

Technical Data

Measurement and Sample Preparation

Type of measurement : Ammonia measurement by dynamic standard addition

Measurement Range : 0 - 100 mg/l Ammonia

Accuracy : 2 %

Repeatability : 1,5 %

Response Time : 30 sec

Sample preparation : Maintenance-free particle separator "Flowsampler"

Operation and Data Output

LCD-screen

Autostart-Function

Industry-standard data interface

EPROM

Connections

Electrical Power : 230 / 100 V~, 50 / 60 Hz, 50 VA

Output : 0/4 - 20 mA, 2 analogue outputs

Interfaces: RS 232, RS 422

Potential-free contacts: 3 programmable relays

Connection for printer, PC

Protection Class, Dimensions and Weight

IP 54

Dimensions : 660 x 440 x 300 mm (W x H x D)

Weight : 20 kg

The information and the illustrations in this brochure on appearance, service, measure, weight, consumption, maintenance times and so forth, are not binding and only an approximate description. It does not assure guaranteed qualities. This product description corresponds to the state of printing. Deviations in design, tint, as well as changes of the scope of delivery remain reserved.

If you require more information about our products for online-TOC, TN_b, TP, COD, BOD or toxicity measurement, please call us.

There's so much more!



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Ammonitor

Measurement of Ammonia
made easy !

Continuous Short-Time
Ammonia Measuring Systems

- For waste water treatment and process control
- Fast, minimal maintenance

- **The economical solution for sensitive and fast Ammonia determination**

By using state of the art manufacturing, materials and techniques the **Ammonitor** offers performances previously only available from the most expensive on-line analysers.

The **Ammonitor** uses the dynamic standard addition method for the determination of Ammonia. After each injection of the sample a certain volume of a standard will be added to the reactor and the final result will be calculated from the sample signal and the signal produced by sample+standard. This way the matrix effects will be compensated very effectively. The volume of the additional standard will be calculated automatically according to the signal produced by the sample.

- **New electrode technology**

The ion sensitive electrode contains already the reference electrode which reduces the maintenance requirements and makes the operation of the instrument even easier and more cost-effective.

- **Software controlled operation**

Every available software function is screen-help supported, in addition to the operation manual which gives information in relation to routine operation and servicing. Data can easily be transferred via serial or parallel interface to a measuring station for further processing or remote control.

- **For industrial and municipal waste water treatment plants (WWTP)**

The **Ammonitor** is suitable for almost every Ammonia measurement in sewage treatment and industrial applications.

The ranging allows the determination of Ammonia values between up to 1,000 mg/l. This extremely wide measuring range fully cover the needs for monitoring and process control.



- **Optimised use of chemicals**

The method is optimised for low reagent demand. The reagent usage is typically just 2.5 liters per month on a 100 analyses per day basis.

The result is the highest operational safety and outstanding uncomplicated operation.

- **Reliable Ammonia determination**

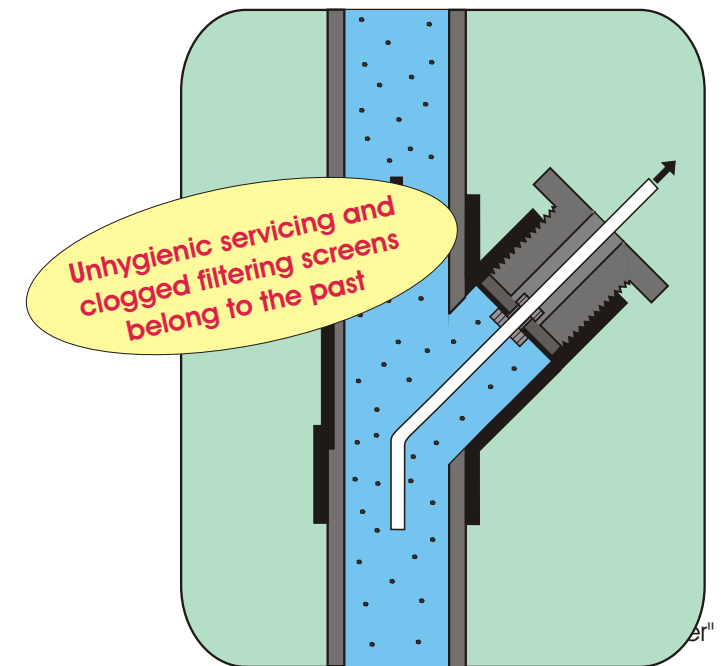
The main advantage of the **Ammonitor** is the standard addition method. Any other method will suffer major setbacks from matrix influences. The standard addition method eliminates those matrix effects by running an internal standard in every sample.

Furthermore the standard addition method compensates the instruments drift, therefore the calibration remains more stable.

- **Maintenance- and filtration-free sample preparation**

The patented sample preparation system "**Flow Sampler**" works filtration-free as the sample is taken in the centre of the sample stream against the direction of the main flow.

Thereby, all large particles are reliably removed. Smaller solid matter particles will however be sampled, so that a representative sample reaches the analyser.



FlowSampler masters even the most difficult tasks; e. G. sampling at sewage works influents before the coarse screen

- **Easy to operate**

The **Ammonitor** is preset and configured for the specific application. Just connect the power, sample and reagent lines and the instrument is ready for being used. The maintenance requirements are extremely low: just reagents and tubings have to be renewed from time to time.



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