

aquaMonia

Automatic analyzer of low concentrations of ammonium in fresh and salt water

Ammonium in spring water is usually found at very low concentrations, with levels below 0.1 mg of NH_4^+ /l. Basically, its presence is due to excretions from fluvial fauna or as a product of decomposition. Plants take it up as a source of nitrogen during their natural cycle.

The measurement of the ammoniacal nitrogen in water and especially in fish farms is an efficient alert for preventing toxic effects on fish because changes in pH and temperature can transform it into its gaseous form (NH_3), which is more toxic than dissolved the ion (NH_4^+).

CHARACTERISTICS

The aquaMonia A103 unit is designed for fish farms as well as for fresh and salt water; it is optimum for determining the concentration of ammonium between 0.02 and 4 ppm, providing a high degree of accuracy.

Based on the FIA system with potentiometric measurements, aquaMonia A103 combines a selective electrode of NH_4^+ , with a semi-permeable membrane that prevents the sample from coming into direct contact with the electrode, thus eliminating any type of interference.

OPERATION

aquaMonia A103 may operate in:

Automatic mode:

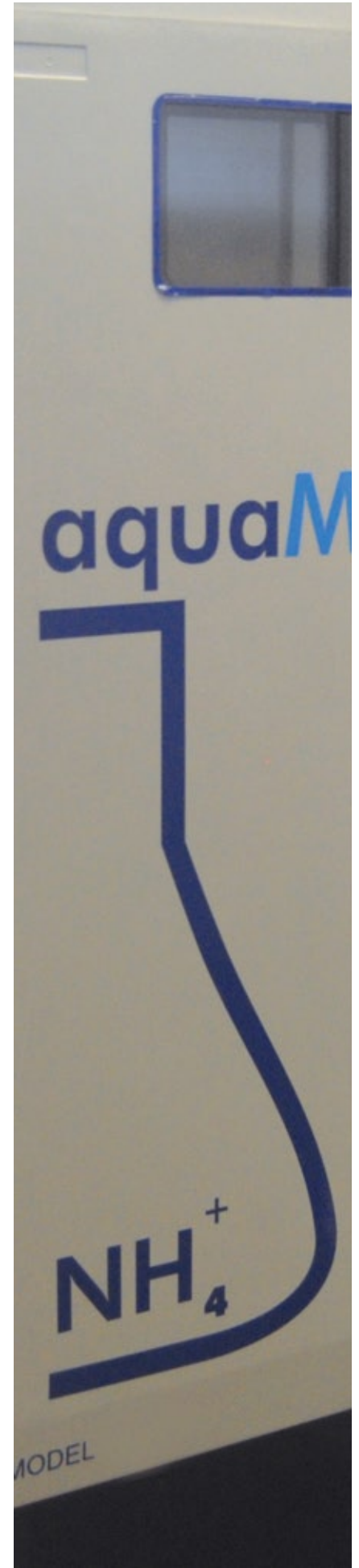
The equipment performs the measurements automatically. It includes a self-calibration system that prolongs the system's autonomy. Data collected is sent in real time to a local or remote control centre for analysis and use. aquaMonia A103 is continually taking measurements, which enables it to generate and send alarms to other equipment or systems.

Manual mode:

The measurement process can also be carried out locally by sending commands from the equipment keyboard, or by remote control from the control centre.



INNOVATIVE SOLUTIONS
FOR WATER & ENVIRONMENT



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GENERAL CHARACTERISTICS

Power supply:	110 - 230 VAC/50 -60 Hz
Communications:	RS-232, RS-485. Opcionales: Modem GSM/GPRS, Ethernet y 4-20mA
Accuracy:	<5%
Measuring range:	0,01 ... 4 ppm NH_4^+ The unit takes peak measurements of up to 200 ppm NH_4^+ . The specified accuracy is not maintained for values greater than 4 ppm.
Expression of the results:	ppm de NH_4^+ o TAN
Analysis time:	8 min.
Dimensions:	75 x 50 x 42 cm

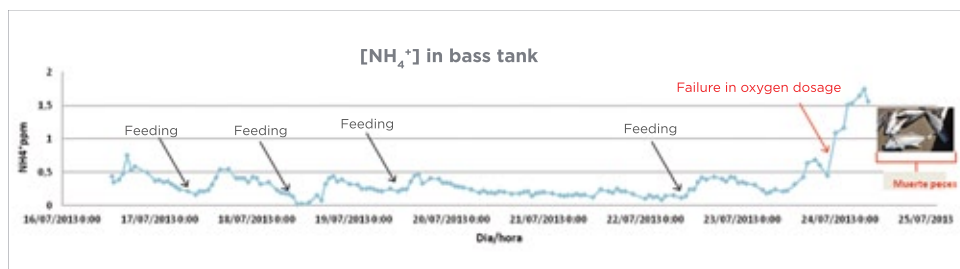


Figure. Example of monitoring the concentration of ammonia in tank bass

Adasa reserves the right to modify the technical features.



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All ADASA products are designed and manufactured according to the highest standards of quality:

ISO 9001 Quality Management
UNE 166002:2006 R&D and innovation Management
ISO 14001 Environmental Management
OHSAS 18001 Health and Safety