



PRODUCT
DATASHEET '24

ADVANCE ANALYTIK

REVOLUTIONIZING ONLINE MONITORING SOLUTIONS



OPTICS 1000 - PHOSPHATE

PHOSPHATE HIGH RANGE (PO_4^{3-})

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Optics 1000 Series

PHOSPHATE HR (PO_4^{3-})

Method - Colorimetric

After adding the sample into the measurement cell, some reagents are added in order to adjust the solution to the desired conditions (pH, valence's elements, etc.). Then, a blank is done to correct any temperature or turbidity disturbance. Subsequently, a last reagent is added, and it reacts with solution developing a color, which is measured using a correct wavelength. Thanks to the photometer used, the result achieves a great accuracy.



Advantages of the method

The method appears to be specific for phosphate and is especially useful when measuring the higher concentrations of phosphate. Although the complex is yellow in color the autoblanking before the addition of the single reagent compensates for any background yellow color present in the sample. The other obvious advantage is that only a single reagent is used and the quantity of reagent added is very small (1 ml).



Principle of measurement

The method relies upon the direct reaction of phosphate ion to react with the Vanadomolybdate reagent to form a yellow colored complex.

Specifications

| | |
|---------------------------------|---|
| RANGE | From 0 to 2ppm / 5ppm / 10ppm / 20ppm / 60ppm. Adjustable higher concentrations with internal dilution. |
| ACCURACY | ±2% |
| FULL SCALE REPEATABILITY | ±2% |
| RESOLUTION | 0,01 ppm |
| ANALYSIS TIME | around 10 minutes |
| CALIBRATION | two point |
| LED WAVELENGTH | 435 nm |

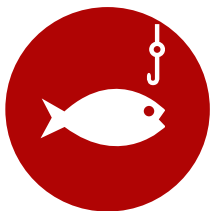
Reagents consumption

- Reagent 1: 0.9 ml / analysis - 0.75L / month

Monthly consumption calculated assuming 1 analysis per hour.



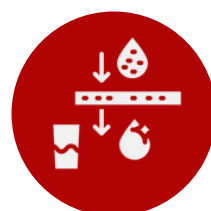
Applications



Fish farming



Food and Beverage



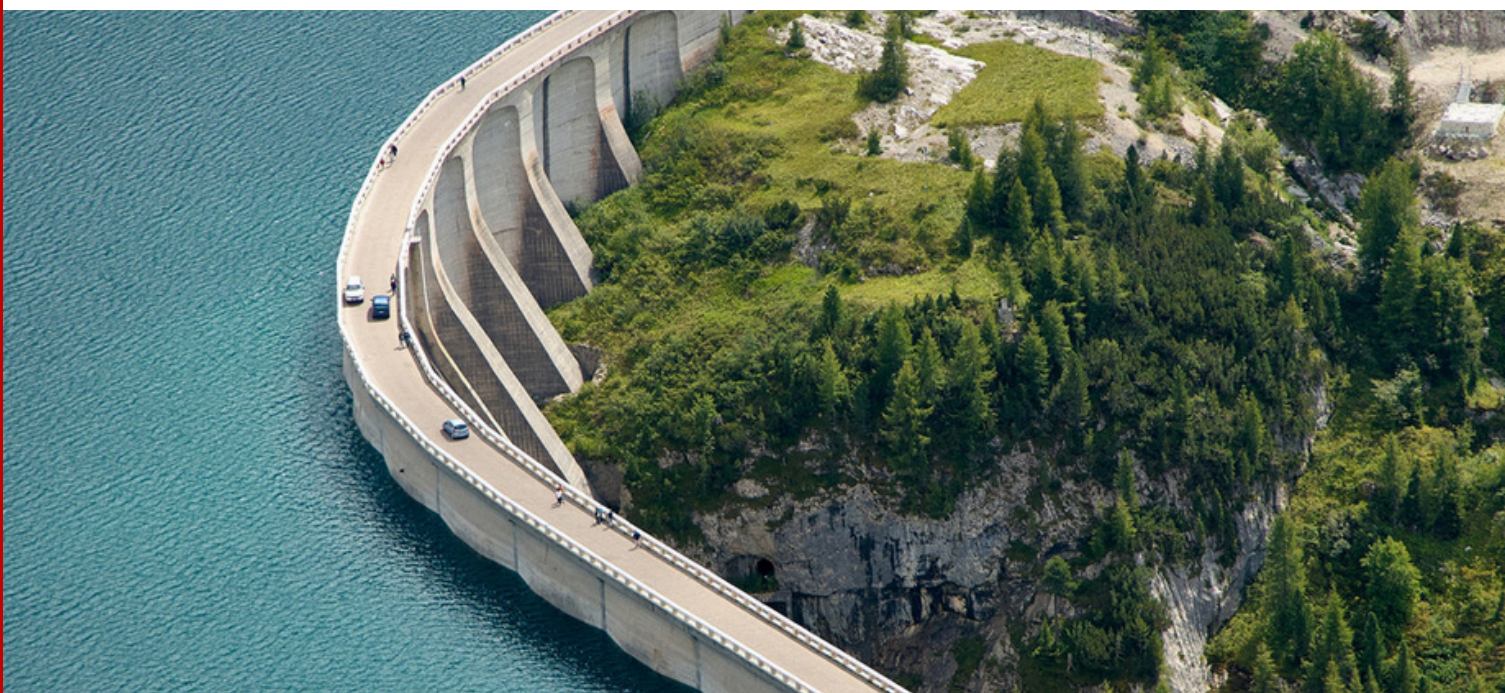
Desalination Plants



**Chemical Processing
Plants**



**Textile and Dyeing
Industries**



Note -

This data sheet serves as general information about the Optics 1000 - Phosphate (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.



LET'S CONNECT !

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



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