

# OPSIS LiquidLINE

Innovative Wet Chemistry



# OPSIS

- A global company for more than 30 years

Opsis AB is a global company that develops, manufactures and markets state-of-the-art, innovative systems for gas analysis and process control.

We provide our customers with the most advanced, reliable and cost-effective systems, regardless of application.

With several thousands systems installed worldwide, Opsis offers the availability of measuring ambient air quality monitoring (AQM) and continuous emissions monitoring (CEM)/process control.



Approvals of  
Opsis Monitoring  
Systems



The Opsis monitoring systems have rendered approvals in more than 50 countries around the world.

## OPSIS CONCEPT

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Opsis was founded in 1985 when two Ph.D. students from the University of Lund, Sweden, took the concept of measuring gases with light and developed it into a commercially viable product. Svante Wallin and Leif Unéus developed the idea of measuring gases in air, by using light, to measure several gases simultaneously.

## PROFESSIONAL PARTNER

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Our aim has always been to offer innovative measurement equipment and software. That is why research is so vital to our work. Close contact with researchers and customers provides us with the information required to continue developing high-quality measurement systems. We will make a measurable difference, today and tomorrow!

## A GLOBAL COMPANY

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Opsis is an international company represented on all continents. A network of distributors has been established for sales of our gas solutions. Today, more than 90% of the company's sales go to markets outside of Sweden.



OPSIS' products are used to monitor city pollutions around the world.



OPSIS' products are used in waste treatment plants to monitor stack emissions and for process control.

# OPSIS LiquidLINE

Opsis AB founded in 1985, took the concept of measuring gases with light and developed it into a commercially viable product. In 2013, Opsis AB took another step to implement modern technology into Wet Chemistry and Liquids.

## INNOVATIVE SYSTEMS

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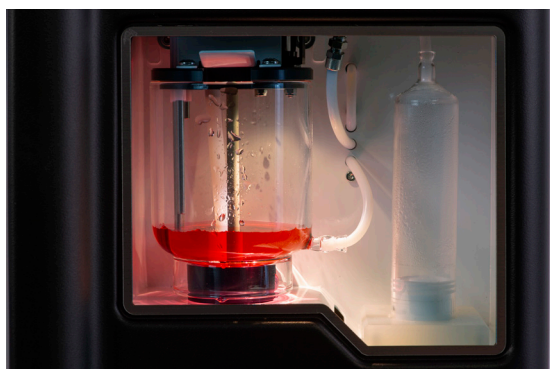
OPSIS LiquidLINE brings innovation to the wet Chemistry industry such as,

- Wireless communication and new software capabilities with mobile phones
- Unique material science to protect the instruments and the operators
- OPSIS Gas software and hardware 24/7 platforms, proven around the world

All our products are developed, designed and produced in Sweden. Due to the location we have access to the best expertise in the Wet Chemistry field, that understand the classic methods.



The wireless technology allows direct transfer of results to computers and even to your mobile phone



OPSIS LiquidLINE Predictive Titration, brings new flexibility into the Kjeldahl method

## A MEASURABLE DIFFERENCE

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At OPSIS LiquidLINE we want to bring a difference that really matters to your laboratory. After extensive research and testing we have found that our technology can provide substantial advantages such as

- Faster, and with less errors, due to our batch handling in Total Fat Extractions
- OPSIS LiquidLINE Predictive Titration achieves a lower relative standard deviation on our Analyzers (less than 0.75%)

## WORLDWIDE DISTRIBUTION

OP SIS LiquidLINE products are launched all over the world via a new dedicated distribution network, continuing on our tradition to work only with the best and the most qualified representatives.

Training programs with our representatives include applications, product knowledge and maintenance of our instruments.

Quality procedures are always at the heart of our business, whether it is regarding maintenance of our instruments, tracking of main components used or customer support - the customer needs are always in focus and something we stress in all our trainings.



An OP SIS installation in Middle East

## PRODUCTION AND RESEARCH AT ONE LOCATION IN SWEDEN

OP SIS AB and OP SIS LiquidLINE are based in Southern Sweden.

We have all our research and production located at the headquarters since we believe that active cooperation between production and research is important to any manufacturer of quality instruments.

Therefore our ISO 17025 certified calibration lab as well as our chemical lab, can be used both by production staff as well as by our research teams.

Field experiences are discussed by both production and research personnel in cross-operational groups.

With experiences from the process industry we know the difference between quality and quality!



OP SIS LiquidLINE headquarters, Furulund, Sweden

# OP SIS LiquidLINE Products

Since 2013 OP SIS LiquidLINE has launched a worldwide range of analysing products for Wet Chemistry Analysis.

## KJELROC ANALYZER AND DISTILLATION UNITS

Our KjelROC range of analyzers offers innovative, precise and cost efficient solutions for Distillation, Titration and determination of protein according to the Kjeldahl method. Unique Predictive Titration, gives several advantages in the lab.

KjelROC Distillation Unit Manual KD-200  
KjelROC Distillation Unit Auto KD-210  
KjelROC Analyzer KD-310  
KjelROC Autosampler KD-625



## KJELROC DIGESTION BLOCKS

Standard in all our digestion blocks are selectable programs, timer functions and possibility to select between Celsius and Fahrenheit.

Our more advanced blocks offer more automation with a motor Rack.

KjelROC Digester 10 Auto  
KjelROC Digester 20 Auto  
KjelROC Digester 10 Advanced  
KjelROC Digester 20 Advanced



## KJELROC SCRUBBER

Environmental concerns are always important to consider and therefore we recommend to use scrubbers together with our KjelROC Digestion blocks.

KjelROC Scrubber  
KjelROC Water Jet Pump



## SoxROC EXTRACTION UNITS

The SoxROC range of products offers flexible and reliable solutions for automatic Hot solvent extractions and determination of fat and total fat.

SoxROC Extraction Unit 6 position  
 SoxROC Extraction Unit 2 position  
 HydROC Hydrolysis Unit  
 SoxROC consumables



## CONSUMABLES

Good analysis requires preparation and supplies of reliable consumables like Glass Tubes of Borosilicate and Kjeldahl Tablets. We also provide thimbles and filter bags for your extraction

KjelROC Tubes, 250 ml  
 Laboratory Glassware  
 KjelROC Tablets:  
 Missouri, Micro Copper,  
 Universal Copper,  
 Titanium, Wienerger  
 Extraction Thimbles, Filters



## LABCONNECT LABORATORY SOFTWARE

OP SIS LiquidLINE can provide solutions for handling your information flow.

The LabConnect software provides a complete solution to register your weights and analyse your results, including direct import from connected balance and/or barcode scanner. One software for all your Protein, Moisture, Ash, Fiber and Fat analyses.

The Transfer Utility software provides the capability to send weights and receive results, using your mobile phone.

LabConnect Standard  
 LabConnect LIMS  
 Transfer Utility (iPhone/iPad only)





## OUR CERTIFICATES

Opsis is certified according to ISO 9001 quality management system since 1996, and ISO 14001 environmental management system since 2000. OPSIS has an ISO 17025 accredited laboratory.

OPSIS LiquidLINE - a product from Opsis, your reliable partner with Triple-A credit rating.



Intertek



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LB 1028  
2021 02

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