

Ammonia electrode with replaceable modules/ membranes



The right choice for your application

Choose the optimum solution

The concentration of ammonium ions is an important parameter to determine the degree of contamination in all kinds of waters. Metrohm's new ammonia electrode with exchangeable modules or membranes, respectively, is an affordable solution to perform this analysis.

The ammonium ions in the sample are converted into ammonia through the addition of NaOH. The ammonia then diffuses through a gas-permeable membrane and is detected by means of a combined pH electrode.

NH₃-ISE (Low)

For measurements in waters with low concentrations of ammonia ions (e.g., drinking water, boiler feed water, etc.) we recommend the preassembled, individually tested and certified complete modules. The membranes used with this variant of the NH₃-ISE excel by their fast response time and low detection limits.

- Clean samples (e.g., drinking water, boiler feed water, etc.)
- Faster response time at the detection limit
- Lower detection limits
- Individually tested and certified
- Complete modules for simple exchange

NH₃-ISE (High)

For samples with high ammonium concentrations another type of membranes is used, which excels by shorter regeneration times and better signal stability at high ammonium concentrations. Moreover, with this variant of the NH₃-ISE only the membranes need to be exchanged at regular intervals. This is a great advantage when dealing with highly polluted samples (e.g., waste waters with oil residues) and correspondingly high exposure of the membrane.

- Waste water samples
- For long-term measurements, monitoring
- Faster response times after measuring high ammonium concentrations
- Better signal stability at high ammonium concentrations
- Affordable exchange of contaminated membranes (e.g., oil residues)



Ordering information

Certified NH₃-ISE (Low)

- 6.0506.100 NH₃-selective gas electrode
6.1255.000 NH₃-replacement kit, 3 modules and electrolyte

Low-cost NH₃-ISE (High)

- 6.0506.150 NH₃-selective gas electrode
6.1255.050 NH₃-replacement kit, 20 membranes
6.2104.020 Electrode cable, plug-in head G / plug F, 1 m

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