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

1. Select the Z220H Nitrite high range method (**Methods → Select method → Z220H Nitrite NO_2 High range**). How to select the method, see *8.1 Choosing method*.

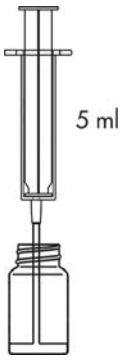
   NOTE:
   If you do not know what the concentration of nitrite can be expected in the sample, it is recommended to choose Z220L method and perform the measurement for low range first.

   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.

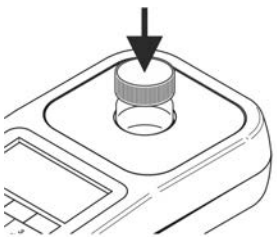
2. Rinse the vial and the syringe three times with the tested water.

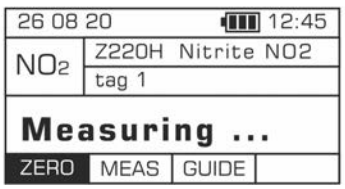
   Take exactly 5 ml of the tested water with the syringe and pour into the vial.

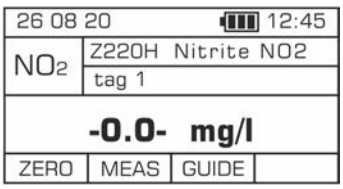
   NOTE:
   Make sure no air bubbles are present in the syringe.
   Trapped air bubbles can affect accuracy of the measurement.



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.







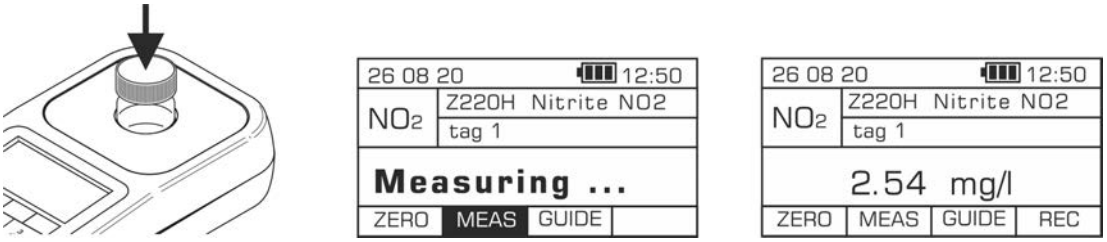
4. Add 7 drops of **Reagent NO_2-1** and shake gently to mix.

5. Wait 15 seconds before adding Reagent NO_2-2.

6. Add 7 drops of **Reagent NO_2-2** and shake to mix.

7. Wait 5 minutes before taking a measurement.

8. 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** ◀4 6▶ 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