzer incl. SNCIQ cable and power supply)

Additional hardware required:

- 3 SACIQ (sensor cables)
- 3 IQ sensors (e.g. turbidity, pH, oxygen)

Example 2 - System 282/284



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

Technical Data

	Model	Alyza IQ NH ₄ HR	
	Measurement method	Berthelot method (Indophenol method	l)
	Cleaning	Automatic cleaning with cleaning solu	tions
	Calibration	Automatic 2-point calibration	
	AutoCheck	Verification at 50 % of measuring rang	е
	AutoRange	Automatic switch of measruing range	
	Trigger	Start measurement by external signal	
	Measuring range 1	0.020 – 1.500 mg/L NH ₄ -N	
	Measuring range 2	0.020 – 5.000 mg/L NH ₄ -N	
	Measuring range 3	0.02 – 15.00 mg/L NH ₄ -N	
	Measuring range 4	0.05 – 50.00 mg/L NH ₄ -N	
	Measuring range 5	0.5 – 150.0 mg/L NH ₄ -N	
	Accuracy	up to \pm 3 %, \pm 0.06 mg/L NH ₄ -N	TD
	Resolution	up to 0.001 mg/L NH ₄ -N	D2.28

Visit our website for regional sales offices and more contact info



Order information

Model	Description	Order no.
Alyza IQ NH ₄ -120	NH ₄ analyzer, 1-channel, without filtration pump, with 5 measuring ranges, Indophenol method, connectable to the IQ SENSOR NET Systems 2020 and 282/284, provides 10 W to the IQ SENSOR NET; including 2 m SNCIQ cable, reagent sets need to be ordered separately	825020
Alyza IQ NH ₄ -121	like 825020, but with filtration pump	825021
MPV-2	$\begin{array}{l} {\rm MultiPortVentil~2~for~Alyza~IQ~NH_4~HR} \\ {\rm for~conducting~the~liquids} \end{array}$	827001

Chemistry (selection)

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R-Set NH4/1-1	Reagents for Alyza IQ NH ₄ HR	827540
C-NH4/1-1	Cleaning solution 1	827518
C-NH4/1-2	Cleaning solution 2	827519
S-NH4/1-XX	Standard solution for calibration and verification of 0.0 mg/l to 120 mg/l.	8275XX
	Please visit our <u>website</u> for more information.	

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