ZODIAC®

pH Link

Dual Link

Instructions for installation and use
English

EN
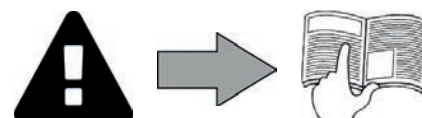
WARNINGS

GENERAL WARNINGS

- Failure to respect the warnings may cause serious damage to the pool equipment or cause serious injury, even death.
- The appliance is intended for a specific pool use and must not be used for any use other than that for which it was designed.
- It is important that the equipment is operated by competent and qualified (both physically and mentally) people who have previously received the instructions for use. All persons not meeting these criteria must not approach the appliance in order to avoid exposure to dangerous elements.
- Keep the appliance out of the reach of children.
- The device must be installed by a qualified technician according to the manufacturer's instructions and in compliance with local regulations. The installer is responsible for installation of the equipment and for compliance with national installation regulations. Under no circumstances can the manufacturer be held liable in the event of failure to comply with applicable local standards.
- Incorrect installation and/or use may cause serious damage to property or serious injuries (possibly causing death).
- All equipment, even postage and packing paid, travels at the risks and perils of the recipient. The consignee shall make reservations in writing on the carrier's bill of lading if damage is detected, caused during transport (confirmation to be sent to the carrier within 48 hours by registered mail with acknowledgement of receipt). In the event of a device containing coolant that has been turned on its side, mention your reservations in writing to the carrier.
- If the appliance suffers a malfunction, do not try to repair the appliance yourself, contact a qualified technician.
- Refer to the warranty conditions for details of the permitted water balance values for operating the appliance.
- Eliminating or shunting one of the safety devices automatically voids the warranty, as does the replacement of parts using parts not manufactured by ourselves.
- Do not spray insecticide or any other chemical (inflammable or non-inflammable) in the direction of the appliance, as this may damage the body and cause a fire.
- Heat pump, filtration pump and filter appliances are compatible with all types of water treatment.
- For heat pump appliances or dehumidifiers, do not touch the fan or insert a rod or your fingers through the grating when the appliance is in operation. The fan rotates at high speed and may cause injuries or even death.

WARNINGS ASSOCIATED WITH ELECTRICAL APPLIANCES

- The electrical supply to the appliance must be protected by a dedicated 30 mA differential residual current protection device, complying with the standards and regulations in force in the country where it is installed.
- Before carrying out any operations, check that:
- The voltage indicated on the maker's plate of the appliance corresponds to the mains voltage,
- The power grid is adapted to the power requirements of the appliance, and is grounded.
- The plug (where applicable) is suitable for the socket.
- In the event of abnormal function or the release of odours from the appliance, turn it of immediately, unplug it from its power supply and contact a professional.
- Before any intervention on the appliance, ensure that the latter is switched off and disconnected from the power supply, in addition to any other equipment connected to the appliance, and that the heating priority (where applicable) is deactivated.
- Do not disconnect and reconnect the appliance to the power supply when in operation.
- Do not pull on the power cord to disconnect it from the power supply.
- Do not handle the electrical elements with wet hands.
- Clean the terminal board or the power supply socket before connection.
- For any component or sub-assembly containing a battery: do not recharge or dismantle the battery, or throw it into a fire. Do not expose it to high temperatures or direct sunlight.
- In stormy weather, unplug the appliance to prevent it from suffering lightning damage.
- Do not immerse the appliance in water (with the exception of cleaners) or mud.

Recycling

This symbol means that your appliance must not be thrown into a normal bin. It will be selectively collected for the purpose of reuse, recycling or transformation. Any substances it may contain which are potentially dangerous to the environment shall be eliminated or neutralised.
Request information on recycling procedures from your retailer.

Contents

EN

1. Information before installing

1.1 Contents

1.1.1 pH Link module

pH Link module	POD kit	pH sensor	Buffer solution pH 7.5
Accessory bag (counterweight + securing clip, PTFE tape and stoppers)		suction + injection hose (5 meters)	Hole saw, 22 mm

1.1.2 Dual Link module

Dual Link module	POD kit	pH sensor	ACL sensor	Hole saw, 22 mm
Accessory bag (counterweight + securing clip, PTFE tape and stoppers)		suction + injection hose (5 meters)	Buffer solution pH 7.5	Buffer solution 700 mV

1.2 Technical specifications

	pH Link module	Dual Link module
Supply voltage	Low voltage (connected to the power pack)	
Peristaltic pump flow rate	1.8 L/h	
Maximum back pressure (injection)	1.5 bar	
pH and ACL sensor type	combined, ABS 1/2'' NPT threaded body (pH = blue / ACL = red)	
pH and ACL sensor electrolyte	KCl polymer	
pH and ACL sensor cable(s)	1.5 meters shielded, BNC plug (pH = blue / ACL = red)	
pH correction	acid (pH minus only)	

	pH Link module	Dual Link module
pH minus dosage	Proportional cyclic	
pH sensor tolerances	Flow speed 2 metres/second - 5 bar / 60°C	
Measurement scale & pH sensor accuracy	pH 0.0 to pH 12.0, ± 0.1 pH	
pH sensor calibration	1 point, pH 7.5	
ACL sensor tolerances	/	Flow speed 2 metres/second - 5 bar / 60°C
	/	10 ppm maximum (shock chlorination)
Measurement scale & ACL sensor accuracy	/	100 mV to 1000 mV / ± 10 mV
ACL sensor calibration	/	1 point, 700 mV
pH and ACL sensor response time	< 15 seconds	
Dimensions (w x h x d)	28.5 x 15.5 x 7.5 cm	
Weight (module only)	1 kg	
Protection index	IP23	

2. Installation

2.1 Preparing the pool: water balance

The Zodiac® electrolyser or hydroxinator are designed to disinfect pool water.
With the pH Link module, it automatically maintains the pH value of your pool.
With the Dual Link module (electrolyser only), it automatically maintains the pH value and chlorine level (ACL or Redox potential) of your pool.

It is essential that the pool water balance is controlled and adjusted before installing the appliance. Making sure that the pool water balance is correct from the very start will reduce the likelihood of encountering problems on the first days of operation or during the season the pool is in use.

> **ⓘ** Even if it is an automatic control system, it is essential to analyse the water regularly to check the water balance parameters.

	Unit	Recommended values	To increase	To reduce	Test frequency (in the season)
pH	/	7.2 – 7.4	Deactivate dosage or add pH+	Automatic (pH minus Perfect pH- or pH-)	Weekly
Free chlorine	mg/L or ppm	0.5 – 2	Increase ACL set point or add chlorine	Decrease ACL set point or turn off the unit	Weekly
TAC (alkalinity or buffering power)	°f (ppm)	8 – 15 (80 – 150)	Add alkaline corrector (Alca+ or TAC+)	Add hydrochloric acid	Monthly
TH (calcium hardness)	°f (ppm)	10 – 30 (100 – 300)	Add calcium	Add a calcium carbonate sequestering agent (Calci-) or carry out carbonate removal	Monthly
Cyanuric acid (stabiliser)	mg/L or ppm	< 30	/	Partially empty the pool and refill it	Quarterly
Metals (Cu, Fe, Mn…)	mg/L or ppm	± 0	/	Add a metal fixer (Metal Free)	Quarterly

2.2 Installing the pH Link or Dual Link module

- Turn off your power pack then the filtration by cutting off the main electricity supply in order to isolate the installation.
- Close the isolating valves in the pipework.
- Remove the silver cover by pressing the sides and raising it (**1**), then unscrew the four screws attaching the original (empty) lower module to the power pack (**2**).
- Remove the empty module (**3**).
- Unpack and connect the BNC cable from the pH sensor to the module (**4**).
- Position the BNC plug on the screw head (**5**), then connect the module ribbon (**6**).
- Remove the BNC cable (**7**).
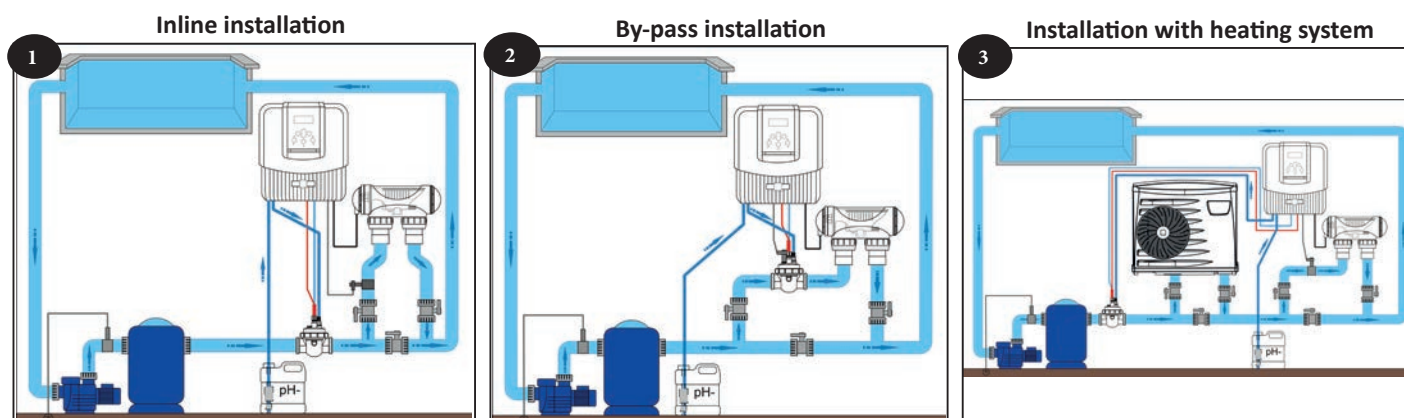- Put the pH Link or Dual Link module in position, replace the four screws and replace the silver cover.
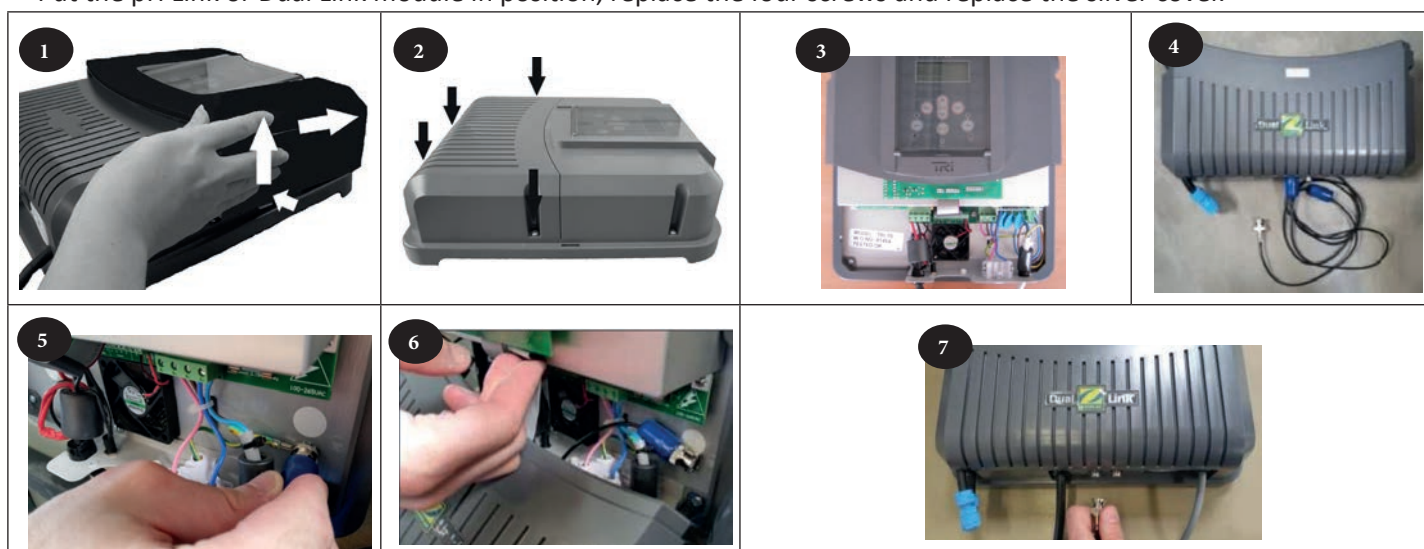
⚠ • Do not reconnect the electricity supply until the pH Link or Dual Link module, the sensor-holding POD Kit and the pH minus injection pipe have been installed (see "2.3.3 Installing the pH minus injection line").
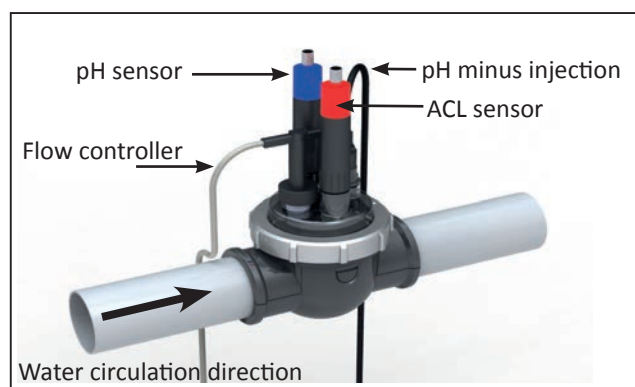
2.3 Installing the POD Kit

The sensor-holding POD Kit is a single assembly including the flow rate detector (used by your appliance, see "2.3.2 Installing the flow switch"), the pH and ACL sensors and pH minus injection.

⚠
- The cell bypass valves must always be open.
- The sensor-holding POD Kit must always be positioned on a horizontal pipe so that the sensors are vertical (**1** or **2**).
- The POD Kit must be the first unit fitted after the pool filter.
- If the pool is fitted with a heating system (heat pump, heat exchanger, electric heater, etc.), the POD Kit must be installed before it (**3**) (to take readings on unheated water).
- We recommend positioning the POD Kit more than 20 cm from an elbow in the pipe.
- The sensor cables must not be positioned near high voltage mains electricity cables.

Inline installation   By-pass installation   Installation with heating system

pH sensor — pH minus injection
ACL sensor
Flow controller
Water circulation direction

ℹ️ A badly-installed sensor may give false readings and cause inappropriate operation of the appliance. Neither the manufacturer nor the unit shall be liable in this event.
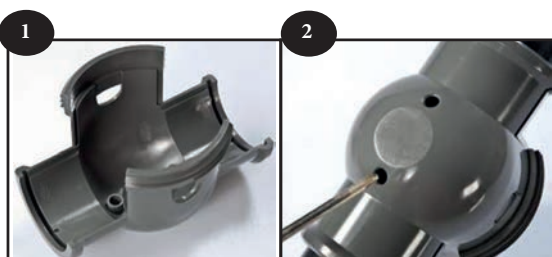

Identify a suitable length (minimum 30 cm, without elbow) of straight pipe.
- Dismantle the POD Kit and keep the lower part with 2 holes (**1**).
- Turn the lower part of the collar upside down and place it in the position where you want to install it on the pipe.
- Use a center-punch or marker pen to mark the position of the holes to be made in the pipe (**2**).
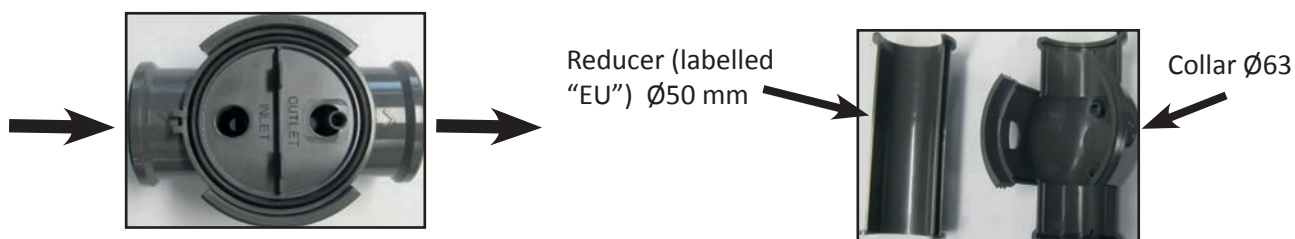- Using the holes saw supplied, cut the 2 feed holes for the POD Kit.

⚠️ **Ensure that the edges of the holes are smooth and deburred!**
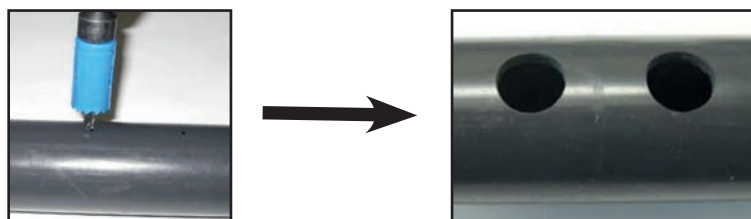
- Place the upper part of the POD Kit on the pipe, sliding it into the previously-drilled holes.

ℹ️ The arrows on the upper part of the POD collar show the direction of water flow.

Reducer (labelled "EU") Ø50 mm

Collar Ø63

- Click the 2 parts of the POD Kit collar together around the pipe. For a Ø50 mm pipe, use the reducer labelled 'EU'. Do not use this reducer for a Ø63 mm pipe.
- Position the upper part of the POD Kit with its various components in the direction indicated by the foolproof locating notch and tighten the locking ring firmly (hand-tighten only).

2.3.1 Installing the pH and ACL sensors

- Carefully unscrew the protection cap from the sensor (**1**).
- For a first installation: rinse the end of the sensor with tap water and shake off excess water.
- For a restart after wintering: clean the sensor, see «4.1 Nettoyage de la/des sonde(s)», then calibrate it before installing it, see «3.3 Calibrage de la/des sonde(s)».
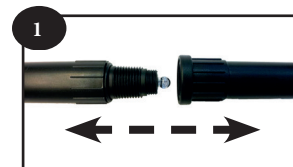

> ⚠ **Never wipe the sensor using a cloth or paper tissue, as this may damage it!**

- Screw the sensor into the threaded hole on the POD Kit until the O-ring seal on the sensor comes in contact with the POD kit (**2**). Do not use excess strength. If necessary, use the supplied Teflon band.
- Connect the supplied BNC cable to the top of the sensor.

> ⚠ **Do NOT screw/unscrew the sensors while they are still connected to their BNC cables. Disconnect the cables beforehand to avoid damage.**
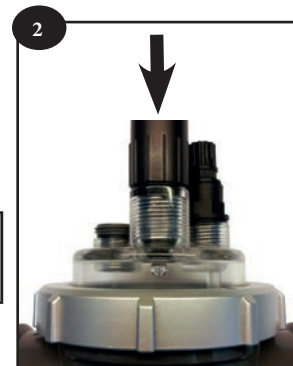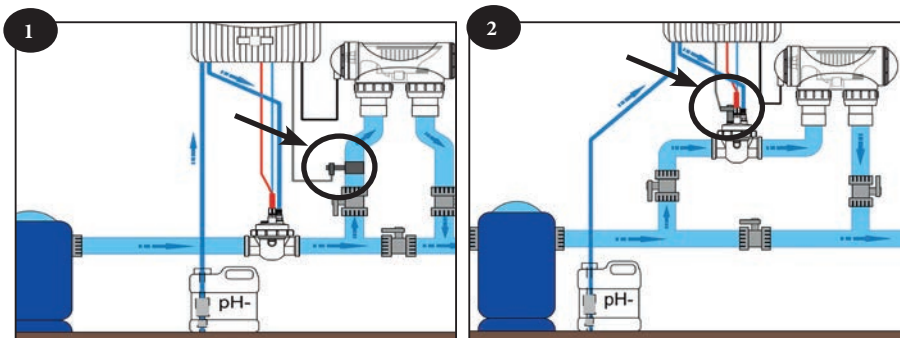
- Once the sensors are installed they may be connected to the BNC sockets on the power pack named " pH" (blue) and "ACL" (red). They must now be calibrated (see "3.3 Calibrating the sensor(s)").

2.3.2 Installing the flow switch

2 positions possible:

- After the upstream valve if the cell is in by-pass (**1**)

- On the POD kit, if the cell is inline (**2**)

a) pH Link or Dual Link module installed at the same time as the power pack.

- Locate the flow switch supplied with the power pack.
- Place the flow switch into the seat provided on the POD Kit.
- Tighten the flow controller using the tightening nut only (tighten by hand!).

> ⚠ **The arrow that indicates the water flow rae on the top of the flow switch must be perfectly parallel with the pipes on which the POD kit is positioned.**
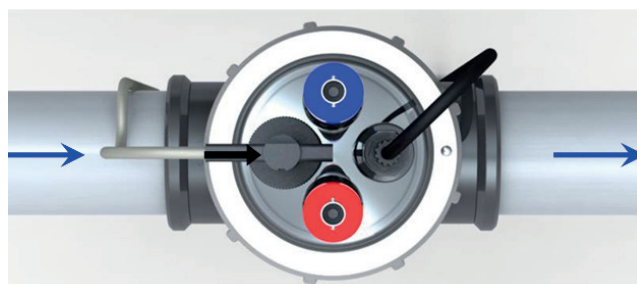
b) pH Link or Dual Link module added to an installation already equipped with a power packl

When the swimming pool already has a power pack, the flow switch is already installed. Leave the flow switch in place. Unscrew the threaded adaptor located on the POD Kit and replace it with the stopped supplied to seal the hole.

### 2.3.3 Installing the pH minus injection line

> ⚠️ **When handling chemical products, always use appropriate safety equipment (safety glasses, gloves and jacket).**

a) Installing the injection line (peristaltic pump > non-return valve)

- Remove the protective cover from the peristaltic pump,
- Cut a suitable length of pipe from the coil supplied to connect the peristaltic pump to the injection non-return valve located on the POD Kit
- Attach the pipe to the threaded connector on the peristaltic pump outlet.
- Attach the other end of the pipe to the injection non-return valve.

b) Installing the intake pipe (container > peristaltic pump)

- Cut a suitable length of pipe from the coil supplied to connect the container of pH minus to the peristaltic pump.
- Attach the pipe to the threaded connector on the peristaltic pump inlet.
- Make a hole to fit the diameter of the intake pipe in the cap of the pH minus container and another smaller hole to avoid the container distorting as the product is sucked up.
- Pass the free end of the pipe through the hole made in the cap and put the ceramic counterweight and threaded locking nozzle on the end.
- Ensure that ALL connections are correct and watertight before operating the pH Link or Dual Link module.
- Replace the protective cover on the peristaltic pump.

pH Link
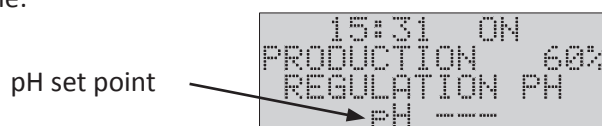Dual Link

pH-

POD
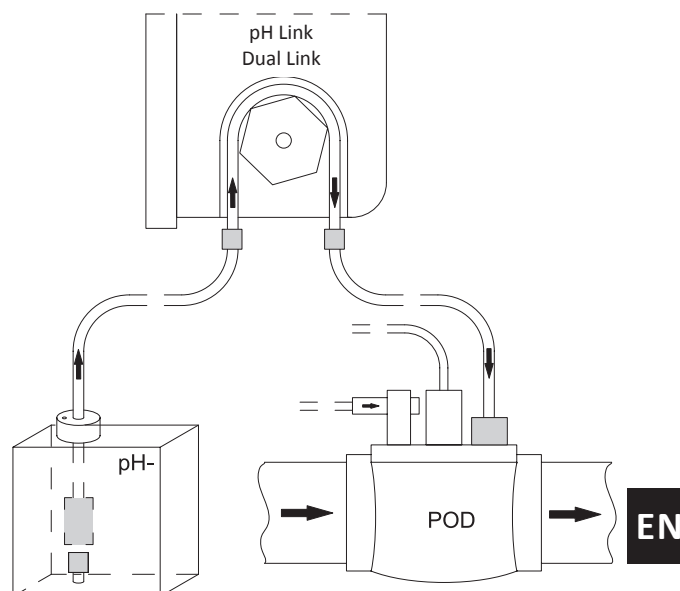
3. Use

3.1 Activating the module

The power pack automatically detects the presence of a pH Link or Dual Link module. It is now ready to be used with automatic pH control using the pH Link module or pH and ACL control using the Dual Link module.
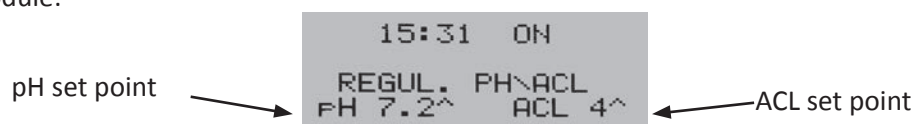
3.2 Display

The LCD screen will display 2 extra lines:
- pH Link module:


```
    15:31  ON
PRODUCTION    60%
  REGULATION PH
      pH ---
```

pH set point

- Dual Link module:


```
    15:31   ON

  REGUL. PH\ACL
pH 7.2^    ACL 4^
```

pH set point

ACL set point

A '^' symbol appears to the right of the set point if the value measured by the equipment needs to be corrected automatically (pH of water in the pool higher than the set point and/or insufficient chlorine level). Then pH minus is injected and/or chlorine produced automatically according to the defined cycles.

> ℹ️ By default, pH regulation (peristaltic pump in the module) is disabled and the LCD screen will display 'pH ---'. It is enabled automatically about 8 hours after being turned on. To enable pH regulation immediately and so display the set point on the LCD screen, (see "3.6.2 Activating / deactivating the peristaltic pump").

3.3 Calibrating the sensor(s)

> ⚠ • To operate accurately and reliably, the sensors must be calibrated before using the power pack with the module. To maintain maximum efficiency of the unit, we recommend calibrating at least once every 2 months during the period the swimming pool is being used.

- Ensure the sensors are cleaned before calibration (see «4.1 Cleaning the sensor(s)»).
- Confirm that the power pack is plugged in,
- Stop the pool pump and isolate the sensors by closing any valves, so as to be able to remove the sensors safely.
- Disconnect the BNC cable from the top of each sensor then remove them (unscrew) from the POD. Then reconnect the BNC cable to the sensors.
- Rinse the end of the sensors with clean water and shake them to remove excess water. Do not touch or wipe the glass bulb at the end of the sensors.

- Put the pH sensor into a sample of the pH7.5 buffer solution supplied.
- Put the ACL sensor into a sample of the 700 mV buffer solution supplied.
- Leave the sensors immersed for about 1 minute to obtain a reliable measurement.

- Press (MENU) or (↩) the use the (⬆) or (⬇) keys to display "CALIB. PH" or "CALIB. PH\ACL",
- then press (SELECT) or (❋).

- Use the (⬆) or (⬇) keys to display "CALIBRAGE PH" (pH Link and Dual Link) or " CALIBRAGE ACL" (Dual Link only) then press (SELECT) or (❋).

Note the measured value:

- pH = 'X.X'
  - If the value is greater than 8.2 or less than 6.4: the sensor is dirty or has been damaged during transport. Clean the pH sensor (see "4.1 Cleaning the sensor(s)") then repeat the above steps. If the problem persists, contact your reseller.
  - If the value is between 6.4 and 8.2, press (SELECT) or (❋) to begin calibration. The procedure takes about 15 seconds.

```
CURRENT PH=7.8          CALIBRATING            CURRENT PH=7.5

SELECT=CALIBRATE          PLEASE WAIT...       SELECT=CALIBRATE
MENU=EXIT                                      MENU=EXIT
```

  - When calibration is finished, check that the value displayed equals 7.5, otherwise repeat the calibration.

- ACL = 'XXX'

  - Start the calibration procedure by pressing (SELECT) or (❋), the procedure lasts about 15 seconds,

```
CURRENT ACL=640         CALIBRATING            CURRENT ACL=700

SELECT=CALIBRATE          PLEASE WAIT...       SELECT=CALIBRATE
MENU=EXIT                                      MENU=EXIT
```

  - If the value is 700: calibration is correct,
  - If the value is not 700: repeat the calibration steps. If the problem persists, clean the sensor, see "4.1 Cleaning the sensor(s)",
  - Press (MENU) or (↩) or wait 30 seconds to exit.

3.4 Adjusting the set point(s)

The set point is displayed continuously on the LCD home screen.
The default setting for the pH set point is pH7.2 (pH Link and Dual Link modules).
The default setting for the ACL set point is 4 (Dual Link module).
This value provides the ideal compromise to achieve optimum efficiency in terms of water disinfection.

- Calibrating the sensors (see "3.3 Calibrating the sensor(s)").
- Press (MENU) or (↩) the use the ⬆ or ⬇ keys to display "CALIB. PH" or "CALIB. PH\ACL", then press (SELECT) or (※).
- Use the ⬆ or ⬇ keys to display 'PH SET POINT' or 'ACL SET POINT', then press (SELECT) or (※).
- Use the ⬆ or ⬇ keys to change the set point value.
- Press (MENU) or (↩) or wait 30 seconds to exit.

> ℹ️
> - The ACL set point displayed does not match the free chlorine concentration in the pool. This is the desired level of 'disinfection potential' in the water.
> - The ACL set point required to reach the optimum chlorine level is different in every swimming pool. A period manual measurement of free chlorine level in the pool is therefore necessary to adjust this ACL set point.
> - To increase the chlorine production potential: increase the ACL set point.
> - To decrease the chlorine production potential: decrease the ACL set point.

> ⚠️
> **Dual Link module only:**
> **We recommend that you check the free chlorine level in the pool a few days after the module is installed to determine if the rate is ideal (0.5 to 2 ppm, see "2.1 Preparing the pool: water balance"). If, after this period, the free chlorine level is unsuitable, the ACL set point must be changed.**

3.5 Setting the pool volume

List of levels with corresponding volumes:
- Level 1: For small pools up to 40 m³
- Level 2: For mid-size pools from 40 to 60 m³ (default level)
- Level 3: For large pools between 60 and 110 m³
- Level 4: For very large pools over 110 m³

> ℹ️
> - These values are for guidance only; the choice may vary according to the conditions of use.
> - When the volume of the pool is at the limit between 2 levels, it is better to use the higher level.
> - However, we recommend not 'over-sizing' the choice of level, to avoid using too much pH minus.
> - A dose of pH minus is injected into the pool every 2 hours (when the filtration and water treatment systems are running).

- Press (MENU) or (↩) the use the ⬆ or ⬇ keys to display "CALIB. PH' or 'CALIB. PH\ACL", then press (SELECT) or (※).
- Use the ⬆ or ⬇ keys to display 'POOL VOLUME', then press (SELECT) or (※).
- Use the ⬆ or ⬇ keys to select the desired level appropriate to the pool size.
- Press (SELECT) or (※) to confirm the choice then press (MENU) or (↩) or wait 30 seconds to exit.

3.6 Peristaltic pump

3.6.1 Test / priming the peristaltic pump

After installation, we recommend testing the peristaltic pump for the module and priming it (system self-priming).

> ⚠️ • Before testing the peristaltic pump, ensure that all pH minus suction and injection pipes are correctly connected.
> • Visually check that the peristaltic pipe is not stuck.
> • Always use appropriate safety equipment when handling chemical products.

- Switch on the power pack (⏻ button).

- Press (MENU) or (↺), then use the ⬆ or ⬇ keys to display "CALIB. PH" or "CALIB. PH\ACL", then press (SELECT) or (✳) .

- Use the ⬆ or ⬇ keys to display "TEST DOSAGE".

- A warning will be displayed briefly, then press (SELECT) or (✳) to confirm starting the pump. The peristaltic pump will operate for about 30 seconds and will stop automatically.

- If the pump must be stopped immediately, press (MENU) or (↺) .
- Confirm that the pump is primed (pH minus solution will be visible in the translucent pipes).

> ℹ️ To prime the peristaltic pump more quickly, it may be necessary to repeat these steps several times, depending on the length of the pH minus feed line.

3.6.2 Activating / deactivating the peristaltic pump

For safety reasons the peristaltic pump is not activated when delivered.
When the pH Link or Dual Link module is connected to the power pack, the peristaltic pump is programmed to start approximately about 8 hours after being turned on. During this period, the default display on the LCD screen will show "pH ---".
To activate the peristaltic pump immediately:

- Press (MENU) or (↺), then use the ⬆ or ⬇ keys to display "CALIB. PH" or "CALIB. PH\ACL" then

press (SELECT) or (✳) .

- Use the ⬆ or ⬇ keys to reach the "DOSAGE OFF" (or "DOSAGE ON" line if the pump had previously been activated).

- Press (SELECT) or (✳) to activate the peristaltic pump ("DOSAGE ON") or deactivate the peristaltic pump ("DOSAGE OFF").

4. Maintenance

4.1 Cleaning the sensor(s)

pH sensor	ACL sensor

- Turn off the filtration system and close the necessary valves in order to safely remove the sensor from the POD Kit (or collar) and prevent any possible leaks.
- Rinse the sensor in clean water under the tap (1 minute). Remove any excess water by shaking (do not dry the sensor using a cloth).

- **Brush the active parts of the sensor (the junctions and the metal strip) using a toothbrush (1 minute):**

Joints

Metal strip

- Wash the sensor by placing it in a diluted hydrochloric acid solution* (2 minutes).

  *Hydrochloric acid is a hazardous chemical that may cause burns, lesions and irritations.
  It must be handled with care using the required personal protective equipment (gloves, goggles, coveralls).
  Refer to the substance's material safety data sheet for more information.

  - **This cleaning solution is commercially available in a ready-for-use format.**
  - **Preparing a hydrochloric acid solution: Dilute 1 mL (10 drops) of commercially-available hydrochloric acid (HCl 37 %) in 50 mL of tap water (1/2 glass of water). <u>Always pour the hydrochloric acid into the water.</u>**
  - **<u>The reverse method can lead to acid projections.</u>**
  - **Once cleaning is complete, dispose of the solution according to the standards in effect in the country of use.**

- Rinse the sensor again in clean water under the tap (1 minute). Remove any excess water by shaking (do not dry the sensor using a cloth). Reposition the sensor on the POD Kit (or collar) on the system. Open the valves and restart the filtration system.

Cleaning complete.

For cleaning taking place during installation	For routine cleaning (approximately every 2 months)

For a new sensor (or after an extended storage period outside of water), an activation time is necessary, ranging from 30 minutes to 72 hours (depending on the sensor reference and storage conditions). During this time period, the sensor cannot detect the ACL level of the pool.

Troubleshooting can be performed on the ACL sensor in the event of blocked or very low ACL measurements

(see relevant procedure)

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4.2 Wintering

- Rinse the peristaltic pipe by pumping clean water instead of pH minus solution, using the "TEST DOSAGE" function (see "3.6.1 Test / priming the peristaltic pump").
- Unscrew the POD sensors (disconnect their BNC cable beforehand). Place them in their original protective caps or in a container filled with tap water.
- If necessary close the POD holes using the threaded stops.

> ⚠ **NEVER leave a sensor to dry and/or exposed to the risk of frost, which would permanently damage it.**

5. Troubleshooting

> ⚠
> - **Before you contact your reseller, please carry out these few simple checks using the following table if a problem occurs.**
> - **If the problem continues contact your reseller.**
> - 🔧 **: Actions reserved for a qualified technician**

Message	Causes	Solutions
PH LOW	The measured 0.8 PH units or more below the set point	Check the pH in the pool
		Check the set point
		Calibrate or replace the pH sensor
	The pH sensor is dirty, out of calibration or not working	Clean and calibrate the sensor
		Replace the pH7.5 buffer solution if necessary
	The pool size setting is too large	Check the selected pool size
PH ERROR	pH adjustment has performed 5 cycles without reaching its set point (> 10 hours)	Check the pH in the pool
		Calibrate or replace the pH sensor
	The pH minus container is empty	Replace the container
	The peristaltic pump is not primed	Test the peristaltic pump
	The pH sensor is dirty, out of calibration or not working	Clean and calibrate the sensor
		Replace the pH7.5 buffer solution if necessary
	The pool size setting is too small	Check the selected pool size
	The peristaltic pump has not been operated for a total of more than 72 hours	The pH in the pool does not need to be corrected
ACL HIGH	The measured Redox potential is more than 150 mV above the set point (the chlorine level may be excessive)	Clean and calibrate the sensors
		Wait until the error message disappears (no chlorine production)
	The pH is too low	Make sure that the stabiliser is lower than 30 ppm
		Reduce the ACL set point
		Make sure that the water's alkalinity level is OK (well and rain water prohibited)
ACL ERROR	The ACL regulation authorised chlorine production for a total of over 30 hours without waiting for the ACL set point	Check the pH in the pool
		Clean and calibrate the sensors
		Replace the buffer solutions if necessary
		Replace the sensors
		Use "Boost" mode if necessary
	The appliance has not produced any chlorine for a total of over 30 hours	Check the pH in the pool
		Clean and calibrate the sensors
		Replace the buffer solutions if necessary
		Replace the sensors

Observation	Causes	Solutions
ACL VERY LOW or ACL BLOCKED	Water balance incorrect	Check the water balance parameters (see «2.1 Preparing the pool: water balance»)
	Excess chlorine stabiliser	Partially drain the pool then top up with fresh water (then check the salt rate).
	The 700 mV buffer solution is no longer effective	Check that the 700 mV buffer solution's manufacturing date is less than 2 years old, and is in good condition.
	The sensor needs cleaning	Clean the sensor (see «4.1 Cleaning the sensor(s)»)

If the problem continues contact your reseller .

> ℹ To cancel the "PH ERROR" and "ACL ERROR" messages, press [SELECT] or [✳] for 3 or 4 seconds when the message appears.
> The other codes are only information messages that disappear automatically when the operating conditions return to optimal.

6. Product conformity

This appliance is intended to be installed exclusively on the Zodiac® electrolyser or hydroxinator.
This appliance has been designed and manufactured to be in conformity with the applicable requirements of the following standards: EN 60335-1

Relative to which it is compliant. The product has been tested under the normal conditions of use.

CE

ZODIAC®

Votre revendeur
Your retailer

Modèle appareil
Appliance model

Numéro de série
Serial number

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