

Method Z240F/ Z240M - Phosphate PO4

Specification

Description: Test for determining the content of phosphate in fresh and marine water

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Range: 0,05 -10 mg/l
Resolution: 0,01 mg/l
Wavelength: 610 nm

Reagent set

Product Code Description List of components

8240 Set of reagents for: method Z240F, Phosphate PO₄ in fresh water ✓ Reagent PO₄-1

method Z240M, Phosphate PO₄ in marine water ✓ powder Reagent PO₄-2

(reagents for approx. 35 tests) ✓ spatula

Performing the measurement

To measure the content of phosphate in fresh water select the Z240F Phosphate PO4 Fresh method, in marine water the Z240M PO4 Phosphate Marine method (Methods → Select method → Z240F/Z240M Phosphate PO4). How to select the method, see 8.1 Choosing method.

NOTE:

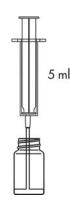
It is recommended to use the GUIDE system by pressing the context button **GUIDE** on the photometer. It will provide you with step-by step basic instruction how to perform measurement and a timer with beeper to count down reaction time. To enable this function press the button **GUIDE**.

2. Rinse the vial and the syringe three times with the tested water.

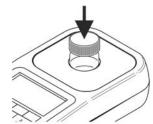
Take exactly 5 ml of the tested water with the syringe and pour into the vial.

NOTE.

Make sure no air bubbles are present in the syringe. Trapped air bubbles can affect accuracy of the measurement.



3. Insert the vial into the round vial holder and press the ZERO key. The display will show "-0.0-", which means the device is ready for measurement.



26 08 20		· 111 12	2:45
PO ₄	Z240F	Phosphate	PO
	tag 1		
	cay i		
Me		ng	

26 08	20	12:45		
PO ₄		Phosphate PO		
	tag 1			
-0.0- mg/l				
ZERO	MEAS	GUIDE		

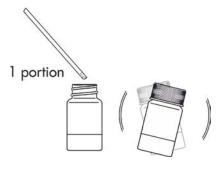


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4. Add 10 drops of Reagent PO₄-1 and shake to mix.

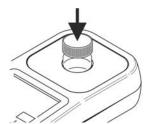


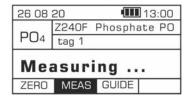
- Add 1 portion of powder Reagent PO₄-2 with the spatula, and shake until powder has dissolved.
- 6. Before taking a measurement wait 10 minutes.





7. Insert the vial into the round vial holder and press the **MEAS** key to take a measurement. The result - **the concentration of phosphate** – is displayed in **mg/l (ppm)**.





26 08 20		13:00 Phosphate PO		
PO ₄	Z240F	Phospha	ate PO	
FU4	tag 1		j	
0.65 mg/l				
ZERO	MEAS	GUIDE	REC	

There are also available alternative units to display: ppm and P mg/l. They can be accessed by pressing the left / right Decursors on the keyboard.

Potential interferences

the presence of:

iron (Fe)	- above 50 ppm	
copper (Cu)	- above 10 ppm	may interfere with the measurement
silica content	- above 50 ppm	
silicate content	- above 10 ppm	may interfere with the measurement
hydrogen sulphide,	arsenate or high buffering capacity	may interfere with the measurement