

## Method Z621 – Active oxygen MPS

### Specification

Description:	Test for determining the content of active oxygen in fresh water
Range:	0,1 - 30 mg/l
Resolution:	0,1 mg/l
Wavelength:	470 nm

### Reagent set

Product Code	Description	List of components
8621	Set of reagents for method Z621, Active oxygen MPS (reagents for approx. 50 tests)	<ul style="list-style-type: none"> <li>✓ Blister with tablets DPD No. 4 – 5 pcs.</li> <li>✓ crusher</li> </ul>

### Performing the measurement

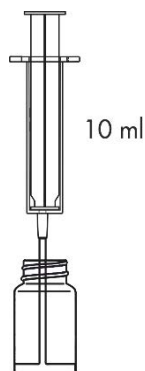
1. Select the **Z621 Active oxygen MPS** method (Methods → Select method → Z621 Active oxygen MPS). How to select the method, see [8.1 Choosing method](#).

**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.

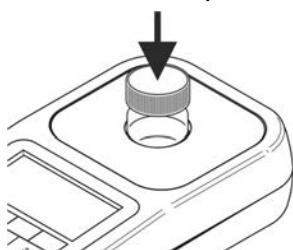
Take exactly 10 ml of the tested water with the syringe and pour into the vial.



**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.



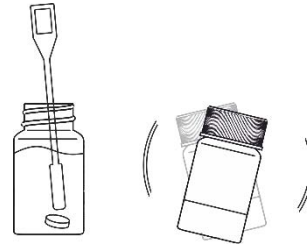
26 08 20		12:35
MPS	Z621 Active oxygen	tag 1
<b>Measuring ...</b>		
←	ZERO	GUIDE →

26 08 20		12:35
MPS	Z621 Active oxygen	tag 1
<b>-0.0- mg/l</b>		
ZERO	MEAS	GUIDE

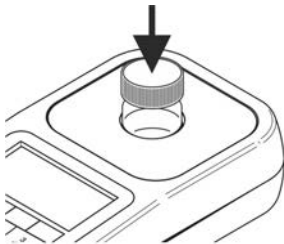
4. Add one DPD No. 4 tablet into the vial with water.



5. Crush the tablet in the vial with the crusher, recap the vial and shake until the tablet has dissolved.



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



26 08 20		12:36	
MPS	Z621 Active oxygen	tag 1	
<b>Measuring...</b>			
ZERO	MEAS	GUIDE	

26 08 20		12:36	
MPS	Z621 Active oxygen	tag 1	
<b>5.10 mg/l</b>			
ZERO	MEAS	GUIDE	REC

## Potential interferences

the presence of:

bromine (Br), iodine (I), ozone (O<sub>3</sub>),  
oxidised form of chromium (Cr) and manganese (Mn)

may interfere with the measurements

alkalinity above 14 °d

may cause falsely low readings