

## Method Z220L – Nitrite NO<sub>2</sub> Low range

### Specification

Description:	Test for determining the content of nitrite in marine and fresh water
Range:	0,02-1,5 mg/l
Resolution:	0,01 mg/l
Wavelength:	520 nm

### Reagent set

Product Code	Description	List of components
8220	Set of reagents for method Z220L, Nitrite NO <sub>2</sub> Low range (reagents for approx. 50 tests)	✓ Reagent NO <sub>2</sub> -1 ✓ Reagent NO <sub>2</sub> -2

### Performing the measurement

- Select the **Z220L Nitrite Low range** method (Methods → Select method → Z220L Nitrite NO<sub>2</sub> Low range). How to select the method, see [8.1 Choosing method](#).

**NOTE:**

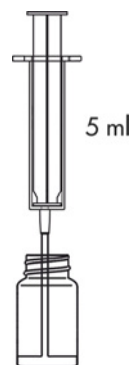
It is recommended to use the **GUIDE** system by pressing the context button **GUIDE** on the photometer. It will provide you with step-by-step basic instruction how to perform measurement and a timer with beeper to count down reaction time. To enable this function press the button **GUIDE**.

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

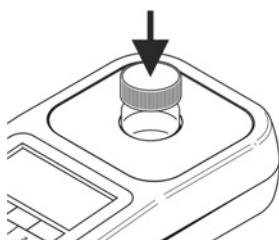
Take exactly 5 ml of the tested water with the syringe and pour into the vial.

**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.



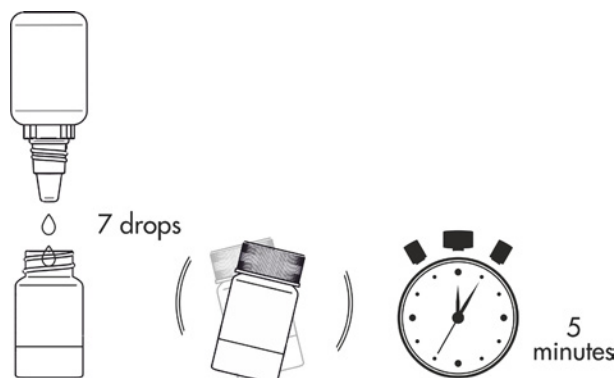
26 08 20  12:45	
NO <sub>2</sub>	Z220L Nitrite NO <sub>2</sub> tag 1
<b>Measuring ...</b>	
ZERO	MEAS GUIDE

26 08 20  12:45	
NO <sub>2</sub>	Z220L Nitrite NO <sub>2</sub> tag 1
<b>-0.0- mg/l</b>	
ZERO	MEAS GUIDE

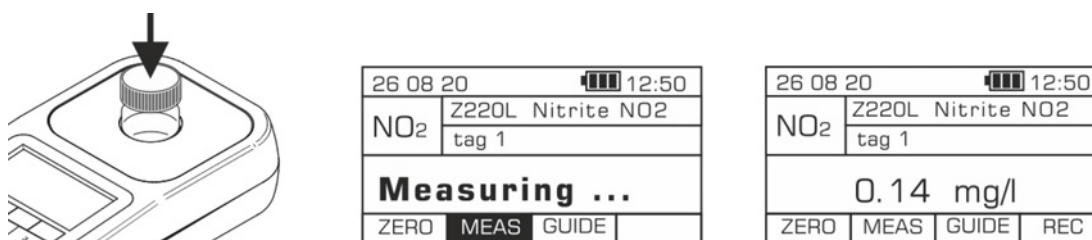
- Add 7 drops of **Reagent NO<sub>2</sub>-1** and shake gently to mix.
- Wait 15 seconds before adding Reagent NO<sub>2</sub>-2.



- Add 7 drops of **Reagent NO<sub>2</sub>-2** and shake gently 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:

iron (Fe), antimony (Sb), bismuth (Bi), caesium (Ce), chromium (Cr), gold (Au), silver (Ag) and mercury (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