

PRECISIO

Swimming Pool Alarm



READ THIS MANUAL CAREFULLY AND
KEEP FOR FUTURE REFERENCE

Installation and Operation Manual

maytronics Swimming Pool Alarms



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Important note: read this manual carefully and keep it for future use.

In order to benefit from your warranty, follow the installation procedure meticulously and register your product within 15 days following your purchase (see information at the end of this manual). If you fail to do so, your warranty will not be valid.

1. INTRODUCTION

Thank you for purchasing a PRECISIO™ swimming pool alarm and for choosing our products and service.

PRECISIO™ is a swimming pool alarm system that detects the immersion of a body in a swimming pool pursuant and complies with the NF P90-307-1:2009 French standard.

This guide allows you to:

- Understand how to operate the PRECISIO™ swimming pool alarm.
- Install the PRECISIO™ swimming pool alarm in the best possible manner based on your pool specifications.
- Carry out the monthly testing procedure.

If you have any comments or questions, please feel free to contact your reseller, or contact our technical support by mail or by phone (see the back cover of this manual for contact information).



WARNING: The installation of the PRECISIO™ swimming pool alarm does not replace or in any way lessen your vigilance. Active supervision by responsible adults remains the essential factor in protecting young children against drowning. In no event can Maytronics France or your retailer be held liable for the drowning of a child, adult or animal.

TERMS OF USE

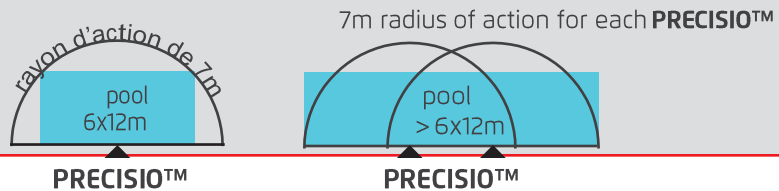
- No type of protection will ever replace the supervision and vigilance of a responsible adult.
- A child drowns in less than three minutes, **For this reason** the PRECISIO™ swimming pool alarm is only effective when the pool's location in relation to the residence allows for total intervention, including rescue in the pool, in less than 3 minutes.
- The PRECISIO™ swimming pool alarm is only suitable for swimming pools that meet the following conditions:
 - Minimum water depth of 60cm.
 - The distance between the underside of the coping and the waterline is between 8,5 and 20 cm.
- The PRECISIO™ swimming pool alarm is not suitable for the following types of swimming pools:
 - Freestanding swimming pools or swimming pools with soft walls
 - Swimming pools without copings
 - Mirror swimming pools
 - Certain infinity swimming pools
 - Swimming pools equipped with filtration and with a flow similar to that of a swim jet.
 - Swimming pools that can be accessed in other ways except via a ladder or step, specifically pools that can be accessed by a deck (submerged or with a gentle slope).

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Terms of Use

- Certain types of swim jet systems and high flow filtration systems do not allow for the reactivation of the swimming pool alarm system.
- Certain diving robot type cleaning robots are incompatible with the swimming pool alarm system.
- The swimming pool alarm must be audible from your home.
Depending on the location of your residence or place of accommodation in relation to your swimming pool, you may need to forward the safety, alarm and failure signals so that you can hear them from your residence or place of accommodation.
This must be verified at the time of installation.
You must then install the PRECISIO™ control unit remote device.
- The presence of a bubble cover will affect the operation of the swimming pool alarm.
- In order to satisfy the standard requirements, your swimming pool alarm must be within 7m of all the possible fall points in your swimming pool.
For large swimming pools, you will need to use at least one additional detection control unit.
- Your swimming pool alarm cannot function if there is light or heavy frost on your pool or if your pool is not completely full with water.
- Wind tests were carried out according to NF P 90-307-1: 2009 standard.
In case of stronger winds and gusting wind in particular, the sensitivity of your **PRECISIO™** may be reduced, the automatic reactivation period may be prolonged and there may be false alarms.
Therefore, you must be twice as vigilant in unfavorable climatic conditions.
- During the automatic reactivation time of your swimming pool alarm, the responsible adult must supervise the pool until the system is reactivated, which is indicated by a green indicator light.

ASK YOUR RETAILER FOR INSTALLATION ADVICE.



OPERATING PRINCIPLES

PRECISIO™ is a swimming pool alarm system that detects the immersion of a body in a swimming pool and issues a warning using its powerful integrated sirens (100 dB). The **PRECISIO™** is compliant with the NF P 90-307-1: 2009 French standard and comprises two elements:

- A main detection and alarm control unit to be installed next to the pool.
- A control unit remote device (optional) that enables the remote transfer of the alarm and failure signals. It communicates by secure radio link with the control unit (frequency band: 2.4 GHz).

2. CHECKING THE PACKAGE

At Maytronics we take special care in preparing and packaging our products. However, we still highly recommend that you check your swimming pool alarm product is complete and that you have all the parts necessary for the installation. These include:

Detection control unit

- Closed case
- 1 bent tube
- 4 LR20 batteries (supplied)
- 1 fixing kit (screws, washers, tapping inserts and joints) for the control unit
- Certificate of conformity delivered by the LNE
- Test validation sheet
- Installation and operation manual



Control unit remote device:

- Box closed with 2 screws
- 4 LR20 batteries
- 4 screws with a diameter of 4 mm and 4 pegs



See page 12 for instructions on installing the control unit.

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3. HOW TO USE PRECISIO™




USAGE PRECAUTIONS

- Certain rough weather conditions (strong winds, storms, etc.) and the use of certain powerful cleaning equipment can cause false alarms.
- To ensure the proper operation of your swimming pool alarm, please keep the water clear and clean at all times (in particular to avoid the formation of algae inside the probe).
- When cleaning the outside of your swimming pool alarm, do not use any high-pressure cleaning apparatus, abrasive brush and/or other equipment that may scratch or damage your swimming pool alarm.
- According to Law number 2003-9 of January 3, 2003 concerning the safety of swimming pools, a swimming pool protection system must be installed all year round. Note that the PRECISIO™ does not function when the water surface of your swimming pool is frozen, has light or heavy frost, or when your pool is not completely full. For this reason, it is important to do the following:
 - Either prevent your pool from freezing through active winter maintenance and the programming of necessary filtration periods based on the climatic conditions, and maintain the water level in your pool; or use an alternative standardized device for the winter. If you decide to use an alternative device, we recommend that you disable your PRECISIO™, remove its cover and store it during this time (you can leave the base in place). It is important to perform all of the functional tests when you reinstall it.
 - Your retailer or Maytronics France cannot be held liable in the event of drowning after the removal or complete stopping of your swimming alarm system for whatever reason.
 - Make sure that the water is not frozen in your PRECISIO™ tube (this can happen even if the swimming pool is not frozen). To check this, carry out a functional test of the system.
- If you restart your swimming pool alarm after it is inactive for a long period, perform the tests described on pages 15 and 16. In case of a problem, contact your retailer immediately. Regularly check that your PRECISIO™ is working properly by performing the tests detailed in this guide.

3.1 MAIN MODES

For your security and convenience, the PRECISIO™ uses two major modes:

1. SURVEILLANCE MODE:

PRECISIO™ monitors the pool: the LED  blinks green quickly.

The siren emits a 100 dB signal when triggered by the fall of a 6 kg body in the swimming pool.



Surveillance mode

2. SWIMMING MODE :

This mode is used:

- During the utilization of the pool by one or more persons.
- During a period of 10 minutes (or more) after the last person exits the pool, the water surface becomes still and the PRECISIO™ automatically switches back to **surveillance** mode.
- During heavy winds or for a few minutes after sudden wind gusts during which time the PRECISIO™
- cannot achieve proper monitoring of the pool



BE AWARE THAT the PRECISIO™ DOES NOT MONITOR THE POOL WHILE IN SWIMMING MODE.

NEVER LEAVE THE POOL UNATTENDED IN THIS MODE.

PRECISIO™ doesn't monitor the pool: the led  blinks red quickly.

The alarm is not triggered even if something or someone falls into the pool.

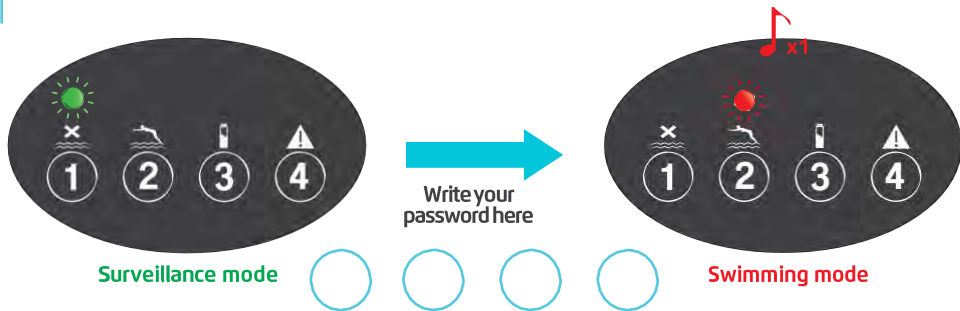


Swimming mode

Note that the device may go into Surveillance mode if someone is in the pool but there is no movement.

3.2 CHANGING MODES BEFORE SWIMMING

If the Surveillance mode is activated (the led blinks green), then do the following:



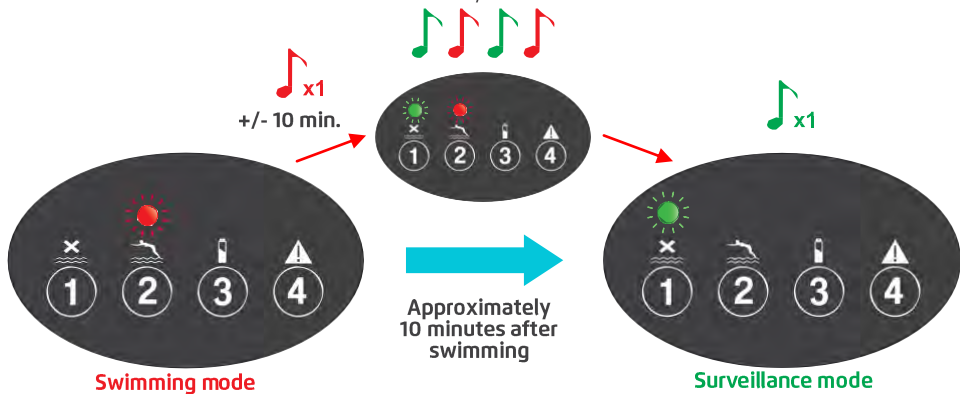
Type your password (default: 1234) to activate the Swimming mode. The **Swimming mode** LED will blink red and you will hear a loud tone. This means you can now swim in the pool.

3.3 AUTOMATIC RESET

After you finish swimming, your pool will not be monitored until the swimming pool alarm is automatically reactivated, which will occur when the pool water is still.

Typically, this automatic reset occurs after approximately 10 minutes depending on the initial pool environmental conditions (wind).

Once the Surveillance mode is reactivated, you will hear a short tone and the Swimming mode and Surveillance mode LEDs will blink simultaneously.



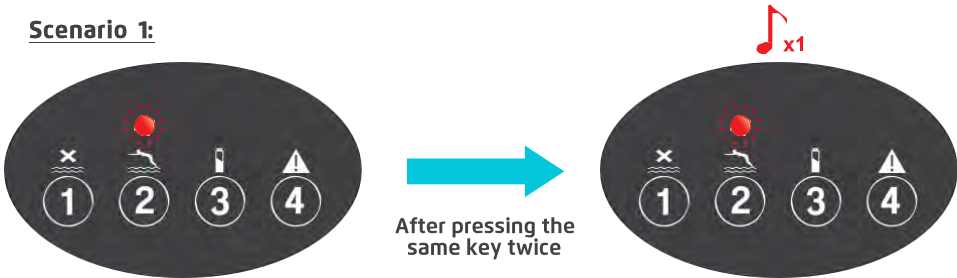
DURING THIS PERIOD, A RESPONSIBLE ADULT MUST SUPERVIZE THE POOL UNTIL THE SURVEILLANCE MODE IS REACTIVATED.

3.4 MANUAL REACTIVATION

If you wish to manually reactivate the Surveillance mode after swimming, exit the pool, wait until the water is still and then press any key on the control unit keyboard twice (example: 1 + 1, 2 + 2)



Scenario 1:



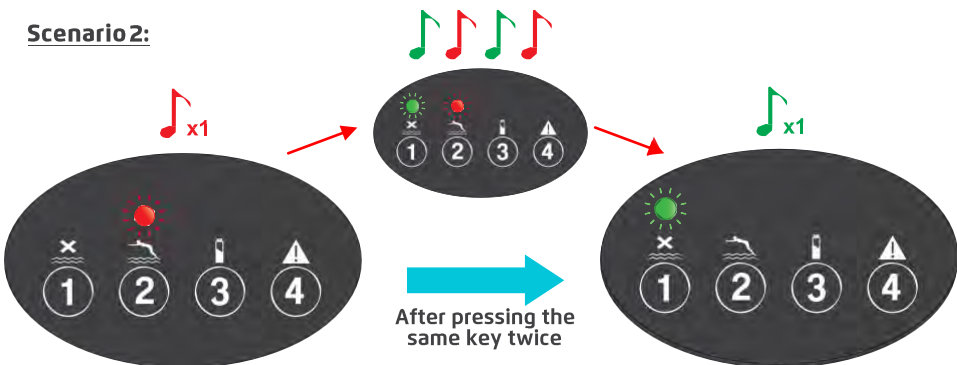
Swimming mode

In this case, the swimming pool alarm detects movement in the pool and rejects your request to reactivate the Surveillance mode. You will hear a loud tone and the LED will continue to blink red. In this case, wait for the pool water to become still and then repeat the operation.



DURING THIS PERIOD, A RESPONSIBLE ADULT MUST SUPERVISE THE POOL UNTIL THE SURVEILLANCE MODE IS REACTIVATED.

Scenario 2:



Swimming mode


In this case, your swimming pool alarm detects light movement in the pool and responds with a high tone sound (PIP). The LEDs blink red and green and the monitoring starts gradually until the pool water is completely still, and then the LED turns green to indicate that the Surveillance mode is activated.

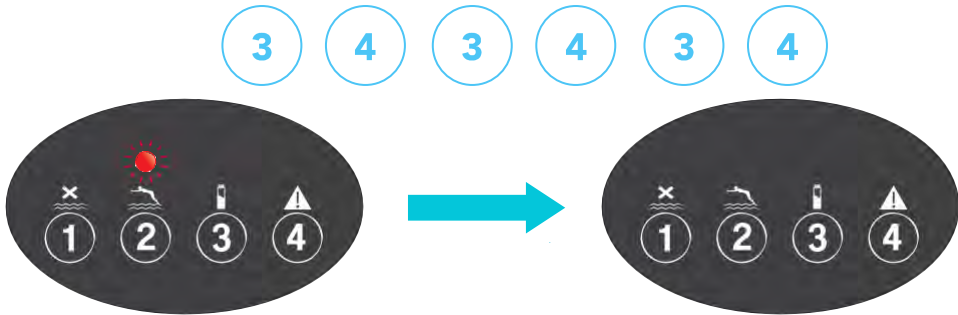
Surveillance mode



DURING THIS PERIOD, A RESPONSIBLE ADULT MUST SUPERVISE THE POOL AS ONLY STRONG FALLS ARE DETECTED BY THE SWIMMING POOL ALARM.

3.5 OFF MODE

 To deactivate the swimming pool alarm and go into the off mode, enter the following code: **3 + 4 + 3 + 4 + 3 + 4**



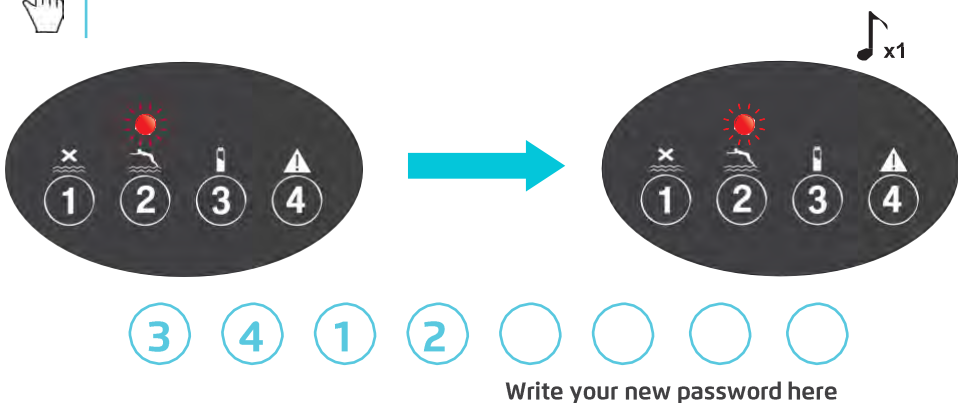
Use the off mode when replacing the batteries (recommended before every new summer season) or for any other operation requiring the dismantling of the swimming pool alarm. **To reactivate the alarm, enter your password.**



ONCE THE SWIMMING POOL ALARM IS DEACTIVATED, IT IS ESSENTIAL THAT A RESPONSIBLE ADULT SUPERVISES THE POOL INSTEAD.

3.6 PASSWORD CHANGE MODE

When you receive your **PRECISIO™**, the initial default password is 1234 on the main unit and on the control unit remote device (optional). If you wish to change this password, enter the code 3 + 4 + 1 + 2 and then enter your new password (4 digits). A loud tone confirms the password change.

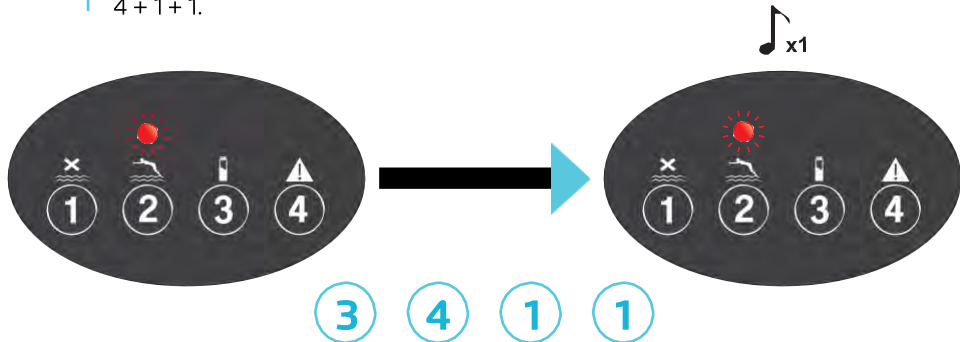


Note that in order to validate your new password, you need to enter the sequence code quickly.

3.7 RESETTING THE SYSTEM



If you have lost your password, you can use the reset system function to reset to the default password (1234). To do this, enter the following code: 3 + 4 + 1 + 1.



You can use the reset system function when the swimming pool alarm is in Surveillance or Swimming mode, and this will affect all the system parameters. If you have installed the unit control remote device, you have to activate the radio link.

3.8 REPLACING THE BATTERIES







Your detection control unit and unit control remote device (optional) use 4 LR20 alkaline batteries. When the batteries become weak, you will receive a visual and sound warning. You must then replace them immediately with batteries of the same model (Duracell LR20, reference PC1300 or MN1300). Note that we submitted these batteries to rigorous testing (specifically under high temperature variations), and we can only guarantee the operation of your PRECISIO™ when these battery types are used. In addition, make sure that the batteries have not expired.

Recommendations

- Switch off the control unit before opening it to change the batteries. During this time, be extra vigilant and make sure that no children are near the swimming pool as the PRECISIO™ is not monitoring the swimming pool.
- For obvious safety reasons, we recommend changing the batteries at the beginning of each swimming season even if there is no indication to do so.
- Take used batteries to the battery collection points (pursuant to decree No.99-374 from May 12, 1999).
- Do not use rechargeable batteries.

3.9 ALERT AND FAILURE SIGNALS

Do not ignore or minimize the following functional problems as **they may indicate a real safety problem.**

Signal	Detected Issue	Possible Actions
Siren triggered 100 dB	Immersion or activity in the swimming pool	<ol style="list-style-type: none"> 1. Press any key to stop the siren. 2. React quickly when the siren is triggered. 3. Read the safety recommendations carefully.
 x1  Flashing red and beeps every 55 seconds	Swimming pool too turbulent to guarantee reliable detection	<ol style="list-style-type: none"> 1. Press any key to stop the beeping. The LED will continue to flash red until the issue is resolved. 2. Check whether the water is turbulent (presence of strong wind) and verify that the tube is well immersed in the water. <p>Note: During this period, a responsible adult must supervise the pool and the swimming pool alarm is not monitoring the pool.</p>
 x2  Flashes red	Weak batteries in the control unit	<ol style="list-style-type: none"> 1. Press any key. The LED will continue to flash red until the problem is resolved. 2. Replace the batteries according to the battery replacement procedure.
  Flashes red and beeps	Weak batteries in the remote device (optional)	<ol style="list-style-type: none"> 1. Press any key to stop the beeping. The LED will continue flashing red until the batteries are replaced. 2. Replace the batteries according to the battery replacement procedure.
Flashes red quickly, regularly and permanently	General failure	Your device is not functional. Contact your technical service representative as soon as possible.

4. INSTALLATING THE CONTROL UNIT

INSTALLATION RECOMMENDATIONS:

- Install and test your swimming pool alarm when the weather conditions are favorable and the pool water is still.
- Install your swimming pool alarm in a place where the swimming pool water depth is at least 60 cm.
- Make sure that your pool water is clear and clean before installing your swimming pool alarm.

This chapter describes how to install your swimming pool alarm in six steps:

- 4.1 Preparing the control unit
- 4.2 Selecting the preferred location for the control unit
- 4.3 Checking the immersion depth of the probe
- 4.4 Performing installation tests
- 4.5 Completing the installation
- 4.6 Installing the control unit remote device

We recommend that a professional installs and maintains your swimming pool alarm.



DURING THE INSTALLATION OF THE SWIMMING POOL ALARM, A RESPONSIBLE ADULT MUST SUPERVISE THE POOL.

REQUIRED TOOLS FOR THE INSTALLATION:

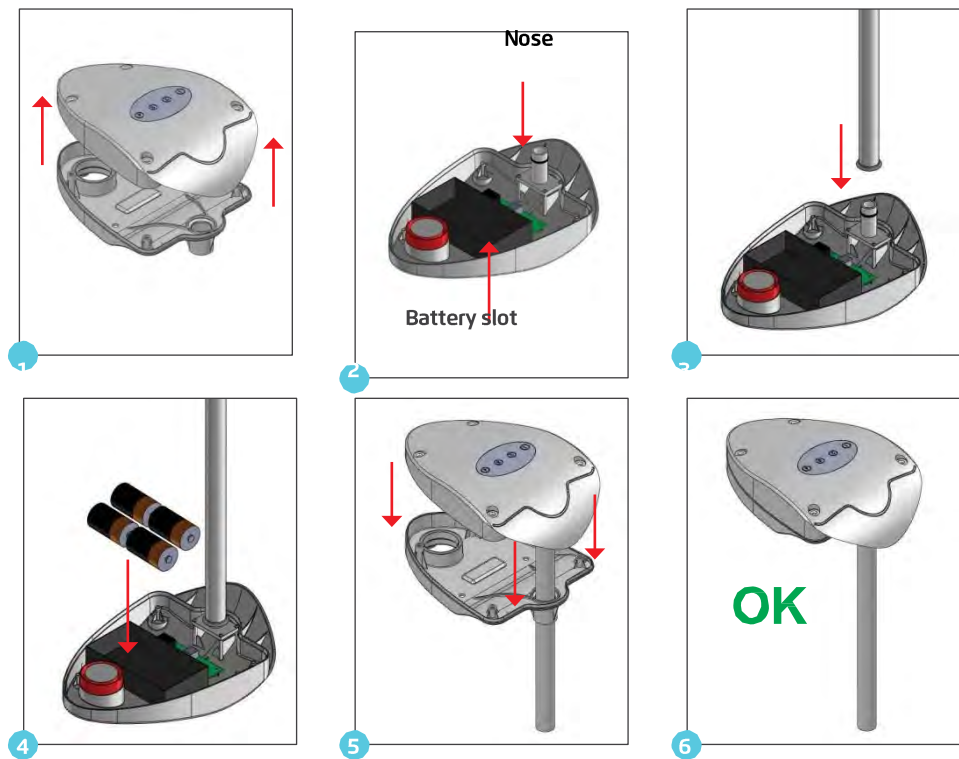


- 1 cross-shaping screwdriver
- 1 tape measure
- 4 water bottles of 1.5 liters each
- 1 tape roller
- 1 rope (2 meters in length)
- 1 concrete drill and the associate driller (Ø 8 mm)
- 1 hacksaw
- 1 pen

4.1 PREPARING THE CONTROL UNIT

To prepare the control unit, do the following:

- 1 Remove the cover from the base plate.
- 2 Return the cover and locate the battery holder.
- 3 Attach the rigid tube to the base plate.
- 4 Insert the four batteries in their proper slot (note their polarities). The alarm will start automatically.
- 5 Place the cover back onto the base.
- 6 The alarm is now functional. Continue to the next step.

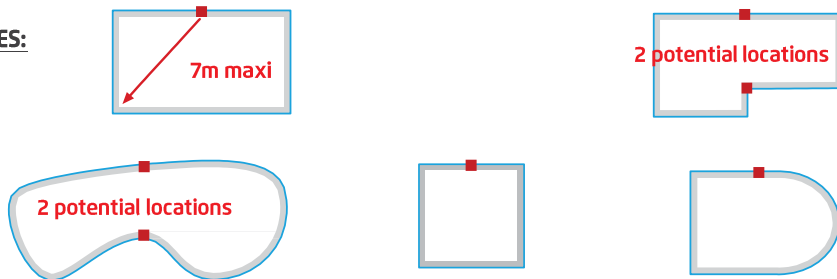


4.2 SELECTING THE PREFERRED LOCATION FOR THE CONTROL UNIT

Select the most suitable location for your swimming pool alarm control unit based on the following guidelines:

- Ensure that the central unit is more than one meter away from the filtration system (return fittings, waste plug, skimmer, vacuum fittings, etc.), waterfall or any other device that may cause disturbance in the pool.
- Your swimming pool alarm has been designed and configured in compliance with the NF P90-307-1 : 2009 standard, and can be used in pools with maximum dimensions of 12x6 meters. For this reason, your swimming pool alarm must not be further than 7 meters from all possible fall locations. In the case of a larger swimming pool, you must use several pool alarms (contact your technical service representative for details).
- In the case of a rectangular-shaped pool, place your swimming pool alarm in the middle of the longest side of your swimming pool on the edge of the pool. If you have a different shaped pool, contact your technical service representative.
- Place the control unit where it can be easily accessed to enable the disabling of the alarm during swimming.

EXAMPLES:



Avoid drilling the fixation holes for your device on the edge of your pool before:

- Deciding on the position that will allow for the most accurate monitoring.
- Ensuring that the probe doesn't touch the edge of the pool (see next page).
- Completing the installation tests.

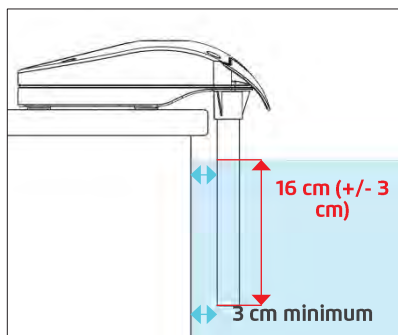
4.3 CHECKING THE PROBE IMMERSION

For optimal functioning, the probe must be immersed 16 cm (± 3 cm) in the water. If the water level has been deliberately lowered, suitable probe extenders are available from your retailer. If the probe is immersed too deep, you will need to shorten it to achieve the recommended immersion depth.



The water level must be checked regularly, and adjusted to maintain an immersion depth of 16 cm (± 3 cm). The installation of a level controller is recommended. Contact our technical service for more information.

If the probe is immersed too deep or not deep enough, your swimming pool alarm will not operate properly. For this reason, ensure that the probe is immersed according to the recommended immersion depth. In addition, the probe should not touch the edge of the pool and should be positioned at a minimum distance of 3 cm from the wall.



4.4 PERFORMING INSTALLATION TESTS

TESTS

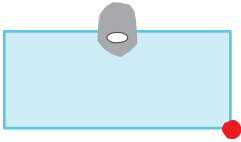


You must carry out a complete functional test of your swimming pool alarm regularly or get a professional to test the alarm.

To test that the **PRECISIO™** is operating properly, you must simulate the falling of a 6kg body into your swimming pool under environmental conditions that are or are not windy (the standard stipulates a weight of 6 or 8 kg). The simplest way to do this is to fill four 1.5 liter plastic bottles with water, attach the bottles together head-to-tail using adhesive tape, and tie a string around them for easy retrieval. In this manner, you can create a dummy model with the following characteristics: 6 kg, 65 cm and density 1. You can use the same dummy model every month when you test your swimming pool alarm.

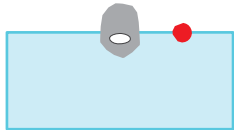
Ensure the **PRECISIO™** is in Surveillance mode. If your device is in Swimming mode, press any button on the swimming pool alarm to switch to Surveillance mode. If for some reason, Surveillance mode is not activated, it means that the pool water is not still. Wait for the pool water to become still before performing the tests.

FALL TEST N°1: FURTHEST POSITION FROM YOUR FALLING DETECTOR



- Check that your device is in Surveillance mode.
 - Choose the furthest position from your swimming pool alarm.
 - Simulate the fall by making your 6 kg dummy fall from the edge of the pool. The siren must be activated in less than 12 seconds after the fall.
- Ensure that the siren is audible from the inside of your house and from the outdoor perimeter of your property. Otherwise you must install the PRECISIO™ remote device. Contact your retailer for information.
 - Press any key to stop the siren. Wait for the automatic reactivation of the swimming pool alarm (the LED flashes green).

FALL TEST N° 2: TWO METERS AWAY FROM YOUR FALLING DETECTOR



- Check that your device is in Surveillance mode.
 - Choose a position two meters away from your swimming pool alarm.
 - Simulate the fall by making your 6 kg dummy fall from the edge of the pool. The siren must be activated in less than 12 seconds after the fall.
- Press any key to stop the siren. Wait for the automatic reactivation of the swimming pool alarm (the LED flashes green).



During these tests and after any fall, you need to wait for the automatic reset of the PRECISIO™ before performing an additional test. The automatic reset period can take more than 10 minutes depending on the wind and stillness of the pool water.

Once all of the tests have been validated, you can proceed with the final installation of your swimming pool alarm. Record the results of these tests on the activation sheet that needs to be returned to us (found at the end of this manual).

If one of these tests fails:

- Refer to FAQ on page 20
- Contact the Maytronics France technical department at the email address support@maytronics.fr with a clear description of your problem.
- Call the After Sales Service department: 

PREM APPEL LOCAL

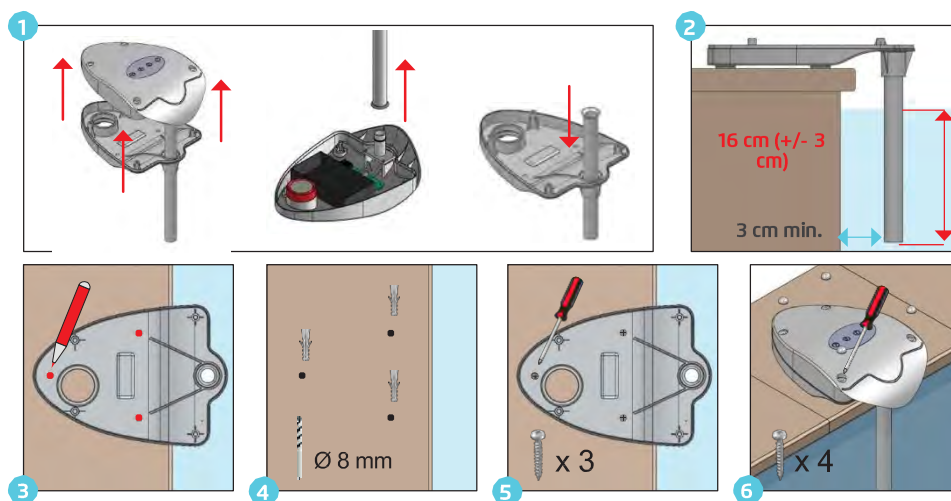
4.5 FINAL INSTALLATION





Activate the **Off mode** on your swimming pool alarm by typing the **following** code: 3 + 4 + 3 + 4 + 3 + 4 on the main unit keyboard. All LEDs will switch off.

3 4 3 4 3 4

- 1 Remove the cover and the probe of the base plate (locate the three holes on it). Remove the tube from the cover and put it on the base plate.
- 2 Place the base on the edge of the pool and the probe at a minimum distance of 3 cm from the edge of the pool and according to the recommended depth immersion.
- 3 Use a pen to mark the location of the three holes at the edge of your pool.
- 4 Remove the base and drill the three holes (Ø 8 mm). Put the three pegs in place (on the surface the brink of the pool).
- 5 Position the base plate in the correct place and tighten the three screws with their washers.
- 6 Return the cover and tighten it on the base plate using the four screws. Replace the four white new covers.



Verify that the device is monitoring:

- Activate the Swimming mode by entering your password. The  LED will flash red and you will hear a tone.
- Wait for the automatic reactivation (the  LED will flash red).
- **Simulate a body fall from the furthest position from your swimming pool alarm.**
- If the control unit is triggered within 12 seconds, your installation is successful.
- Wait for the automatic reactivation of the alarm before leaving the pool.

4.6 INSTALLATION OF THE CONTROL UNIT REMOTE DEVICE (Optional)

The remote device box must be installed so that it cannot be moved with manually. For this reason, fix it to a wall at a point the is higher than 1.20 m from the ground.



1. Positioning the device

Determine where you want to attach the control unit remote device of your PRECISIO™. Note that the maximum distance between the control unit and the control unit remote device is approximately 30 m of open space, but this distance is reduced if there are obstacles. You must also take the following elements into account:

- The purpose of the control unit remote device is to alert you if someone falls into the pool or if the system fails. For this reason, it must be installed so that you can hear the siren when you are indoors. You must therefore place it near the house, inside or on an outside wall.
- Make sure that there are as few obstacles as possible (for example, walls or hedges) between the control unit and its remote device to guarantee an optimal radio link. Metal parts block radio waves (metal shutters for instance).
- To guarantee the durability of your remote device box, you must install it in a location that is sheltered from bad weather (for example, under an awning).

To validate the chosen position, carry out a radio link test. To perform this test, you need to first insert the batteries in the control unit remote device. To do this, remove the remote device box cover, remove the two screws located at the bottom of the box and then lift it slightly to release the unit. Insert the batteries according to the position indicated.

2. PARAMETERIZING THE RADIO LINK

The following steps need to be carried out to install the control unit remote device. Before activating the radio link on both devices, check that the control unit and the control unit remote device are near each other.

To activate the radio link:



Enter the following code on the control unit: 3 + 4 + 2 + 2 + 2 + 1



3

4

2

2

2

1

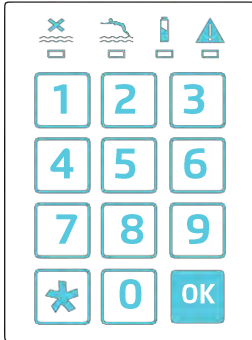




Enter the following code on the control unit remote device: *+7+0+1+1

AND

Enter the following additional code on the control unit remote device: *+7+1+0+1



AND THEN



After a few seconds, the LED flashing on the control unit remote device will appear the same as the LED on the control unit. This means that both devices are synchronized. If for some reason this does not occur, repeat the process.

Note: If you use the factory parameter reset function, the radio link is deactivated and must be reactivated to function.

3. TESTING THE RADIO LINK

The radio links are tested to check the control unit remote device coverage. To perform the test:



Enter the following code on the control unit: 3+4+2+1+1+3



100 dB

If the control unit remote device coverage is good, the siren is triggered. If the siren is not triggered, move closer to the control unit and redo the test.

4. FINAL INSTALLATION OF THE CONTROL UNIT REMOTE DEVICE

To complete the installation of the control unit remote device, place the base of the remote device at the selected location and use a pen to mark where the four holes should be located. Fix the remote device to the wall using the supplied pegs and screws (Ø 6 mm). Close the device with the cover. The remote device is now installed. Perform a final test to verify that the device is working accurately.

5. FREQUENTLY ASKED QUESTIONS

During Installation

1. *What should I do if the swimming pool alarm siren is accidentally activated, or the swimming pool alarm switches from monitoring mode (green light flashing) to non-monitoring mode (red light flashing)?*

- 1.1. Make sure that your swimming pool alarm is more than one meter away from the filtration system (return fittings, waste plug, skimmer, vacuum fittings, etc.), waterfall or any other device that may cause a disturbance in the pool.
- 1.2. Check the immersion depth of your swimming pool alarm and correct it if it is different to the recommended depth.
- 1.3. Perform the installation and validation tests under favorable weather conditions.
- 1.4. Your swimming pool alarm may not be suitable for your type of swimming pool. Contact your retailer or customer service for more information at +0 891 025 026.
- 1.5. Your pool robot cleaner may not be compatible with your swimming pool alarm and may trigger false alarms. Contact your retailer for information.
- 1.6. Check that the device is correctly fixed on the brink of the pool (using the provided pegs and screws).
- 1.7. If none of the above is correct, contact your retailer or our technical support at +0 810 025 030.

2. *What should I do if I perform the test using a 6kg weight and my swimming pool alarm siren is activated after a period longer than 12 seconds or is not activated at all?*

- 2.1. If the dimensions of your pool are greater than 10 x 5m, or your pool has an unusual shape, a single swimming pool alarm is insufficient. Contact our technical support for more information.
- 2.2. Your swimming pool alarm is not positioned at the recommended location and the test was performed beyond the 7m detection range. Reposition the swimming pool alarm at the recommended location.
- 2.3. If none of the above is correct, contact your retailer or our technical support at +0 810 025 030.

During Ongoing Use

1. What should I do if the swimming pool alarm siren is accidentally activated?

- 1.1. Check the immersion depth of your swimming pool alarm and correct if required (should be 16cm).
- 1.2. Check that the weather conditions are not unfavorable (strong winds, storm, etc.) as this may affect the accurate operation of your swimming pool alarm.
- 1.3. Your robot cleaner may not be compatible with your swimming pool alarm and may trigger false alarms. Contact our technical support for more information.
- 1.4. Check that the swimming pool alarm is correctly fixed on the brink of the pool with the pegs and screws supplied.
- 1.5. If none of the above is correct, contact your retailer or our technical support at +0 810 025 030.

2. Your swimming pool alarm is not activated during the routine monthly tests.

- 1.6. Check the status of the batteries.
- 1.7. Check the immersion depth of your swimming pool alarm and correct if required (should be 16cm).
- 1.8. Check that the weather conditions are not unfavorable (strong winds, storm, etc.) as this may affect the accurate operation of your swimming pool alarm.
- 1.9. If none of the above is correct, contact your retailer or our technical support at +0 810 025 030.

For other malfunctions contact your retailer or our technical support at



6. SAFETY

RECOMMENDATION



**You are responsible for the safety of your children!
The risk of accidents is the highest with children
under the age of five. Accidents do not
only happen to others so take all safety precautions
to keep your child safe!**

Supervise and act:

- Always watch your children closely and constantly. The swimming pool alarm does not replace the vigilance of parents and/or responsible adults, common sense or individual responsibility. These remain the essential factor in protecting children under the age of five years of age.
- The purpose of this swimming pool alarm is to indicate danger or the risk of danger. When the swimming pool alarm is triggered, rapid intervention of a responsible adult in less than three minutes is obligatory.
- Appoint a single person at any given time to take responsibility for their safety.
- Increase surveillance when there is more than one person in the swimming pool.
- Teach your children to swim as early as possible.
- Take the time to learn the actions required in case of emergencies, especially those specific to children.
- Forbid diving or jumping in the presence of young children and in swimming pools that are less than 1.8 m deep.
- Forbid running and lively games near the swimming pool.
- Do not allow a child who does not know how to swim properly or who is not accompanied by an adult to enter the swimming pool without a float or water wings.
- Do not leave toys near and in the pool when it is not supervised.
- Keep the water permanently clear and clean.
- Store the water treatment products out of the reach of children.
- If the swimming pool alarm's failure signal is triggered, do not allow children under the age of five to enter the pool until the swimming pool alarm is repaired.
- The user who deactivates the swimming pool alarm must ensure that human surveillance replaces it.

- The responsible adult needs to be especially vigilant after the children exit the pool and until the swimming pool alarm is reactivated (during the automatic reactivation period). The successful reactivation of the swimming pool alarm is indicated by the red LED turning green.
- As the presence of a swim jet system can interfere with the reactivation of the swimming pool alarm, switch off the swim jet system at the end of the swimming session to allow for the reactivation of the swimming pool alarm.
- Note that accurate operation of the swimming pool alarm is not guaranteed at wind levels higher than those specified in the NF P 90-307-1 standard.

Provide:

- An accessible telephone near the pool so that you do not leave your children without surveillance when you use the phone.
- A life belt and perch near the pool.

In case of an accident:

- Get the child out of the water as quickly as possible.
- Call the emergency services immediately and follow their instructions.
- Replace the wet garments with warm blankets.

Memorize and display emergency service numbers near the swimming pool:

- Fire brigade: 18 for France
- SAMU (EMS - Emergency Medical Services): 15 for France
- European emergency number: 112 (accessible from all telephones)
- Regional poison center:

Your swimming pool is an extremely dangerous place for young children. Remember that a mere few seconds of inattention can have dramatic consequences. A child can drown without a sound in a few minutes in only twenty centimeters of water.

This can only be prevented by active and constant adult supervision. For this reason, never leave a child alone in or near the swimming pool.

The installation of your PRECISIO™ swimming pool alarm must in no way lessen your vigilance and active supervision of the swimming pool.

PRECISIO™ is a passive safety element that can assist you if your children evade your surveillance, but you alone remain responsible for their safety.

7. WARRANTY CONDITIONS

Your warranty

By this warranty, Maytronics France, responsible for the marketing of **PRECISIO™** (hereafter: "the Product"), certifies that this product is free of material and manufacturing defects and this, for a period of 2 (TWO) YEARS from its date of purchase. This warranty only covers parts and workmanship that do not fall under warranty exclusions. If during the warranty period, the product is found defective due to material or manufacturing defects, Maytronics France will repair or replace free of charge (at Maytronics France's discretion) the device or its defective parts, and pursuant to the conditions defined below. Maytronics France reserves the right (at its sole discretion) to replace the spare parts of the defective products or to replace the inexpensive products with new or factory overhauled parts or products.

Warranty exclusions

- **Within the 15 days following your purchase, you must register your PRECISIO™. Maytronics France reserves the right to dispute the guarantee if the product is not registered or the information provided is incomplete or illegible.**
- **You must carry out the monthly tests of the product to verify proper functioning and enter the results of the tests in the maintenance log. Any breach of these obligations constitutes a warranty exclusion condition.**
- The warranty does not apply if the product is not installed according to the instructions provided in this guide.
 - If the customer sells the **PRECISIO™** during the warranty period, the new owner loses the warranty. This will be considered as accepted by the new owner.
- This warranty does not apply if the model or serial number appearing on the product has been modified, deleted, removed or made otherwise illegible.

This warranty does not cover the following:

- Periodic maintenance and repair or replacement of parts as a result of normal wear and tear.
- Any adaptation or modification designed to improve the product after it was purchased, and as described in the instructions for use, without the prior agreement in writing of Maytronics France.
- Transport costs, transport costs to domicile and all transport risks relating directly or indirectly to the warranty of this product.
- Deteriorations resulting from:
 - Misuse, including, but not exclusively, inappropriate use of the system or breach of Maytronics France's instructions regarding the installation, use and correct maintenance of the product.
 - Repair carried out by unauthorized repairers or by the actual customer.
 - Accidents, thunder, floods, immersion of the product, fire or any other cause beyond Maytronics France's liability.

ASS return

- Any product return under the warranty must be accepted in advance by Maytronics France. To this end, the customer must first contact Maytronics France's technical service. If the product is acknowledged as defective, a product return number will be provided to the customer.



Warning! Read the warranty recommendations carefully. If one of the above conditions is not satisfied, the warranty attached to your PRECISIO™ system will not be fulfilled.

- The product must be returned with sufficient protection, in its original packaging, to the indicated address, accompanied by the original sales invoice (the customer should save a copy of the invoice). The return number sent to the customer must appear on the packaging next to the addressee's address. The product will not be accepted without the return number. The costs and risks related to returning the product will be covered by the customer.
- On receipt of this package, we will carry out the necessary tests in order to verify the failure. In the case of effective failure, we will carry out its exchange or repair in as short a time as possible.

Neither your retailer nor Maytronics France is obliged to automatically replace your device when it is out of service. You must reinforce active supervision of your swimming pool during this period.

Maximum liability

Maytronics France's liability pursuant to this warranty is limited to the repair or replacement of the **PRECISIO™**. Maytronics France in particular will not be bound to replace or repair the product if the contractual/limited warranty cannot be applied, as set down in the foregoing paragraphs. Maytronics France's entire liability for any defective product can in no case exceed the purchase price of the defective product. This limitation is valid even if Maytronics France cannot repair or replace, or does not repair or replace a defective product and the compensation does not correspond to the main purpose. Maytronics France will in no case and under no circumstances be held liable for the other costs, charges, expenses, loss or damages of any kind whatsoever resulting from the use of the product. Maytronics France is in no case liable for any general, indirect, accessory or special damages.

This warranty constitutes Maytronics France's entire liability for the products and services supplied pursuant to this warranty.

Maytronics France will not assume any other obligation, duty or liability, whether contractual, extra contractual (including liability for negligence) or other towards the customer.

Remember that certain problematic climatic conditions can interfere with the accurate functioning of your product (cause false alarms). In these situations, make sure that your child does not go near the swimming pool unless supervised. In addition, do not deactivate your swimming pool alarm for a long period of time.

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

Maytronics France has only an obligation of diligence: to supply you with a device in working condition, free of material and manufacturing defects. In no case can Maytronics France or its retailers be held liable for the fall or drowning of a child, adult or animal. You alone are responsible for the safety of your swimming pool.

The integrated sirens of the detection control unit and the control unit remote device conform to the requirements of the NF P 90-307-1: 2009 standard. In no case can Maytronics France or its retailers be held liable in cases related to problems regarding the triggering of the sirens.

Declaration of conformity

The **PRECISIO™** swimming pool alarm has successfully passed the following tests vouching for its conformity:

- The NF P 90-307-1 standard relating to swimming pool alarm systems (certificate of conformity delivered by the National Test Laboratory provided with the product).
- The R&TTE 1999/5/CE directive relating to radio electric equipment (certificate of conformity).
- The decree of July 19th 2009.

Product	Detection Control Unit	Control Unit Remote Device
Reference	TRIO14 - M	AQUALARREP10
Electricity supply	+3V—1A	+6V—1A
Frequency band	2,4 GHz	2,4 GHz

PRECISIO™ is a product of Maytronics France.

For any questions concerning this, contact us at:

MAYTRONICS FRANCE
34 Avenue des Tamaris
ZI Athelia II, 13704 La Ciotat Cedex, France



OR by email: support@maytronics.fr

8. MAINTENANCE LOG

The functional tests of your **PRECISIO™** system must be carried out every month. The results must be entered in the table below including the date of the test, the results and your signature.

If one of the tests fail, contact our technical service immediately.

Complete the serial number of your **PRECISIO™**:

Control Unit.....

Remote Device.....

Date of Test	Result: Success or Failure	Signature

NOTES

The serial number appears on the product's personal identification label (on the back of the packaging or on the product).

This system conforms to NF P 90-307



NF P 90-307-1 : 2009

PRECISIO – Ref. TRI014-M
+3v –1A



N° 00000000 (serial number)

TEST VALIDATION SHEET

Register your product and receive a two-year warranty. To do so, connect to <http://warranty.maytronics.com/alarm.aspx> or return the form bellow.

Serial number :
.....

IN THE 15 DAYS FOLLOWING THE PURCHASE of your alarm system, REGISTER your product or FILL OUT this test validation sheet and SEND it BACK TO THE TECHNICAL SERVICE. The sheet must be initialed on

both sides and with the words in writing "tests carried out and passed according to recommendations" followed by your signature (see overleaf).

N.B.: the implementation of the 2-year contract warranty is conditional on registration of the product or sending of this test validation sheet accompanied by a copy of your purchase invoice. Likewise, in case of negligence, illegibility, missing or false information, non-registration or non-receipt of this test validation sheet, Maytronics France accepts no responsibility for the efficiency and reserves the right to refuse its free warranty

The object of these tests is to validate the efficiency of your device and guarantee the best fault detection according to your pool configuration.

Owner

First name: Surname:
Address:
Zip code: Town:
Email: Tel.:
Purchase date:..... Tests carried out on:

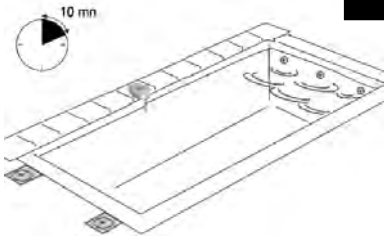
Retailer

Store name:
Address:
Zip code:Town:

Your alarm system was developed and parameterized to detect the fall of a child weighing at least 6 kg into a swimming pool of a maximum size of 12 m x 6 m. Carry out these validation tests without fail after the definitive fixing of your alarm system, scrupulously following the recommendations furnished in the installation and user guide. If you find any malfunction, refer to the advice on the package or contact your retailer.

Make sure that the pool is calm, that there is no wind and that your alarm system is monitoring (flashing green light). If this is not the case, the pool is too turbulent. It is essential that you wait for your pool to be calm in order to carry out your tests.

Test 1 - Filtration



Test 1 validated by the **owner***: Yes No
Test 1 validated by the **installer*** : Yes No

Signature of the owner present :

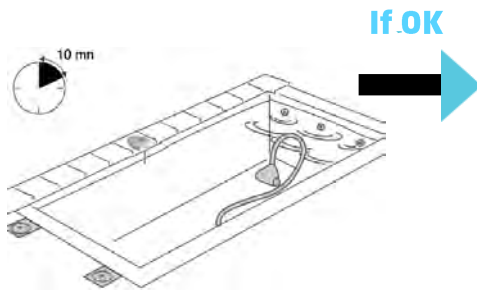
*delete as appropriate



Filtration on for 10 minutes, your alarm system is monitoring (flashing green light).

Test 2 - Robot + Filtration

Carry out this test only if you have a cleaning robot, otherwise go directly to test 3.



Test 2 validated by the **owner***: Yes No
Test 2 validated by the **installer***: Yes No

Signature of the owner present :

*delete as appropriate

Filtration and robot on for 10 minutes, your alarm system is monitoring (flashing green light).

Test 3 - Fall



Test 3 validated by the **owner***: Yes No
Test 3 validated by the **owner***: Yes No

Signature of the owner present :

*delete as appropriate

Filtration and robot on for 10 minutes, your alarm system is monitoring (flashing green light). From the most distant point from your device, let the 6 kg weight fall from on top of the edge. The siren should go off no later than 12 seconds after the fall.

If all the tests are correct, register your product or sign at the bottom of the page, initial and send this document to Maytronics France. If one of these test fails, ask the technical helpdesk for advice at 0 810 025 030.

I certify that the tests were carried out in their entirety and that the device sold to me and delivered complies and is in working order. I acknowledge that I received the product complete (packaging, detection control unit, rigid pipe, remote siren - optional on the PRECISIO™ alarm system, batteries, installation kit, installation and user guide with warranty and monthly maintenance sheets).

Swimming pool immersion sensors are not a substitute for common sense or personal responsibility. Nor is their object to replace the vigilance and responsibility of the parents and responsible persons who are the essential factor for protection of children and dependent persons.

In no case can your retailer or your swimming pool alarm system manufacturer be held liable if a child, a dependent person, any adult or an animal falls into the pool or drowns. The installation of the alarm system must not in any case decrease your vigilance or replace active surveillance of the swimming pool and the surrounding area. Follow the safety advice indicated on your immersion sensor system package and in its installation and user guide.

Date and signature with the words in writing:
"Tests passed and carried out according to recommendations"



NOTES

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PRECISIO

Alarme de piscine

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Maytronics France

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 N°Azur 0 810 025 030

PROX APPEL LOCAL

READ THIS MANUAL CAREFULLY AND KEEP FOR FUTURE REFERENCE
