



Table of contents

Important - Please read first	2
Warranty	2
Rectangular or oval pools	3
Round pools	3
Warning	3
Installation	4
Pool Side Alarm Transmitter Assembly	5
Battery Installation	5
Low Battery Indication	5
Sensitivity Adjust	6
Turn The Unit ON	6
Turn The Unit OFF	7
Reset The Unit	7
Sensor Calibration	7
Test The Unit	8
RF (Radio Frequency) Signal Link Testing	8
Transmitter channel A/B Select	9
Remote Receiver	10
Receiver Channel A/B Select	10
Back Up Power	11
How To Connect To Your Home Security System	11
Trouble Shooting	12

IMPORTANT - Please read first

Congratulations on your purchase of the most advanced and affordable technology available for protecting your pool.

THIS PRODUCT DOES NOT REPLACE THE NEED FOR ADULT SUPERVISION OF ALL PERSONS IN THE POOL AREA. IT IS NOT A LIFE SAVING DEVICE. IT IS AN AID TO A MULTI LEVEL PROGRAM OF POOL SAFETY INCLUDING ADULT SUPERVISION, KNOWLEDGE OF CPR AND SWIMMING INSTRUCTION FOR ALL PERSONS USING THE POOL. IT IS INTENDED FOR USE ON RESIDENTIAL SWIMMING POOLS ONLY AND THE MANUFACTURER ASSUMES NO RESPONSIBILITY FOR INJURIES OR CONSEQUENTIAL PROPERTY DAMAGE WHILE THIS PRODUCT IS IN USE ON A SWIMMING POOL. PROPER INSTALLATION AND MAINTENANCE ARE THE SOLE RESPONSIBILITY OF THE POOL OWNER.

This is not a life saving device. It is an aid to a multilevel protection program including adult supervision, knowledge of CPR and swimming instructor for your child. An excellent video for home swimming instruction is "Aqua Tykes" by Fred Peters and is available by calling 888-574-0538 for \$19.95. We strongly recommend swimming instruction for your young children.

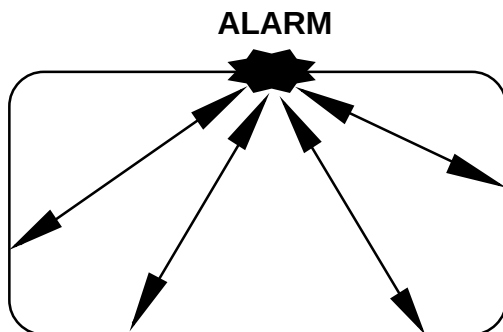
Warranty

ALARM MUST BE REMOVED WHEN WINTERIZING YOUR POOL. FAILURE TO DO SO WILL VOID THE WARRANTY, AND SMARTPOOL WILL NOT BE RESPONSIBLE FOR CONSEQUENTIAL DAMAGES.

To the original purchaser of this product, SmartPool Inc. warrants the product to be free from defective materials and workmanship within six months of the date of purchase or receipt. See your warranty certificate for details

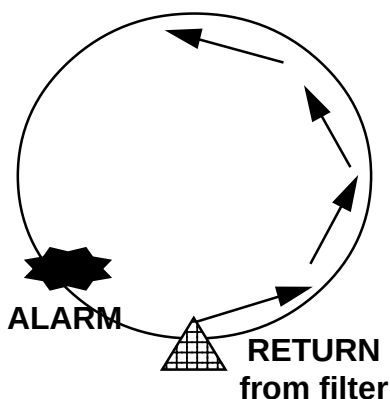
Warranty questions are handled directly with SmartPool. DO NOT RETURN TO YOUR DEALER. For installation questions, call 877-799-7665 (toll free) weekdays 1- 4pm EST.

Rectangular or oval pools



Place alarm in a central location for shortest distance from all parts of the pool

Round pools

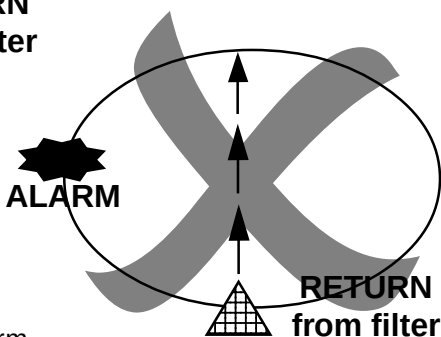


If the water returning from the filter is positioned at 6 o'clock and the flow is counterclockwise, the best location to put the alarm is between 8 o'clock to 9 o'clock position.

On the other hand, if the flow is clockwise, the alarm should be placed between 3 o'clock to 4 o'clock position.

ALL POOLS

Do not point the eyeball of the return towards the center with the alarm at the side. The flow from the return will interfere, so the alarm sensor cannot detect the wave motion properly.

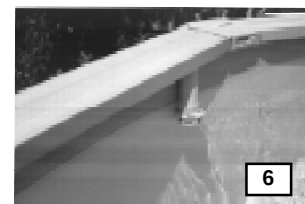
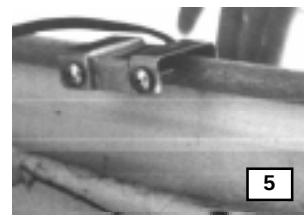
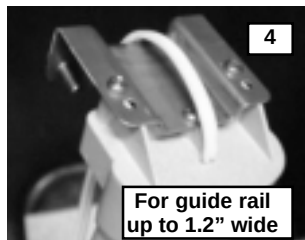
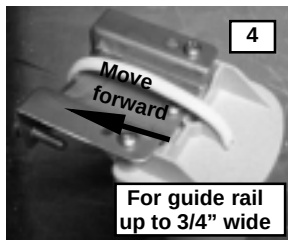
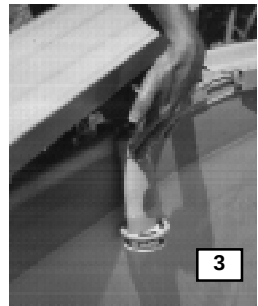
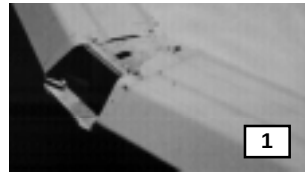


WARNING: Every pool condition varies, test the alarm before use

Installation

1. Take top seat cap of pool off and remove the screws holding one end of the top seat
2. Lift up one end of the top seat of pool
3. Hang the sensor tube onto the guide rail. Back of the sensor unit should rest against the inside of pool wall.
4. For wider guide rail, move the stainless bracket forward by removing the three stainless steel screws and moving the bracket.
5. Tighten the set screws on the stainless steel mounting bracket against the pool wall after inserting the plastic spacer to protect wall and liners.

6. Replace the top seat and top cap.



Pool Side Alarm Transmitter Assembly

The *POOLEYE* poolside alarm transmitter comes with a control head and a separate sensor tube. Before the unit can be used, the two pieces must be assembled together as follows:



Locate the phone jack at the bottom of the control head, and a phone plug coming out from one end of the sensor tube. Place this phone plug into the phone jack. Gently push the tube into the bottom of the control head. The sensor tube end should fit snugly into the bottom of the control head.

Mount the control unit onto the top seat by drilling 1/8" holes through the top ledge. Use the base as a template for holes. Install the unit using screws provided.

Battery Installation

The pool side alarm transmitter is designed to be powered by a standard 9V alkaline battery (not included).

After installing the battery, press the **TEST** button located at the front on the control unit. The alarm will sound either one beep, or 5 consecutive beeps. This will depend whether the unit is turned ON or OFF.

Low Battery Indicator

The unit has a built-in microprocessor which automatically monitors the battery level. When this battery is running low, it will sound a chirping tone approximately once every 60 seconds. Simply replace the 9V battery with a new one when this occurs.

Sensitivity Adjust

Loosen the two screws on the bottom of the sensor.

Move the plastic piece with the pointer pointed to "H" if you want higher sensitivity or to "L" if you want lower sensitivity. The unit is preset at factory to "H".

If you have to place the unit near the return, snap the cap onto the sensor cage facing the direction of water flow.



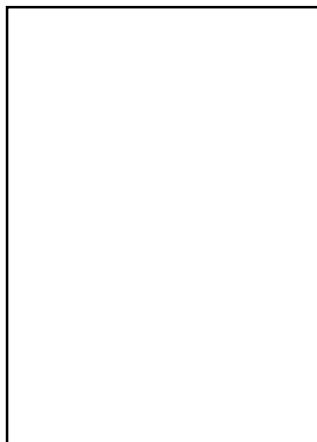
NOTE: The deflector will reduce sensitivity.
Test the alarm unit as described in section 4.0 before use



Turn the unit ON

Press the green ON button and the unit will sound one short beep to indicate it is on. The alarm siren will sound when the sensor picks up any water wave motion. Therefore you should wait a few minutes for the water to settle down before turning on the unit.

If the alarm goes off immediately after you hit this green ON button, recheck the mounting of the alarm unit. If the unit is not securely mounted, pushing the control head will cause the alarm to sound off. If the alarm continues to sound off whenever it is turned on, please read the Sensitivity Adjust section.



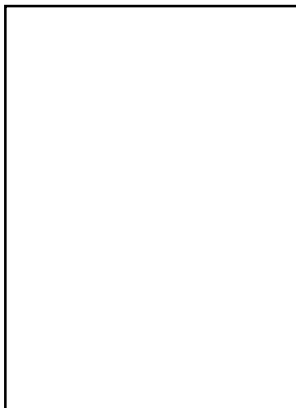
Turn the unit OFF

Press and hold both the green ON and the yellow RESET button simultaneously for 3 seconds, until you hear 5 consecutive beeps. The unit is now turned OFF.



Reset the unit

Press the yellow RESET button to turn OFF the siren. This will reset the unit to the ON state automatically.



Sensor Calibration

While the life expectancy of this alarm system is in excess of five years, the effects of a swimming pool environment may shorten this period. It is recommended that the alarm be recalibrated or refurbished by the manufacturer every 5 years after installation. For questions about installation and warranty, call 1-877-799-7665 1-4 pm EST Monday - Friday.

Test the unit

Fill a 5 Gal pail 1/3 full with water and drop the pail from a height of 6" from the surface of water. The wave created should activate the alarm after allowing ~4



ft per second to reach the alarm. Adjust the sensitivity if necessary.

Between each test, turn OFF the unit and wait a few minutes until the water settles down, and then turn on the unit again.

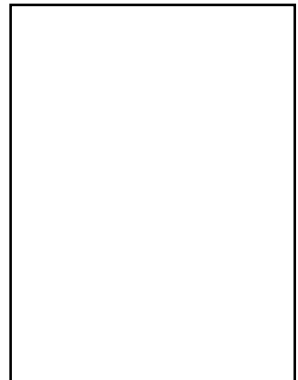
The unit will chirp once every 60 seconds when the battery is running low.

RF (radio frequency) signal link testing

This unit provides a convenient RF link test, to ensure good RF transmission without setting off the alarm.

Hit the **TEST** button and hold for a couple of seconds. The unit will sound one beep or five consecutive beeps. This will depend on whether the unit is set to ON or OFF. Continue to hold this **TEST** button for three seconds until you hear three consecutive beeps. The unit will send out a RF alarm signal to the receiver inside the house without setting itself off.

The receiver inside the house should sound within ten seconds after this three consecutive beeps. If the receiver does not ring, move the receiver to another location and check the installation again. Ensure all *POOLEYE* devices are set to the same channel. (Refer to channel A/ B select of both pool side alarm transmitter and receiver).



IMPORANT NOTES:

Remember to check the RF link periodically to ensure good RF transmission. If the RF signal is weak, replace the battery in the pool side alarm with a new one.

RF signal can be transmitted through a solid wall. However, it is possible that this may weaken the RF signal. To avoid this, it is important to place the receiver in a straight line of sight to the transmitter whenever possible.

The microprocessor (built in the transmitter) is programmed to make three attempts to send the encoded RF signal out to the receiver. If the first attempt fails, the transmitter will change the coding and make a second attempt. If it fails again, the transmitter will change the coding and try for the third time. As a result, you may experience a few seconds delay between setting off the pool side alarm transmitter to the receiver.

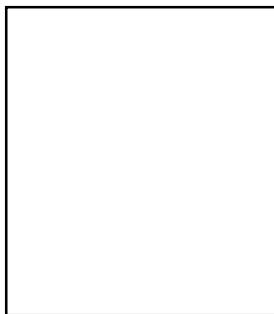
Battery level affects RF signal strength. Weak battery in the pool side alarm transmitter will give weak RF signal out.

Transmitter Channel A/B select

The pool side alarm RF (radio frequency) signal can be transmitted from the transmitter to the receiver inside the house by two different channels (A or B). All units are preset at channel A in the factory. However, if your alarm system interferes your neighbor's alarm system, you may have to change your alarm unit to channel B.

The pool side alarm unit has a built-in channel select switch. This is located inside the battery compartment. Follows these instructions to change the channel.

1. Open the battery door and remove the battery. You can see an A/B slide switch located at the corner of battery compartment.
2. Use a screw driver to push the switch handle from A to B. Make sure to do the same channel adjustment on **ALL** your *POOLEYE* devices, including the receiver.



Remote receiver

Place the remote receiver inside your house but close to the pool side alarm unit and at a straight line of sight. DO NOT place the unit near large metal objects or large motors, such as a refrigerator, or washing machine. This will adversely affect the RF reception

Plug in the A/C adapter and the green LED will stay ON, indicating it is ready to receive signals.

Hit the RESET button located between the two LEDs, to reset the receiver. Each reset will disable the receiver for 10 seconds, allowing you enough time to go to the pool side alarm transmitter to reset it, or turn it off. During this 10 second timeframe, the red LED will flash every 1 second. If you do not reset the receiver, it will reset automatically in four minutes.



Remote Receiver Channel A/B select

The pool side alarm or other POOLEYE alarms RF (radio frequency) signal can be transmitted from the transmitter to the receiver inside the house by two different channels (A or B). All units are preset at channel A in the factory. However, if your alarm system interferes your neighbor's alarm system, you may have to change them to channel B.

The remote receiver has a built in channel select switch, located inside the receiver box. Loosen the four screws and remove the battery door. You can find a slide switch at the corner that mark "A" and "B". Push the switch handle from position "A" to position "B". Make sure you do the same channel adjust on all your *POOLEYE* devices, including the pool side alarm transmitter. Check the RF link periodically to ensure good RF transmission.

Back up power

The receiver unit is designed to use a regular alkaline 9V battery as back up power source. To install this back up battery, remove the 4 screws and open the battery door.

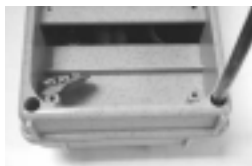


9V alkaline battery
Back up power

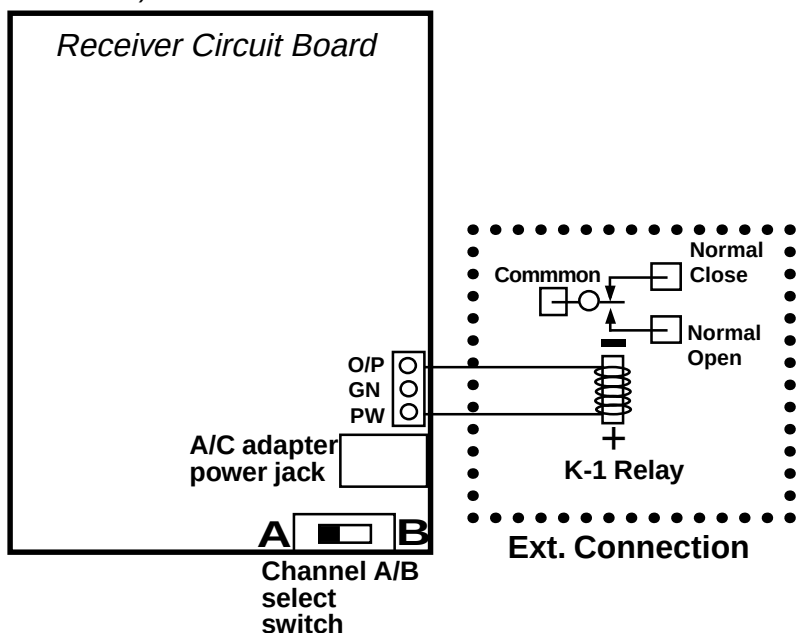
How to connect to your home security system

The remote receiver has a three junction terminal block, so that you can connect it to your home security system or other third party safety device. When the receiver receives a RF (radio frequency) alarm signal, it will activate the terminal block in 3 seconds. Resetting the receiver within 3 seconds ensures that you will not activate your home security system.

Loosen the screw at the top and remove the blue cap. Remove the battery door and loosen the two screws. Open up the box and you can find a 3 junctions terminal block near the A/C adapter power jack.



The terminal block signal switching is controlled by microprocessor. For current switching, it is recommended to connect a K-1 type relay (not included) to the terminal block as shown.



Trouble Shooting

Q. Alarm unit cannot detect underwater wave signal

- ★ Check the unit by hitting the TEST button. If the unit does not give any beep, replace the 9V battery with a new one.
- ★ Check the headphone jack connection between the sensor tube and the alarm unit control head. Make sure it is connected properly.
- ★ Check the sensitivity setting on the bottom of the underwater sensor and the depth of the sensor into the water.

Q. The alarm unit gives frequent false alarms

- ★ Check the sensitivity setting. The sensitivity may be set too high.
- ★ The sensor can detect any water disturbance including the flow from the filter pump. Place the alarm unit away from the return, or put a deflector cap on the sensor cage.

Q. The poolside alarm unit siren cannot be turned OFF

- ★ Push and hold BOTH the green button and yellow button for 3 seconds until you hear 5 consecutive beeps.
- ★ Wait until the water settles down before you turn on the unit again.

Q. The receiver does not sound alarm immediately when the poolside alarm goes off

- ★ The transmitter makes 3 attempts in 10 seconds. If the receiver missed the first transmission because of interference, it has the 2nd and then the 3rd chance to pick up the RF alarm signal. Because of this, occasionally the receiver may experience a time delay.
- ★ Weak RF signal is more susceptible to any interference. Replace the 9V battery with a new one.

Q. The receiver cannot receive RF alarm signal.

- ★ When the blue RESET button on the front is pressed, the unit is disabled for 10 seconds. During this 10 seconds, it will not receive any RF signal. This allows you enough time to go to the poolside to turn off or reset the poolside alarm.
- ★ Check the channel A or B select. Make sure every unit is set at the same channel.
- ★ Place the receiver closer to the transmitter and at a straight line of sight. The RF signal sending out from the transmitter is directional. Placing the receiver at another location may give a better reception. Avoid any big metal object such as refrigerator, oven or washing machine etc. between them.
- ★ The transmitter has an antenna inside the control head. Rotating the control head may affect the RF signal sending out, similar to your TV antenna. Make sure the wide side of the underwater sensor remains parallel to the pool wall.

Q. The receiver alarm siren cannot be turned OFF

- ★ Press the SYSTEM RESET switch located on the back of the unit.

Q. Pool alarm sounds off when I use my pool cleaner

- ★ Your pool cleaner can create the same type of water disturbance as that created by a child falling into water. Therefore the pool alarm will be set off if you activate your automatic pool cleaner while the alarm is ON.

Avant d'installer votre système d'alarme, assurez-vous de bien comprendre ces directives de base:

1) Est-ce que j'ai acheté le bon système?

Il y a beaucoup de différences entre les piscines creusées et les piscines hors-terre. Assurez-vous d'installer l'alarme conçue spécifiquement pour votre type de piscine.

2) À quel emplacement dois-je placer l'alarme?

La technologie exclusive utilisée pour votre alarme réagit aux vagues sous-marines créées par un objet de 7 kg ou plus qui entre dans l'eau. Ces vagues voyagent à une moyenne d'environ 1.2 m par seconde. Même si votre alarme peut être déclenchée jusqu'à une distance de 10 m, il est important de placer l'alarme dans un emplacement où elle peut être activée dans le plus court délai possible après une intrusion non désirée. Utilisez ces deux directives simples lorsque vous choisissez un emplacement pour votre alarme:

(A) Choisissez un emplacement qui est centralisé: ceci pourrait être un emplacement qui offre la distance la plus courte à partir de toutes les régions de la piscine (comme le centre du long mur sur une piscine rectangulaire). Si votre emplacement est plus de 10 m de toutes les régions de la piscine, achetez une deuxième unité.

(B) Vérifiez la turbulence de l'eau. Quelques régions de votre eau de piscine sont plus turbulentes que d'autres, en particulier à cause des accessoires de retour de l'eau de la piscine. Il est préférable de placer l'alarme dans une région qui est relativement calme quand la pompe fonctionne.

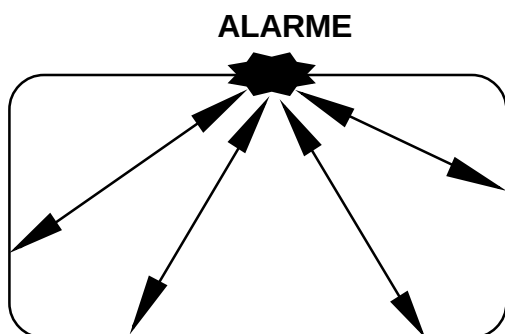
3) Est-ce que ce système d'alarme est tout ce dont j'ai besoin pour protéger ma piscine?

Non. Ce n'est pas un appareil de secourisme. Il fait partie d'un programme de protection à plusieurs niveaux qui comprend la surveillance adulte, la connaissance de la réanimation cardio-pulmonaire, et des instructions de natation à votre enfant. Un excellent vidéo avec instructions de natation intitulé "Aqua Tykes" par Fred Peters est disponible en appelant au 888-574-0538 pour un montant de 19,95\$. Nous vous recommandons fortement les cours de natation pour vos jeunes enfants.

SmartPool, Inc.

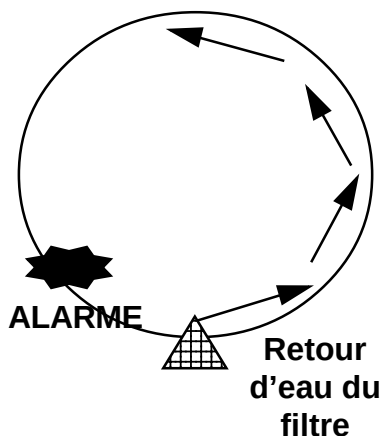
575 Prospect Street Unit #205
Lakewood NJ 08701
Tel: 877-799-7665
Patent Number: 5,910,772

Piscines rectangulaires ou ovales



Placez l'alarme dans un emplacement centralisé pour une distance la plus courte à partir de toutes les régions de la piscine

Piscines rondes

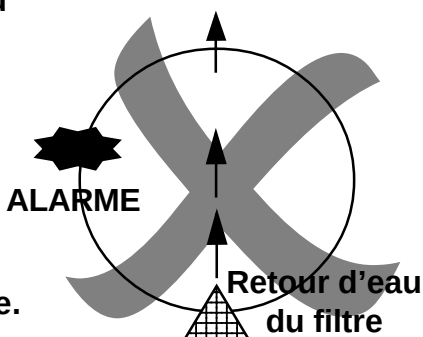


Si l'eau qui revient du filtre est placée à 6 heures et le courant est dans le sens contraire des aiguilles d'une montre, le meilleur emplacement pour l'alarme est entre la position de 8 heures et 9 heures.

Par contre, si le courant est dans le sens des aiguilles d'une montre, l'alarme devrait être placée entre la position de 3 heures et 4 heures.

MISE EN GARDE

Chaque condition de la piscine varie, testez l'alarme avant son usage.



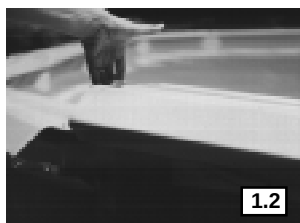
Ne pointez pas la balle du retour d'eau vers le centre avec l'alarme sur le côté. Le courant du retour d'eau perturbera, et ainsi le détecteur de l'alarme ne pourra pas détecter le mouvement de la vague correctement

1.0 Installation

- 1.1 Enlevez le joint de siège de la piscine et enlevez les vis qui tiennent une extrémité du joint de siège.



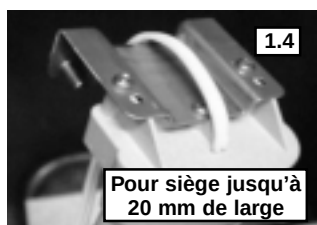
- 1.2 Soulevez une extrémité du joint de siège de la piscine.



- 1.3 Suspendre le tube détecteur sur le siège. L'arrière de l'unité du détecteur doit reposer contre le mur de la piscine.

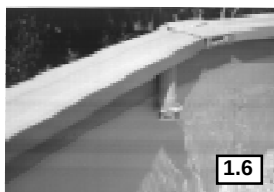


- 1.4 Pour un siège plus large, avancez le support en acier inoxydable vers l'avant en enlevant les trois vis en acier inoxydable.



- 1.5 Serrez les vis sur le support du montant en acier inoxydable contre le mur de la piscine après avoir inséré la cale séparatrice de plastique pour protéger le mur et la toile.

- 1.6 Installez l'unité de contrôle sur l'extérieur, à la verticale de la piscine.



- 1.7 Remplacez le siège et le joint du siège.



2.0 Réglage de la sensibilité

2.1 Desserrez les deux vis sous le détecteur.



2.2 D'placez la pièce de plastique avec la flèche pointée à "H" si vous voulez une plus haute sensibilité ou à "L" si vous voulez une sensibilité inférieure. L'unité est préréglée à "H" à l'usine.



2.3 Si vous devez placer l'unité près du retour d'eau, enclenche le capuchon sur la cage du détecteur en faisant face au courant de l'eau.

NOTE: Le déflecteur réduira la sensibilité. Testez l'unité de l'alarme tel que décrit dans la section 4.0 avant l'usage.



3.0 Mise en marche

3.1 Installez 4 piles AA



3.2 Pressez le bouton noir à l'avant pour tester l'unité.

3.3 Tournez le bouton vers la droite pour mettre l'unité de l'alarme en marche jusqu'à ce que vous entendiez un signal sonore.

3.4 Pour éteindre l'unité, poussez le bouton bleu vers la droite et tourner vers la gauche le commutateur principal jusqu'à ce que l'étiquette rouge soit exposée.



3.5 Si l'alarme est activée immédiatement, éteignez et ajustez la sensibilité pour qu'elle soit moins forte jusqu'à ce que l'alarme se remette en marche sans activation non désirée ou enclenchez le déflecteur sur la cage du détecteur pour réduire la turbulence de l'eau autour du détecteur.

*New picture showing
the child proof lock*

*New picture showing
the child proof lock*

4.0 Testez l'unité

4.1 Remplissez un seau de 20 l au 1/3

avec de l'eau et laissez tomber le seau d'une hauteur de 6 po de la surface de l'eau.

La vague créée devrait activer l'alarme après avoir permis à ~1 m par seconde d'atteindre l'alarme. Ajustez la sensibilité si nécessaire.



4.2 Entre chaque test, éteignez l'unité et attendez quelques minutes jusqu'à ce que l'eau se calme, et ensuite remettez l'unité en marche.

4.3 L'unité émet un son à toutes les 60 secondes lorsque la pile est faible.

5.0 Calibrage du détecteur

L'espérance de vie de ce système, d'alarme peut excéder cinq ans, mais les effets d'un environnement de piscine peuvent raccourcir cette période. Il est recommandé de calibrer de nouveau l'alarme ou de la remettre à neuf par le fabricant à tous les 5 ans après son installation. Pour vos questions au sujet de l'installation et de la garantie, contactez le 1-877-799-7665.

VERIFICATION OF COMPLIANCE

Report No. J99028444d

Verification is hereby issued to the named APPLICANT and is VALID ONLY for the equipment tested hereon for use under the rules and regulations listed below

Equipment Under Test:

Trade Name:

Model No.:

Serial No.:

Pool Alarm

Smartpool Inc.

PE-12

Not Labeled

Applicant:

Contact:

Address:

Smartpool Inc.

Mr. Joe Dubrofsky

30 Lower Village Gate

Toronto Ontario M5P 3L7

Canada

Tel. number:

416/487-4342

Fax number:

416/487-4773

Applicable Regulation:

EN50082-1:1997

Date of Test:

November 4-9, 1999

We attest to the accuracy of this report:



Ahmad Safdari
Ahmad Safdari
Test Engineer

David Chernomordik
David Chernomordik, Ph.D.
EMC Site Manager



Intertek Testing Services NA Inc.

1365 Adams Court, Menlo Park, CA 94025

Telephone 650 487 7000 Fax 650 487 7001

Warnock Hersey





Intertek Testing Services

ETL SEMKO

VERIFICATION OF COMPLIANCE

Report No. J99028444b

Verification is hereby issued to the named APPLICANT and is VALID ONLY for the equipment tested hereon for use under the rules and regulations listed below

Equipment Under Test:

Trade Name:

Model No.:

Serial No.:

Pool Alarm

Smartpool Inc.

PE-12

Not Labeled

Applicant:

Contact:

Address:

Smartpool Inc.

Mr. Joe Dubrofsky

30 Lower Village Gate

Toronto Ontario MSP 3L7

Canada

Tel. number:

416/487-4342

Fax number:

416/487-4773

Applicable Regulation:

EN50081-1:1992

Date of Test:

November 4 - 9, 1999

We attest to the accuracy of this report:

Ahad Safdari

Test Engineer

David Chernomordik, Ph.D.

EMC Site Manager



Intertek Testing Services NA Inc.

1365 Adams Court, Menlo Park, CA 94025

Telephone 650-463-2900 Fax 650-463-2910 Home Page www.etlsemko.com

Warnock Hersey





LISTING REPORT

Intertek Testing Services N.A.

1365 ADAMS COURT

MENLO PARK, CALIFORNIA 94025

Job No. J99028460

Issued: 01/21/00

REPORT NO. 99284602

INSPECTION, TESTS AND EVALUATION
OF A

Swimming Pool Alarm

RENDERED TO

Smartpool Inc
Toronto, Ontario

GENERAL: This Report gives the results of the inspection, tests and evaluation of a PE-12 AND PE-21 for compliance with applicable requirements of the Standard for Audible Signal Appliances, (ANSI/UL 464, 7th Edition - 1995) and Signal Equipment, Consumer and Commercial Products (CSA C22.2 No. 205-M1983). This investigation was authorized by check No 2077, dated 10/07/99. A prototype sample, in good condition was provided by the client on 11/04/99 and tested at ITS's Menlo Park, CA, facility.

Audible Signal Appliances - ANSI/UL 464, 7th Edition - 1995
Signal Equipment, Consumer and Commercial Products - CSA C22.2 No. 205-M1983

CONCLUSION

A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the Standard for Audible Signal Appliances, (ANSI/UL 464, 7th Edition -1995) and Signal Equipment, Consumer and Commercial Products (CSA C22.2 No. 205-M1983).

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