

Method Z220H – Nitrite NO₂ High range

Specification

Description:	Test for determining the content of nitrite in marine and fresh water
Range:	1-6 mg/l
Resolution:	0,05 mg/l
Wavelength:	470 nm

Reagent set

Product Code	Description	List of components
8220	Set of reagents for method Z220H, Nitrite NO ₂ High range (reagents for approx. 50 tests)	✓ Reagent NO ₂ -1 ✓ Reagent NO ₂ -2

Performing the measurement

- Select the **Z220H Nitrite high range** method (Methods → Select method → Z220H Nitrite NO₂ High range). How to select the method, see [8.1 Choosing method](#).

NOTE:

If you do not know what the concentration of nitrite can be expected in the sample, it is recommended to choose Z220L method and perform the measurement for low range first.

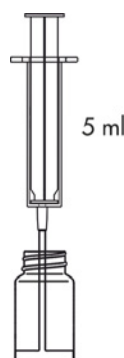
It is recommended to use the GUIDE system by pressing the context button GUIDE on the photometer. It will provide you with step-by step basic instruction how to perform measurement and a timer with beeper to count down reaction time. To enable this function press the button GUIDE.

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

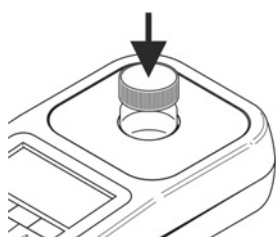
Take exactly 5 ml of the tested water with the syringe and pour into the vial.

NOTE:

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



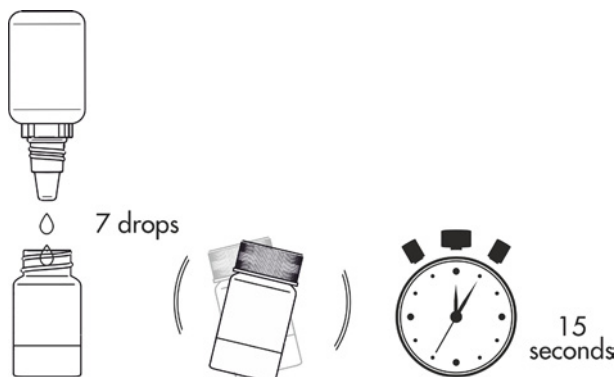
- Insert the vial into the round vial holder and press the **ZERO** key. The display will show **"-0.0-"**, which means the device is ready for measurement.



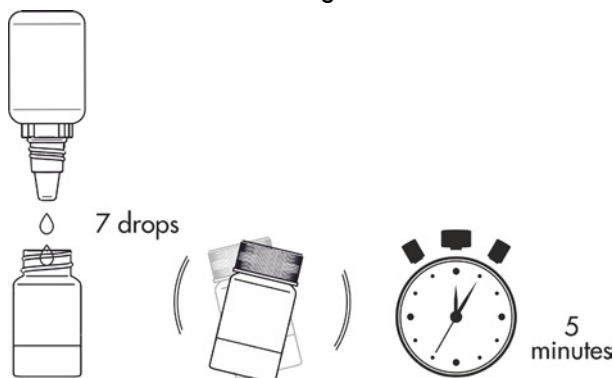
26 08 20		12:45
NO ₂	Z220H Nitrite NO ₂	
	tag 1	
Measuring ...		
ZERO	MEAS	GUIDE

26 08 20		12:45
NO ₂	Z220H Nitrite NO ₂	
	tag 1	
-0.0- mg/l		
ZERO	MEAS	GUIDE

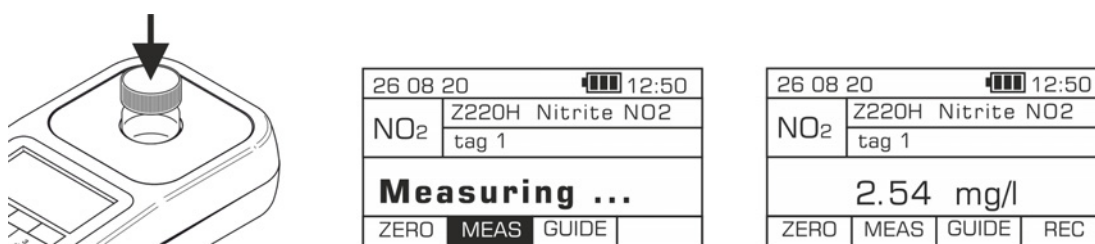
- Add 7 drops of **Reagent NO₂-1** and shake gently to mix.
- Wait 15 seconds before adding Reagent NO₂-2.



- Add 7 drops of **Reagent NO₂-2** and shake to mix.
- Wait 5 minutes before taking a measurement.



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



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

Potential interferences

the presence of metal ions

- Fe, Sb, Bi, Ce, Cr, Au, Ag and Hg

may cause falsely low readings

strongly oxidizing or reducing agents,

organic ammonium compounds such as urea or amines

may interfere with the measurement

high content of nitrate (V)

- above 100 ppm

may cause slightly falsely high readings