

The NeuLog ammonium sensor can be used to measure the concentration of ammonium ions (NH₄⁺) in aqueous samples. It can be used to evaluate the degree of contamination of water due to the use of fertilizers.

Ammonium measurements can also be very relevant to study the nitrogen cycle in general and to relate this cycle to plants and algae.



Specifications

- Used in the fields of Environmental Science, Ecology, Chemistry, Biology, etc.
- Uses a permanently filled ion selective electrode to accurately measure the amount of ammonium ion in a solution.
- Includes a ammonium sensor electrode, ammonium Ionic strength adjuster (ISA), ammonium 1000 ppm standard.
- The sensor is pre-calibrated at the factory.
- Offsetting is conducted by using a 10 ppm ammonium solution.
- Experiment duration: 1 second to 31 days.

	mg/L	ppm
Range and operation modes	0.02 to 18,000	0.02 to 18, 000
ADC Resolution	15 bits	
Resolution	0.03 at 0.02 to 100 mg/L 0.01 at 100 to 1,000 mg/L 130 at 1,000 to 18,000 mg/L	0.03 at 0.02 to 100 ppm 0.01 at 100 to 1,000 ppm 130 at 1,000 to 18,000 ppm
Max. sample rate (S/sec)	100	

Sensor Requirements

Hardware

- **USB Module (USB-200)**

Direct connection to the computer (PC, Mac, XO, or Linux)



or

- **WiFi Module (WIFI-201 or WIFI-202)**

Wi-Fi communication – For any device which uses WiFi technology (ipads, Tablets, Smartphones and Computers)



- **Optional Accessories:**

Battery Module, RF Communication Module, Graphic Display Module, Digital Display module



Software

- Application for Windows
- Application for Mac
- Web Application for WiFi module
- NeuLog Software



Multiple logger sensors can be used together!

