Alyza IQ: The Simple choice for NH$_4$ Analyzers
How much reagent does your analyzer use?

Less Reagents
Minimized reagent consumption and waste

Simple Service
Minimum maintenance with automatic cleaning and calibration

Better Data
Reliable results from low to high measuring levels

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.

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

The Alyza IQ NH₄ 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 NH₄ 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
### Configuration examples Alyza IQ NH₄ in IQ Sensor Net

#### Example 1 - System 2020

- **Example configuration**
  - MIQ/TC 2020 3G
  - MIQ/JB
  - SACIQ-7.0
  - IQ Sensors
  - Alyza IQ NH₄, 1-channel

- **Order no.**
  - 470022
  - 480008
  - 480042
  - user selected
  - 825011

#### Example 2 - System 282/284

- **Example configuration**
  - DIQ/S 284-CR6
  - MIQ/JB
  - SACIQ-7.0
  - IQ Sensors
  - Alyza IQ NH₄, 1-channel

- **Order no.**
  - 472130
  - 480008
  - 480042
  - user selected
  - 825011

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

### Technical data

#### Alyza IQ NH₄

- **Measurement method**
  - Berthelot method (Indophenol method)

- **Measurement range**
  - Two measuring ranges

- **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 ... 104 °F (-20 ... +40 °C)

#### MR1:

- **Displayed:** 0.02 ... 5.00 mg/l NH₄-N
- **Resolution:** 0.00 ... 5.00 mg/l NH₄-N
- **Accuracy:** 0.01 mg/l NH₄-N ± 2 % ± 0.02 mg/l

#### MR2:

- **Displayed:** 0.10 ... 20.00 mg/l NH₄-N
- **Resolution:** 0.00 ... 20.00 mg/l NH₄-N
- **Accuracy:** 0.01 mg/l NH₄-N ± 3 % ± 0.10 mg/l

### Order information

#### 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; reagent sets need to be ordered separately

- **Order no.**
  - 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; reagent sets need to be ordered separately

- **Order no.**
  - 825012

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<tr>
<th>Reagent sets</th>
<th>Description</th>
<th>Order no.</th>
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<td>Reagents for Alyza IQ NH₄, when using MR1</td>
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<td>R-Set NH₄/1-2</td>
<td>Reagents for Alyza IQ NH₄, when using MR2</td>
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<td>SC-Set NH₄/1-0/1</td>
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<td>SC-Set NH₄/1-0/4</td>
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<td>SC-Set NH₄/1-2/0/16</td>
<td>Calibration standards and cleaning solution for Alyza IQ NH₄, when using MR2; Calibration standards with 0 mg/l and 16 mg/l</td>
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