

Method Z410 – Iron Fe

Specification

Description:	Test for determining the content of iron in fresh and marine water
Range:	0,05-10 mg/l
Resolution:	0,01 mg/l
Wavelength:	520 nm

Reagent set

Product Code	Description	List of components
8410	Set of reagents for method Z410, Iron Fe (reagents for approx. 30 tests)	<ul style="list-style-type: none"> ✓ powder Reagent Fe ✓ spatula

Performing the measurement

- Select the **Z410 Iron Fe** method (**Methods** → **Select method** → **Z410 Iron Fe**).
How to select the method, see [8.1 Choosing method](#).

NOTE:

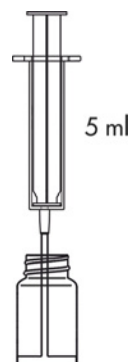
It is recommended to use the **GUIDE** system by pressing the context button **GUIDE** on the photometer. It will provide you with step-by step basic instruction how to perform measurement and a timer with beeper to count down reaction time. To enable this function press the button **GUIDE**.

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

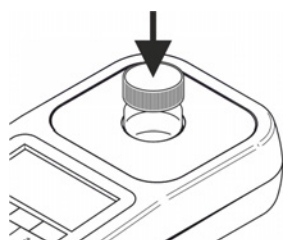
Take exactly 5 ml of the tested water with the syringe and pour into the vial.

NOTE:

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



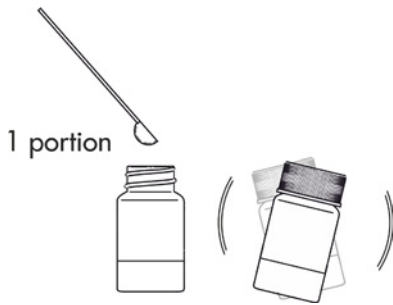
- Insert the vial into the round vial holder and press the **ZERO** key. The display will show **"-0.0-"**, which means the device is ready for measurement.



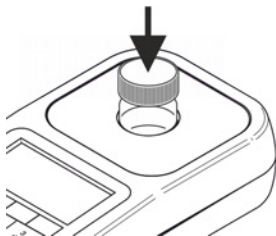
26 08 20		12:35	
Fe	Z410 Iron Fe		
	tag 1		
Measuring ...			
ZERO	MEAS	GUIDE	

26 08 20		12:35	
Fe	Z410 Iron Fe		
	tag 1		
-0.0- mg/l			
ZERO	MEAS	GUIDE	

4. Add 1 portion of **powder Reagent Fe** with the spatula into vial, shake until the powder has dissolved.
5. Before taking a measurement, wait exactly **5 minutes**.



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



26 08 20		12:40	
Fe	Z410 Iron Fe		
	tag 1		
Measuring ...			
ZERO	MEAS	GUIDE	

26 08 20		12:40	
Fe	Z410 Iron Fe		
	tag 1		
0.15 mg/l			
ZERO	MEAS	GUIDE	REC

Potential interferences

the presence of:

- copper (Cu) - above 5 ppm
- nickel (Ni) - above 5 ppm
- zinc (Zn) - above 5 ppm
- cadmium (Cd) - above 5 ppm

may interfere with the measurement