YSI’s Alyza Analyzer for Ammonium provides accurate, reliable measurements for process control. The IQ Analyzer features a revolutionary MultiValve that dramatically reduces reagent use and maintenance requirements.

The Alyza NH4 is an online, cabinet-style analyzer used for continuous monitoring of ammonium in a municipal water resource recovery facility. This analyzer is weatherproof and can be deployed anywhere in the wastewater treatment process. Applications include monitoring biological tanks to help control ammonium-based aeration control and plant effluent locations to ensure compliance. The analyzer is available as a single-channel or two-channel instrument allowing you to sample from two different locations. It can be used as a stand-alone analyzer or be incorporated into an IQ SensorNet network of sensors.

- Extremely low reagent consumption, 15 µL per measurement
- Reliable sample delivery pump built into the cabinet
- Automatic cleaning, lower maintenance requirements
- Automatic calibration, 1 or 2 point
- Filtration unit allows analyzer to process samples with solids concentrations up to 6,000 mg/L
- Uses Indophenol method of detection
# IQ SensorNet NH4 Analyzer

## NH4 Analyzer Specifications

<table>
<thead>
<tr>
<th>Specifiication</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Measuring Method</strong></td>
<td>Berthelot method (Indophenol method)</td>
</tr>
<tr>
<td><strong>Measuring Range</strong></td>
<td></td>
</tr>
<tr>
<td>MR 1: 0.02 to 4.00 mg/l NH4-N</td>
<td></td>
</tr>
<tr>
<td>Displayed: 0.00 to 4.00 mg/l NH4-N</td>
<td></td>
</tr>
<tr>
<td>Resolution: 0.01 mg/l NH4-N</td>
<td></td>
</tr>
<tr>
<td>Accuracy: ±3 %, ±0.02 mg/l</td>
<td></td>
</tr>
<tr>
<td>MR 2: 0.10 to 20.00 mg/l NH4-N</td>
<td></td>
</tr>
<tr>
<td>Displayed: 0.00 to 20.00 mg/l NH4-N</td>
<td></td>
</tr>
<tr>
<td>Resolution: 0.05 mg/l NH4-N</td>
<td></td>
</tr>
<tr>
<td>Accuracy: ±3 %, ±0.10 mg/l</td>
<td></td>
</tr>
<tr>
<td><strong>pH Range</strong></td>
<td>5 to 9</td>
</tr>
<tr>
<td><strong>Sample Temperature</strong></td>
<td>39 to 113 °F (4 to 45 °C)</td>
</tr>
<tr>
<td><strong>Sample Time Interval</strong></td>
<td></td>
</tr>
<tr>
<td>1 channel: 10 minutes; 2 channel: 20 minutes</td>
<td></td>
</tr>
<tr>
<td><strong>Solids Contents</strong></td>
<td>&lt; 6 g/l (before filtration)</td>
</tr>
<tr>
<td><strong>Filtration Unit</strong></td>
<td>Filter/PC, FM-Case/PC (please order separately)</td>
</tr>
<tr>
<td><strong>Cleaning</strong></td>
<td>Automatic cleaning with cleaning solution</td>
</tr>
<tr>
<td><strong>Calibration</strong></td>
<td>Automatic 1- and 2-point calibration</td>
</tr>
<tr>
<td><strong>Ambient Conditions</strong></td>
<td>Operational temperature: -4 to +104 °F (-20 to +40 °C); Storage temperature: -4 to +122 °F (-20 to +50 °C)</td>
</tr>
<tr>
<td><strong>Electrical Connection</strong></td>
<td>120 VAC / 240 VAC, 50/60 Hz</td>
</tr>
<tr>
<td><strong>Mechanics</strong></td>
<td>Housing: powder-coated aluminum, UV resistant; Overflow vessel: PMMA</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Approx. 81.6 lb (37 kg) (without liquids)</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>2 years</td>
</tr>
</tbody>
</table>

## NH4 Analyzer Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
</table>
| 825 011Y | Alyza IQ NH4-111  
NH4 analyzer, 1-channel, with 2 measuring ranges, Indophenol method, connects to IQ SensorNet controllers 2020 or 282/284, provides 10 W to IQ SensorNet; including 2 m SNCIQ cable, reagent sets need to be ordered separately |
| 825 012Y | Alyza IQ NH4-112  
NH4 analyzer, 2-channel, with 2 measuring ranges, Indophenol method, connects to IQ SensorNet controllers 2020 or 282/284, provides 10 W to IQ SensorNet; including 2 m SNCIQ cable, reagent sets need to be ordered separately |
| 827 540Y | R-Set NH4/1-1  
Reagents for Alyza IQ NH4, when using MR 1 |
| 827 541Y | R-Set NH4/1-2  
Reagents for Alyza IQ NH4, when using MR 2 |
| 827 545Y | SC-Set NH4/1-1_0/1  
Calibration standards and cleaning solution for Alyza IQ NH4, when using MR 1; Calibration standards with 0 mg/l and 1 mg/l |
| 827 546Y | SC-Set NH4/1-1_0/4  
Calibration standards and cleaning solution for Alyza IQ NH4, when using MR 1; Calibration standards with 0 mg/l and 4 mg/l |
| 827 547Y | SC-Set NH4/1-2_0/16  
Calibration standards and cleaning solution for Alyza IQ NH4, when using MR 2; Calibration standards with 0 mg/l and 16 mg/l |

## Filter/PC

<table>
<thead>
<tr>
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</tr>
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</table>
| **Materials** | Housing: PVC  
Membrane: Chlorinated Polyethylene |
| **Dimensions** | Frame: 27 x 36 x 3 cm; 10.63 x 14.17 x 1.18 in (W x L x H)  
Including air pressure connector: 27 x 38 x 3 cm; 10.63 x 14.96 x 1.18 in (W x L x H) |
| **Maximum Distance Analyzer Sample** | 20 m; 65.61 ft |

## Filter Pump

<table>
<thead>
<tr>
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</tr>
</thead>
</table>
| **Materials** | Housing: Polypropylene  
Membrane: PTFE  
Pump head: Polypropylene  
Valves: FPM |
| **Dimensions** | Housing: 12 x 19 x 15 cm; 4.72 x 7.48 x 5.9 in (W x L x H)  
Including air pressure connector: 12 x 23 x 15 cm; 4.72 x 9.06 x 5.9 in (W x L x H) |
| **Maximum Distance Analyzer Sample** | 20 m; 65.61 ft |

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