

ADVANCE ANALYTIK

REVOLUTIONIZING ONLINE MONITORING SOLUTIONS



Optics-1000 Boron (Hr)

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Optics-1000 Boron (Hr)

Method - ISE

After adding the reagents to establish the desirable conditions to the sample, the volume of titrant is charged.

Thanks to the module syringe driver minimum dose (0.015 ml), the accuracy achieved is really high, with 3 drops differences as much between 2 consecutives analysis of the same standard. Moreover, the software has been improved to speed up the initial dose, whereas when the inflection point is close, the titrant is added slowly, to achieve precision.



Principle of measurement

Boric acid is a very weak acid and direct titration with NaOH is not possible. However, addition of Mannitol-D makes a significant and visual end point determination, based on the change of pH on the sample.

Advantages of the method

The method is specific for the measurement of boron. The 6000 steps motor that controls the syringe movement allows to dose really small drops, getting accuracy and repeatable results. Moreover, the reagents are simple to be prepared and cheap. Changing the concentrations of reagents, the range of measurement is easily modifiable.

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Technical Specifications

Basic Specifications	
Range	From 0 to 50 ppm / 100 ppm / 250 ppm / 500 ppm. (Adjustable higher concentrations adjusting reagents.)
Accuracy	±2% Full Scale
Repeatability	±2%
Resolution	0,01 ppm or 0,1 ppm Analysis time: around 15 minutes
Calibration	one point
ISE	pH electrode
Reagents consumption	
Reagent 1	4 ml / analysis - 3.0L / month
Reagent 2	4.5 ml / analysis - 3.5L / month (Monthly consumption calculated assuming 1 analysis per hour.)



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APPLICATIONS



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.



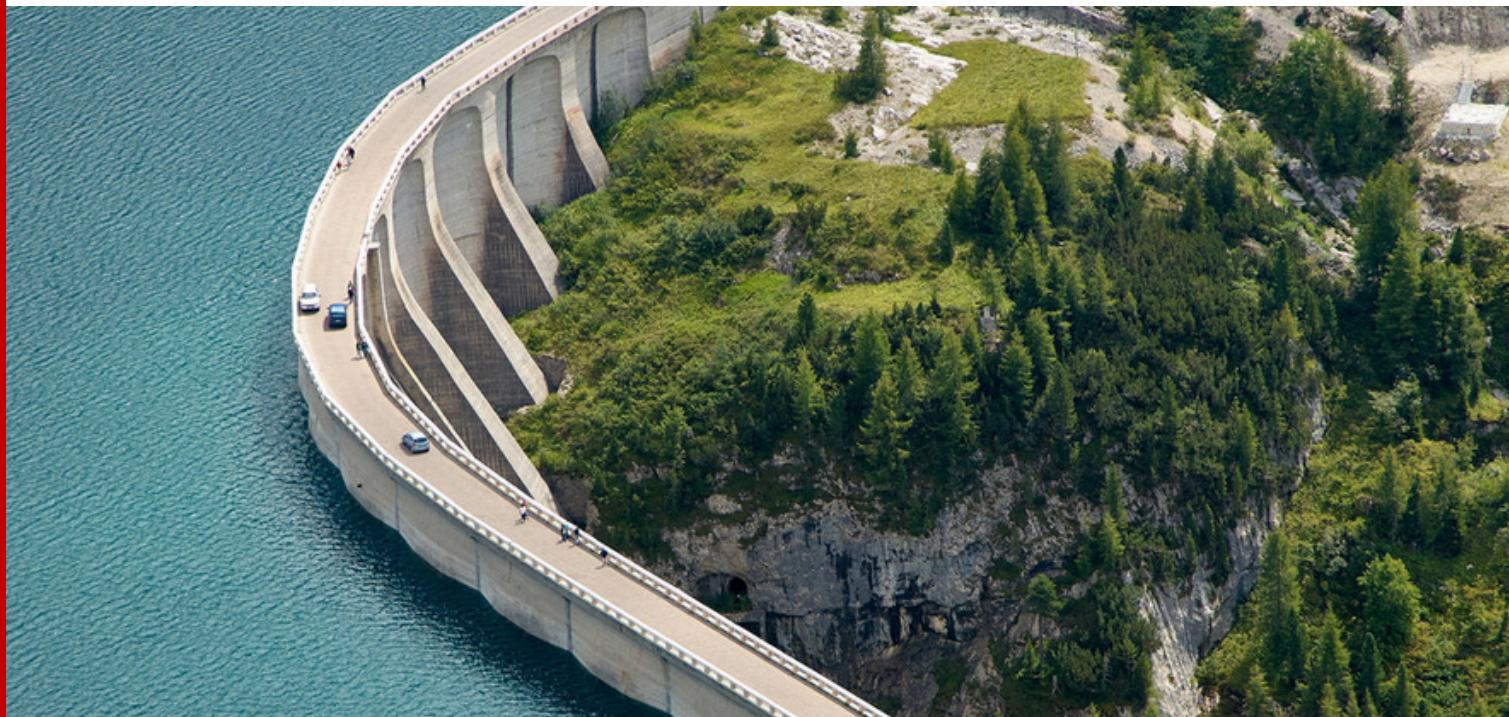
Agriculture and Irrigation
Monitor Hd levels in irrigation water to optimize nutrient supply to crops.



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 Boron (Hr). 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.



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



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