

DR. LANGE

ONLINE ANALYSERS

ACCESSORIES

» FILTRAX

FILTRAX



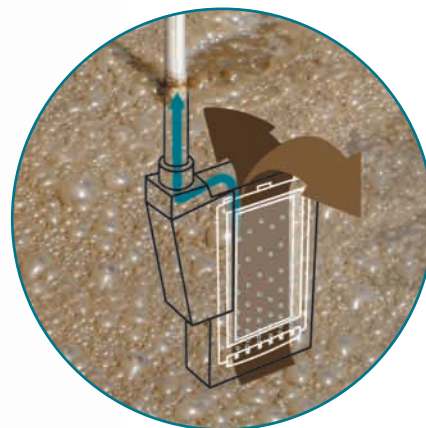
SAMPLE PREPARATION



**In-situ filtration
for online analysers**



Operating principle:
Separation of solids
by a submersed
membrane



FILTRAX



FILTRAX®: with module carrier

Getting things clear for ammonium and phosphate measurement

Reliable sampling and sample preparation is more essential than ever nowadays to ensure dependable operation of online analysers for the measurement of ammonium, nitrate and orthophosphate. Varying sludge properties, in particular, due to advanced nutrient elimination and minimised precipitation processes can lead to problems. The new in situ filtration system using FILTRAX® gets things clear, supplying the Dr. Lange online analysers with sample that is free from solids.

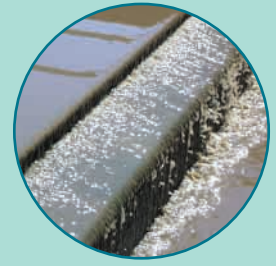
Sample preparation for process analysis:



$\text{NH}_4\text{-N}$
Nitrification and
discharge monitoring

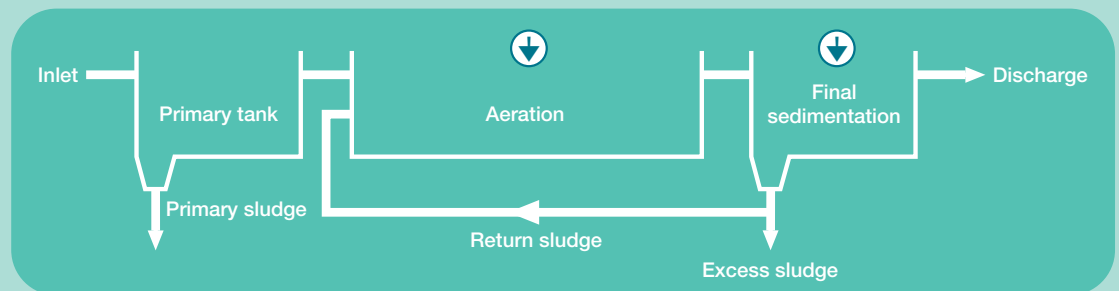


$\text{NO}_3\text{-N}$
Denitrification and
discharge monitoring



$\text{PO}_4\text{-P}$
Biological and
chemical phosphate
elimination

For use at:



Sewage treatment plant flow diagram

➔ Use of FILTRAX®

IN SITU FILTRATION



Equipment: Permanent self-cleaning for low maintenance

FILTRAX® comprises a control unit for weatherproof tank rim fixing out of doors, a submersible filter module carrier and trace heated sample lines of various lengths for sample transportation. The ultra-clear filtrate is drawn from the filter modules installed directly in the medium by means of peristaltic pumps and is sent to the analysers via trace heated sample lines. Permanent membrane self-cleaning ensures minimal maintenance. Maintenance intervals of several months are usual despite changing sludge properties. FILTRAX® is used in aeration tanks, bio-p tanks, denitrification, final sedimentation and also in surface water.

Advantages: Simply directly in the medium

- ➔ Reliable with all sludge properties
- ➔ Permanent self-cleaning means very low maintenance
- ➔ Easy to fit on the tank or channel
- ➔ Suitable for outdoor installation
- ➔ Energy-saving sample feed, no submersible pump required

MEASURABLY MORE. TRY US.



Dr. Lange means measurably more than good measuring instruments. It's our service that makes analysis systematic.

FILTRAX

DATA SHEET

APPLICATION SPECIFICATION

OPERATING INSTRUCTIONS

Analytical quality

assurance as a complete package with monitoring cards and test standards (to the German Water Management, Wastewater and Waste Association standard ATV DVWK M269).



Seminars and workshops for comprehensive information and intensive further education.



Always on call promptly whenever assistance is needed. The Dr. Lange **equipment service**.



Competent on-site support – and personal contact with our **field service engineers**.



The **Environment Centre** is officially recognised for processing of used reagents, totally free of charge – including a collection service.



Detailed information always at your fingertips and maximum convenience – keep up to date on-line with **www.dr lange.com**.

T E C H N I C A L D A T A

FILTRAX®:

Process principle: In situ membrane filtration

Sample volume: Sufficient for up to three online analysers from **AMTAX, PHOSPHAX, NITRATAX bypass** product families

Delivery head: Suction tube: max. 3 m
Sample tube: max. 7 m

Line lengths: Suction tube : 5 m (heated)
Sample tube: 2 m (unheated)
10 m (heated)
20 m (heated)

Ambient temperature: -20° C to +40° C

Sample temperature: +5° C to +40° C

Pore size of membrane filtration: < 0.45 µm

Outputs: Warning contact potential-free, 230 V, max. 3 A
Fault indicator contact potential-free, 230 V, max. 3 A
RS 232 service interface

Power consumption: 230 V (optionally: 115 V) +/- 10 %, 50-60 Hz

Mass: W x H x D 430 x 530 x 220 mm (control unit)
92 x 500 x 340 mm (filter module carrier)

LANGE 
FOR WATER QUALITY

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