

# LevelSmart™

## AutoFill System

Product Manual



# Table of Contents

Safety Instructions.....	4
Parts Included .....	6
Specifications.....	7
Product Description .....	7
Installation.....	9
Flow Control Valve.....	9
Valve Controller .....	10
Running Antenna Wire .....	11
Mounting the Level Sensor .....	12
Pairing & Calibration.....	14
LED Descriptions and functionality.....	15
Magnet Switch Functionality .....	16
Resetting the Valve Controller and Level Sensor.....	17
Testing the Electronic Activation of the Flow Control Valve .....	17
Troubleshooting.....	18
Toro Water Valve.....	20
Warranty .....	20
Contact Information.....	Backcover

Thank you for choosing the LevelSmart™ Auto Fill System, by H2flow. This owner's manual will provide you with valuable information necessary for the proper installation and care of your new product. Please take a few moments to thoroughly read the instructions and familiarize yourself with all of the operational aspects of your new Auto Fill System.

For your own records, please attach a copy of your sales receipt to this manual. Also, please write the store name and location, contractor/service person, and date purchased, in the space provided below:

Store Name: \_\_\_\_\_

Location: \_\_\_\_\_

Contractor/Service Person: \_\_\_\_\_

Date Purchased: \_\_\_\_\_

## **IMPORTANT SAFETY INSTRUCTIONS**

Before installing and using your Auto Fill System, please read this owner's manual carefully. Store this manual in a safe place for future reference. Your safety and the safety of others is very important to us. Please pay close attention to all safety messages outlined in this owner's manual.

**WARNING:** To reduce the risk of fire, electrical shock, or injury when using your Auto Fill System, adhere to the following basic precautions:

- Plug adapter into a grounded 3 prong outlet.
- Do not remove the ground prong.
- Do not use a plug adapter.
- Do not use an extension cord.
- Unplug the Auto Fill System before servicing.
- Keep power adapter away from water.



This is a safety alert symbol.  
 This symbol alerts you to potential hazards that can harm you or others or even cause death.  
 All safety messages will directly follow the safety alert symbol and/or the words "DANGER" or "WARNING".



Failure to immediately follow these instructions may cause serious injury or even death.

All safety messages alert you of potential hazards, how to reduce the chance of injury, and what can happen if instructions are not followed correctly.

## ELECTRICAL REQUIREMENTS

**WARNING**

**Electrical Shock Hazard**

Plug into a grounded 3 prong outlet.  
 Do not remove the ground plug.  
 Do not use an adapter other than the one provided with this product.  
 Do not use an extension cord.  
 Failure to follow these instructions can result in death, fire, or electrical shock.

Specific electrical requirements are listed in the chart below. Follow the requirements below for the type of plug on the power supply cord.

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### Wiring Requirements

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- Input: 120VAC 60Hz
  - Output: 24VAC, 1000mA, 24W
  - Use on single outlet circuit only
-

## PARTS INCLUDED

(Appearance may vary)



LevelSmart™ Level Sensor



Toro Remote Valve



Valve Controller



Magnet



AC Power Transformer



Marine grade  
2-part wet or  
dry AB epoxy  
mounting putty



Stainless Steel  
mounting screws  
(x4)



Wire nuts (x2)

### Items included:

- LevelSmart™ Level Sensor
- Valve Controller receiver with wires for Valve, integrated 12' antenna, 24VAC power connector
- 120VAC power transformer with 24VAC output
- 4 each SS mounting screws
- Marine grade wet or dry epoxy mounting putty
- 1" FNPT Toro Professional Series flow control 24VAC valve
- 2 each wire nuts
- Mounting putty for Level Sensor

Please report to H2flow Controls, Inc. any deficiencies in the above by calling 1-888-635-0296

## SPECIFICATIONS

<b>Wireless communication distance</b>	500 feet line of sight <sup>(1)</sup>
<b>Fail safe valve shutoff</b>	7 minutes. Valve is not to be on more than 7 minutes of every hour.
<b>Battery life</b>	7-14 years <sup>(2)</sup>
<b>Maintenance Routine</b>	None
<b>Max ambient operating temperature</b>	130°F (54°C)
<b>Min ambient operating temperature</b>	40°F (4.5°C)
<b>Standard valve controller antenna length</b>	12 feet (3.66M)
<b>Valve operating voltage</b>	24VAC
<b>Valve Controller and level sensor dimensions</b>	2.875"(W) x 2.875"(H) x 5/8" (D)

<sup>(1)</sup> With fully utilized standard antenna; can be field extended.

<sup>(2)</sup> Depends on temperature and duration of pool season; attractive unit replacement program for expired batteries.

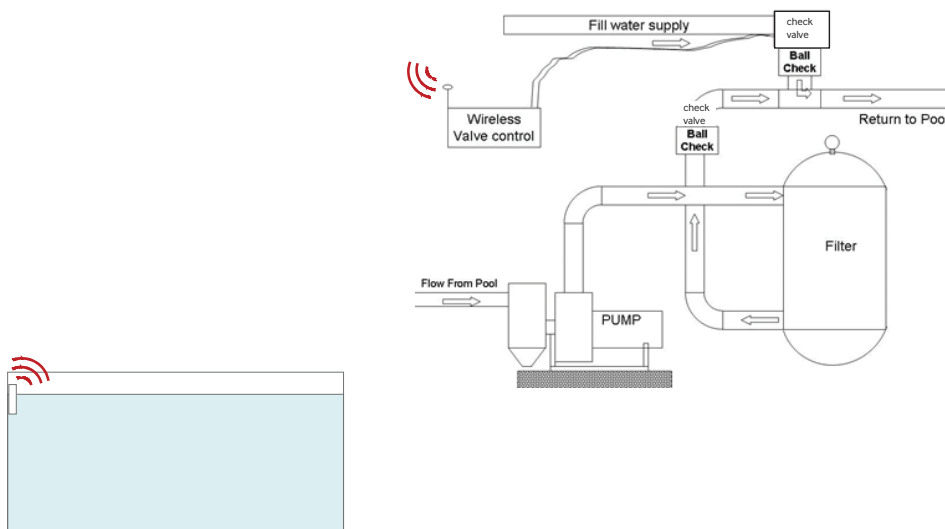
## PRODUCT DESCRIPTION

LevelSmart™ is a revolutionary system for accurately and reliably controlling the water level in swimming pools, spas, fountains, water features and ponds.

LevelSmart™ uses advanced microprocessing techniques and wireless technology to automatically add water to the pool when required.

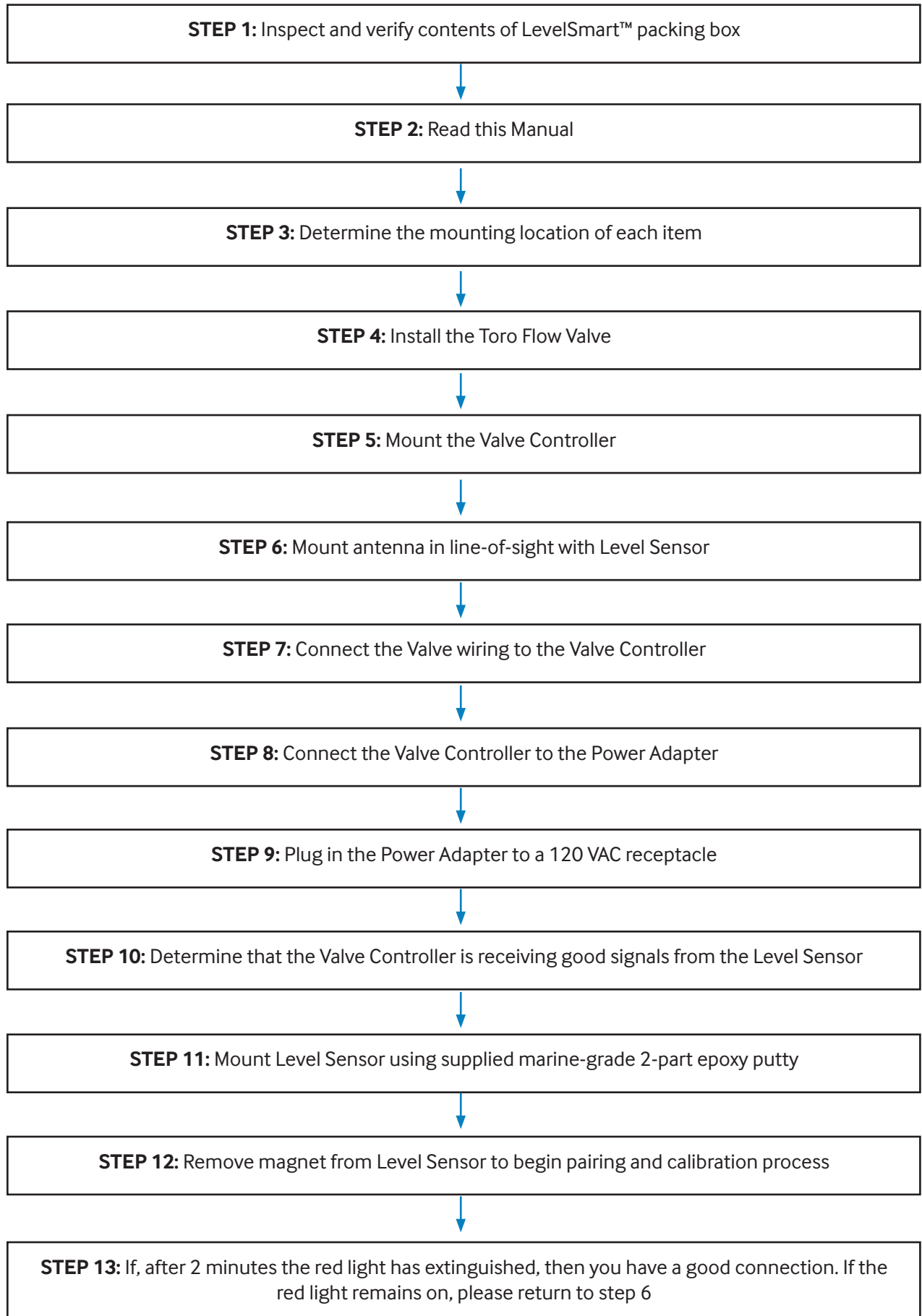
The system comprises a pool mounted wireless Level Sensor. The Level Sensor accurately determines the current water level versus the water level memorized during setup. If the Level Sensor determines that additional water is required, it wirelessly communicates that condition to the Valve Controller. The Valve Controller turns on a valve until the water has reached the required level.

The system will activate once every hour and if it determines water level adjustment is needed, the systems flow control valve will operate for a maximum duration of 7 minutes per hour.



Installation and setup is both simple and quick. However, as with any technical product, its' overall success will be determined by the users willingness to follow the instructions provided in this manual.

## OVERVIEW OF INSTALLATION AND SETUP



## INSTALLATION

*Extras you may want to have on hand before starting (depending on your installation)*

- Extra of your favorite epoxy putty or glues for marine applications
- Extra Long Stainless Steel screws (for mounting the Valve Controller)
- Expand-lugs for plaster wall or hollow wall mounting (for mounting the Valve Controller)
- ABS or PVC glues
- Thread tape
- Zip ties for wire management
- Wall fasteners for antenna
- 3M 5200 Fast Set for removable mounting

### 1) Flow Control Valve

**a)** Be sure to pay attention to the direction of the water flow through the valve; there is an arrow molded into underside of valve body.

**b)** Make sure that the manual control lever (A) is set to the OFF position.

**c)** Turn the flow control rate knob (B) to its fully clockwise position and then turn counter clockwise one half turn.

**d)** Use either rigid pipe or a suitable flexible hose to connect a fresh water supply to the valve.

**e)** When necessary, install a pressure reducer in the supply line to the Flow Control Valve.

**f)** When local codes require it, install a check valve into the supply line to prevent the pool water from entering the fresh water supply.



(B) Flow Control Rate

(A) Manual Control Lever



## 2) Valve Controller

a) Using (2) of the stainless steel screws provided, mount the Valve Controller. Be careful to note the mounting location relative to the distance from the intended mounting location of the Power Supply (Step 3) and the already installed Flow Control Valve (Step 1). The wires to both devices have a specific length.

b) Connect the two pre-stripped wire ends from the lower left cable of the Valve Controller and, using the wire nuts provided, connect these to the two pre-stripped ends of the wires on the Flow Control Valve. These wires are not polarity sensitive.

c) Using (2) of the stainless steel screws provided, mount the Power Transformer, taking note of the length of the pre-molded cable for connecting to a 120V power receptacle.



d) Connect the 2-pin plug on the end of the wire coming from the lower right of the Valve Controller into the socket in the base of the Power Transformer. Tighten the plugs nut until snug.

e) Connect the 120V power cord of the Power Transformer into a suitably rated outdoor receptacle. Local electrical codes should be followed relative to grounding and GFI circuits. Do not remove the ground pin of the molded plug connected to the Power Transformer and NOTE: The 'VALVE ON' LED on the Valve Controller illuminates for 1 second right before entering pairing mode. This turns the valve on for 1 second, followed by all four LED's sequentially scanning. This scanning indicates that the Valve Controller is looking for a Level Sensor.

If the 'SENSOR GOOD' and 'POWER' LEDs immediately illuminate and you do not see all four LEDs scanning, you will need to reset to pairing mode by putting the magnet on the face for at least 21 seconds to enter pairing mode.



### 3) Running Antenna Wire



- a)** Along with the installation of the Level Sensor (Step 4), this step is crucial in order to achieve a successful result.
- b)** The antenna tip should not be cut or extended. If a longer Antenna is required, please contact H2flow Controls.
- c)** The standard 12 foot antenna cable should be run in a manner that results in the clear plastic tip having an unobstructed line of sight to the intended mounting position of the Level Sensor (Step 4). The face of the Level Sensor must be able to see the tip of the antenna.

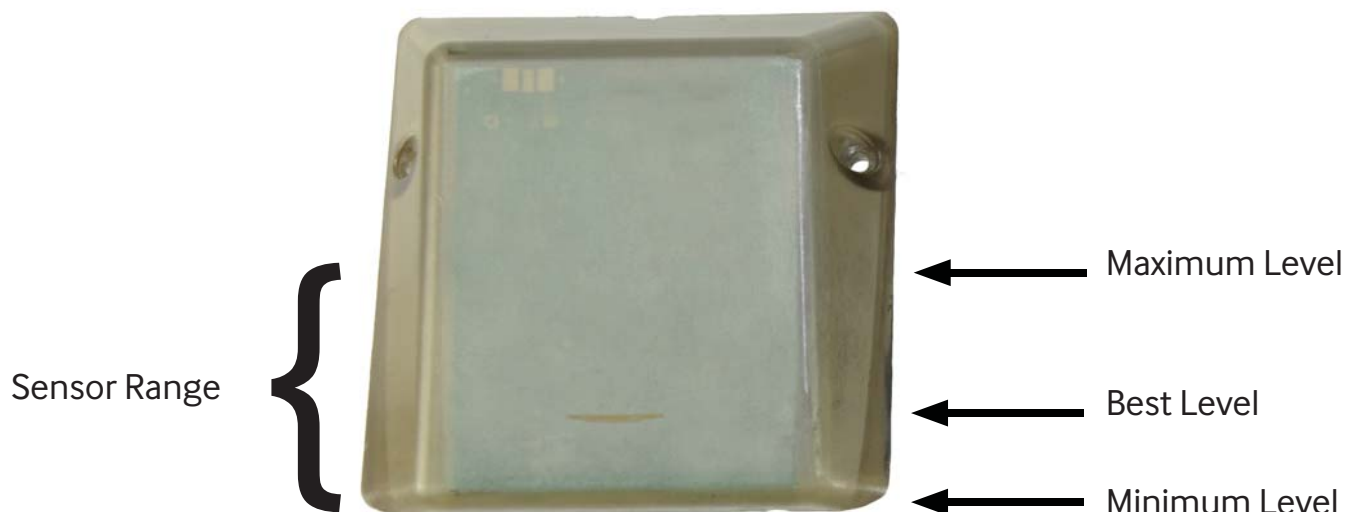
#### 4) Mounting the Level Sensor

##### Installation Notes:



- a) As discussed in Step 3, mounting the Level Sensor relative to the antenna tip is a crucially important step, it is imperative that the face of the Level Sensor is able to see the antenna tip without obstruction.
- b) Choose a location that is both aesthetically acceptable and meets the needs mentioned above. Thoroughly clean the intended mounting surface of the pool tile, gunite or liner with alcohol and dry as well as possible. Clean the back of the Level Sensor. **Do not remove the magnet from the face of the Level Sensor.**
- c) Remove the 2-part epoxy from the plastic bag and then remove its plastic protective cover.
- d) Thoroughly knead the two-part epoxy to ensure both parts are well mixed.
- e) Spread the mixed epoxy over the rear surface of the Level Sensor.

##### Water Level Settings:





**f)** With the pool's water level set to the desired point, carefully position the Level Sensor so that the raised line on its lower front face is at the water level. Firmly press the Level Sensor against the pool's surface so as to achieve a good bond. Maintain pressure against the face of the Level Sensor for at least 2 minutes.

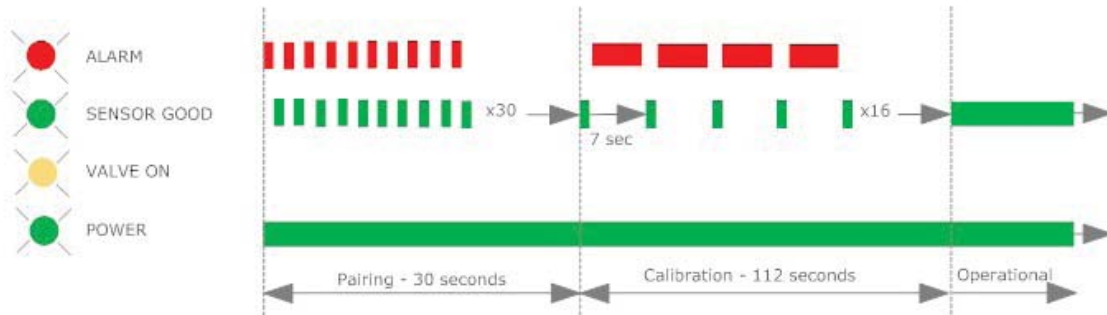
## 5) Pairing and Calibration

The following procedure is applicable to 'new installations'. For adjustments to existing units or to address unexpected results during an initial setup, see Section 11 of this manual.



Once the Level Sensor has been installed, you are ready to begin the following Pairing and Calibration procedure.

- a) Remove the magnet from the face of the Level Sensor.
- b) Observe the LED's on the Valve Controller.



c) If the Valve Controller fails to receive enough good data transmissions during the calibration phase, the 'ALARM' LED will stay on at the end of the calibration period. This indicates that there isn't a good signal between the Level Sensor and the Antenna tip. Be sure that the Level Sensor can see the Antenna tip and reposition as necessary.

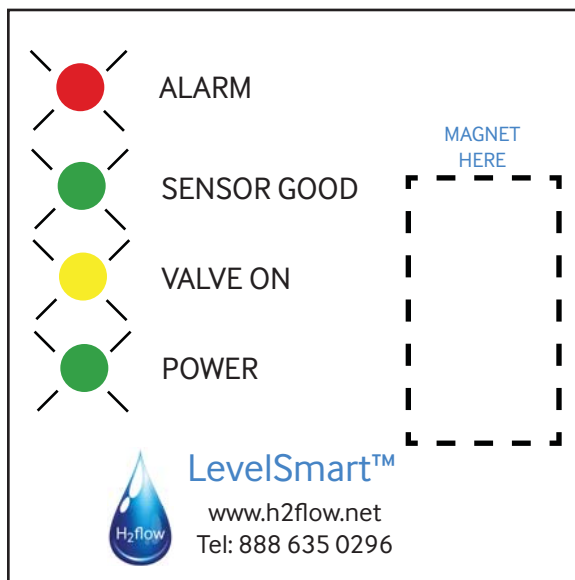
d) If you make a mistake during the pairing or calibration period, simply reapply the magnet to the face of the Level Sensor for at least 20 seconds and then, when ready, remove it to start the procedure again.

**NOTE:** In some instances, the magnet may need to be replaced for 25 seconds or more before the unit will reset. When removing the magnet, a faint light will flash 3 times at the top edge of the Level Sensor. If you don't see the light flash, you need to leave the magnet on the face of the Level Sensor for longer or check the valve controller to see if it is getting the signal from the Level Sensor. The Valve Controller will indicate the reception of pairing packets by a brief flash of the 'SENSOR GOOD' green LED light. Each time a packet of data is received from a paired Level Sensor the green LED 'SENSOR GOOD' light will flash.

## 6) LED Descriptions and Functionality

The Valve Controller comprises (4) LED's as follows:

- ALARM
- SENSOR GOOD
- VALVE ON
- POWER



During normal operation **'ALARM'** is a red LED that will light if no signal is received from Level Sensor in three days. It also tells you when the magnet switch is active and it helps you put the antenna in the right place. The red **'ALARM'** light flickers when you put the magnet in the right place to activate the magnet switch. The red **'ALARM'** light is used during the pairing process to help ensure a good antenna placement. During the pairing process it goes out each time a signal is received from the Level Sensor it is pairing with. If the antenna is not in a good spot, then the red **'ALARM'** light will stay on after the Level Sensor has finished pairing. If the red **'ALARM'** light remains on for more than 3 minutes, the antenna is not in a good location. Try moving the antenna tip to a better location and try re-pairing the Level Sensor again.

The **'SENSOR GOOD'** is a green LED that stays on after pairing is accomplished with a level sensor. It also flashes when you reset the paired Level Sensor and every time a good signal from the Level Sensor is received.

The **'VALVE ON'** is a white led that lights up when power is applied to the valve. It will not show you if the valve has been manually turned on. It will illuminate only when 24VAC is applied to the valve by the Valve Controller.

The **'POWER'** is a green LED that is illuminated when power is applied to the valve controller unit.

The magnet box indicated in the image above shows you where to place the magnet to activate the switch.

## 7) Magnet Switch Functions

### *Valve Controller Magnet Switch*

Placing the magnet onto the face of the Valve Controller at the proper location will activate a magnetic switch. The location is shown in the image of the Valve Controller face on page 15. The red '**ALARM**' LED will flicker when the magnet activates the switch. When you remove the magnet the valve light will illuminate and the valve will activate for 1 second. After the Valve Controller is already paired you can enter pairing mode by activating the magnetic switch for more than 21 seconds.

If the magnet is left on the face activating the switch for more than 21 seconds, upon removal, the Valve Controller will enter Pairing Mode after activating the valve for 1 second. If you entered Pairing Mode on accident, to get out of Pairing Mode, simply remove power from the Valve Controller, and then power it back up again. It will go into Normal Operational Mode. If you entered Pairing Mode to pair with a Level Sensor, you will need to reset the Level Sensor to begin pairing. The Valve Controller will not fill the pool when it is scanning for a Level Sensor.

Be aware that resetting any Level Sensor while a Valve Controller is scanning for a new Level Sensor will pair that Level Sensor with that Valve Controller and reset the water level.

After pairing with a particular Level Sensor the Valve Controller will only respond to that Level Sensor.

### **Level Sensor Magnet Switch**

To reset the Level Sensor you will need to place the magnet upon the right face of the Level Sensor covering the lower right just like the Valve Controller switch. This will turn it off. To completely shut down can take up to 30 seconds. The Level Sensor lasts for years on the factory battery due to nano-amp circuit design. Sometimes the residual power in the circuits will keep it on and not let it turn off for several seconds. Please be patient as this can take a few tries to get it right.

To reset the Level Sensor, remove the magnet and observe the LED flash. It is very faint. You may need to keep the magnet on the Level Sensor for longer than 30 seconds to allow it to lose power. When you remove the magnet three flashes of the LED at the top edge tell you it has started and now it will pair with the Valve Controller. The Valve Controller will also show pairing has started by stopping its scanning of the LEDs. If the Valve Controller has already been paired with the Level Sensor and is not in pairing mode when you reset the Level Sensor the green '**SENSOR GOOD**' LED will blink each time a good signal is received from the Level Sensor. If the Valve Controller has not yet paired with the Level Sensor and it was scanning for a new Level Sensor, then the scanning will stop once the Level Sensor starts to send pairing data.

## 8) Resetting the Valve Controller and Level Sensor

In the event that you want to completely reset the system, you must first place the magnet onto the lower right corner of the Valve Controller causing the red '**ALARM**' LED to blink on for more than 21 seconds. After removing the magnet, ensure that the LED's are scanning in sequence on the Valve Controller. This means that the Valve Controller is scanning for a new Level Sensor pairing signal. Now, with the pool at the operational level and near the set mark on the face of the Level Sensor take the magnet and place it onto the right hand face of the Level Sensor for at least 30 seconds. When removing the magnet from the Level Sensor, if you don't see a faint light flash in the upper edge, you need to replace the magnet and leave it there for longer. There is a circuit within the Level Sensor that should reset within 30 seconds.

The system is now reset and you can begin the pairing and calibration sequence as though it were a completely new unit or pair a different Level Sensor with the Valve Controller.

## 9) Testing the Electronic Activation of the Flow Control Valve

Placing the magnet onto the Valve Controller's face will activate a switch that will turn on the red '**ALARM**' LED and cause it to flicker. When you remove the magnet, it will close the switch and the valve circuit will be tested for 1 second.

You will see the '**VALVE ON**' LED light for 1 second during activation of the Valve. In order to avoid resetting the Valve Controller, the magnet should not be left on the face for more than 20 seconds. When applying power to the Valve Controller or when testing the valve, be sure you have a valve solenoid connected properly. Be sure the wires are not shorted together.

To calculate gallons delivered every hour if needed multiply the gallons per minute by 60 minutes. To change the flow rate or volume delivered, you can increase the flow rate by opening the valve flow rate knob. You open by twisting the knob counter-clockwise. Close by twisting clockwise. For typical 20,000 gallon pool start with a flow rate that is  $\frac{1}{4}$  turn open from all the way closed. Be sure water is flowing through the valve.

## 10) Troubleshooting

*What If...*

A Quick Reference Guide for common questions and problems pertaining to LevelSmart™

<b>Problem</b>	<b>Solution</b>
What if the Valve Controller is not scanning looking for my new Level Sensor, OR how do I enter pairing mode?	Place the magnet onto the face of the Valve Controller over the magnet switch area. Note the red LED illuminates and flickers, indicating that you have activated the timer. Leave the magnet on the face of the Valve Controller, keeping the red LED light on for at least 25 seconds. Remove the magnet from the face of the Valve Controller. The Valve will turn on for one second. The white 'VALVE ON' LED will also go on for one second, and then the Valve Controller will begin to scan, looking for a new Level Sensor to pair with. If the Valve Controller has been previously paired with a Level Sensor, that Level Sensor ID will not be replaced until a new Level Sensor has been paired.
What if I want to stop pairing with a new Level Sensor?	Simply remove power from the Valve Controller to reset the Valve Controller and observe that the green 'POWER' and green 'SENSOR GOOD' LED's are illuminated.
What if my Valve Controller won't stop scanning for a new Level Sensor?	If there is already a Level Sensor mounted in the pool, simply reset the Level Sensor and ensure pairing process is successful. To reset the Level Sensor, apply the magnet to its face for more than 25 seconds and then remove it. A faint light at the top of the Level Sensor should flash.
What if the Valve Controller keeps scanning after I reset my Level Sensor?	Move the antenna and the Level Sensor to new locations to receive better signal reception. Start with the Valve Controller antenna. In certain situations, the antenna may be upgraded. Once the antenna location has been reset and the Valve Controller is scanning for a new Level Sensor, reset the Level Sensor to enter Pairing Mode.

Problem	Solution
What if my pool overfills?	Turn down the flow control on the Valve Controller.
What if the level is set too high?	<p>Lower the pool's water level to the right level on the sensor, ensuring that it is somewhere between the top button at mid-face of the Level Sensor and the lower hash marks on the lower face of the Level Sensor. Once the pool level is at the desired level, reset the Level Sensor in the pool by placing the magnet on the right side of the Level Sensor face; the magnet should be applied for at least 25 seconds before it is removed. When the magnet is removed, a light will flash and the level will reset.</p> <p>Note that the Valve Controller 'SENSOR GOOD' green LED should blink each time the Valve Controller is receiving a data package. There will be 30 one-second blinks, followed by 16 blinks, each of which are seven (7) seconds apart.</p>
What if the level is set too low?	<p>Fill the pool to the set level, ensuring that it is somewhere between the Level Sensor's mid-point and the hash mark at the bottom. Use the magnet to reset by placing it on the right side of the Level Sensor face for at least 25 seconds. when the magnet is removed, a light will flash and the level will be reset.</p> <p><b>NOTE:</b> the Valve Controller 'SENSOR GOOD' green LED should blink each time the Valve Controller is receiving a data package. There will be 30-one (1) second blinks, followed by 16 blinks, each of which are seven (7) seconds apart.</p>
What if the red LED light is on and I have already paired the device?	<p>Unplug and then re-apply power to the Valve Controller. Use the magnet to get the Valve Controller into pairing mode. Bring the pool level to the set level and then reset the Level Sensor. Observe that after three (3) minutes, the red light is off and the green SENSOR GOOD and POWER LEDs are on. If the red LED is still on or the Valve Controller is still scanning, then it is recommended that you improve the antenna location or check antenna condition.</p>

## **11) Toro Water Valve Details**

A Toro Professional Series valve is included with the system. If you have any issues with valve operation, you can return the defective part to the local Toro distributor listed in the telephone directory under "irrigation supplies" or "Sprinkler Systems", or contact the Toro Warranty Company, P.O. Box 489, Riverside, CA, 92502. Phone (800) 664-4740 for the location of your nearest Toro distributor or outside the U.S., call (951) 688-9221. Please refer to Toro Form Number 373-0506 Rev. A. Website: [www.toro.com](http://www.toro.com)

Water supply pressure should not exceed 50 PSI to the valve. Recommended pressure is less than 50 PSI. Use a pressure reducer if you have high water pressures. Do not plumb the system into a closed pipe of your pool plumbing. Pool plumbing should not be subjected to high water pressures. Be sure to plumb the fill into a return line that is open at all times to the pool, pond or water feature to avoid pressure build up from filling operation. Use less pressure for direct injection into existing pool plumbing. Reliable operation of the diaphragm valve requires water flow to activate the shutoff, so insure that the valve shuts off the flow to the pool easily and rapidly with the pump on and with the pump off. You can do this by manually turning solenoid lever on and off. Do not exceed 75PSI static pressure for reliable Toro valve operation.

If the valve will not turn on, the solenoid may not be seated properly. Recheck connections and tighten the valve solenoid. If the solenoid continues to malfunction, try cleaning and resetting solenoid. Again, Toro has great customer support and the local irrigation store should be an expert using these valves.

## **12) Warranty**

### **LEVELSMART STANDARD LIMITED WARRANTY**

H2flow Controls, Inc., warrants all new LevelSmart® Automatic Pool Water Level Control Systems to be free from defects in materials or workmanship under normal use during the warranty period as noted herein. The warranty period commences on the date of purchase from H2flow Controls, Inc., Inc. The warranty extends to the Purchaser or the End User (if different from the Purchaser). This Limited Warranty is valid only within the 50 United States.

## WARRANTY PERIOD

The warranty period is 3-years from the date of purchase.

## WARRANTY PROGRAM

If a defect exists, at its option H2flow Controls, Inc., will (1) Repair the Product at no charge, using new parts, or (2) Exchange the Product with a Product that is new or which has been manufactured from new parts and is at least functionally equivalent to the original Product. Repair or Exchange will be made at no additional charge to the customer. Following Repair or Exchange, the resulting Product will retain only the balance of the original warranty period that commenced from the date of invoice of the original Product.

In the event of a suspected product failure during the warranty period, the customer is required to contact the H2flow Controls Service Department for initial technical analysis and support. In the event that the H2flow Controls Service Department determines that the product is defective, a Return Material Authorization (RMA) number will be provided. The customer shall at their cost, return the unit to H2flow Controls, Inc., taking care to adequately package and protect the product during shipping. Upon receipt of the unit, H2flow Controls, Inc. will either repair or replace the unit at its cost.

H2flow Controls, Inc. Service Support Tel (toll free): 888-635-0296  
8:00 AM to 5:00 PM Eastern Standard Time

## WARRANTY PROGRAM DOES NOT INCLUDE:

...repair and/or replacement of products damaged by shipment, misuse, accident, modification or attempted repairs by anyone other than H2flow Controls, Inc., unsuitable physical operating environments that fall outside the products written specifications, improper maintenance, intentional misuse of products, tampering or removal of circuit board potting material, failures caused by a product for which H2flow Controls, Inc. is not responsible, intentional misuse of equipment by the customer, as well as acts of God including but not limited to lightning, earthquakes, hurricanes, and tornadoes.

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