

# Calibration guide



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# INTRODUCTION

## - What is the purpose of calibration?

The regular calibration of your pH (blue) and Redox (orange/yellow) sensors allows you to ensure that the readings taken by your ICO are accurate and thus to optimize its performance. Furthermore, it helps you to maximize the lifespan of your sensors.

## - At what point should I calibrate my sensors?

ICO is calibrated by default at the factory. Then you should calibrate your sensors at the start of every season, starting from the 2<sup>nd</sup> one, before getting your pool back up and running to ensure that you start the season in the best possible condition.

Furthermore, if at any moment during the season you have a doubt about the accuracy of your pH and Redox readings don't hesitate to re-calibrate the sensors in order to ensure that the readings are as accurate as possible.

## What do I need to calibrate my sensors?

Ondilo created a calibration kit to help you calibrating your ICO sensors.

You can buy it on <u>https://ondilo.com/en/produit/ico-calibration-kit-2/</u> or directly from your ICO dealer.

You can also ask your pool specialist for regular:

470 mV solution (for ORP sensor)4.01 pH solutionand 7.01 pH solution (for pH sensor)



CALIBRATION KIT

## - Where should I calibrate my sensors?

You should calibrate your sensors in a dry and clean area (to avoid possible impurities) at room temperature. Also remember to dry your hands and your ICO before handling it.

# CONTENTS PAGE

INTRODUCTION	2
CONTENTS PAGE	3
USAGE PRECAUTIONS	4
ICO LOCATION	4
SAFETY INSTRUCTIONS	4
ORP SENSOR SOLUTION	4
PH SENSOR SOLUTION	5
CALIBRATION	6
PH PROBE CALIBRATION (blue)	8
ORP PROBE CALIBRATION (yellow)	11
TO FINISH	13

# USAGE PRECAUTIONS

You are about to realize the calibration of the ORP and/or pH sensors of your ICO connected device.

1

## ICO LOCATION

The calibration must be realized with ICO out of water. Do not turn it off, rinse it and dry it softly.

Remove only the sensors protection cap



## SAFETY INSTRUCTIONS

Don't leave these products within reach of children.

Store your solutions away from light and at room temperature (+15 to +25°C).

These solutions can be disposed of in the sewer system.

We would like to remind you that these **pH and ORP solutions are for single use** and should not be kept after opening (shelf-life after opening is 1 day).

## ORP SENSOR SOLUTION

**C E** This product complies with EC Regulation No. 1907/2006



**Danger**: May be corrosive to metals. Causes severe skin burns and eye damage. Wear protective gloves, protective clothing, eye protection and face protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. P390 Absorb spillage to prevent material damage. Contains: SULPHURIC ACID

After use, wash your hands with soap and water.

### PH SENSOR SOLUTION

Non-harmful product according to Directives 67/548/EEC and 1999/45EC concerning the classification, packaging and labelling of dangerous preparations.

Wash your hands with soap and water after use.

When cleaning your pH (blue) sensor, do not rub the optical bulb underneath it, as it may be damaged.



Your sensors must be soaked with products to a minimum height of 1.5 cm (0.6 inches).



Take all the usage precautions and protections about the calibration products utilisation.

# CALIBRATION

## 1. Open your CALIBRATION KIT.

Inside you will find the 3 solutions as well as a calibration stand. Place the stand on a table.

**2.** Open your ICO app and **click on the remote control** in the main menu



**3. Make sure your phone is close enough to your ICO** (3 meters/ 10 feet max) and turn on the Bluetooth on your smartphone (make sure you authorized ICO app to use Bluetooth in your phone settings).



NB: You may have to turn on **Location** too in order to activate Bluetooth connection. ICO app will let you know if necessary.

4. Click on the probe you wish to calibrate:

"<u>Calibration pH probe</u>"

OR

"Calibration ORP probe"



### PH PROBE CALIBRATION (blue)

- Take ICO out of water **and dry it as well as your hands**.
- Remove the sensors cap if not already done. DO NOT REMOVE THE SENSORS.
- Clean the sensor. Here are 2 options to do so:

Carefully shake the bottom of your ICO in a tank containing demineralized water

or

Using a pipette (or other nozzle container), spray 1 or 2 sprays on your sensor

In both cases, gently dry it with a non-abrasive, non-electrostatic cloth or paper towel

- Place the pH 4 solution inside the calibration stand

- **Place ICO steadily in the stand**, each sensor fitted in one of the hole.









:38 🗳 🚭 ▼ § 47% **James' pool** Saint-Cannat \* pH sensor To calibrate your pH sensor, ICO needs to take a measurement. Use the **4.01 pH** calibration solution as specified in the calibration manual. Before continuing, make sure your phone remains close to ICO. 0-0-0-0

**James' pool** Saint-Cannat pH sensor Make sure your phone remains close to ICO... ⊘-0-0

WAIT

O 💎 🛿 47%

\*

3:38 🗳 😪 🕤 🔹



PRESS CONTINUE

PRESS START

If you did other calibrations before, reset to factory settings first.

Then **click on «Calibrate »** and follow the instructions

- Empty the stand, **rinse it and dry it.** Take ICO, rinse it and dry it
- Place the **pH 7** solution inside the calibration stand, and press START



#### PRESS START

	▼ ¥ 54.
	▼ ₩ 32.
James' pool	*
Saint-Cannat	
pH sensor	
pH measure done!	
<b>⊘</b> − <b>⊘</b> − <b>⊘</b> − <b>◎</b>	
Previous Sav	e

CLICK ON SAVE



## WAIT FOR ICO TO CALIBRATE



#### SAVE THE NEW SETTINGS

## ORP PROBE CALIBRATION (yellow)

- Take ICO out of water **and dry it as well as your hands**.
- Remove the sensors cap if not already done. DO NOT REMOVE THE SENSORS.



- Clean the sensor. Here are 2 options to do so:

Carefully shake the bottom of your ICO in a tank containing demineralized water

or

Using a pipette (or other nozzle container), spray 1 or 2 sprays on your sensor

In both cases, gently dry it with a non-abrasive, non-electrostatic cloth or paper towel

 Place the ORP 470mV solution inside the calibration stand.
If you did the pH calibration before that, rinse and dry ICO and the calibration stand before you start.



- Place ICO steadily in the stand, each sensor fitted in one of the hole.





- If you did other calibrations before, reset to factory settings first.

- Then  $\ensuremath{\text{click}}$  on  $\ensuremath{\text{ clibrate }}\ensuremath{\text{s}}$  and follow the instructions

### PRESS START



WAIT



#### SAVE THE SETTINGS



# TO FINISH

- 1. Clean your container with clear water.
- 2. Put back the sensors protection cap on your ICO.



- 3. Put back your ICO in the pool.
- 4. Shake it lightly so that the product films left on the sensors can be diluted in your pool water.



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