

Press Release: Cost-effective water analysis with new ammonia electrode

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Ammonium ion loading is an important parameter for determining the amount of pollution in water. With the new ammonia electrode from Metrohm, which has replaceable modules and membranes, it is possible to carry out the appropriate analyses economically.



The ammonium ions contained 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. Depending on the application, Metrohm offers a choice of two versions.

For measurements in waters with low concentrations of ammonium (e.g. drinking water, boiler feed water, etc.), the NH₃-ISE (Low) version with preassembled, individually tested and certified complete modules is recommended. The membranes used in this version are characterized by a faster response time and lower detection limit.

The demands on devices used for measurements in highly polluted samples (e.g. wastewater containing oil residues) are correspondingly higher. For these, Metrohm offers the NH₃-ISE (High), the version in which only the membrane needs to be replaced at regular intervals. The type of membrane used in this version is characterized by shorter regeneration times and better signal stability at high ammonium concentrations.

For more information on this press release please contact the Marketing Department at Metrohm UK Ltd.

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Note to Editors:

Metrohm is synonymous with potentiometric titration, Karl Fischer titration, ion chromatography and electrochemistry solving your analytical chemistry problems with quality instrumentation and support services set up in 1995, Metrohm UK serves the key markets of the UK including the chemical, petrochemical and pharmaceutical industries, as well as the automotive and food sectors.