



# LEAK DEFENSE QS-LDS Fully Automated and Shutoff Valve User Guide

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**LEAK DEFENSE QS-LDS Fully Automated and Shutoff Valve**



## Specifications

- Product Name: Quick Start Leak Defense Dual
- Type: Fully Automated Leak Detection & Shutoff Valve (Dual)
- Date: 2025-01-08

## Product Usage Instructions

### Your Leak Defense System Control Panel

The control panel provides information and control options for your Leak Defense System:

- Device Communication Errors
- Notification Quantity
- Water Pressure & Temperature
- Water Valve Position & Turn Water On/Off
- Identifies/Changes Active Scene
- Current Water Flow (%) for both LDS1 and LDS2
- Time to Alarm Setting
- Countdown Trip Rate Timer until Setting LDS Alarms for both LDS1 and LDS2

### Changing Scenes

The Scene button allows you to switch between different settings:

- Home: Adjust Time to Alarm and Trip Rate for when you are at home.
- Away: Adjust Time to Alarm and Trip Rate for when the property is unoccupied.
- Standby: Ignore flow for a specified time, useful for extended water use without alarming the system.

## Turn Water On & Off

You can quickly shut off the water using the Water button:

1. Press Water button.
2. Tap Yes when asked Turn Water Off?.
3. The valve will close, and the Water icon will indicate the status (GREY for closed, YELLOW with a slash for fully closed).
4. To turn water back on, tap Water again and confirm by tapping Yes when asked Turn Water On?.

## Programming the System

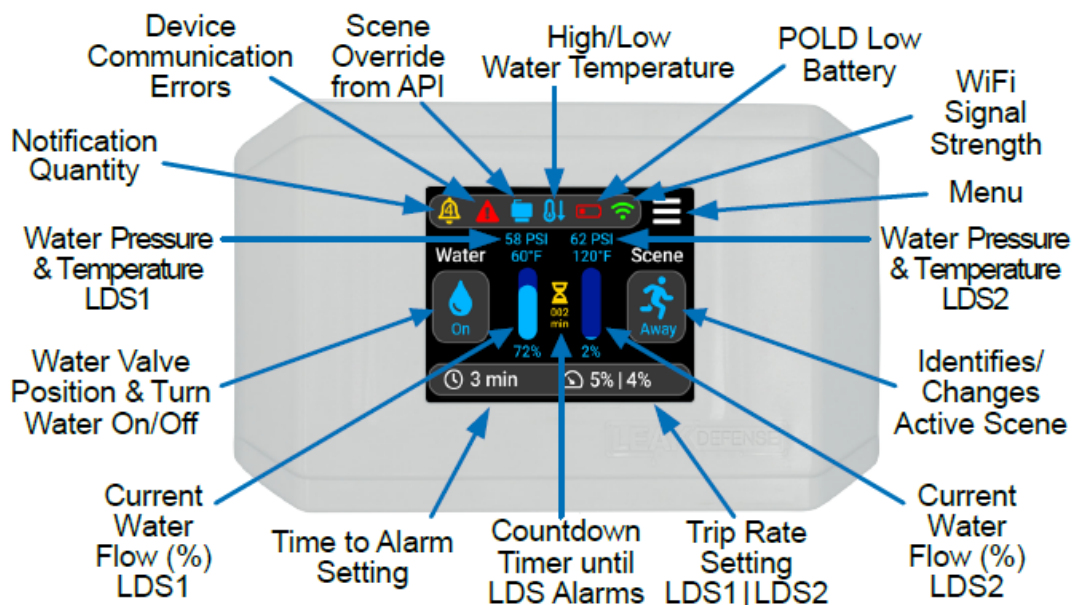
Adjust the Time to Alarm and Trip Rate functions as needed:

- For Home Scene: Set sensitivity and continuous water flow time when at home.
- For Away Scene: Set sensitivity and continuous water flow time when property is unoccupied.

## FAQ

- **Q: How can I set up WiFi and Mobile Access for my Leak Defense System?**
  - A: You can refer to the setup pages in the manual or contact our tech support line for assistance.
- **Q: What should I do if I need further calibration for my system?**
  - A: Contact our tech support line or your installer to ensure optimal system settings for your living style.

## Your Leak Defense System Control Panel



- **Home** 🏠 – (20-45 min recommended) The longest continuous flow in a home is typically a shower. Use this as a starting point for your Time to Alarm.
- **Away** 🚶 – (2-5 min recommended) This is generally programmed to accommodate ice makers.
- **Standby** 🚰 – Flow will be ignored while in Standby. Useful for when you know there will be water use for a long period of time.

## Instructions for use

### MORE ABOUT SCENES

#### HOME, AWAY & STANDBY & when to use them!



#### The Scene button allows

you to switch your Leak Defense System from Home 🏠 to Away 🚶 when you are leaving the house, or to Standby 🚰 when extra water will be needed for an extended time.\*

#### Turn Water On & Off

The Water 💧 button will allow you to quickly shut the water off. Press this button and tap Yes when asked “Turn Water Off?”. The valve will close and the Water icon 💧 will turn GREY. When fully closed the Water icon will be YELLOW with a slash through it. To turn water back on, simply tap Water again and when asked “Turn Water On?” tap Yes.

#### Program the System

The Time to Alarm ⌚ and Trip Rate ⚙️ functions may need to be programmed (if they are not suited for the household) for both Home and Away when the Leak Defense System is first activated, but these settings may be changed or adjusted at any time.

- With the Home 🏠 button highlighted, you can adjust the Home Scene’s Time to Alarm and Trip Rate. These will affect the overall sensitivity and time water can continuously flow when you are home.
- With the Away 🚶 button highlighted, you can adjust the associated Time to Alarm and Trip Rate. These will affect the overall sensitivity and time water can continuously flow when the property is unoccupied.
- With the Standby 🚰 button highlighted, flow will be ignored by the Leak Defense System for the time you specify. This will allow you to use water for an extended period of time without causing the system to alarm. Perfect for running a hose to fill up a pool!

Can be triggered automatically with optional API (contact [sales@senthidro.com](mailto:sales@senthidro.com) to purchase) or adjusted with the Leak Defense System mobile app.

## OPERATIONAL FEATURES

### ANTI-SCALD OPERATIONAL FEATURES FOR DUAL LDS

- For Hardwired Control Panel: Control Panel is hardwired to LDS 1. LDS 1 is hardwired to LDS 2.
- LDS 1 controls both valves/actuators, providing anti-scald.
- For Wireless Control Panel: Control Panel communicates wirelessly to LDS 1 & LDS 2.
- LDS 1 is hardwired to LDS 2.
- LDS 1 controls both valves/actuators, providing anti-scald.



### Unique Operational Explanation:

1. If “LDS 1” alarms it will automatically shut both valves. The Control Panel will read back the alarm and go into an alarm state, putting “LDS 2” into alarm (valves already closed).
2. If “LDS 2” alarms, the panel will read back the alarm and go into an alarm state, putting “LDS 1” into alarm. This will trigger both valves to close.

#### Note 1:

If Control Panel is not powered or connected to the Cat6 cable (or properly wirelessly paired & communicating), alarms sourced from “LDS 2” will not have a valve closure (until the panel is back online and/or connected to Cat6).

#### Note 2:

Power is passed through “LDS 2” to “LDS 1”. Because “LDS 1” controls the actuators, it ensures that no valve can close unless both close (anti-scald).

## CLEARING THE ALARM

## The alarm started sounding and I am home. What should I do?


If you are unaware of any normal appliance or fixture water flow...



And you don't believe your water settings are set too conservatively, you will want to check for leaks. These can often be small leaks such as old toilet flappers, outdoor garden hose spigots, or small drips from tub or sink faucets.

If the water flow is due to a routine activity that normally occurs within your household...


You may want to adjust the Leak Defense System settings. If so, you will first select Clear Alarm and then select Turn Water On. You can then:

1. Increase the Time to Alarm setting or
2. For humidifiers and under-sink reverse osmosis (RO) systems increase the Trip Rate  setting.

\*Increasing the Trip Rate will make your system less sensitive to smaller leaks.

If you are filling your swimming pool, using a hose bib for an extended time, or running water for some other reason...

Do the following after selecting Clear Alarm and then selecting Turn Water On:

1. Tap the Scene button and select Standby.
2. Tap the Time  icon and enter the amount of time in minutes desired for the system to remain in Standby (Max is 48 hours or 2,880 minutes).
3. Tap the top right box to confirm the time.







## Let us help!

- Call 1-[866-410-1134](tel:866-410-1134) ext. 2
- Email [support@senthhydro.com](mailto:support@senthhydro.com)

## SET UP WIFI

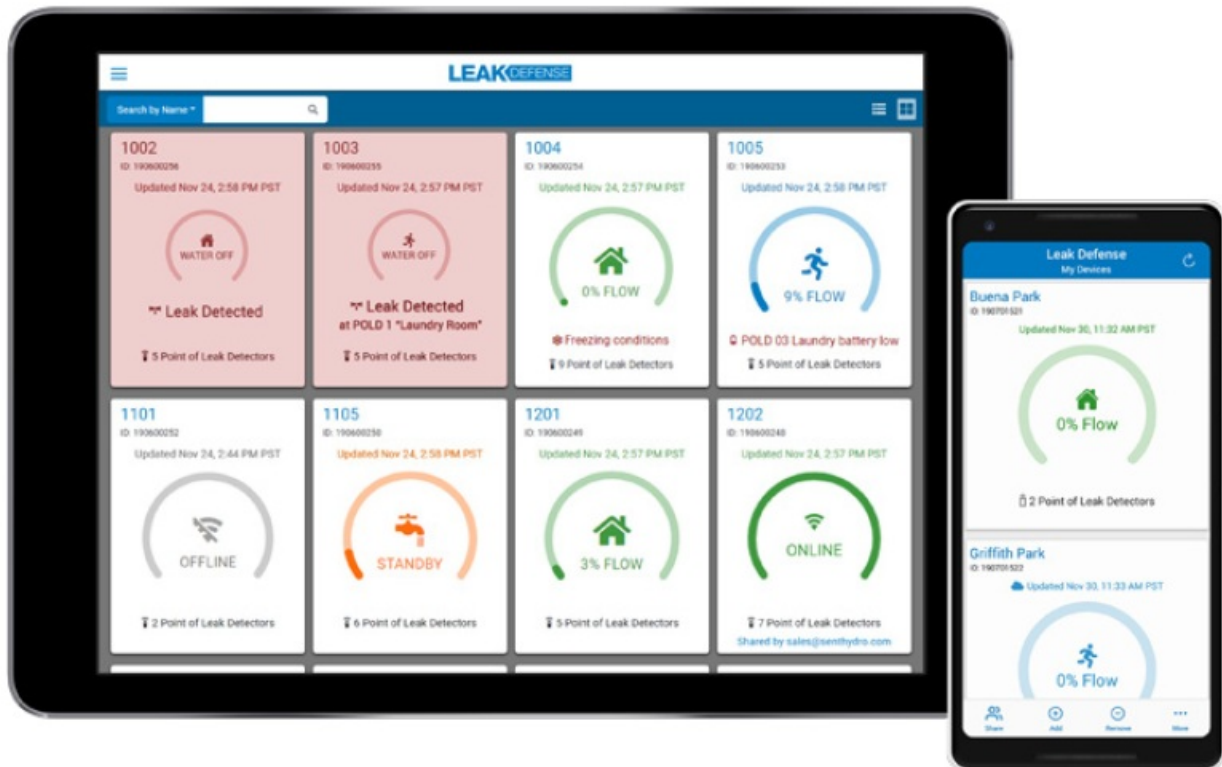


To connect to your 2.4 GHz WiFi access point:

- Tap the Menu  icon on the Leak Defense Panel
- Tap WiFi 
- Tap View Networks and highlight your access point
- Tap Select and enter your password
- Tap  twice and your panel will ask you to Save Changes
- Tap Ok
- The WiFi  icon on the main screen will be GREY while it attempts to connect. If successful the icon will turn GREEN. If unsuccessful it will turn RED.
  - If the incorrect password or access point is entered into the control panel you should go through the steps again and select the correct router and password.
  - Router security/settings may restrict WiFi connection to the LDS. A separate access point may need to be purchased.



## SET UP MOBILE ACCESS



On your phone or laptop go to [CatchALeak.com](https://CatchALeak.com) or download the Leak Defense App from the IOS or Android Store

- Click on REGISTER AS A NEW USER
- Fill out the form including the DEVICE ID that was supplied with your system. Click on REGISTER.
- You should get a notice thanking you for registering.
- You will immediately receive an email with a link and/or a text to which you will have to reply with a confirmation number. (Check your junk email)
- If on [CatchALeak.com](https://CatchALeak.com), close the page and reopen.
- Log in with your email address and password you created. You should see a screen showing a flow percentage arc with settings & controls next to it. Tap on the system tile if the settings aren't shown.
- On this screen you can switch from Home to Away or Standby. You can also adjust the Trip Rate and the Time to Alarm.

### SETTINGS:

1. Manage alerts/notifications including selective disabling
2. Optionally add names for Point of Leak Detectors (POLDs)
3. Optionally schedule times for your system to automatically change scenes between Home and Away
4. Adjust your settings & more!

- USA: T: [866-410-1134](tel:866-410-1134)
- [Support@senthidro.com](mailto:Support@senthidro.com)
- [LeakDefense.com](https://LeakDefense.com)



Your system was set at the factory for the most common settings and should have been further calibrated by the installer. If you want remote notifications, you can refer to the WiFi and Mobile Access setup pages. Feel free to give our tech support line a quick call to double-check that your installer optimized your system for your unique living style.

### Need help?


Feel free to call us from 8am – 5pm Monday – Friday,

- Pacific Time: 1-[866-410-1134](tel:866-410-1134), ext. 2
- [support@senthydro.com](mailto:support@senthydro.com)

We are happy to work with you and your plumber or one of our 5000+ network of installers to ensure complete satisfaction with your Leak Defense System.

2025-01-08

## Documents / Resources

 <p><b>Quick Start Guide - Dual LDS</b> Fully Automated Leak Detection &amp; Shutoff Valve (Dual)</p> <p>Your system was set at the factory for the most common settings and should have been further calibrated by the installer. If you want remote notifications, you can refer to the WiFi and Mobile Access setup pages. Feel free to give our tech support line a quick call to double-check that your installer optimized your system for your unique living style.</p> <p><b>Need help?</b> Pacific Time: 1-866-410-1134, ext. 2 <a href="mailto:support@senthydro.com">support@senthydro.com</a></p> <p>We are happy to work with you and your plumber or one of our 5000+ network of installers to ensure complete satisfaction with your Leak Defense System.</p> <p><b>LEAK DEFENSE</b></p>	<p><a href="#">LEAK DEFENSE QS-LDS Fully Automated and Shutoff Valve</a> [pdf] User Guide QS-LDS, QS-LDS Fully Automated and Shutoff Valve, Fully Automated and Shutoff Valve, Automated and Shutoff Valve, Shutoff Valve, Valve</p>
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## References

-  [Leak Defense Systems](#)
-  [Leak Defense System | Water Damage & Leak Protection | Residential & Commercial](#)
- [User Manual](#)

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