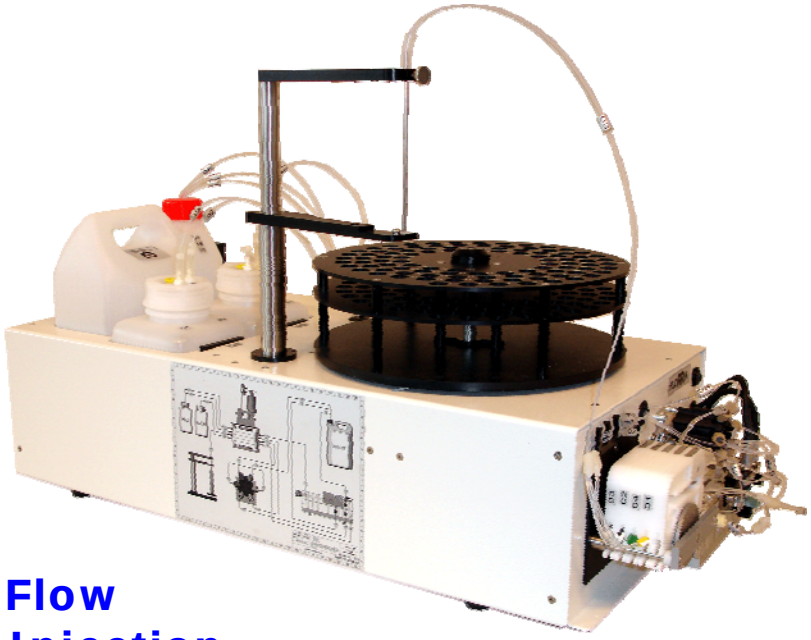
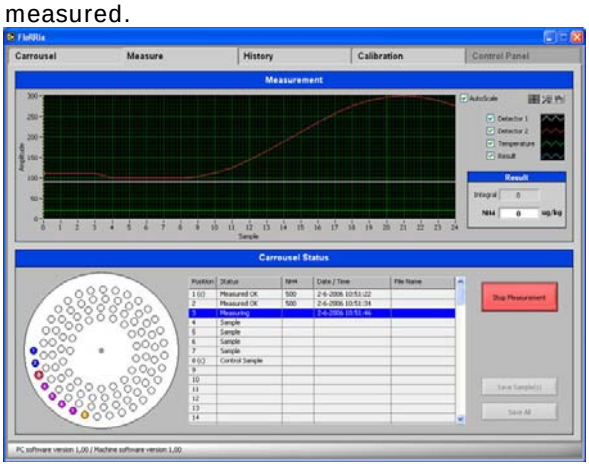
FLORRIA

Flow Injection Ammonium Analyzer



Flow Injection Ammonium Analyzer

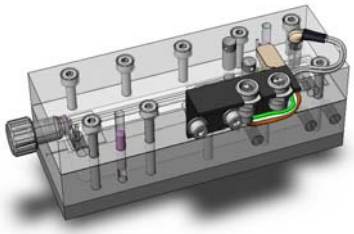
The automated analyser for measuring low concentrations of ammonium in water. The FloRRia can hold as much as 100 sample tubes at a time performing the analyses unattended.
Only a NaOH-solution and demi-water is needed to perform analyses. Sample rate is approx. 12 samples per hour. Concentrations of 5 ppb (minimum) to 30.000 ppb (maximum) may be measured.

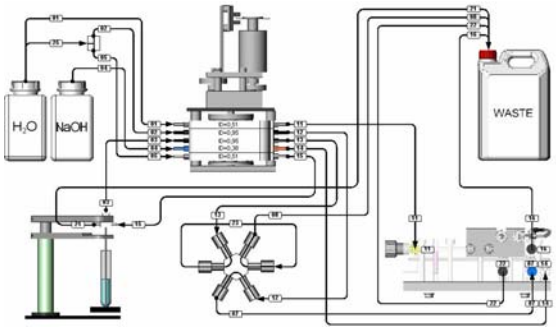


Interfacing through RS-232 to a host computer running easy-to-use dedicated software enabling calibration, operation, setup, control and archiving.

Operation principle

Aspirating from a 0.1 ml tube fully automated, the sample is mixed with NaOH and subsequently passes the membrane inside the detector block. Part of the gas-phase ammonia diffusion passes through the membrane and is there added to demi-water. The conductivity of the solution is compared with the conductivity of neutral demi-water with that defining the ammonia concentration in the sample.





Summary of specifications

	Measuring characteristics
Dynamic range	5 ppb – 30,000 ppb
Resolution	5 ppb
Accuracy	5 %
	Sampling characteristics
Throughput	12 samples/hour
Sample tubes	100 max
Tube size	∅ 12 - 13.5 mm L=70 - 80 mm
Sample volume	1.5 ml
	Environmental requirements
Temperature	15 – 30 °C
Relative humidity	10 – 90 %
	Power
Power consumption	12 VDC, 36 Watt max.
Power converter input	100-250 VAC; 47/63 Hz; 0.8A
output	12 VDC; 3 A
	Dimensions and weight
Overall dimensions	620 x 270 x 400mm (LxWxH)
Weight	9 kg (excl. reagents)

All specifications subject to change without prior notice

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RR mechatronics

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