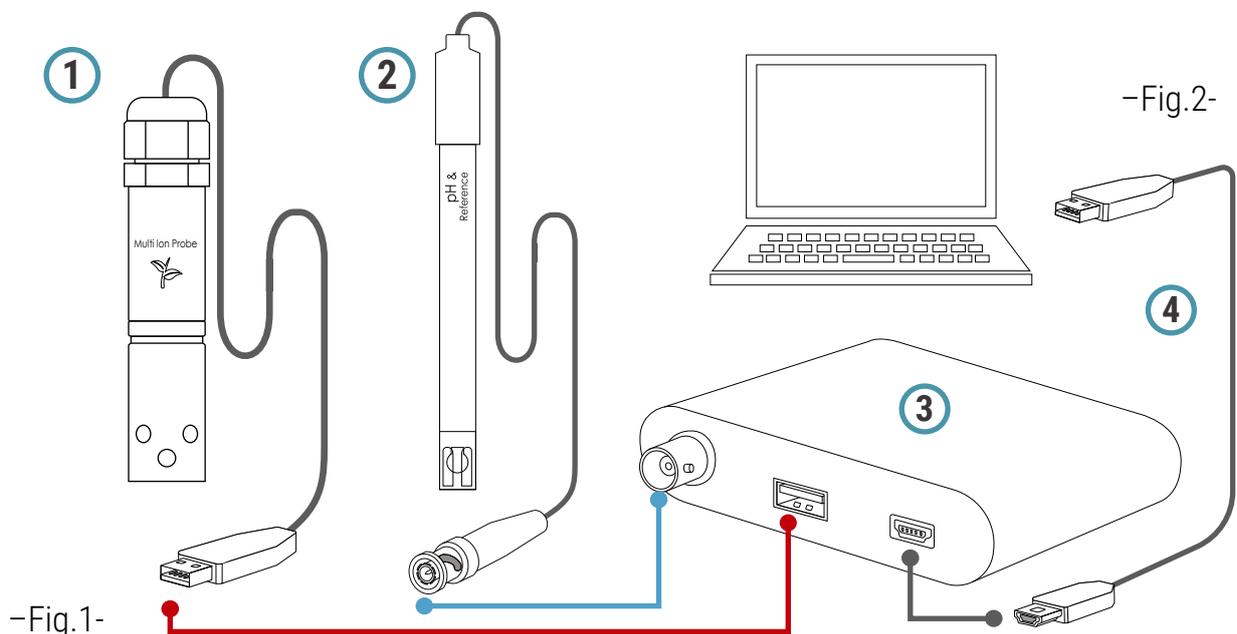




## Content

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## Software download for Windows

- A. Software is available at <http://software.imacimus.com>
- B. Download the file to your Windows laptop, computer or tablet and proceed with the installation.

## Equipment installation

1. Connect Multi Ion and pH probe to the multichannel meter. –Fig.1-
2. Plug the meter to your Windows computer or tablet using the USB cable. –Fig.2-
3. Run the software. Meter is automatically detected as the software is started for the first time.  
*To restart automatic detection configuration → reset.*
4. Probe configuration. If you have acquired all the parameters (7 ions) the probe is preconfigured. Otherwise, you must configure/add a new probe. - See user manual -

## Stand case/holder preparation

1. Shake vigorously the standard solutions before use it.
2. Fill each flask approx.  $\frac{3}{4}$  of its volumen from the appropriate solution.

*During the calibration and measurement process, the bottles should not be removed from the case. The case is used as support for the probes during the processes.*

 **Renew/ refresh solutions after 3 calibrations**

## Multi Ion probe conditioning

*When conditioning is not necessary neither to connect the probe to the meter nor to the computer meter/probe to computer*

1. Take off the rubber cap from the probe rolling in clockwise direction  
- Image 1 -
2. Place the probe in the conditioning solution provided. - Image 2 -

### CONDITIONING TIMES

1st use / + 15 days not being used **30 min -4h**  
Daily or weekly use **15 min**

3. Once the time has passed, rinse the Multi Ion probe with deionized water (not included) and dry externally with absorbent paper.

 **Electrodes tips are extremely sensitive. Take special care when drying with the tissue paper the probe**



# Calibration

## 1. pH electrode calibration

 Don't move the probes during the calibration process.

### 1. Preparation

Run the software. Go to menu "Calibration"  
 Select pH solution in the left configuration section.  
 Unscrew the bottle and remove the pH probe. - Image 3 -  
*Rinse with plenty of deionized water and dry externally.*

### 2. pH4 calibration

Introduce the probe in pH4 Standard (red) and press   
 Remove the probe when it is indicated to move to the next standard.  
*Rinse with plenty of deionized water and dry externally.*

### 3. pH7 calibration

Introduce the probe in pH7 Standard (green) and press   
 Remove the probe when the software indicates the end of the calibration, .  
*Rinse with plenty of deionized water and dry externally.*



## 2. Two probes calibration Multi Ion + pH

### 1. Standard 1 calibration

Place the Multi Ion probe and the pH probe in the Standard 1 flask.  
 Select calibration solution "HP08" and press   
 When appears the message "Insert the probe in pattern number 2" remove the probes and dry externally with absorbent paper WITHOUT RINSE.

### 2. Standard 2 calibration

Place the two probes in the Standard 2 flask and press   
 When the message "Insert the probe in pattern number 3" is displayed, remove the probes and dry externally with absorbent paper WITHOUT RINSE.

### 3. Standard 3 calibration

Place the two probes in the Standard 3 flask and press   
 Once the calibration process is finished, RINSE with deionized water and dry the probes externally with absorbent paper.

*The results of the calibration will appear in a pop-up window:*

 **Correct calibration**

 **Renew Standards or replace the electrode**

*In case of incorrect calibration you can continue with the analysis of the remaining parameters.*



## Measurement

1. Fill the flask with the sample.
2. Pulse "Measurement" 
3. Place the probes (pH and Multi Ion) in the sample and press 

*Once the analysis process is finished, the results appear on the screen.*
4. Clean the probes with deionized water and dry externally.

» Edit and customize the description name of the sample

» Export data to excel or copy to the clipboard



## Maintenance and storage

1. Close the application and disconnect USB cable from the computer.
2. Clean the probes with deionized water and dry externally.
3. Storage

**pH probe:** Place the pH probe in its bottle and screw.

**Multi Ion probe:** Put on the black cap.

*If the Multi Ion probe will not be used the next day it is important to dry it internally. Unscrew the protection and dry the sensors with absorbent paper. Screw and cover again with the cap.*

**Support case:** Clean the bottles periodically.



### Electrodes maintenance

Avoid contact of the electrodes with strong acids or highly alkaline solutions, detergents, surfactants and / or PVC solvents.

Avoid exposure in solutions that contain high contents of interfering ions that can poison the membrane.

Rinse with deionized water after each sample.

Do not leave the electrodes in deionized water.

Do not touch, grate or hit the tip of the electrode.

Do not store at temperatures above 30°C.