

# ADVANCE ANALYTIK

REVOLUTIONIZING ONLINE MONITORING SOLUTIONS



## OPTICS-1000 CHLORIDE (Cl<sup>-</sup>)

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# Optics-1000 Series

## CHLORIDE (Cl-)

### Method - ISE

The standard known addition (SKA) technique is used to perform the analysis. During the process, two readings are done. The difference between both and the slope found during calibration are used to calculate the concentration. Possible changes on the matrix sample are corrected due to this both lectures, as the reference to calculate the result is the relative difference of mV and not the absolute values. This avoids external interferences.



### Principle of measurement

Reagent 1 is added to activate the electrode before the analysis. After that, a first measurement is done. Subsequently, a small volume of a high concentrated nitrate solution is added. Finally, a second lecture of mV takes place to calculate the result.

### Advantages of the method

The method is very simple and is fairly specific as the chloride measurement and just a few parameters cause interferences, which can be removed.



# Optics-1000 CHLORIDE (Cl-)

## Technical Specifications

Basic Specifications	
<b>Range</b>	From 0 to 5ppm / 20ppm / 50ppm / 100ppm / 500ppm / 1000ppm / 5000ppm (Adjustable higher concentrations)
<b>Accuracy</b>	±2%
<b>Repeatability</b>	±2%
<b>Resolution</b>	0,01 ppm / 0,1 ppm / 1 ppm
<b>Analysis time</b>	around 10 minutes
<b>Calibration</b>	one point
<b>ISE</b>	Chloride Cl- electrode
Reagents consumption	
<b>Reagent 1</b>	0.5 ml / analysis - 0.5L / month
<b>Reagent 2</b>	0.5 ml / analysis - 0.5L / month (Monthly consumption calculated assuming 1 analysis per hour.)



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# APPLICATIONS

- Pharma industry
- Refineries and more.



**Aquaculture Farms**  
Maintain Hd levels in fish tanks for optimal aquatic conditions.



**Drinking Water Quality**  
Ensure safe drinking water by monitoring Hd levels in water sources.



**Environmental Research**  
Assess Hd concentrations in water bodies to study pollution and ecosystem health.



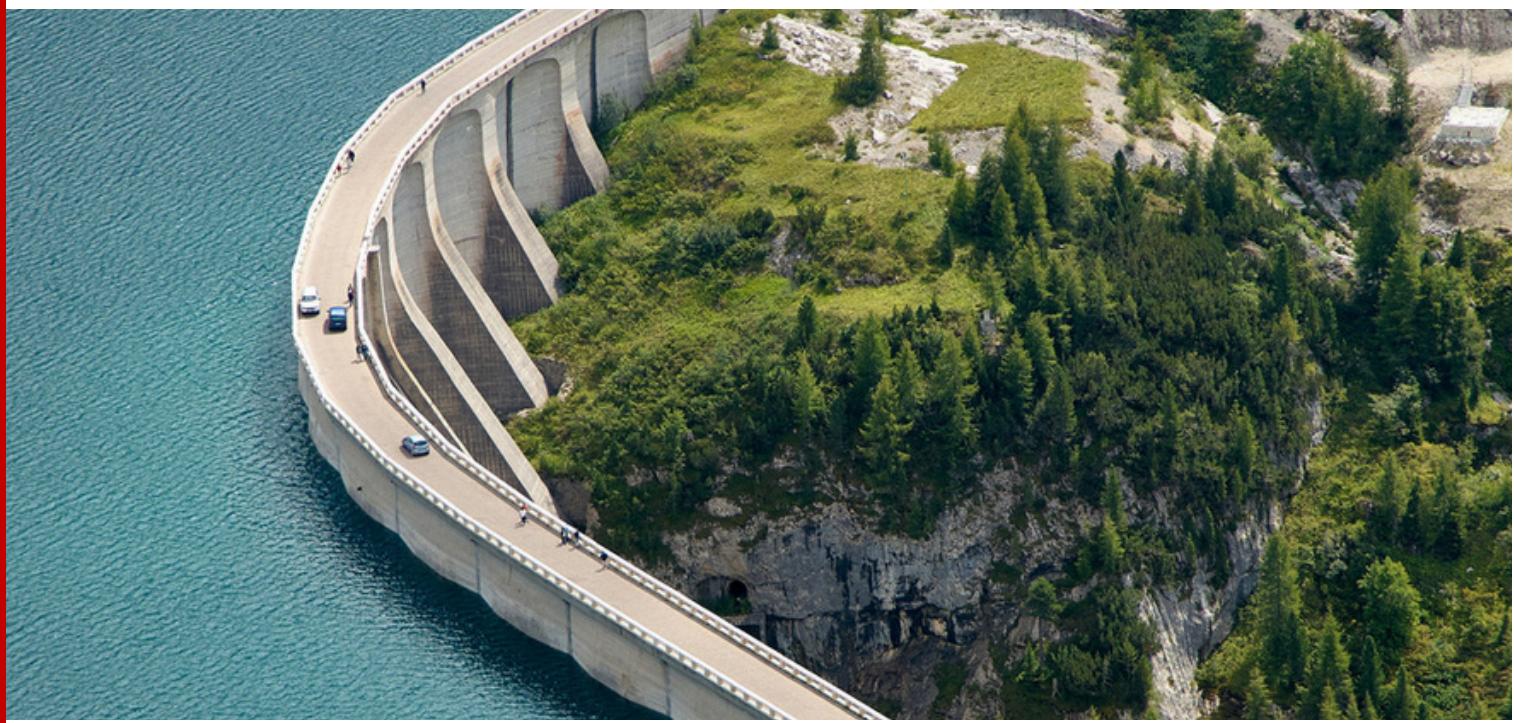
**Agriculture and Irrigation**  
Monitor Hd levels in irrigation water to optimize nutrient supply to crops.



**Scientific Laboratories**  
Conduct Hd analysis for research and educational purposes.



**Industrial Processes**  
Control Hd concentrations in wastewater to meet environmental regulations.



## Note -

*This data sheet serves as general information about the OPTICS-1000 CHLORIDE (Cl-). For specific technical details, installation guidelines, and troubleshooting assistance, please refer to the official user manual provided with the product.*

*For inquiries and detailed technical information, please contact [sales@advanceanalytik.com](mailto:sales@advanceanalytik.com).*



# LET'S CONNECT !

Let's work together to find a solution that  
works for you



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