

# OPSIS LiquidLINE KjelROC Analyzer

High Precision Kjeldahl System  
with Smart Connectivity



# WHY KJELROC ANALYZER?

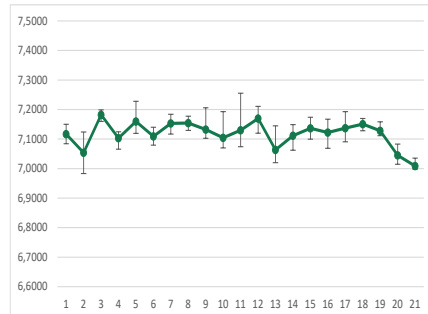
OPSIS LiquidLINE brings innovation to an established market

- Unique accuracy with OPSIS LiquidLINE Predictive Titration
- Integrated workflow with OPSIS LiquidLINE LabConnect Software
- High Chemical Resistance with the unique OPSIS LiquidLINE BlackLINE coating and plastic material in critical areas



## UNIQUE ANALYTICAL PRECISION

- Unique OPSIS LiquidLINE Predictive Titration technology
- Colorimetric Titration
- Proven Relative Standard Deviation 0.5%



AN ANALYTICAL INSTRUMENT WITH HIGH PRECISION

## CONNECT YOUR LABORATORY

- Efficient Digital workflow with included OPSIS LiquidLINE LabConnect software, compliant with ISO 17025 and CFR Title 21 Part 11
- Connect balances and exchange data with LIMS systems
- Upgrade to LabConnect Full software license and get tools to analyze your results and work with other methods\*



LABCONNECT SOFTWARE FACILITATES ADMINISTRATION

## CHEMICAL RESISTANCE AND UPGRADES

- The OPSIS LiquidLINE BlackLINE coating\*\* provides unique corrosion protection
- OPSIS LiquidLINE service system, including an application Laboratory in Sweden
- Possible to upgrade to an OPSIS LiquidLINE AutoSampler system

\* LabConnect Full license upgrade is an additional license, not included in delivery

\*\* OPSIS LiquidLINE BlackLINE coating is taken from latest development in Swedish corrosion technology. Similar coating is used in trucks and cars from Volvo and Scania.



PROTECTION WITH BLACKLINE AS WELL AS PTFE COATING AROUND SENSITIVE PARTS. POLYPROPYLENE SPLASHHEAD OPTIONAL.

# BENEFITS

After more than 30 years of experience within analysis, we will now raise the standard for Quality Instruments, Information Exchange and Analysis in samples like Food, Forage and Liquids. The KjelROC is prepared for the future with several new, unique, benefits.

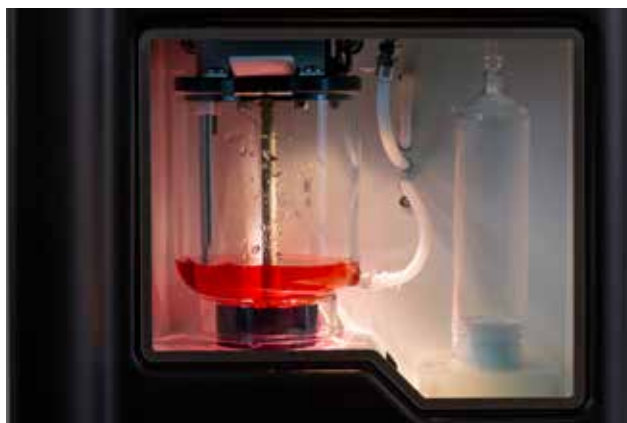
## HIGH PRECISION TITRATION SYSTEM

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The KjelROC is designed for colorimetric titration and fully complies to standards issued by organisations such as AOAC, IDF and ISO. A unique Titration system, OPSIS LiquidLINE Predictive Titration, lowers the Relative Standard Deviation which directly transforms to more precise results. A large burette with automatic refill during analysis will also secure a wide analysis range.

- OPSIS LiquidLINE unique Predictive Titration lowers the Lowest Detection Limit (LOQ), lowers the relative standard deviation and simplifies the use of different indicators
- Burette with a resolution of 1.95 µl/step gives unmatched precision
- Easy exchangeable Glass Splashhead for high precision or Polypropylene Splashhead for high volume analyses
- Unique Steam Stirrer function ensure safe distillation to avoid dangerous exothermic reactions
- PTFE tubes limit air bubbles

THE UNIQUE PREDICTIVE TITRATION  
SYSTEM LOWERS THE RELATIVE  
STANDARD DEVIATION AND THE  
50 ML BURETTE WITH AUTOMATIC  
REFILL MAKES IT EASY TO CHANGE  
BETWEEN HIGH AND LOW PROTEIN  
ANALYSIS



## CONNECT YOUR LABORATORY

Connect the KjelROC Analyzer to your Laboratory information flow. The LabConnect software is delivered together with all KjelROC Analyzers.

- Complete solution to register your weights and analyse your results, including direct import from connected balance and/or barcode scanner.
- Send weights and retrieve results between KjelROC Analyzer, PC, iPad or iPhone. Export to other LIMS systems or save in Excel, .CSV or PDF format
- Trusted IT security. No data is exchanged on the internet (no external cloud servers)
- User Management and Traceability of your data. Compliant with FDA Title 21 CFR Part 11

LabConnect software can also be upgraded with the Full license

- Analysis Module with Statistical Tools
- One software for all your Protein, Moisture, Ash, Fiber and Fat analyses. The LabConnect Full will even work with instruments from other brands.



THE TRANSFER UTILITY (IPAD) AND THE LABCONNECT SOFTWARE ALLOWS FOR EASY CONNECTIVITY TO YOUR LABORATORY

## THE OPSIS LIQUIDLINE LABCONNECT SOFTWARE



Labconnect Standard license is delivered together with OPSIS LiquidLINE KjelROCs, SoxROCs and FiberROCs

Labconnect Full license is an upgrade that allows expansion with analytical tools and exchange of data to other instruments

## ADAPTIVE WORKFLOW AND GLP REQUIREMENTS

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Use your existing Lab procedures or use our ready to use programs, the instrument is fully flexible to adapt to your demands which reduces integration costs.

- With our adaptive workflow you are always in control, for example handling express samples with no previous weight entry, weight entry via touch screen or weight entry from an external device. Any combination is possible.
- The KjelROC Analyzer can easily be qualified for your laboratory. Additional Installation, Operational and Performance Qualification documents can be purchased
- Easy check and adjustment of all components in your KjelROC, using the Managers and Service menus
- Automatic self test with recommendations for user actions and complete cleaning programs for daily maintenance
- The KjelROC offers different access levels and menus according to GLP requirements
- An extensive set-up of User Protection safety systems is included in the KjelROC



AN OVERVIEW OF THE WHOLE RACK WITHOUT POP-UP DIALOGUES - AN INSTRUMENT WITH THE USER IN MIND.

## ISO 17025 PREPARED

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Traceability of data files and user access levels make it easy to implement ISO 17025.

- OPSIS Component traceability program allows tracking of components. It is also possible for a service engineer to retrieve lifetime status of main components
- The User ID is included in weight entry and analysis log file to ensure traceable events. Data remains intact, and traceable, from PC to instrument and back
- Dedicated Managers menu to perform QC operations such as Burette test



## OP SIS LIQUIDLINE MAINTENANCE PROGRAM

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OP SIS LiquidLINE designed for your maximum safety, with several safety sensors inside. Easy diagnostics in software which reduces risk for downtime of instrument.

- Unique system that allows Individual test of every component in the instrument via a Service menu
- Follow lifetime of internal components by Instrument Log file
- Fluoropolymer coating in sensitive areas to protect against Alkali
- Automatic self test with recommendations for user actions and complete cleaning programs for daily maintenance

*Specifications subject to change without notice*

Opsis AB, Box 244  
SE-244 02 Furulund Sweden  
Telephone +46 46 72 25 00  
Telefax +46 46 72 25 01  
E-mail [info@opsis.se](mailto:info@opsis.se)  
[www.liquidline.se](http://www.liquidline.se)



LP 1016  
2023 12

OPSIS AB • +46 46 72 25 00 • [info@opsis.se](mailto:info@opsis.se) • [www.liquidline.se](http://www.liquidline.se)