

# SWIMMING POOL FALL DETECTOR

## Sensor PREMIUM™

### INSTALLATION AND OPERATION GUIDE

#### READ CAREFULLY AND KEEP FOR REFERENCE

### CONTENTS

<b>1</b>	<b>Contents of the package</b> .....	3
<b>2</b>	<b>Operating principle</b> .....	4
<b>3</b>	<b>Installing Sensor Premium™</b> .....	5
	Tools required for installation:.....	5
3.1	Attachment of rigid tube.....	6
3.2	Inserting the batteries.....	6
3.3	Choice of location.....	8
3.4	Temporary installation.....	9
3.5	Installation tests.....	10
3.6	Final installation.....	13
3.7	Validation tests.....	17
<b>4</b>	<b>Using Sensor Premium™</b> .....	20
4.1	I want to have a swim.....	21
4.2	Automatic restart.....	22
4.3	Manual restart.....	23
4.4	Too much wind.....	24
4.5	TESTS mode.....	24
4.6	Complete stop.....	24
4.7	Replacing the batteries.....	25
4.8	I have a problem with my immersion detector.....	27
4.8.1	Two regular beeps are heard.....	27
4.8.2	I cannot find the cause of my problem.....	27
<b>5</b>	<b>Frequently asked questions</b> .....	28
<b>6</b>	<b>Further information</b> .....	29
<b>7</b>	<b>Guarantee and After-Sales Service</b> .....	32
<b>8</b>	<b>Monthly tests</b> .....	34

Thank you for purchasing an Aquasensor immersion detection system.

This swimming pool immersion detector complies with French standard NF P90-307/A1.

#### WARNINGS

- **This alarm system is not a replacement for common sense or individual responsibility. Its purpose is not to be a replacement for vigilance by a parent or responsible adult, which remains the vital factor in protecting children under five.**
- **This alarm is a protective device which signals a danger (or danger risk). A responsible adult must take quick action within 3 minutes of the sounding of the alarm signal. “Responsible adult” means an adult person who is aware of the danger, who can swim, and who is capable of giving help in the pool.**
- **In no event can your retailer, the distributor or the manufacturer of the alarm system be held responsible for any person or animal falling or drowning. In no event must the installation of your alarm system reduce your vigilance or replace active monitoring of the swimming pool and the area around it.**
- **You must always check that the alarm can be heard from the residence/living quarters. Depending on the layout of the residence/living quarters in relation to the swimming pool, it may be necessary to move the safety, alarm and failure signals so they can be heard from the dwelling/living quarters. This must be checked during installation. Should it be necessary to supplement your immersion detector with a remote siren, fit in a Sensor Domo™ remote sound alarm. CONTACT YOUR RETAILER FOR ADVICE.**
- **Regularly check the water level in your pool, especially when the weather is very hot, or rainy, or if it has been windy for several days. To ensure proper operation of your immersion detector, the immersion level must imperatively be 22cm (+/- 3cm). If this instruction is not complied with, your immersion detector will not work properly.**
- **Place permanent signs to inform people that the pool and the area around it are monitored electronically.**
- **The magnets must be kept out of the reach of children.**
- **The performance as defined in standard NF P90-307/A1 is not guaranteed beyond wind levels greater than those specified in this standard.**

**This guide will enable you to:**

- Understand the operating principle of your immersion detection system;
- Position and install your immersion detection system according to the characteristics of your swimming pool;
- Perform regular operating tests on your immersion detection system.

**Within 7 days following your purchase, FILL OUT, SIGN and RETURN to the Manufacturer the TEST VALIDATION SHEET by mail, at the following address:**

**MG International  
ZI Athelia II  
13600 La Ciotat - France**

**In case of negligence or non-receipt of the test validation sheet, the guarantee related to your Sensor Premium™ alarm system cannot be applied (if it is missing from the packaging, immediately inform your retailer).**

## 1 Contents of the package

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Despite the careful attention we pay to the quality of our products and their packaging, you are requested to check the contents inside the package, according to the type of your immersion detector.

<b>COMPONENTS</b>	<b>SENSOR PREMIUM™</b>
1 central unit with its black flexible tube (Warning! the black flexible tube is fitted to the unit, do not pull on it)	<b>X</b>
1 rigid tube	<b>X</b>
4 LR20 alkaline batteries	<b>X</b>
1 attachment kit (screws, washers, joints, rawplugs, 2 magnet key-rings)	<b>X</b>
1 test validation sheet for the guarantee	<b>X</b>
1 conformity declaration sheet	<b>X</b>
The terms of guarantee at the end of this guide	<b>X</b>
1 Sensor Domo™ remote siren	<b>OPTIONAL</b>

To get additional magnets, contact your retailer.

## 2 Operating principle

- How does Sensor Premium™ work?

The on-board technology of your immersion detector enables continuous monitoring of the pool. In the event of a fall into the pool, your immersion detector sets off the siren in accordance with the requirements of French standard NF P90-307/A1.

You must deactivate your immersion detector monitoring mode before having a swim. (Look up item 4.1)

After your swim, your immersion detector automatically resumes monitoring of the pool once it has become still again. (Look up item 4.1)

The new Sensor Premium™ technology includes a continuous pool analysis system.

- Sensor Premium™ signal principles:

### General operation

STATUS	Signals	
	Action	Visual
Your immersion detector is monitoring	With the magnet: 1 long, high-pitched beep	Green indicator light flashing
Your immersion detector is not monitoring	With the magnet: 5 short, high-pitched beeps	Red indicator light flashing
Your immersion detector is in partial monitoring mode	With the magnet: 1 short, high-pitched beep (look up item 4.3)	Red / green indicator light <b>flashing in turns</b>
Your immersion detector is switched off	With the 2 magnets: 15 short, high-pitched beep (look up item 4.6)	<b>All indicator lights off</b>
Your immersion detector is switching out of the TESTS mode	Specific tune (look up item 4.5)	–

### Failure signals

STATUS	Sound signals	
	With the magnet	Periodic
Low battery	4 short, low-pitched beeps	1 short, low-pitched beep every minute
<b>Your immersion detector has to be returned to the after-sales service</b>	–	<b>2 short, low-pitched beeps every minute</b>

### 3 Installing Sensor Premium™

#### INSTALLATION PRECAUTIONS

- **YOUR IMMERSION DETECTOR MUST BE INSTALLED IN GOOD WEATHER ON A STILL POOL.**
- **The alarm system must be installed at a location where the pool is at least 30 cm deep.**
- **Make sure that the water in your pool is clear and pure before installing your device.**
- **DO NOT USE AN ELECTRIC SCREWDRIVER to install the device.**
- **Some robot cleaners like the diving robot are incompatible with immersion detection systems.**

Your immersion detector is installed in 7 steps:

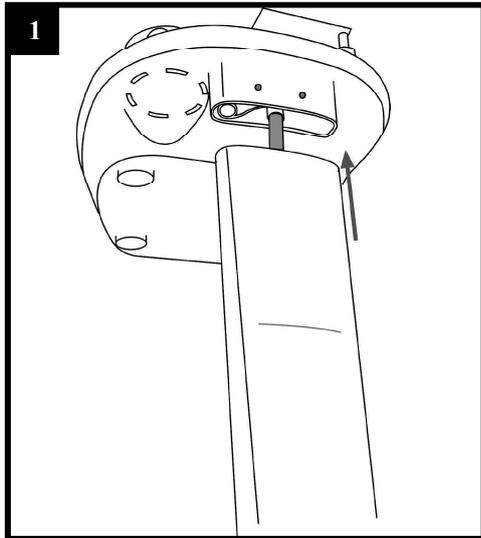
- 3.1 Attachment of rigid tube
- 3.2 Insertion of the batteries
- 3.3 Choice of location
- 3.4 Temporary installation
- 3.5 Installation tests
- 3.6 Final installation
- 3.7 Validation tests

**UTMOST VIGILANCE IS REQUIRED FROM THE PARENT/RESPONSIBLE ADULT DURING THE INSTALLATION OF YOUR IMMERSION DETECTOR**

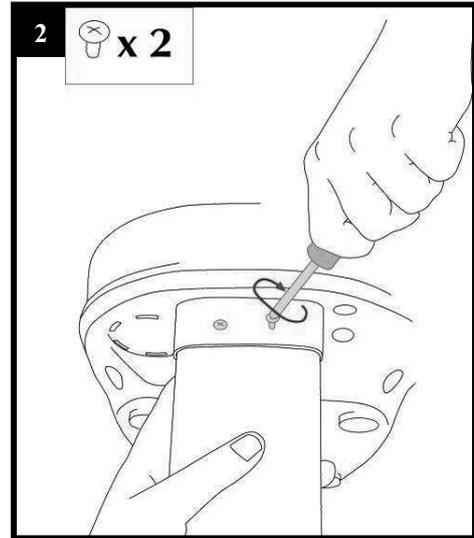
#### Tools required for installation:

- 1 Phillips screwdriver
- 1 tape measure
- Four 1.5 L. water bottles
- 1 roll of sticky tape
- 1 rope about 2 meters long.
- 1 drill with a Ø8 mm concrete bit
- 1 hacksaw
- 1 pair of shears or heavy-duty scissors

### 3.1 Attachment of rigid tube

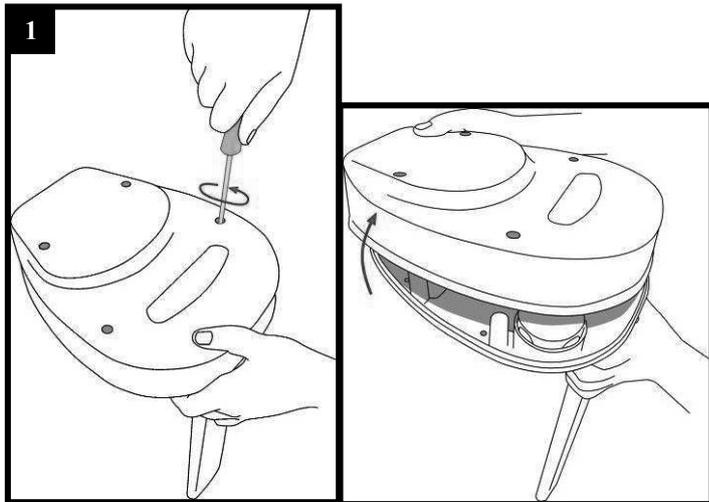


Carefully insert the rigid tube to a sufficient depth (about 3 cm).

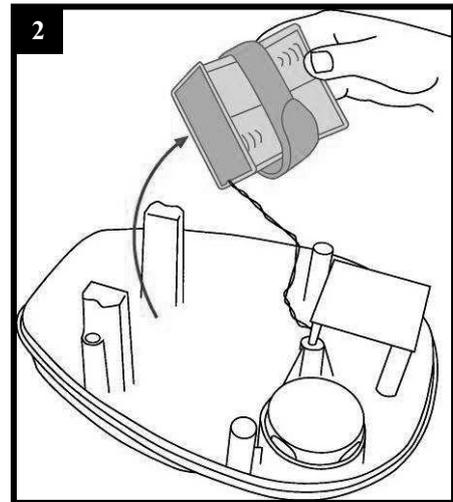


Screw the 2 self-drilling screws (provided with the attachment kit)

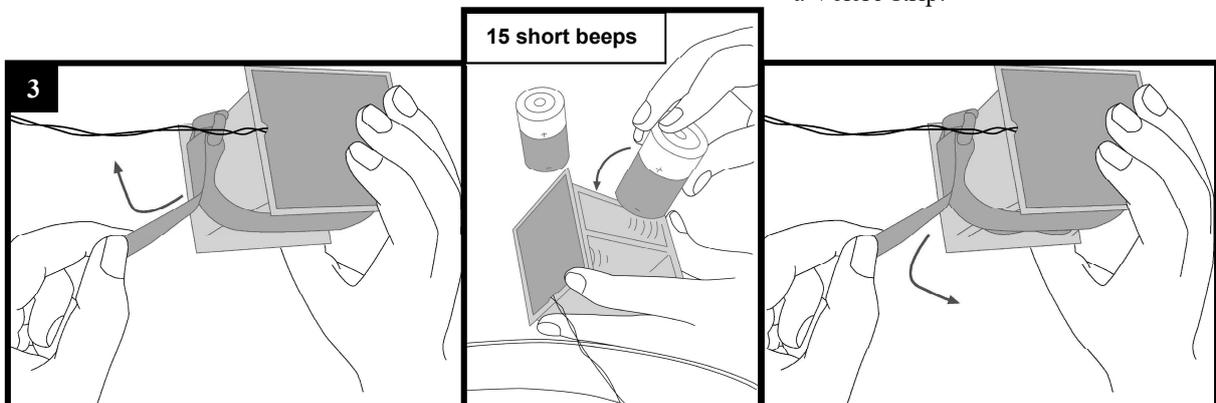
### 3.2 Insertion of the batteries



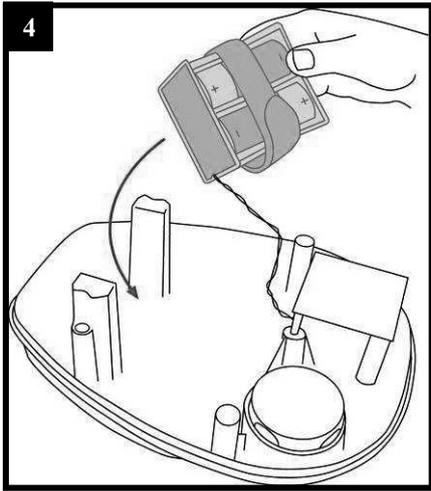
Unscrew the 4 screws and remove the cover.



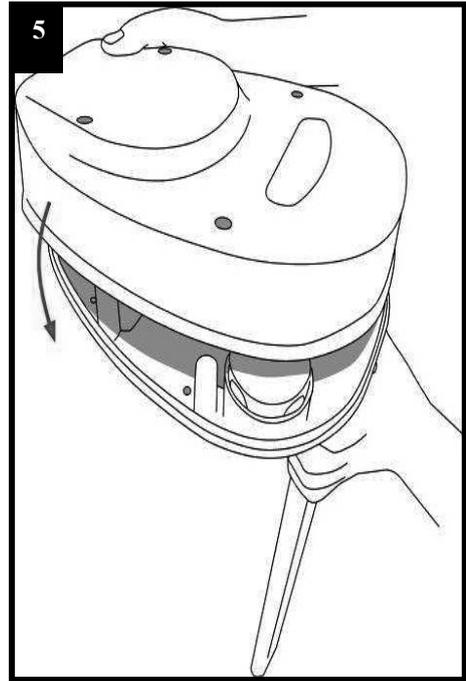
Remove the battery block fastened by a Velcro strip.



Insert the batteries, making sure the polarity is respected. Validation sound signal (15 short, high-pitched beeps). Your device is in "Off" mode.



Replace the battery block on the Velcro strip.



Replace cover without tightening the screws.

### 3.3 Choice of location

Your immersion detector must be **positioned in the center of the greatest length** of your swimming pool, on a coping (position recommended for rectangular swimming pools). If your pool does not correspond to the configurations shown below, **ask your retailer for advice**.



Ensure that the central unit is more than one meter away from the filtration system (return fittings, waste plug, skimmer, vacuum fittings, etc.) or waterfall or any other device that may disturb the pool at this place.



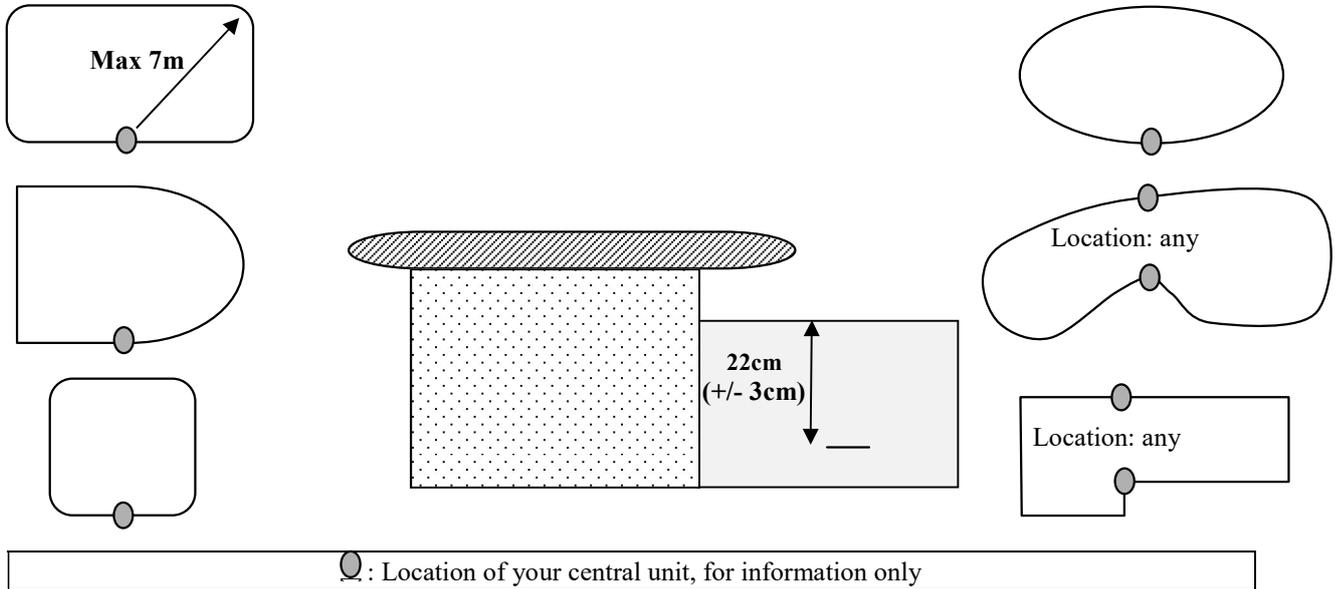
Your immersion detector has been designed and configured in accordance with standard NF P90-307/A1, and can be used in pools with maximum dimensions of 10 x 5 meters. Your immersion detector must not be further than 7 meters from all possible fall locations.



If your swimming pool is larger, it must be fitted with several immersion detector. Contact your retailer for advice.

In the case of a pool of a particular shape, ask your retailer for advice.

EXAMPLES:



Check that there is easy and practical access to the activation zone (where you place the magnet).

To ensure optimum operation, the probe must be immersed **22 cm ( $\pm$  3cm)** deep.

**If the water level has been deliberately lowered, suitable probe extenders are available from your retailer.**

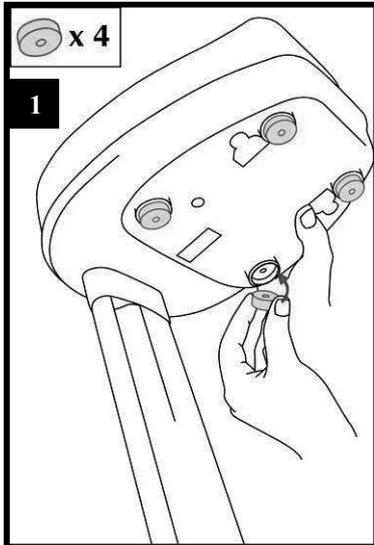


**The water level must be checked regularly, and brought back up if required to maintain an immersion depth of 22 cm ( $\pm$  3cm). The installation of a level controller is recommended. Contact your retailer for advice.**

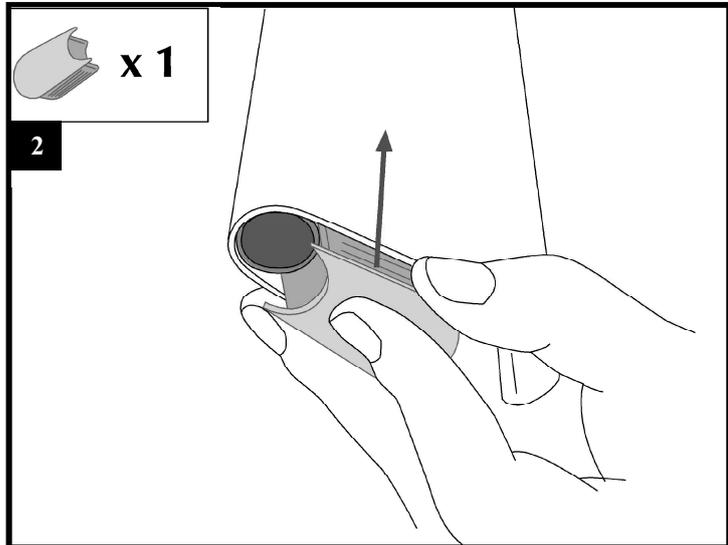
If the probe is immersed too deep or nor deep enough (or even not at all), your immersion detector will not be able to operate properly. Please make sure that the recommended immersion depth is respected.

### 3.4 Temporary installation

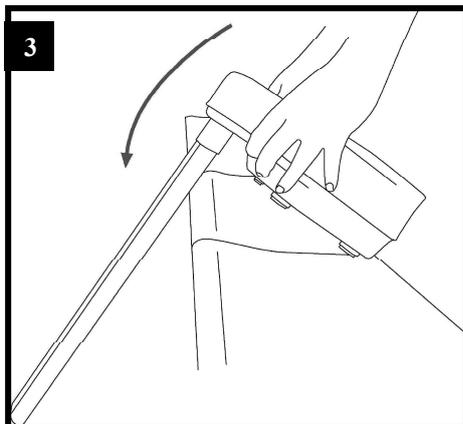
For installation tests, we recommend that you do not first switch off the probe, but you lift up the device (on a book, flat stone, brick, wooden board, etc.) to obtain an immersion depth of 22 (+/-3 cm). You must ensure that the device remains stable during the fall tests.



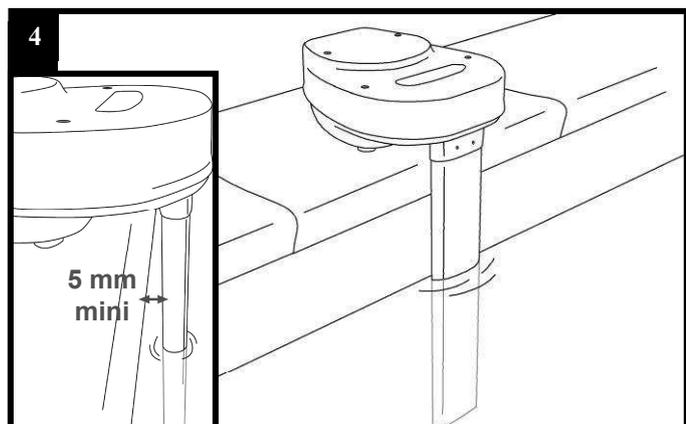
Place the 4 pieces of stabilizing foam.



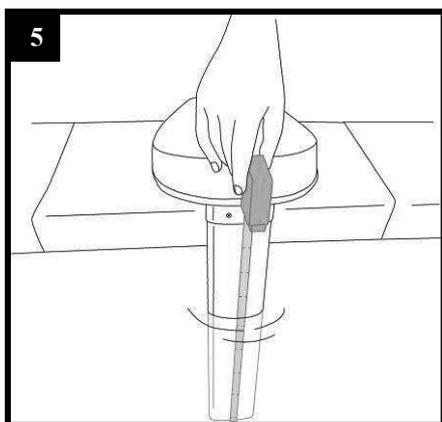
Place the wedge plug (included in the attachment kit) at the end of the tube.



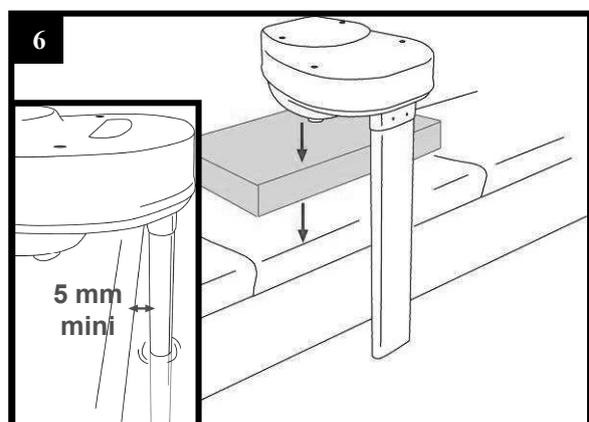
Position the device at the location selected.



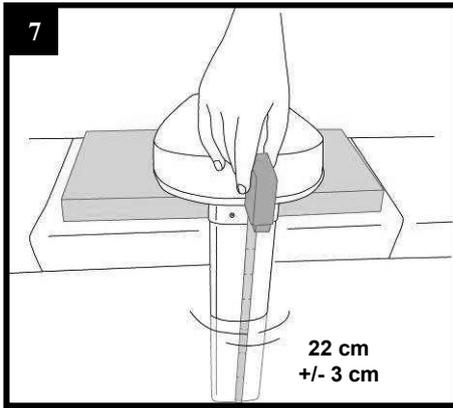
The rigid tube must be at least 5 mm from the edge of the coping.



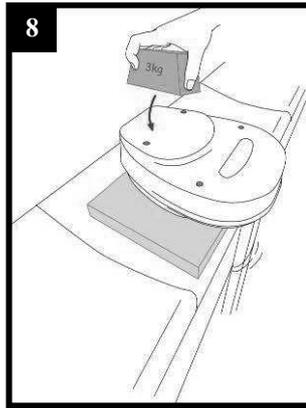
Check the immersion depth



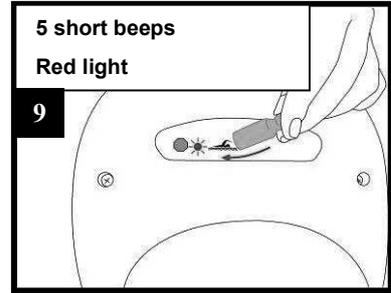
If your immersion depth is greater than 25 cm, use a booster (book, flat stone, brick, wooden board, etc.) which must not destabilize the central unit.



The immersion depth must be between 19 cm and 25 cm (ideally 22 cm).



Carefully place a 2 to 3 kg weight on the device to hold it in place.



Your device is in “complete stop” mode, and must be activated for the installation tests.



**Warning:** for the first 30 minutes after your device has been activated with the magnet for the first time, the siren sounds only for a short time, at a low volume. You are in TESTS mode. For more information on this mode, refer to item 4.5.

### 3.5 Installation tests

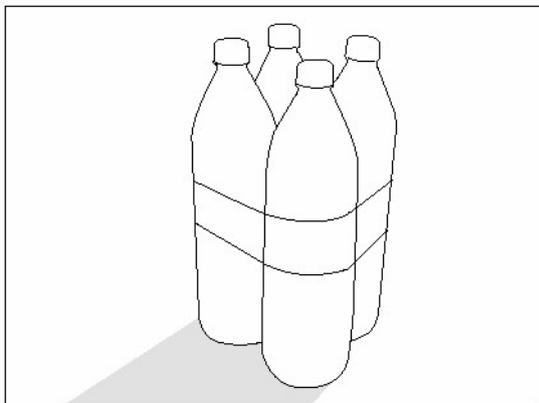
Make sure that the pool is still and that your immersion detector is monitoring (green indicator light flashing). If such is not the case, move the magnet over the swimmer symbol:



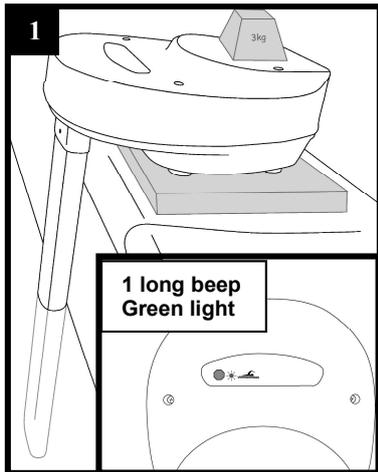
If in spite of this, the indicator light does not switch to green, this means that the pool is not still enough. You must wait for your pool to be still before carrying out the tests.

You must wait for about ten minutes without handling the device in any way, and with no disturbance in the pool, for your immersion detector to analyze its environment and become stable (green indicator light). It is only after this time that you will be able to perform the tests described below.

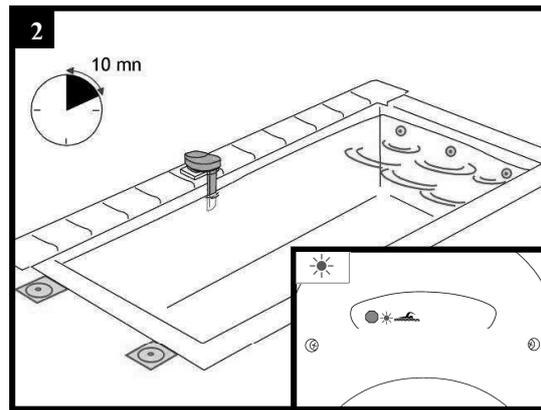
Prepare a 6 kg weight by tying together four 1.5 liter water bottles, as shown below:



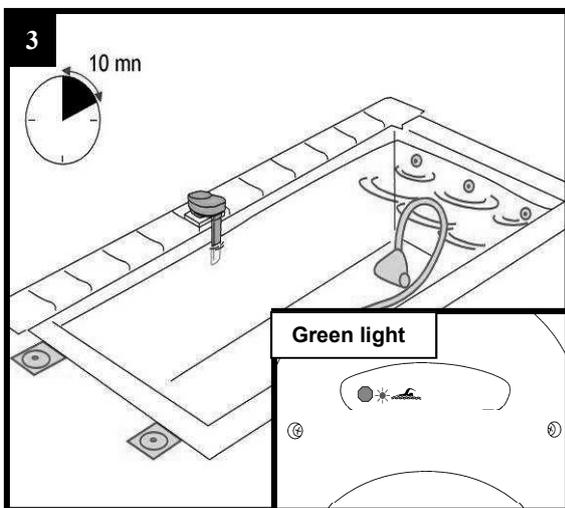
To make it easier for you to recover the 6 kg weight in the pool, we recommend that you tie a rope about 2 meters long around the neck of one of the bottles.



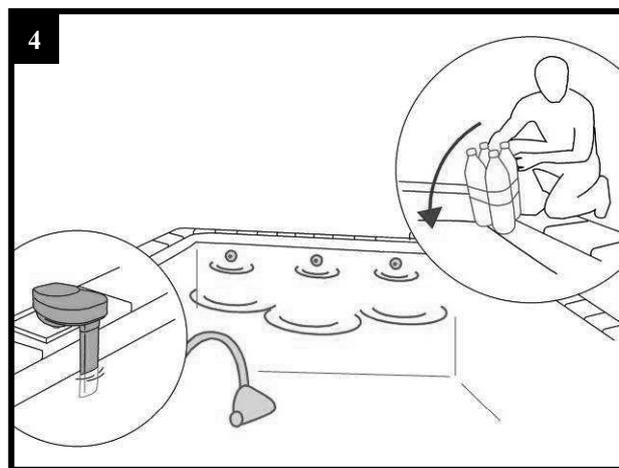
Your immersion detector is in monitoring mode (green indicator light flashing)



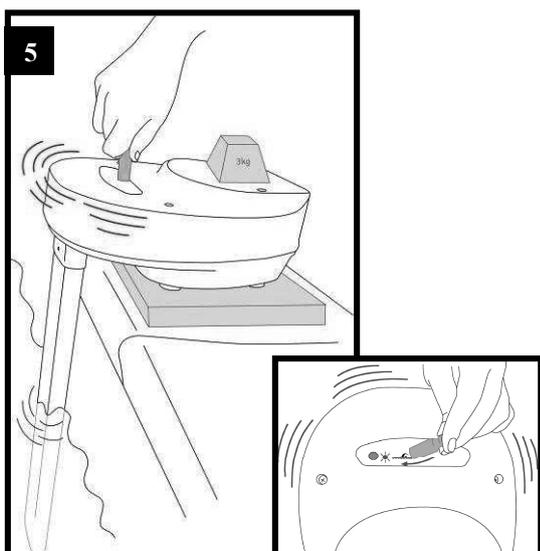
Filtering working for 10 minutes, your immersion detector is monitoring (green indicator light flashing).



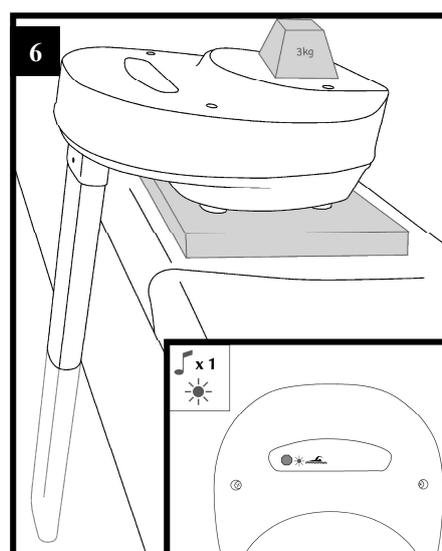
Filtering and robot cleaner working for 10 minutes, your immersion detector is monitoring (green indicator light flashing) and must not set off the alarm.



With the filtering system and robot cleaner working, drop the 6 kg weight from the top of the coping, from the point furthest away from your immersion detector.



The siren must sound a maximum of 12 seconds after the fall. Stop the siren using the magnet.



Wait for the automatic restart (green indicator light flashing). This may take about ten minutes.

**You must always perform additional fall tests at different locations in the pool (including steps) as per the procedure described above.**

**After each fall, allow your immersion detector to be automatically reactivated before the next fall. Depending on wind and pool disturbance conditions, this reactivation may take about ten minutes.**

**Warning: when your device switches out of TESTS mode (specific tune), the siren of your immersion detector will sound at full volume. You can reactivate the TESTS mode for an extra 30 minutes: to do this, please refer to item 4.5.**

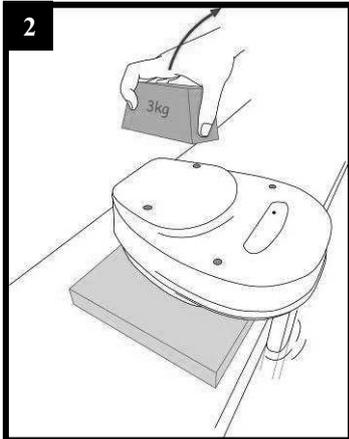
If one of these tests fails:

- **Look up item 5.**
- Contact your retailer for advice.
- Check with the MG International After Sales Service at 0891 025 026.
- Send a letter to the MG International technical department, clearly describing your problem, and leaving your details at the following address:  
infoconso@aquasensor.com

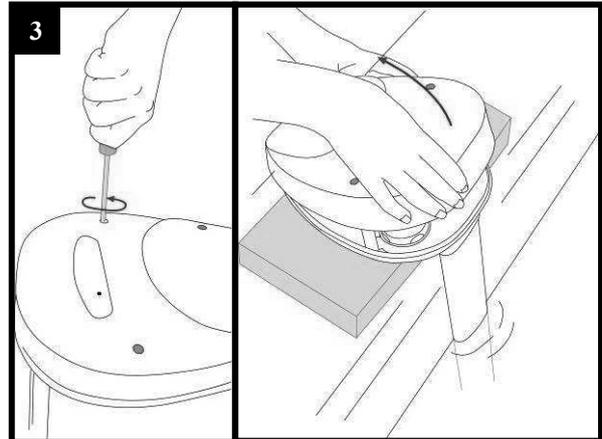
### 3.6 Final installation

You have successfully completed all your installation tests. You can now carry out the final installation of your immersion detector.

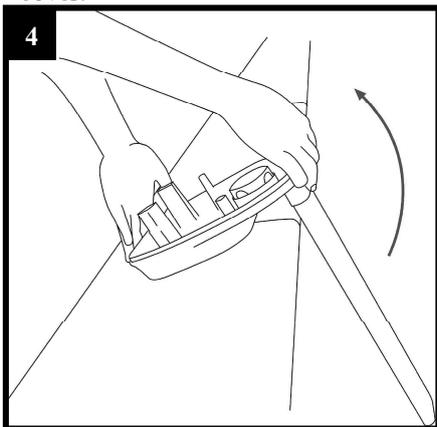
- 1 Bring your immersion detector to “off stop” mode (look up item 4.6) so that it can be handled freely during its final installation.



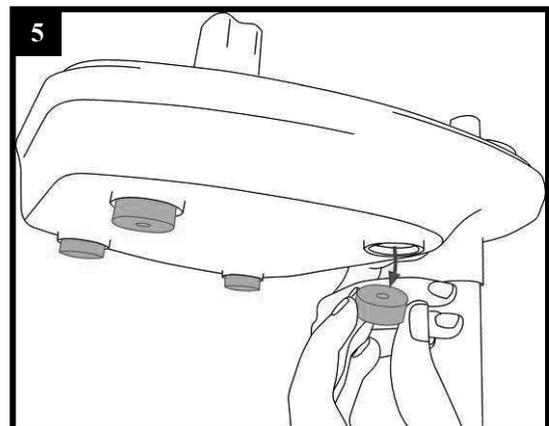
Remove the weight from the cover.



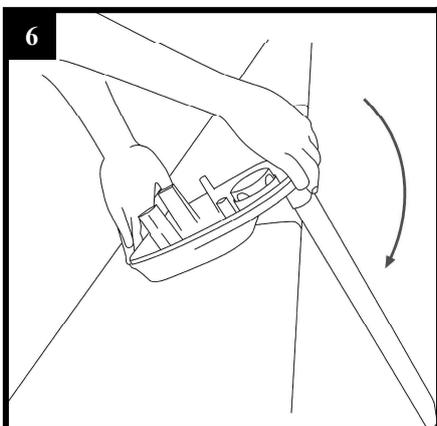
Unscrew the 4 screws and remove the cover.



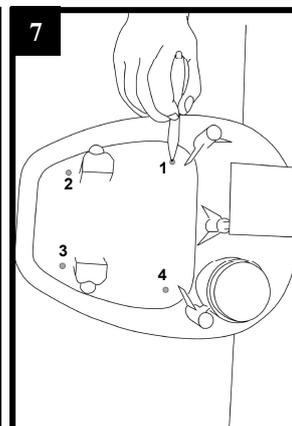
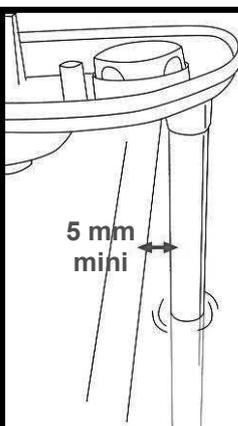
Remove the device and the booster from the coping.



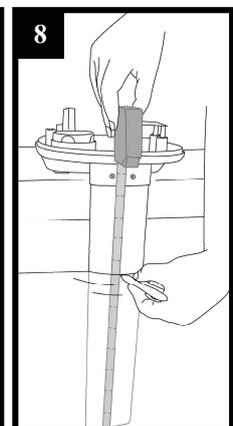
Remove the 4 pieces of stabilizing foam.



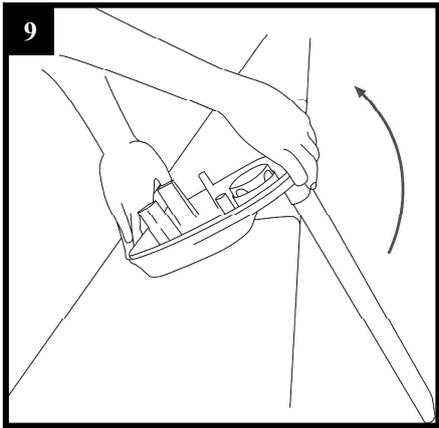
Reposition the device on the coping.



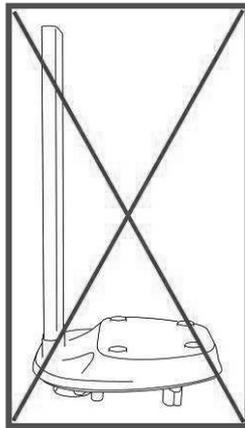
Mark the 4 holes to be drilled.



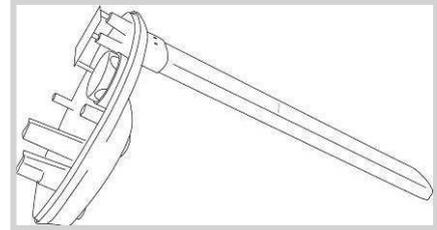
Mark the water level on the tube of your device.



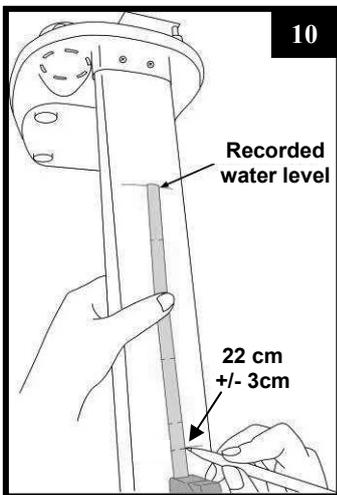
Remove the device, making sure you handle it with care.



Incorrect installation



Correct installation



Using the measuring tape, measure the immersion depth from the water level. This must be between 19 cm and 25 cm (ideally 22 cm).

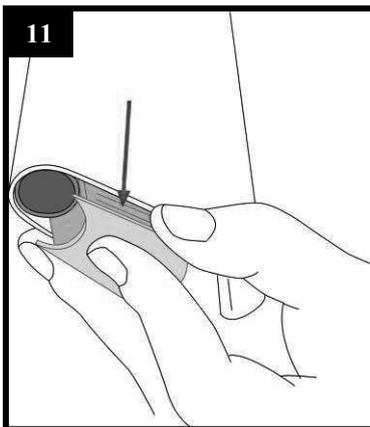
If the immersion depth is not right, mark out the recommended depth of 22 cm (+/- 3cm) using a pencil and tape measure.

Example:

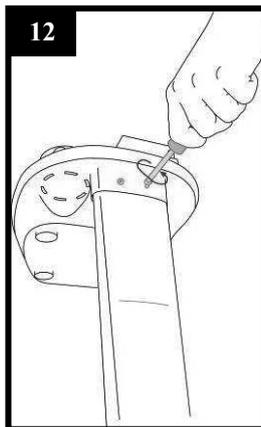
Immersion depth recorded = 30 cm.

Recommended depth = 22 cm +/- 3cm.

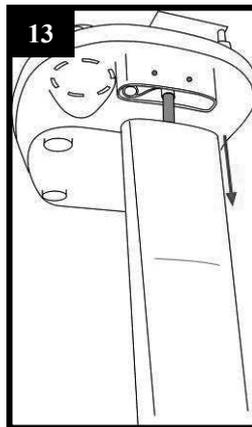
You must carefully cut your probe down to size by:  $30 - 22 = 8$  cm from the bottom of the tube



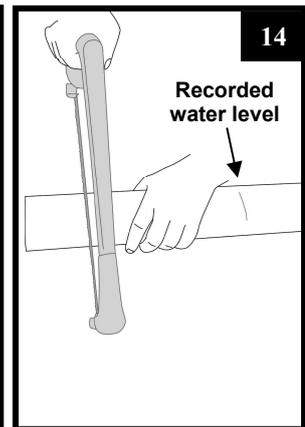
Remove the wedge plug.



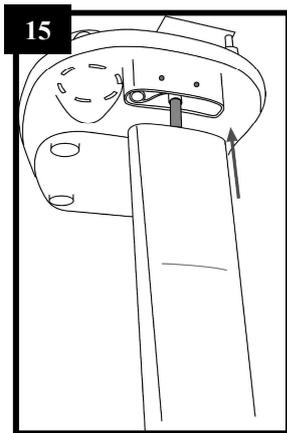
Unscrew the 2 screws holding the rigid tube.



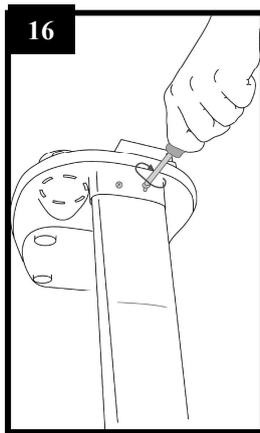
Carefully remove the rigid tube. **DO NOT REMOVE THE BLACK TUBE**



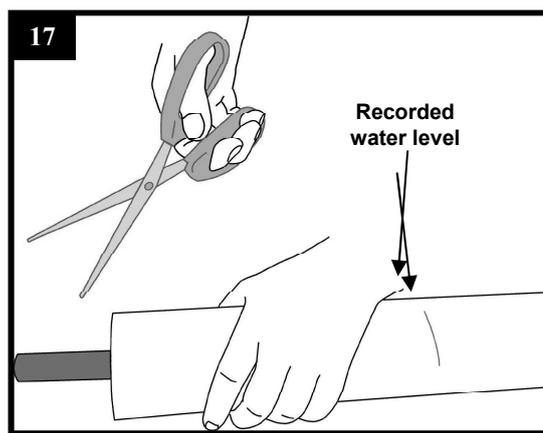
Firmly hold the rigid tube while cutting with the hacksaw.



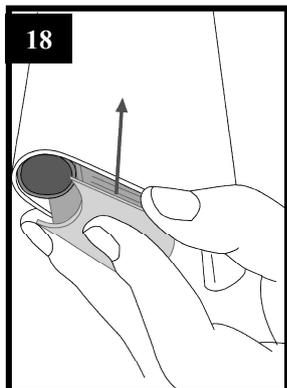
Carefully replace the tube by pushing it in deep enough (about 3 cm): Align the 2 holes already drilled.



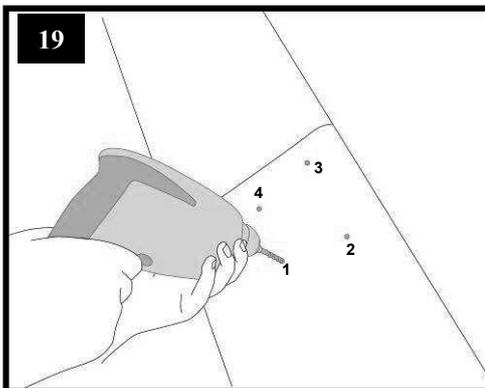
Tighten the 2 screws holding the tube.



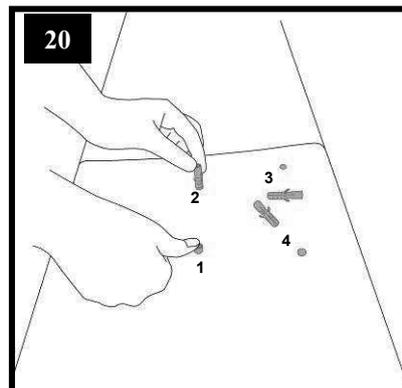
Cut the black tube flush with the rigid tube, using shears or heavy-duty scissors.



Replace the wedge plug.

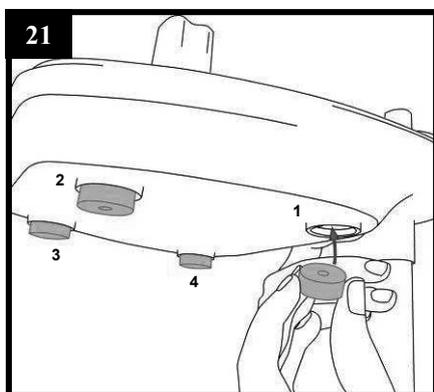


Drill the 4 holes with a Ø 8mm bit.

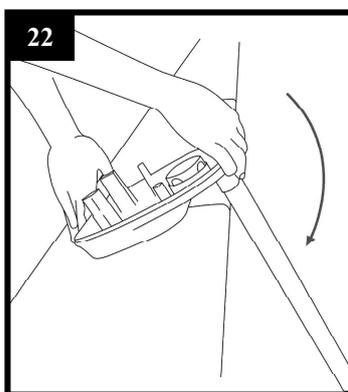


Position and push in the 4 rawplugs. These must be flush with the coping.

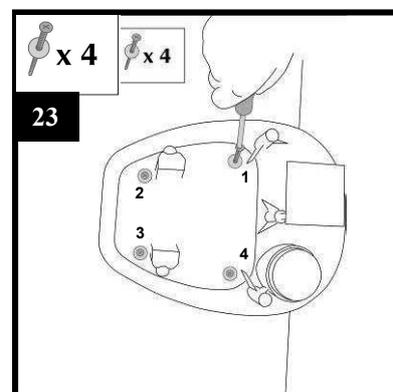
**WARNING:** The installation of the foam pads, like the fastening (screws, washers, joints), must be done with care to ensure waterproofing and smooth functioning of your device.



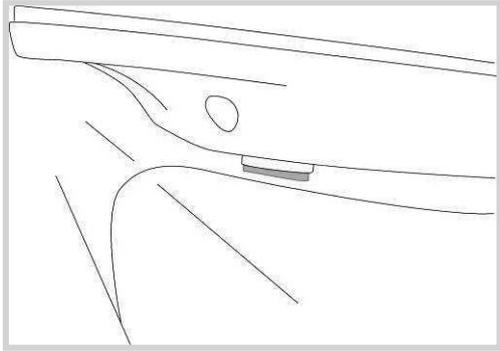
Replace the 4 pieces of stabilizing foam.



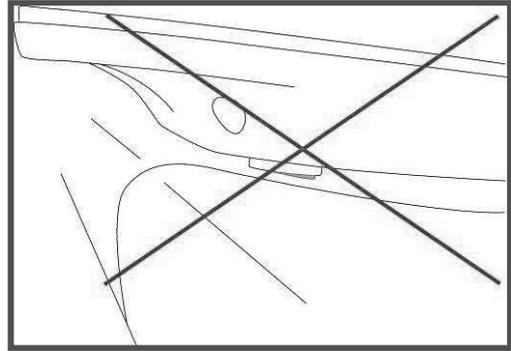
Reposition the device on the coping.



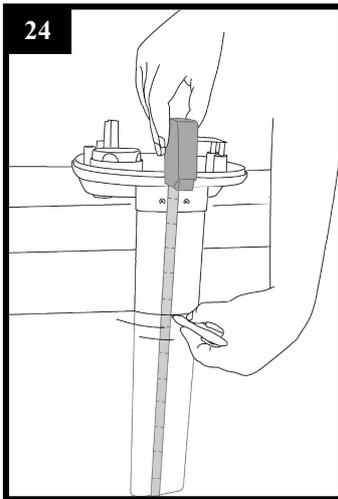
Tighten the 4 screws with their washers (provided with the attachment kit). **Installing the washers guarantees that your device is waterproof.**



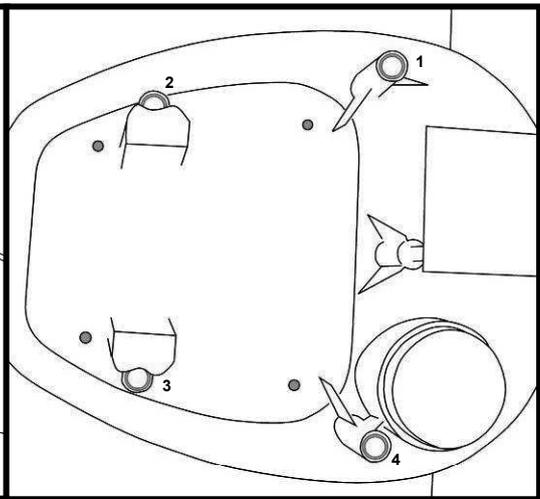
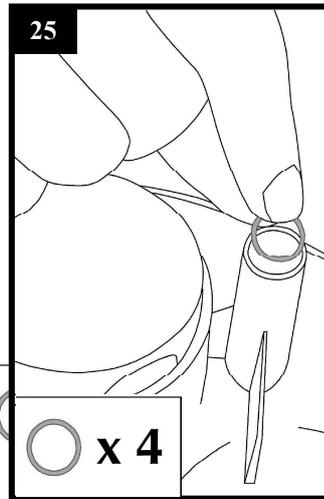
Joint properly compressed.



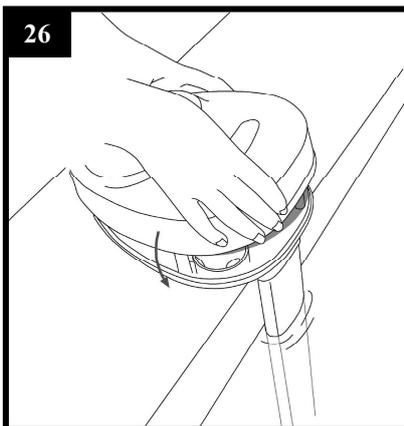
Joint excessively compressed.



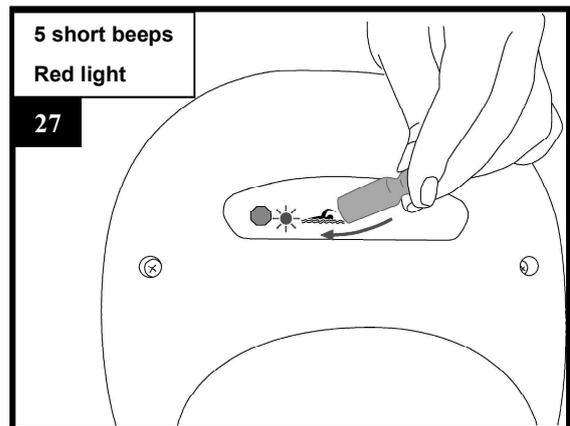
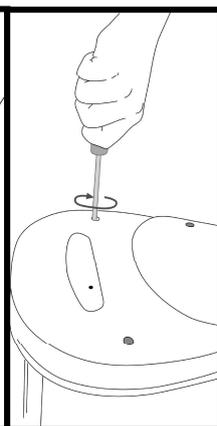
Check the immersion depth



Always put the 4 small joints in place (provided with the attachment kit).  
Installing the joints guarantees that your device is waterproof.



Replace the cover, and tighten the 4 screws again.



Your device is in "complete stop" mode, and must be activated for the validation tests.

**WARNING:** when your device switches out of TESTS mode (specific tune), the siren of your immersion detector will sound at full volume. You can reactivate the TESTS mode for an extra 30 minutes: to do this, please refer to item 4.5.

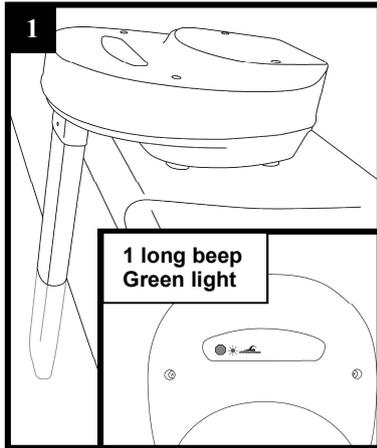
### 3.7 Validation tests

Make sure that the pool is still and that your immersion detector is monitoring (green indicator light flashing). If such is not the case, move the magnet over the swimmer symbol:

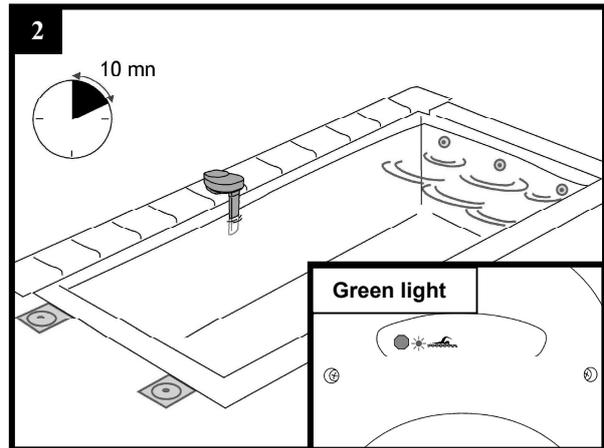


If in spite of this, the indicator light does not switch to green, this means that the pool is not still enough. You must imperatively wait until your pool is still before carrying out the tests.

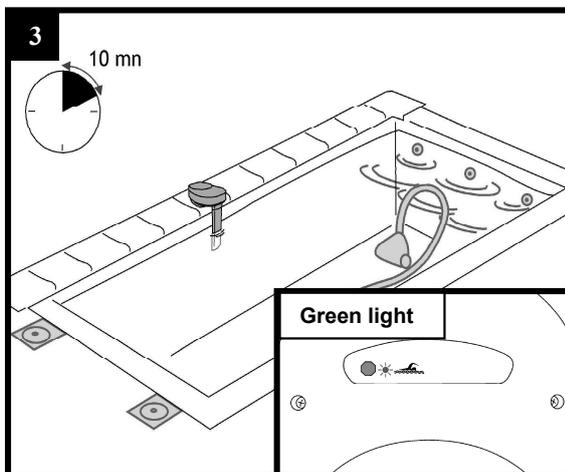
You must wait for about ten minutes without handling the device in any way, and with no disturbance in the pool, for your immersion detector to analyze its environment and become stable (green indicator light). It is only after this time that you will be able to perform the tests described below.



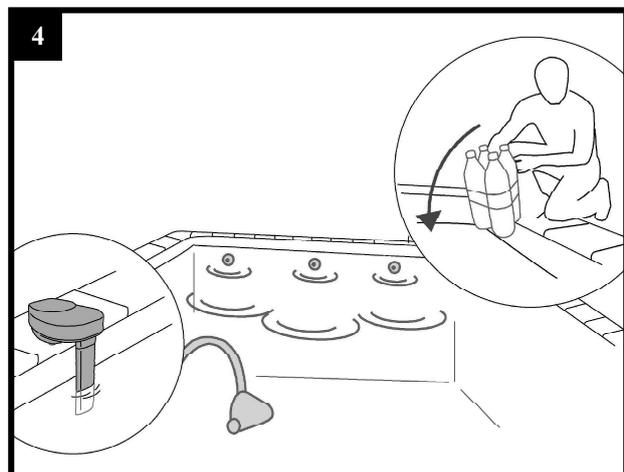
Your immersion detector is in monitoring mode (green indicator light flashing)



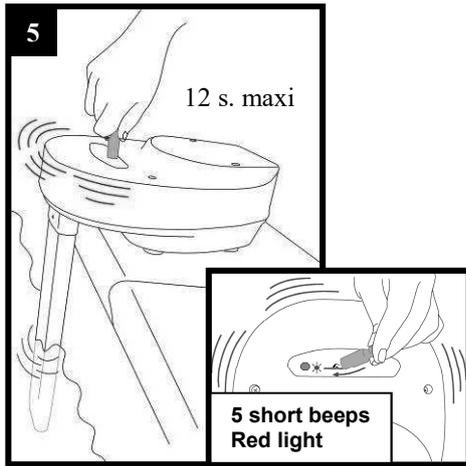
Filtering working for 10 minutes, your immersion detector is monitoring (green indicator light flashing).



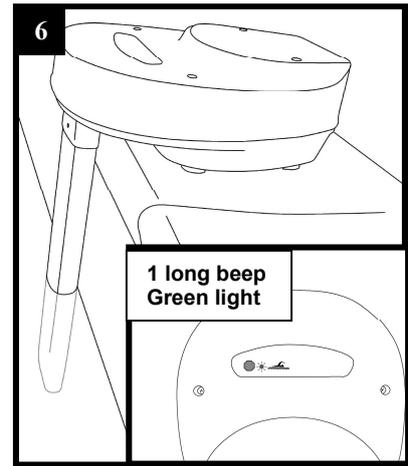
Filtering and robot cleaner working for 10 minutes, your immersion detector is monitoring (green indicator light flashing).



With the filtering system and robot cleaner working, drop the 6 kg weight from the top of the coping, from the point furthest away from your immersion detector.



The siren must sound a maximum of 12 seconds after the fall. Stop the siren using the magnet.



Wait for the automatic restart (green indicator light flashing). This may take about ten minutes.

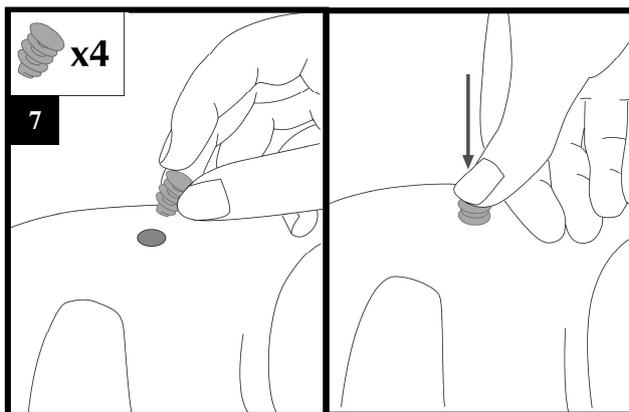
**You must always perform additional fall tests at different locations in the pool (including steps) as per the procedure described above.**

**After each fall, allow your immersion detector to be automatically reactivated before the next fall. Depending on wind and pool disturbance conditions, this reactivation may take about ten minutes.**

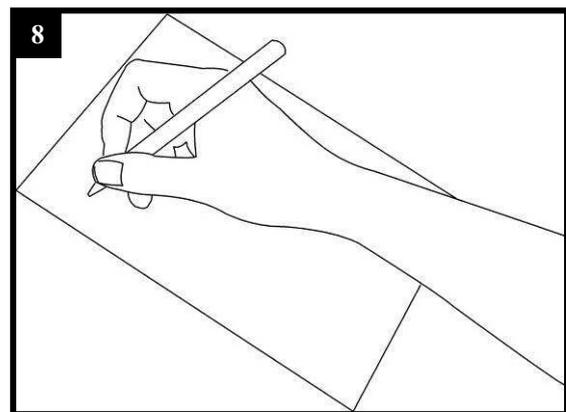
If one of these tests fails:

- **Look up item 5.**
- Contact your retailer for advice.
- Check with the MG International After Sales Service at 0891 025 026.
- Send a letter to the MG International technical department, clearly describing your problem, and leaving your details at the following address:  
[infoconso@aquasensor.com](mailto:infoconso@aquasensor.com)

You have successfully completed all your validation tests. You can now carry out the last operations below:



Warning: it is essential that the 4 caps are put in place.



Fill out the test validation sheet and send it back to the manufacturer in the T envelope (postage prepaid) provided.



**Regularly check the water level in your pool, especially when the weather is very hot, or rainy, or if it has been windy for several days. The immersion depth must imperatively be 22 centimeters plus or minus 3 centimeters. If this instruction is not complied with, your immersion detector will not work properly.**

**YOUR IMMERSION DETECTOR IS NOW ACTIVATED (GREEN INDICATOR LIGHT FLASHING)**

- **Make sure that you are no longer in TESTS mode: the siren must be at full volume (100dB)**
- **You must always perform additional fall tests at different locations in the pool (including steps); the siren will go off loudly.** If you do not stop it manually by moving the magnet over the swimmer symbol, the siren will sound for 1 minute and 30 seconds, and your immersion detector will remain in monitoring mode.
- **Check that the alarm can be heard from the residence/living quarters. If such is not the case, install in the residence/living quarters the optional Sensor Domo™ remote siren available at your retailer's.**

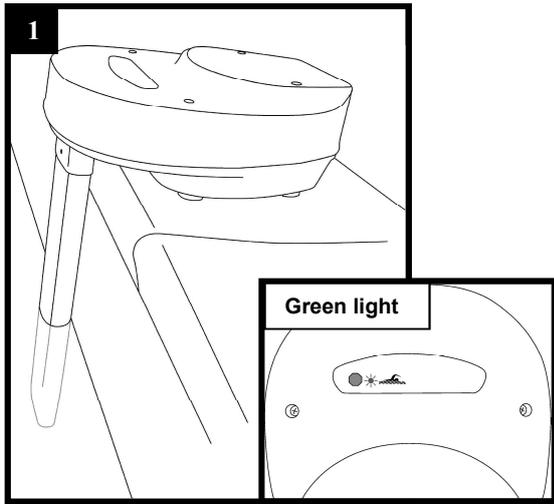
## 4 Using Sensor Premium™

**The magnets must be kept out of the reach of children under five.**

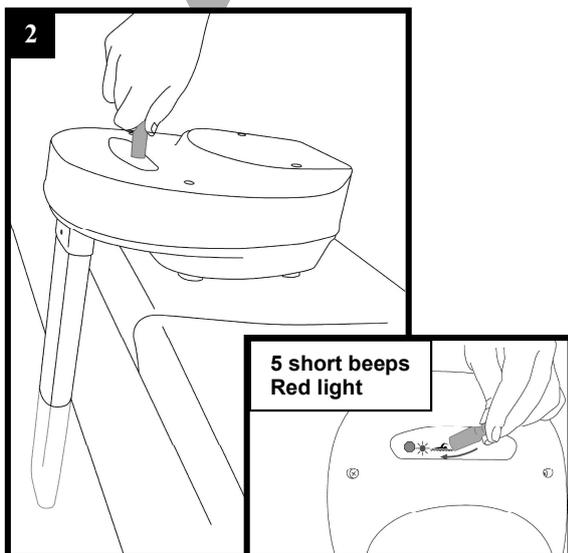
### PRECAUTIONS FOR USE

- **Certain rough weather conditions (strong winds, storms, etc.) and the use of certain powerful cleaning equipment can cause untimely alarm triggering.**
- **Your alarm system will not operate if the water in the probe is frozen or the surface of the pool is frozen. It is hard to know when the water is frozen in the tube. If in doubt, check that your immersion detector is working properly.**
- **When cleaning the outside of your device, (waterline, etc.), do not use any high-pressure cleaning apparatus, abrasive brush and/or other implements which might scratch or damage your immersion detector.**
- **To ensure proper operation of your device, please keep the water pure and clean (in particular, to avoid algae formation inside the probe).**
- **You are reminded that the French act No 2003-9 dated 3 January 2003 on swimming pool safety requires that a device be installed permanently throughout the year. Your retailer or MG International cannot be held liable in the event of drowning after the removal or complete stopping of your alarm system for whatever reason.**
- **Should you restart your immersion detector after a long period, perform the tests described on item 3.7. In case of problem, contact your retailer immediately.**
- **The only authorized operation on the device once it is installed is changing the battery.**
- **Regularly check that your fall detector is working properly by performing the monthly tests mentioned in this guide (look up item 8), or have it checked by a professional.**
- **Some cleaning robots like diving robot are incompatible with immersion detection systems.**
- **The performance as defined in standard NF P90-307/A1 is not guaranteed beyond wind levels greater than those specified in this standard.**
- **Any user who shuts off the system must be aware that surveillance by a person must take over from the system.**
- **Action must be taken when the siren is heard.**
- **The greatest vigilance by the parent/responsible adult is necessary between the end of the swim and reactivation of the alarm system.**
- **Do not swim against the current at the end of the swim, to allow the reactivation of the alarm system.**

## 4.1 I want to have a swim



While the immersion detector is monitoring (green indicator light), move the magnet over the swimmer symbol in the activation area of your device:

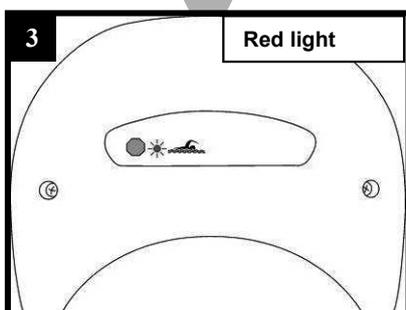


The red indicator light on your immersion detector comes on, you can have a swim without setting off the siren.

After the swim or deactivation of the device, your immersion detector automatically resumes monitoring as soon as the pool is still again. The automatic restart can take place about 10 minutes after the end of the swim, depending on the disturbance in the pool and the wind conditions.

**DURING THIS TIME, YOUR POOL IS NOT PROTECTED.**

**UTMOST VIGILANCE IS REQUIRED FROM THE PARENT/RESPONSIBLE ADULT.**



Your immersion detector is no longer monitoring, the red light is flashing .

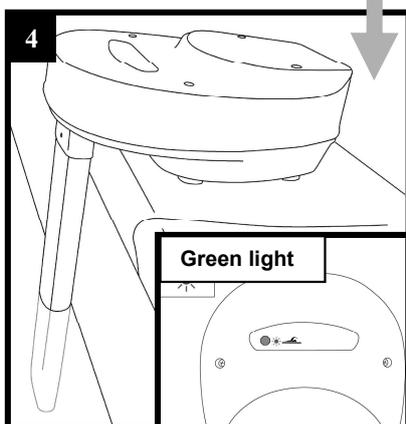
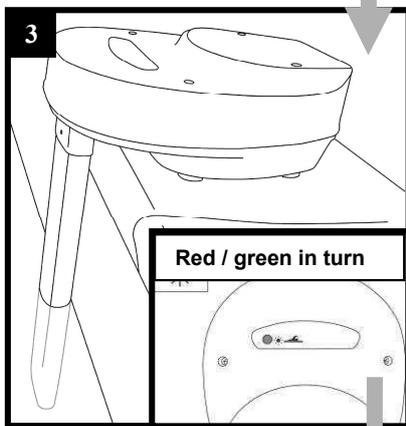
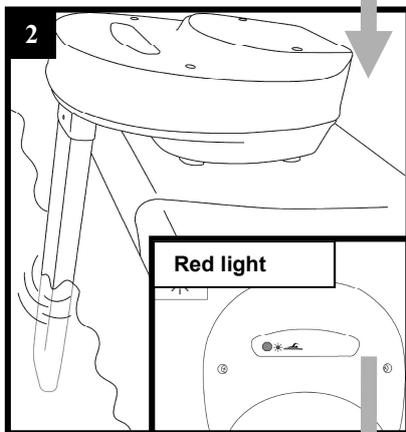
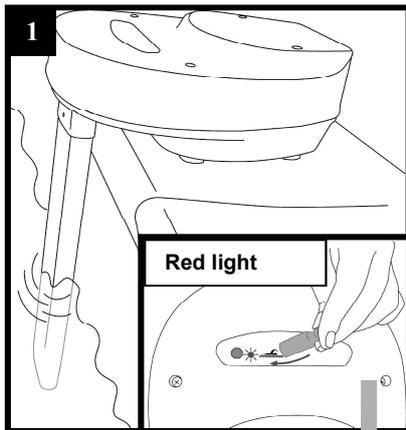
## 4.2 Automatic restart



Your immersion detector continuously checks the pool disturbance conditions. As soon as your pool becomes still again, after a swim or strong disturbance (strong wind, counter-current swimming, etc.) **your immersion detector resumes monitoring and the green light flashes. Your pool is now protected.**

Your immersion detector is in monitoring mode (green indicator light flashing)

### 4.3 Manual restart



After your swim, you can indicate to your immersion detector that the pool is not being used, so that monitoring is resumed faster.

You are then in one of the three situations described below:

**POOL VERY DISTURBED: restart in 4 stages (steps 1 – 2 - 3 and 4)**

**POOL DISTURBED: restart in 3 stages (steps 1 - 3 and 4)**

**STILL POOL: restart in 2 stages (steps 1 and 4)**

**1** Move the magnet over the swimmer symbol when leaving the pool.

**2** Your immersion detector considers that your **pool is very disturbed**. In this case, your device acknowledges your request by emitting a short, high-pitched beep, but cannot resume monitoring immediately. **Its red indicator light flashes.**

**DURING THIS TIME, YOUR POOL IS NOT PROTECTED.**

**UTMOST VIGILANCE IS REQUIRED FROM THE PARENT/RESPONSIBLE ADULT.**

**3** Your immersion detector considers that your **pool is disturbed**. In this case, your device acknowledges your request by emitting a short, high-pitched beep. **Its green and red indicator lights flash in turn.** Your immersion detector will only detect heavy falls, and will gradually resume full monitoring of the pool.

**DURING THIS TIME, UTMOST VIGILANCE IS REQUIRED FROM THE PARENT/RESPONSIBLE ADULT.**

**4** Your immersion detector considers that your **pool is still**. It resumes monitoring of the pool by emitting a long, high-pitched beep. Its green indicator light flashes.

**YOUR POOL IS NOW PROTECTED**

## 4.4 Too much wind

In some cases, in the presence of rough weather conditions (strong wind, gusts of wind, etc.), your immersion detector is likely to stop monitoring function. Its red indicator light flashes.

**YOU MUST BE PARTICULARLY VIGILANT WHEN THE WEATHER IS ROUGH.**

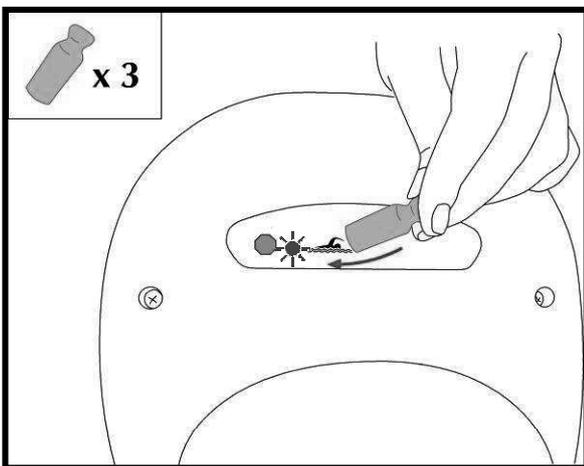
Warning: The performance as defined in standard NF P90-307/A1 is not guaranteed beyond wind levels greater than those specified in this standard.

## 4.5 TESTS mode

In this mode, the siren sounds only for a short time, and at a low volume. This mode allows you to perform the installation and monthly tests without disturbing you or the neighborhood.

The TESTS mode lasts for 30 minutes.

The start and stop of the TESTS mode are indicated by a specific tune.



To manually start and stop the tests mode, place and keep the magnet on the swimmer symbol **until the loud beep is heard** and until the red indicator light flashes quickly.

Perform this operation 3 times in a row.\*

- Manual start of the TESTS mode: red indicator light continuously on during the specific tune.
- Manual end of the TESTS mode: green indicator light continuously on during the specific tune.

**\*Warning:** When you place the magnet on the swimmer symbol, the device responds **at first** as described in sections 4.1 “I want to have a swim” and 4.3 “Manual restart”. You must keep the magnet on this area to hear the loud beep and fast flashing of the red indicator light.

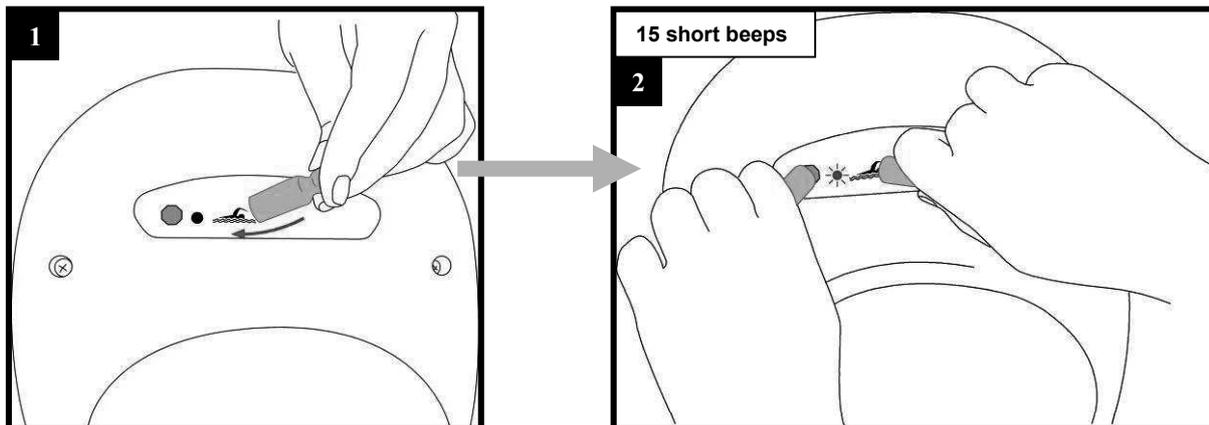
## 4.6 Off Mode

In Off mode, all your immersion detector's indicator lights are off.

You are reminded that the French act No. 2003-9 dated 3 January 2003 on swimming pool safety requires that a device be installed permanently throughout the year.

Your retailer or MG International cannot be held liable in the event of drowning after the removal or complete stopping of your alarm system for whatever reason.

**When your immersion detector is in complete stop mode, vigilance by a person must imperatively take over, or another standard safety system must be installed as an alternative.**



Place and keep one of the magnets on the swimmer symbol until the loud beep is heard, and until the red indicator light flashes quickly, **then** move the 2<sup>nd</sup> magnet over the red Stop symbol. The red indicator light remains on during the confirmation sound signal (15 short beeps).

**Warning:** When you place the magnet on the swimmer symbol, the device responds **at first** as described in sections 4.1 “I want to have a swim” and 4.3 “Manual restart”. You must keep the magnet on this area to hear the loud beep and fast flashing of the red indicator light.

- To reactivate your immersion detector:
  - Move the magnet over the swimmer symbol;
  - You will hear 5 short, high-pitched beeps + flashing red indicator light.
  - Wait for the automatic restart (flashing green indicator light) or restart manually (see item 4.3)

**Please make sure that your immersion detector is in monitoring mode before leaving your pool.  
If such is not the case, utmost vigilance is required from the parent/responsible adult.**

## 4.7 Replacing the batteries

Your immersion detector gives a low-battery alert by:

- 1 short, low-pitched beep every minute,
- 4 short, low-pitched beeps every time the magnet is moved over the swimmer symbol.

In this case, the four 1.5V LR20 alkaline batteries must be replaced with new batteries of the same type as soon as possible.

The use-by dates are given on the alkaline batteries. Be responsible, and take the old batteries back to your retailer instead of throwing them away.

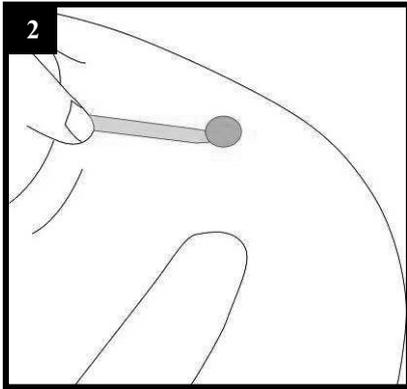
We advise you not to change the batteries at the start of the season.

**When replacing the batteries, please follow the indications below:**

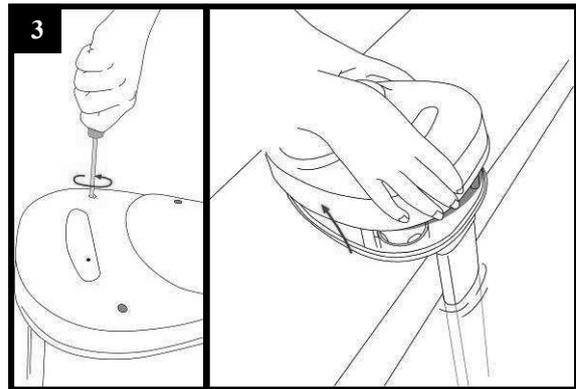
- 1** Put your immersion detector in complete stop mode (see item 4.6 above)

When putting your immersion detector in complete stop mode, please take all necessary steps to secure access to your pool.

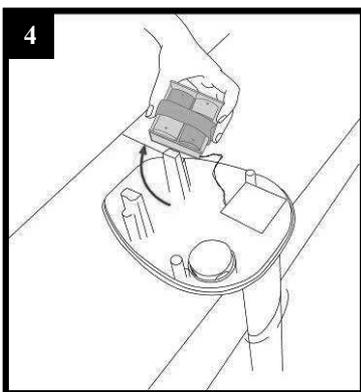
**DURING THIS TIME, YOUR POOL IS NOT PROTECTED. UTMOST VIGILANCE IS REQUIRED FROM THE PARENT/RESPONSIBLE ADULT.**



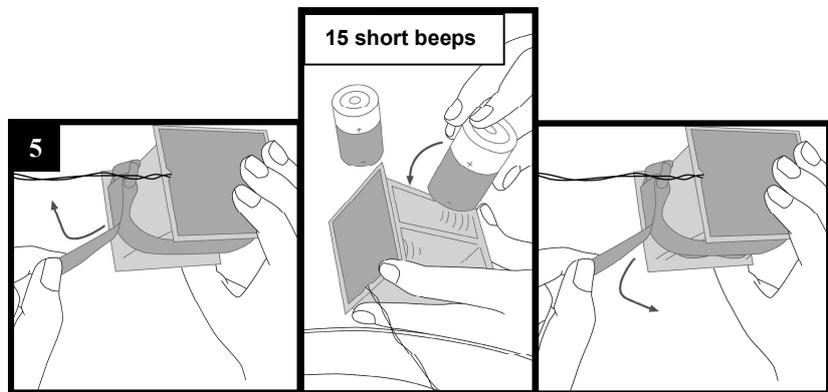
Carefully remove the 4 caps using a flat screwdriver.



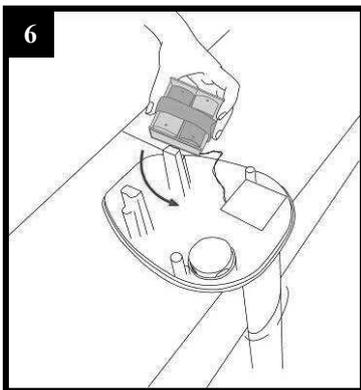
Unscrew the 4 screws and remove the cover.



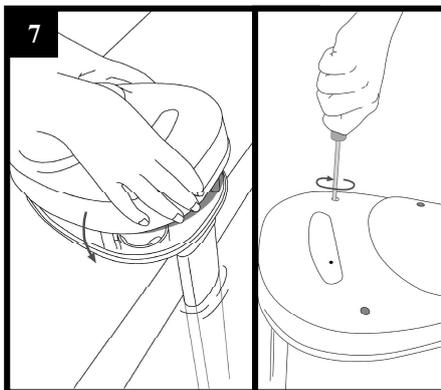
Remove the battery block fastened by a Velcro strip.



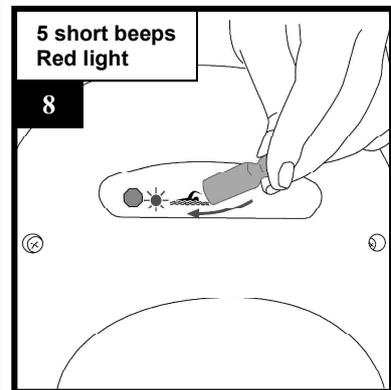
Replace the 4 batteries, making sure the polarity is respected. Validation sound signal (15 short, high-pitched beeps). Your device is in "Off" mode.



Replace the battery block on the Velcro strip.



Replace the cover, and tighten the 4 screws again.

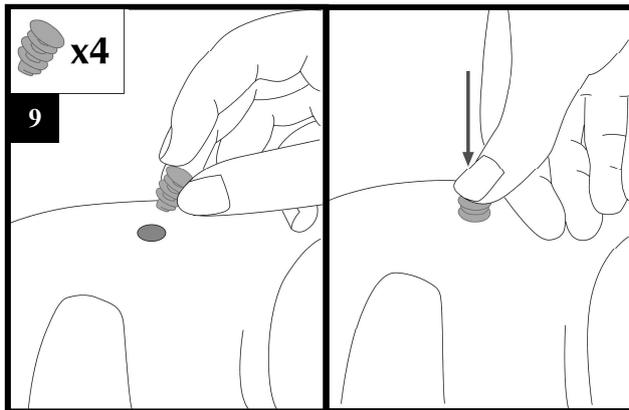


Your device is in "complete stop" mode, you must activate it and check that it is operating properly by carrying out the validation tests again (see item 3.7).



**Warning:** for the first 30 minutes after your device has been activated with the magnet for the first time, the siren sounds only for a short time, at a low volume. You are in TESTS mode. For more information on this mode, refer to item 4.5.

You have successfully completed all your validation tests. You can now carry out the last operations below:



Warning: it is essential that the 4 caps are put in place.

## 4.8 I have a problem with my immersion detector

### 4.8.1 Two regular beeps are heard

Your immersion detector indicates that there is an operating problem by emitting 2 short, low-pitched beeps every minute.

In this case, your immersion detector needs to be sent back to our After-Sales Service.

Send your device back, with a copy of your purchase invoice, and giving your details, to After-Sales Service at the address below:

MG International – SAV Sensor PSE – 2 bips  
Z.I Athelia II – 220 Impasse du Serpolet  
13600 La Ciotat - France

### 4.8.2 I cannot find the cause of my problem

Your device does not emit the 2 beeps as described above, and you cannot understand where the problem comes from.

In this case, please contact by phone or mail the MG International After-Sales Service:

- Tel: 0891 025 026 (0,22€/min).
- Address:

MG International – SAV Sensor PSE – 2 bips  
Z.I Athelia II – 220 Impasse du Serpolet  
13600 La Ciotat – France

Please provide a clear description of the problem encountered, so that your device can be processed quickly. Please also provide our technicians with your details and a sketch of your pool, including its dimensions (length, width, depth, recess if any) as well as the location of the return fittings, vacuum fittings, skimmer, and any other piece of equipment which might create disturbances, such as, for instance, a swim jet. Show the location of your immersion detector on the edge of your pool.

This information will help our technicians to better understand the problem with your device, and to quickly find a solution.

## 5 Frequently asked questions

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### During the installation

QI1. During the test phase with filtering or filtering + robot cleaner, the siren goes off accidentally, or your immersion detector switches from monitoring mode (green light flashing) to non-monitoring mode (red light flashing)?

RI1.1. Make sure that your immersion detector is not within one meter of the filtration system (return fittings, waste plug, skimmer, vacuum fittings, etc.) or waterfall or any other device that may disturb the pool at this place.

RI1.2. Check the immersion depth of your immersion detector. Rectify it if required.

RI1.3. Perform the installation and validation tests under favorable weather conditions.

RI1.4. Your immersion detector is not suited to your type of pool. Ask your retailer or the after-sales service for advice at 0 891 025 026.

RI1.5. Your robot cleaner is not compatible with your immersion detector. It causes an event similar or identical to the fall of a child (standard NF P90-307/A1). Contact your retailer for advice.

RI1.6. If none of these conditions seems to you to be the cause of the malfunction, ask your retailer for advice or contact our technical support at 0 891 025 026.

QI2. When the 6kg weight is dropped during the test phase, your immersion detector takes longer than 12 seconds to set off the siren, or does not set it off at all?

RI2.1. The dimensions of your pool are greater than 10 x 5m, or your pool is of a particular shape. A single immersion detector is not sufficient. Contact your retailer for advice.

RI2.2. Your immersion detector is not positioned at the recommended location. The fall occurs beyond its 7m detection range. Position it at the recommended location. Look up item 3.3.

RI2.3. If none of these conditions seems to you to be the cause of the malfunction, ask your retailer for advice or contact our technical support at 0 891 025 026.

### During use

QU1. The siren goes off accidentally.

RU1.1. Check the immersion depth of your immersion detector. Rectify it if required.

RU1.2. The weather conditions are too unfavorable (strong wind, storm, etc.) and affect the operation of your device.

RU1.3. Your robot cleaner is not compatible with your immersion detector. It causes an event similar or identical to the fall of a child (standard NF P90-307/A1). Contact your retailer for advice.

RU1.4. If none of these conditions seems to you to be the cause of the malfunction, ask your retailer for advice or contact our technical support at 0 891 025 026.

QU2. Your immersion detector does not go off during the monthly tests.

RU2.1. Check the condition of your batteries. Please refer to item 4.7.

RU2.2. Check the immersion depth of your immersion detector. Rectify it if required.

RU2.3. The weather conditions are too unfavorable (strong wind, storm, etc.) and affect the operation of your device.

RU2.4. Your immersion detector emits 2 short, low-pitched beeps every minute: send your device back to the MG International After-Sales Service.

RU2.5. If none of these conditions seems to you to be the cause of the malfunction, ask your retailer for advice or contact our technical support at 0 891 025 026.

For any other malfunction, ask your retailer for advice or contact our technical support at 0 891 025 026.

## 6 Further information / Informations complémentaires

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### LEGAL INFORMATION / INFORMATIONS LÉGALES

The French Act No. 2003-9 and its implementing order No. 2003-1389 were passed in order to fight against the growing number of accidents and drowning incidents in privately-owned swimming pools for individual or collective use.

These laws set the following provisions:

Starting from January 1, 2004, any new, non-enclosed, in-ground private swimming pool for individual or collective use must be fitted with a standardized safety system.

As of this date, the builder or installer of such a swimming pool must provide the owner with a technical sheet indicating the system chosen.

Owners of non-enclosed in-ground private swimming pools for individual or collective use, installed before January 1, 2004, must have equipped their swimming pool with a standardized safety system by January 1, 2006.

If the dwelling is rented seasonally, a standardized safety system must be installed before May 1, 2004.

**The importance of active monitoring by parents must be underlined.**

### SAFETY ADVICE RELATED TO THE ALARM

**This alarm system is not a replacement for common sense or individual responsibility. Its purpose is not to be a replacement for vigilance by a parent or responsible adult, which remains the vital factor in protecting children under the age of 5.**

This alarm is a protective device which signals a danger (or danger risk). A responsible adult must take quick action within 3 minutes of the sounding of the alarm signal.

Any user who shuts off the system must be aware that surveillance by a person must take over from the system.

You must take action when the failure signal sounds are heard.

The greatest vigilance by the parent/responsible adult is necessary between the end of the swim and reactivation of the alarm system.

Do not swim against the current at the end of the swim, to allow the reactivation of the alarm system.

The performance as defined in standard NF P90-307/A1 is not guaranteed beyond wind levels greater than those specified in this standard.

In no event must the installation of the alarm system reduce your vigilance or replace active monitoring of the swimming pool and the area around it.

This alarm system, like any other safety device or equipment, is an additional tool which is useful in the event of a momentary lack of surveillance.

## GENERAL SAFETY ADVICE

You alone are responsible for your children's safety!

The risk is greatest when children are less than five years old.

Accidents don't just happen to other people!  
Be prepared, and tackle it!

### Monitor and act!

- Children must be constantly supervised from nearby.
- Nominate one adult as responsible for safety.
- Increase monitoring when there are many people using the pool.
- Teach your children to swim as early as possible.
- Wet back of neck, arms and legs before entering the water.
- Learn the steps that save lives, especially those for children.
- Prohibit diving and jumping in the presence of small children.
- Prohibit running and playing around the pool.
- Do not allow a child who does not swim well to enter the pool without a life jacket or vest, or unaccompanied.
- Do not leave toys near or in an unattended pool.
- Constantly maintain clear and pure water.
- Store water treatment products out of reach of children.
- Some counter-current swimming systems do not allow the immersion detection system to be reactivated automatically.
- Some cleaning robots like diving robot are incompatible with immersion detection systems.
- In order to prevent access to the pool by children under five when the failure signal has triggered, take all the required measures until the device is repaired.
- The only authorized operation is to change the batteries and fuses at the beginning of the season.

### Be prepared!

- Telephone accessible near the pool to not leave your children unattended while you phone.
- Life-buoy and pole near the pool.

### In the event of accident

- Remove the child from the water as quickly as possible.
- Immediately call the emergency services and follow the instructions they give you.
- Replace wet clothes with warm blankets.

### Emergency phone numbers (to be learnt by heart and displayed near the pool) /

- Fire brigade: 18
- Emergency medical service: 15
- European emergency number: 112 (from all phones)
- Regional treatment centers in case of poisoning: Angers (Center and Pays de la Loire regions) - Bordeaux (Aquitaine and Poitou-Charentes regions) Lille (Haute-Normandie, Nord-Pas-de-Calais and Picardie regions) – Lyons (Auvergne, Rhône-Alpes regions) - Marseilles (Corsica, Languedoc-Roussillon, Provence-Alpes-Côte d'Azur and Réunion regions) - Nancy (Burgundy, Champagne-Ardenne and Lorraine regions) - Paris (Ile-de-France and West Indies-Guiana regions) Rennes (Basse-Normandie and Brittany regions) - Strasbourg (Alsace and Franche-Comté regions) Toulouse (Limousin and Midi-Pyrénées regions)

### Immersion time and survival rate

Immersion time	Survival rate
1 minute	95%
2 minutes	80%
3 minutes	65%
4 minutes	25%
5 minutes	1%

Figures provided by the French Department of Civil Protection and used as reference in standards and official laws.

**There is no zero risk.**

**Only active monitoring by you, combined with passive monitoring by your immersion detector can give a high level of safety.**

**In no event must the installation of this alarm system reduce your vigilance or replace active monitoring of the swimming pool and the area around it.**

**Speed of intervention after the alarm is triggered is decisive.**

**Never go too far if your child is playing near the pool.**

Guidelines on resuscitations and first aid procedures are available in many emergency centers or associations. You can also contact your state health insurance office to attend first aid courses.



## 7 Guarantee and After-Sales Service

**Your immersion detector is guaranteed for 2 years (detection unit and remote siren depending on option). Ensure that children or animals are not present during installation of your device.**

### **GUARANTEE COVER**

MG International or its retailers shall provide the purchaser of this product (Sensor Premium™) with the services presented below.

MG International manufacturer of Sensor Premium™, warrants Sensor Premium™ from any defect in material or workmanship during the period stipulated below, starting from the date of purchase:

- Sensor Premium™ central units 2 years parts and labor
- Remote wireless siren: 2 years parts and labor

Any of the consumables (batteries, desiccant bags, magnets, etc.) included in the original Sensor Premium™ packaging that prove defective due to a defect in materials or workmanship shall be replaced free of charge during a period of 90 days, starting from the date of purchase.

**If the user customer sells or transfers ownership or use of Sensor Premium™ in any manner whatsoever during the guarantee period, the guarantee shall be considered void, since no guarantee of correct installation or transport can be given by the final user, particularly as regards the full respect of the validation sheets. It is expressly indicated that this clause can be used as evidence against the new owner.**

For the contractual parts and labor guarantee to be applied, all the following conditions must be met:

- Installation in compliance with the description or carried out by a professional installer
- Installation tests performed and test validation sheet completed, signed and sent back to MG International by mail, within 7 days after purchase (postmark taken as proof).
- Ownership of a copy of the purchase invoice.
- Non deterioration of the components of your alarm system through misuse, breakage, and more generally, through the fault of the user.
- Regular maintenance of the siren and the unit (check of operating status of unit by regular tests and monthly update of maintenance logbook).
- Immersion tests performed regularly (once per month). Do not hesitate to inform your retailer in the event of failures.
- Compliance with installation instructions

### **Should a repair be necessary**

**In case of failure by Sensor Premium™, the customer must make sure that the problem encountered is not due to a faulty installation, non-compliance with the installation and operation guide, or to maintenance.**

**If, after return to After-Sales Service, no defect in materials or workmanship is established by the technicians, MG International reserves the right to invoice the After-Sales Service's costs.**

**If Sensor Premium™ proves to malfunction due to a defect in materials or workmanship during the guarantee period, MG International shall either replace or repair the device, ONLY ON CONDITION THAT the customer produces a copy of original purchase.**

If this proof of purchase is not produced, MG International reserves the right to refuse to carry out a service, or to invoice the costs of maintenance for all work carried out.

**In the event of technical difficulties with Sensor Premium™, the customer must immediately contact the retailer as a priority, or, if this is unsuccessful, MG International**  
**For any call, the customer must be able to describe the problem in detail so that the retailer or an after-sales service representative can determine whether a repair is required. He must provide the person he is speaking to with the serial number, the date and precise place of purchase (town, name and address of retailer).**  
**During any correspondence the customer must clearly describe the problem and provide the serial number, the date and precise place of purchase, and clearly write his contact details.**

**MG International reserves the right to replace the repairable parts with new or as-new parts.**

In the event of the equipment or parts being immobilized for more than 7 days in the workshop or at home, the guarantee shall be extended by the amount of time it is immobilized. This time limit shall start from the day of acceptance by the MG International approved repairer or of the request for intervention.

During the immobilization period, it shall be left to the discretion of the retailer to offer a temporary replacement device. Neither the retailer nor MG International are obliged to provide a replacement on a systematic basis for the device in the event of immobilization. Be sure to increase active monitoring of your pool during this period.

### **GUARANTEE EXCLUSIONS**

The guarantee does not apply to products on which the original identification marks have been removed or modified and does not apply to defects or failures resulting from an accident, negligence or misuse; non compliance with the user's manual, a failure or defect in the electrical supply; in an external electrical circuit; lightning; the use of parts not supplied by MG International; prolonged immersion having degraded components; an unusual physical or electrical constraint; modification, adjustment, repair, maintenance or installation of a part by any other party than MG International or its approved subcontractors and retailers or due to any other cause which, at MG International's discretion, does not result from a defect in materials and workmanship .

**This guarantee is given instead and in place of all other explicit or implicit guarantees, and the liability of MG International in virtue of this agreement shall be only limited to the repair of Sensor Premium™ or to the replacement of the aforementioned products.**

**MG International shall, in particular, not be required to replace or repair Sensor Premium™ if it is defective for the reasons given in this guarantee. IN NO EVENT OR CIRCUMSTANCES shall MG International be held responsible for any other costs, charges, expenses, losses or damages (indirect or otherwise), of any kind whatsoever. In addition, in the event that the device be returned or sent to MG International with modifications, damage of any kind or removal of components, MG International shall be permitted to refuse to guarantee the device, and shall in no event be required to repair or replace it.**

**In no event may your retailer, the distributor or the manufacturer of this alarm system be held responsible for any child, dependant person, adult or animal falling or drowning. In no event must the installation of the alarm system reduce your vigilance or replace active monitoring of the swimming pool and the area around it.**

This guarantee constitutes MG International's entire responsibility with regard to the products and services supplied pursuant to this guarantee. MG International shall carry out no other obligation, duty or responsibility, be they contractual, extracontractual (including responsibility for negligence) or other towards the customer.

It should be noted that certain difficult climatic conditions may destabilize your Sensor Premium™ (false alarms). In these conditions check that your child does not go near the pool. Avoid turning your immersion detector off for a long period of time.

MG International has only one duty of care (to supply to the customer a device in working order, with no defects in materials and workmanship).

MG International cannot be held responsible for any child, adult or animal whatsoever falling or drowning. Monitoring by parents remains the best safety solution for children.

**PREMIUM™ IS NOT A REPLACEMENT FOR COMMON SENSE OR INDIVIDUAL RESPONSIBILITY. THEIR PURPOSE IS NOT TO BE A REPLACEMENT FOR RESPONSIBILITY AND VIGILANCE BY A PARENT AND/OR RESPONSIBLE PERSON, WHICH REMAIN THE VITAL FACTOR IN PROTECTING CHILDREN AND DEPENDANT PERSONS.**

No clause in this guarantee affects the user's statutory rights.

## 8 Monthly tests

In order to check the proper operation of your Sensor Premium™, it is essential that verification tests be carried out on a monthly basis (look up, item 3.7) and that the results be recorded in the form below.

**In the event of malfunction, inform your retailer immediately and take the necessary measures to prevent access to your pool, and monitor it.**

Retailer contact details .....

Serial number of device .....

Date of purchase: .....

1. tests performed on: .....

successful  - not successful

2. tests performed on: .....

successful  - not successful

3. tests performed on: .....

réussis  - non réussis

4. tests performed on: .....

successful  - not successful

5. tests performed on: .....

successful  - not successful

6. tests performed on: .....

successful  - not successful

7. tests performed on: .....

successful  - not successful

8. tests performed on: .....

successful  - not successful

9. tests performed on: .....

successful  - not successful

10. tests performed on: .....

successful  - not successful

11. tests performed on: .....

successful  - not successful

12. tests performed on: .....

successful  - not successful

13. tests performed on: .....

successful  - not successful

14. tests performed on: .....

successful  - not successful

15. tests performed on: .....

successful  - not successful

16. tests performed on: .....

successful  - not successful

17. tests performed on: .....

successful  - not successful

18. tests performed on: .....

successful  - not successful

19. tests performed on: .....

successful  - not successful

20. tests performed on: .....

successful  - not successful

21. tests performed on: .....

successful  - not successful

22. tests performed on: .....

successful  - not successful

23. tests performed on: .....

successful  - not successful

24. tests performed on: .....

successful  - not successful

**Product reference:**  
**Premium™ (PRE007-M)**

**Manufacturer:**  
MG International SA – ZI Athélia II – 220 Impasse du Serpolet – 13600 La Ciotat – France



## Test 2 - Robot + Filtration

Only perform this test if you have a cleaning robot, otherwise move directly on to test 3.

Filtering system and robot running for 10 minutes, your immersion detector is monitoring (green indicator light flashing), and must not either stop (red indicator light flashing) or go off.

**IF OK**

Test 1 validated by <b>the owner</b> *:	Yes	No
Test 1 validated by <b>the installer</b> *:	Yes	No
Signature of present owner:		

\*cross out inappropriate statement (presence of installation engineer is not obligatory but is recommended)

## Test 3 - Fall

With the filtering system and robot cleaner working, drop the 6 kg weight from the top of the coping. The siren must sound a maximum of 12 seconds after the fall.

**IF OK**

Test 1 validated by <b>the owner</b> *:	Yes	No
Test 1 validated by <b>the installer</b> *:	Yes	No
Signature of present owner:		

\*cross out inappropriate statement (presence of installation engineer is not obligatory but is recommended)

If all tests are successful, sign at the bottom of the page, add your initials and send this document back to MG International.

If one of these test fails, contact your retailer for advice or check with the MG International SA After-Sales Service at 0891 025 026.

I certify that these tests have been performed in their entirety and that the device which was sold and delivered to me is in compliance and in working order. I confirm that I received the complete product (packaging, detection unit with flexible tube, rigid tube, remote siren – optional - battery, attachment kit with contact magnets, installation and operation guide with guarantee and monthly maintenance sheets.

Swimming pool immersion detectors are not a replacement for common sense or individual responsibility. Their purpose is not to be a replacement for responsibility and vigilance by a parent and/or responsible person, which remain the vital factor in protecting children and dependant persons.

In no event may your retailer or the manufacturer of your swimming immersion system be held responsible for any child, dependant person, adult or animal falling or drowning. In no event must the installation of the immersion system reduce your vigilance or replace active monitoring of the swimming pool and the area around it.

Follow the safety advice shown on the packaging of your immersion detection system and in its installation and operation guide.

**Date and signature with handwritten statement  
“tests successful, performed as per recommendations”**

The owner

The installer