

leak**SMART**™

Monitor. Detect. Control.™



# Installation & Operation Manual



Connects directly to  
main water supply.



ZigBee®  
Certified  
Product

 **leakSMART™**  
**2-Year Limited Warranty**

Waxman Consumer Products Group warrants the enclosed leakSMART™ product to be free from defects in materials or workmanship, under normal use and service, for a period of two (2) years from the date of purchase. If at any time during the warranty period the product is determined to be defective, Waxman Consumer Products Group shall repair or replace it at our discretion. The warranty is limited to defective parts as stated. All costs of removal and installation of the leakSMART™ product, including the replacement of warranty parts, are the responsibility of the purchaser. The manufacturer shall not be liable for incidental, consequential, or special damages arising at, or in connection with product use or performance, except as may otherwise be accorded by law. Some states do not allow the exclusion limitation of incidental or consequential damages, so the limitation may not apply to you. Any damage to this leakSMART™ product as a result of misuse, abuse, neglect, accident, improper installation, or any use violating the instruction manual furnished by us will void this warranty. This warranty does not cover damages or loss caused by defects, and the owner's use of the leakSMART™ product confirms the understanding that this product does not constitute an insurance policy, and is only a loss mitigation product used to reduce the risk of water damage.

To obtain warranty service, call our Customer Service Department at 1-855-532-5768, or e-mail us at [customerservice@waxmancpg.com](mailto:customerservice@waxmancpg.com). A return authorization form will be provided to you. Please DO NOT ship any product back to the manufacturer without first receiving this prior authorization. Learn more at [www.getleaksmart.com](http://www.getleaksmart.com).

 **leakSMART™ Valve**  
**FCC Compliance**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

To purchase additional sensors or other  
**leakSMART™ system accessories, visit**  
**[getleaksmart.com](http://getleaksmart.com)**

**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or reproductive harm.



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LEAD FREE

NSF-61

To purchase additional sensors or other leakSMART™ system accessories, visit  
[getleaksmart.com](http://getleaksmart.com)



Connects directly to main water supply.

leak**SMART**<sup>™</sup>

Waxman Consumer Products  
24455 Aurora Rd  
Bedford Heights, Ohio 44146

Place Stamp Here

Waxman Consumer Products  
24455 Aurora Rd  
Bedford Heights, Ohio 44146

PERFORATION



## leakSMART™ 2-Year Limited Warranty

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To obtain warranty service, call our Customer Service Department at 1-855-532-5768, or e-mail us at [customerservice@waxmanpcg.com](mailto:customerservice@waxmanpcg.com). A return authorization form will be provided to you. Please DO NOT ship any product back to the manufacturer without first receiving this prior authorization. Learn more at [www.getleaksmart.com](http://www.getleaksmart.com).

### leakSMART™ 2-Year Limited Warranty

Item Number: 8811100/8815000

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

Street Address: \_\_\_\_\_  
\_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_

ZIP: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Date of Purchase: \_\_\_\_\_

Installer: \_\_\_\_\_

## leakSMART™ Valve FCC Compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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leakSMART™

## Complete Home Water Protection

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leakSMART™ is an innovative, wireless system that eliminates the threat of water damage by keeping you in constant control of your home's water supply. It not only detects leaks in your home, but also immediately shuts off the water, stopping damage before it can start — all in less than 10 seconds.

**It's innovative technology that is simple and easy to use:**

- 1 Download the leakSMART™ App on your mobile device from the Apple Store or Google Play
- 2 Pair your leakSMART™ hub or other compatible smart home system to the leakSMART™ app.
- 3 Pair your leakSMART™ Valve and waterproof sensors to your leakSMART™ hub.
- 4 Install your leakSMART™ Valve to your main water supply. **PROFESSIONAL INSTALLATION IS STRONGLY RECOMMENDED.**
- 5 Easily monitor, detect and control your main water supply with your mobile device. Enjoy peace of mind knowing that the threat of water damage has been eliminated.

Once your leakSMART™ system is up and running, please keep this manual for future reference.

**CAUTION:** Read installation instructions BEFORE installing batteries in your leakSMART™ Valve or Sensors.



# leakSMART™

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## leakSMART™ Package Contents

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**It's never been easier to stay in control of your home's water supply.**

**Setting up your leakSMART™ system is as simple as launching an app, pairing with your smart home system and getting your leakSMART™ Valve installed.**

**Unpack your leakSMART™ box and check the contents. You should have the following:**

**Tools Required:** (4) AA Batteries  (1) Phillips Head Screwdriver 

- A. leakSMART™ Valve (1)
- B. leakSMART™ Hub (1)
- C. leakSMART™ Sensor (1) or (5) with (3) AAA batteries per sensor
- D. 9V Power supply for the leakSMART™ Valve (1)
- E. 5V Power supply for the leakSMART™ Hub (1)
- F. Ethernet Cable (1)
- G. Instruction Manual (1)

## leakSMART™ App Download and Account Set-up

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1. Download leakSMART™ App via Google Play Store (Android) or iTunes (IOS).
2. Open leakSMART™ App and select "Create Account"
  - A. Enter Email Address and create password.
  - B. Activate account from the link in confirmation email\*
3. Log into the leakSMART™ App to begin the next step in the setup process.

\*Users are advised to use a Chrome browser (Safari is being confirmed)



## leakSMART™ Hub Setup and Operation

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### \*All contents for the Hub Setup are located in the brown box



- Plug in the leakSMART™ Hub with the provided 5V Power Supply (sticker flag on the power cord indicates 'Hub only').



- Connect the provided Ethernet Cable to the Hub. Connect the other end of the Ethernet cable to your home Internet. You may choose to connect directly to an Ethernet wall interface, to an Ethernet switch device or to a WiFi adapter\*.
  - \*If using a switch device or WiFi adapter, reboot the device or adapter to automatically detect your new leakSMART™ Hub.



- A blinking red light will indicate a successful connection to your home Internet. Solid red indicates no connection.
- Now, open the leakSMART™ App on your smart device and log-in with your user credentials.
- Select "Add Hub". You will be prompted to scan the serial/MAC Address located on the bottom of the leakSMART™ Hub. You may also choose to manually enter the serial/MAC Address. Hub\*. \*QAR Code supported with 4.0 Android/8.0 IOS and higher.
- Enter geographical location of installation (city,state) and press "Next".
- The leakSMART™ Hub should now be successfully added to your account. A solid green light will indicate a successful connection.



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## Valve Setup and Operation

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### Pair your leakSMART™ valve with your smart home system

- Place your leakSMART™ Valve near your installation location, so you can verify that it is within range of your smart home leakSMART™ Hub. Verification will be done in pairing mode in APP.
- Connect leakSMART™ Valve to the provided 9V Power Supply and verify that the AC power cord is long enough to reach the valve installation location. (An optional 9 ft. AC power adapter extension wire is also available. This, and other leakSMART™ accessories, can be purchased at [getleakSMART.com](http://getleakSMART.com)) It is recommended to install 4 AA alkaline batteries (not provided) as a source of battery backup. ( A flashing blue light on the front of the unit will indicate that it's ready to pair. If the blue light stops flashing, press the center button quickly 5 times to reset pairing mode).



### Now, open the leakSMART™ App on your smart device.

- On the leakSMART™ Hub, briefly press the blue button once to enter into pairing mode. As a reminder, a steady green flashing light on the leakSMART™ Hub indicates pairing mode and will last 3 minutes while in pairing mode.

**CAUTION:** Read installation instructions BEFORE installing batteries in your leakSMART™ Valve or Sensors.



## leakSMART™ Valve Setup and Operation

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- All leakSMART™ Valve Lights should turn off once pairing mode has been successfully completed.
  - A check mark on your home screen will verify the valve has been added.



- leakSMART™ App, should register 'New Valve' on the home screen.

**Note:** You can manually open/close the leakSMART™ Valve by pressing the 'Open' and 'Close' buttons located on the front of the valve.



**Professional Installation Recommended. Contact a licensed plumber for professional installation of your leakSMART™ Valve.**

- For fast, easy installation, provide your plumber with the details on pages 10-11

**CAUTION:** Read installation instructions BEFORE installing batteries in your leakSMART™ Valve or Sensors.



leakSMART™

## Sensor Setup and Operation

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### Pair each leakSMART™ Sensor with your smart home system



- Your leakSMART™ sensor provides an audible water detection alarm, even without connection to your leakSMART™ Hub — but pairing means the system will signal your leakSMART™ Valve to automatically shut off your water and send you instant notifications, preventing water damage within 10 seconds.
- Install the provided 3 AAA alkaline batteries (DO NOT screw on battery door cover until pairing is successfully completed). The sensor will beep once and blue indicator light will flash rapidly.
- On the leakSMART™ Hub briefly press the blue button once to enter into pairing mode. As a reminder, a green flashing light on the leakSMART™ Hub indicates pairing mode and will last 3 minutes while in pairing mode.



- On the leakSMART™ Sensor press black button located above the batteries once. The sensor will beep 5 times indicating a successful pairing. leakSMART™ App should register '1 Sensor Reporting' on the home screen (located below the valve icon).
- We recommend naming your sensor in the overview page of your APP (i.e. Bath, Kitchen) .

leakSMART™ Sensor is now paired and should display a flashing blue light every 60 seconds.

## Sensor Setup and Operation

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Simply place the leakSMART™ Sensor anywhere you need to detect moisture. Sensors must be placed on the floor, clear from debris completely flat, with the leakSMART™ Sensor logo facing toward the ceiling. We recommend placing sensors near appliances and/or plumbing fixtures. Our waterproof sensors are designed to fit into tight spaces, without shifting or sliding, so it's easy to monitor any area.



**\*Note:** One leakSMART™ Hub/Valve Smart Home System can support up to 32 individual sensors. Additional sensors may be purchased separately for whole-home monitoring.





## leakSMART™ Valve Manual Operation Steps



### Manual Operation of your leakSMART™ Valve:

In the event of repeated error messages from your smart home system that the valve is not automatically opening and closing, the valve may be manually opened or closed.



1. Unplug the AC power cord from the valve cover.

2. Remove the cover from the valve.



3. Use a marker to draw a line across one side where the upper and lower motor housing connects, so when the motor is removed, you'll know how to reposition it for assembly.



4. Remove the 4 screws using a Phillips head screwdriver.



5. Place your thumb and finger on the plastic gear and rotate **clockwise** to open the valve or **counter-clockwise** to close it; do not use tools to manually open or close the valve.



## leakSMART™ Professional Installation Steps

The leakSMART™ Valve is a patent-pending, wireless, motorized brass water ball valve that connects directly to a home's main water supply. Professional installation is strongly recommended to ensure proper operation and reliable water damage prevention.



### Please note:

- The leakSMART™ Valve may only be installed in homes with an existing main water shutoff
- To avoid any injury, never place your fingers inside the valve
- Do not grip plastic motor drive for leverage when installing the valve
- Do not install on fire suppression systems or fire sprinkler water lines



1. Ensure that you have all necessary leakSMART™ Valve components and fittings required for installation:
  - leakSMART™ Valve (3/4" FIP x 3/4" MIP) or (1" FIP x 1" MIP)
  - AC power adapter with 10 ft. cord
  - 4 AA Alkaline batteries (not provided)



2. To protect the valve cover from possible damage, remove it by sliding it away from the valve, and keep it off until you've completed installation.



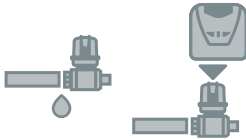
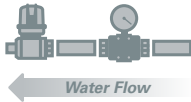
3. Shut off the main water supply valve.



4. Open both hot and cold handles on the faucet nearest the valve to relieve water pressure.



## leakSMART™ Professional Installation Steps



5. The valve will also need to reach an AC power source. It is recommended that the valve is kept operating on AC power (cord provided), with batteries used as a back-up power source.

**IMPORTANT:** The valve must be installed after the water main manual shut-off and water meter. It is recommended that the valve be installed at least 8 inches away from water shut-off to avoid damage. Additional fittings may be required.

- Do not solder fittings near the water meter
- Position the valve so that the arrow on the side points away from the water meter.

6. Once installed, close the faucet, turn on the main water valve and check for leaks. Reattach the valve cover by sliding it over the motor housing, with the front facing you.

7. Attach the AC power cord adapter to the valve cover and plug into the nearest 110 volt outlet.






- Using an extension cord is not recommended — please use the 10 ft. AC power adapter cord in this package.
- An optional 9 ft. AC power adapter extension wire is also available. This, and other leakSMART™ accessories, can be purchased at [getleaksmart.com](http://getleaksmart.com)

8. Check valve cover function by turning on a faucet and pressing the “Open” and “Close” buttons.

- When the valve is open, it will display a steady green light and water will run.
- When the valve is closed, it will display a steady red light and water will stop running.

Confirm the valve can now be paired with the leakSMART™ Sensor(s) and hub.

## leakSMART™ Hub Troubleshooting






Status	Operation	Lights	Notes
 <b>Connected</b>		Double blink <b>green</b> light	
 <b>Pairing Mode</b>	Press the blue button once if the <b>green</b> light is steady or flashing.	<b>Green</b> light will blink steadily for 3 minutes.	Valve and sensors must also be in pairing mode. When paired successfully, valve and sensor will appear in the leakSMART™ app.
 <b>No Internet Connection</b>		Solid <b>red</b> light	Check the Internet connection. Reset it if necessary.
 <b>No Network Signal</b>		Blinking <b>red</b> light	
 <b>Factory Reset</b>	Hold blue button in for 15 seconds then let go.	Blinking <b>red</b> light	



## leakSMART™ Valve Troubleshooting









Your leakSMART™ Valve works with your smart home system to keep you in control of your home's water supply. The valve, which operates on AC power with battery back-up, will close automatically when paired with leakSMART™ Sensors. Monitor your smart home system through your mobile device and detect a leak. The leakSMART™ Hub will send a signal to your personal smart device providing you with more control and protection for your home. Plus you can easily turn your water supply on and off from anywhere using your smartphone, tablet or computer.

Status	Operation	Lights	Notes
 <b>Open Valve</b>	Press left side "Open" button	Steady <b>green</b> light	
 <b>Pairing Mode</b>		<b>Blue</b> light blinks twice every two seconds	If the blue light stops flashing before pairing is successful, press the center button 5 times quickly, to reset Pairing Mode
 <b>Pairing Successful</b>		<b>Blue</b> light blinks three times, then stops	Check APP
 <b>Reset to Factory Settings</b>	Press center button five times, quickly		Once the valve is reset, it can't be controlled manually until it's re-paired with your smart home system
 <b>Close Valve</b>	Press right side "Close" button	Steady <b>red</b> light	







## leakSMART™ Sensor Troubleshooting

State	Blue Light	Audible Alarm	Notes
 <b>x3 Insert batteries</b>	3 seconds steady	Brief chirp as battery hits metal contacts	
 <b>Ready to pair</b>	Fast blinking; will remain in this state and repeat blinking pattern for three minutes	Silent	
 <b>Pairing successful</b>	Blue light blinks slowly five times	Slow beeping for five seconds	
 <b>Working and connected</b>	Blue light blinks once every 60 seconds	Silent	
 <b>Water detected</b>	Blue light blinks twice per second (no pause) until out of alarm condition	Five quick beeps; pause; repeat until out of alarm condition	When water is detected, the leakSMART™ Valve will automatically shut off in less than 10 seconds; you will also receive notification on your mobile device
 <b>Battery low</b>	Blue light flashes twice per 30 seconds	Chirp every 5 minutes	

**CAUTION:** Read installation instructions BEFORE installing batteries in your leakSMART™ Valve or Sensors.

## leakSMART™ Troubleshooting

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Problem	What to Check
 <b>Status lights do not come on</b>	<ul style="list-style-type: none"><li>• Make sure there is power to the outlet</li><li>• Unplug AC power adapter cord from valve cover and plug back in</li><li>• If AC adapter extension wire was used, unplug both ends and reconnect</li><li>• Replace batteries</li></ul>
 <b>No water comes out of the faucet</b>	<ul style="list-style-type: none"><li>• Check that your leakSMART™ Valve is open by pressing the "Open" button on your Valve</li><li>• Make sure the main water supply valve is open</li><li>• Replace batteries</li></ul>
 <b>leakSMART™ Valve does not operate</b>	<ul style="list-style-type: none"><li>• Check that the unit is powered from the AC power adapter</li><li>• Replace batteries</li></ul>
 <b>leakSMART™ Valve does not operate with your smart home system</b>	<ul style="list-style-type: none"><li>• Check your smart home system app to ensure the valve is connected</li><li>• Check Internet connection to your hub</li></ul>