

LynxHeat Glycol Feeder GF-200S & GF-300S Instruction Manual

Installing the ½" Fitting (Glycol Feeder to System Connection)

Required Tools:

- Size 7/8 Wrench
- Size 24 Wrench



Instructions:

1. Place the Size 24 wrench on the female ½" fitting located on the exterior of the glycol feeder.
2. Use the Size 7/8 wrench to tighten the ½" fitting from your system or the corresponding wrench for your system's fitting size.

Please refer to the photo below for guidance.



Note: Use only the specified wrenches. Using other tools may damage the internal manifold connections.

Glycol Level Controller Setup

1. Introduction

This Wi-Fi enabled glycol level controller allows you to monitor and manage your system's fluid level via the mobile app. Within the app, you can set high and low fluid level alarm thresholds, receive push notifications when those thresholds are reached, and review historical level data. A built-in buzzer provides an additional on-site alert whenever an alarm condition is detected.

Fluid Level Display

Both the controller and the app display the current fluid level in six increments: 0%, 20%, 40%, 60%, 80%, and 100%.

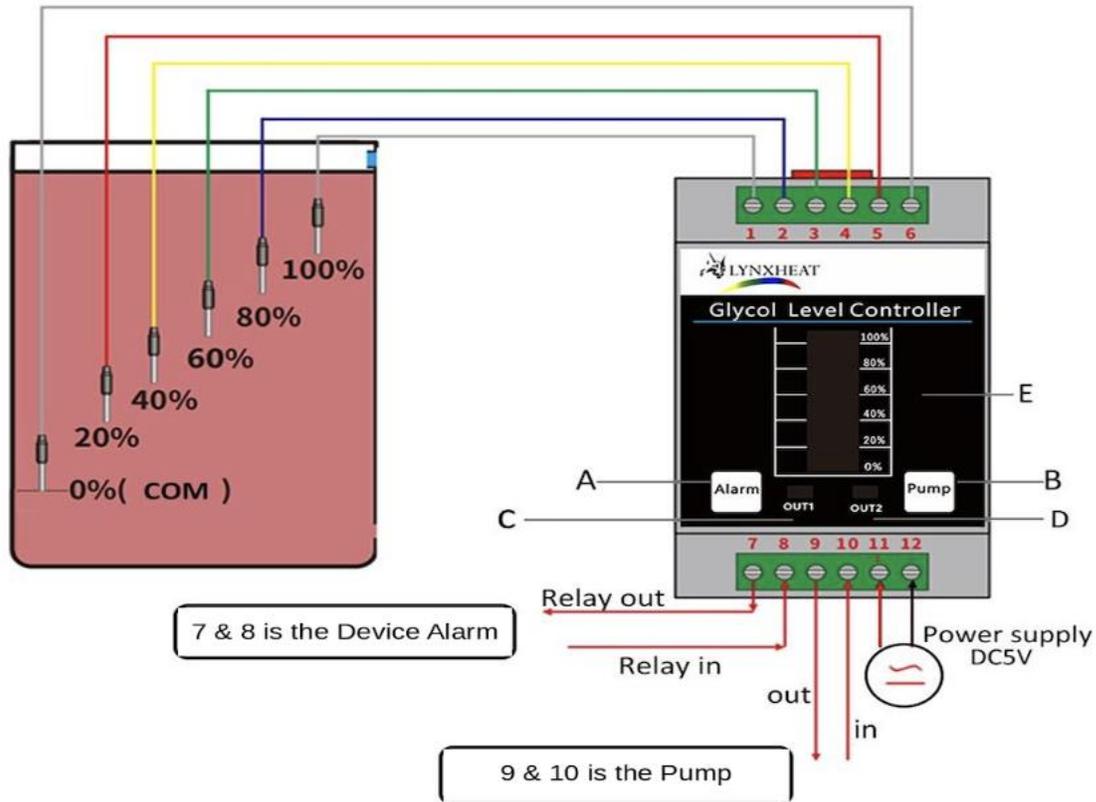
As the fluid level rises, the display updates at each increment as the fluid reaches it:

- Below 20% — displays 0%
- Reaches 20% — displays 20%
- Reaches 40% — displays 40%
- Reaches 60% — displays 60%
- Reaches 80% — displays 80%
- Reaches 100% — displays 100%

As the fluid level drops, the display updates one step behind to confirm the level has fully fallen below each increment:

- Drops below 100% — displays 80%
- Drops below 80% — displays 60%
- Drops below 60% — displays 20%
- Drops below 20% — displays 0%

2. Product Instruction



Controls & Indicators

A — Wi-Fi Configuration Button / Device Alarm Relay Manual Switch Used to configure the unit's Wi-Fi connection and when the Wi-Fi is connected it can manually switch the Device Alarm Relay. The manual switch is only active when the current fluid level is between the preset start and stop level values.

B — Pump Relay Manual Switch Used to manually switch the Pump Relay. The manual switch is only active when the current fluid level is between the preset start and stop level values.

C — Wi-Fi Configuration Indicator / Device Alarm Relay Status Indicator

- LED On: The Relay is connected
- LED Off: The Relay is disconnected
- LED Flashing: The Wi-Fi configuration mode is active

D — Pump Relay Status Indicator Displays the current status of the Pump Relay.

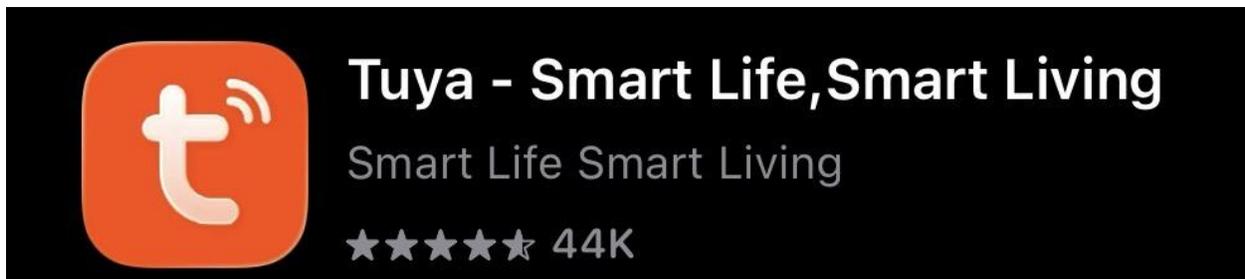
E — Fluid Level Indicators Displays the current fluid level as a percentage.

Sensor Terminal Wiring

- Terminal 1 — 100% fluid level (white wire)
- Terminal 2 — 80% fluid level (blue wire)
- Terminal 3 — 60% fluid level (green wire)
- Terminal 4 — 40% fluid level (yellow wire)
- Terminal 5 — 20% fluid level (red wire)
- Terminal 6 — 0% fluid level / Common Terminal COM (white wire)

3. App Installation.

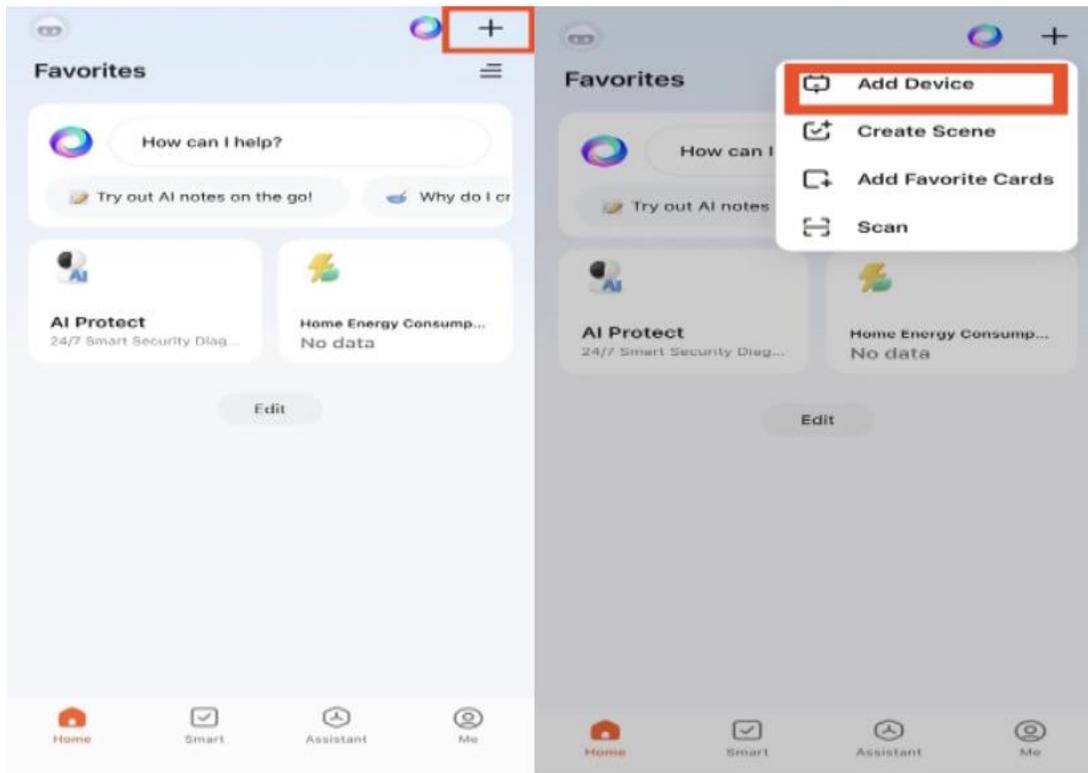
Step 1: Download the App. Download the **Tuya Smart** app from the Apple App Store (iOS) or Google Play Store (Android).



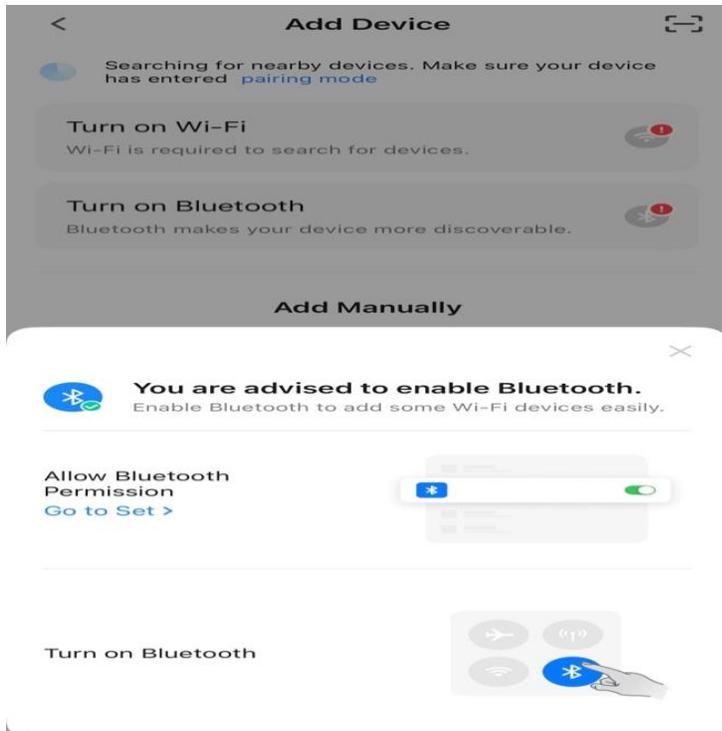
Step 2: Enable Notifications. When prompted, allow the app to send you notifications. This is required to receive fluid level alerts.

Step 3: Create an Account. Register a new account using your email address. Enter the verification code sent to your email and create a password to complete your registration.

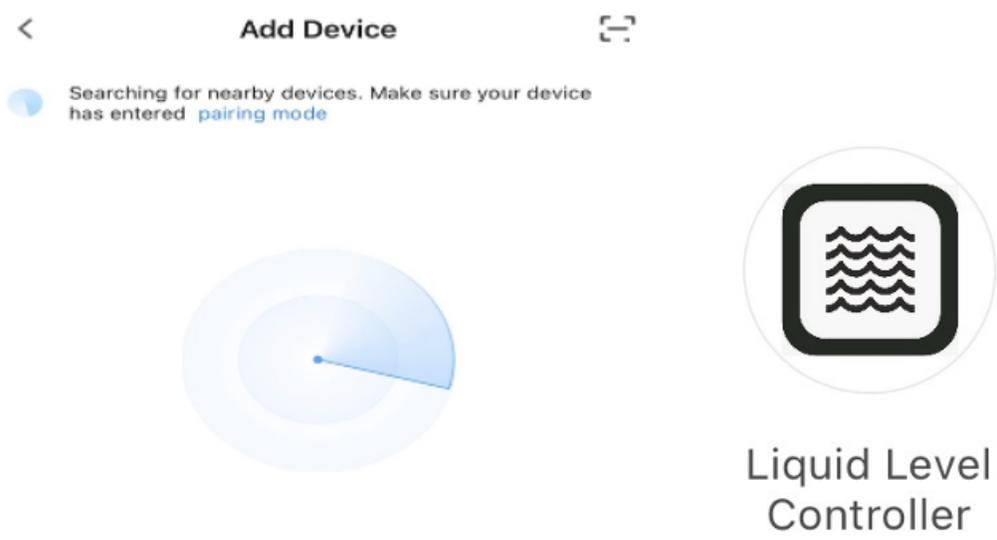
Step 4: Add a New Device. From the app's home page, tap the + icon in the top right corner, then select **Add Device** to begin the pairing process.



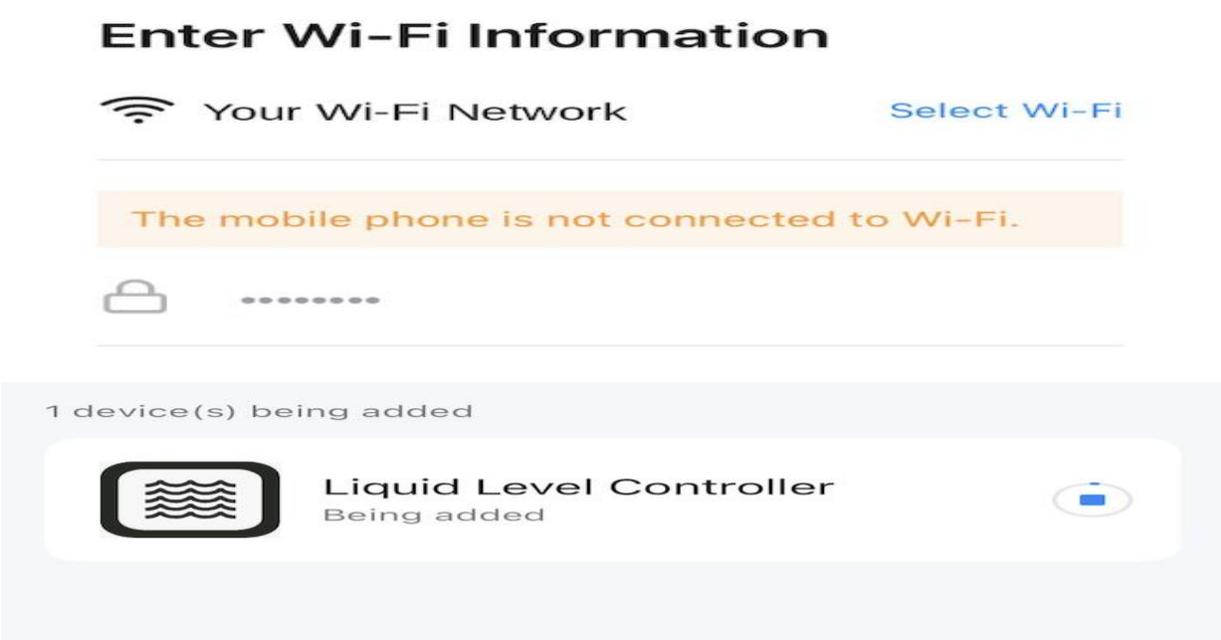
Step 5: Enable Wi-Fi and Bluetooth. Ensure your phone is connected to your Wi-Fi network and that Bluetooth is turned on. If either is disabled, the app will prompt you to enable them before proceeding.



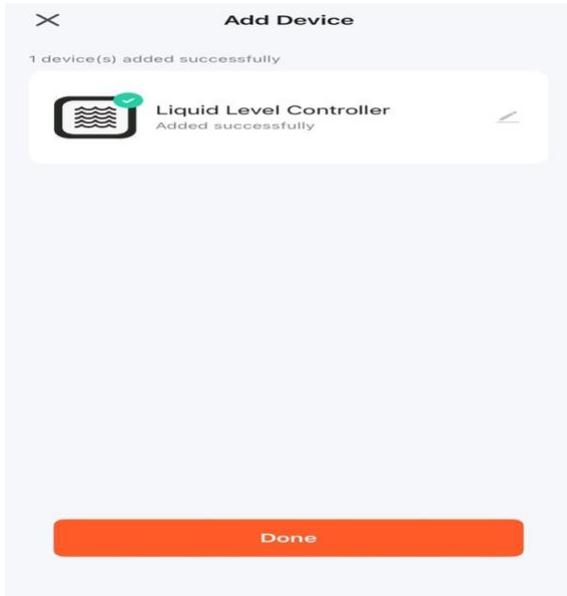
Step 6: Enter Pairing Mode. Once Bluetooth is enabled, the app will automatically enter pairing mode. If the glycol level controller does not appear on screen within 15–30 seconds, press and hold the **Alarm button** on the controller for 3–5 seconds, then release. The Wi-Fi indicator light will flash rapidly, confirming the unit is in pairing mode. The liquid level controller icon will then appear on screen and tap it to continue.



Step 7: Connect to Wi-Fi. When prompted, select your Wi-Fi network and enter your password, then tap **Next** to proceed. If incorrect information is entered, you will be prompted to re-enter your credentials before continuing. Otherwise, you will see the glycol level controller being added to your device list.



Step 8: Setup Complete. Once successfully paired, the app will display the glycol level controller dashboard where you can monitor your system's current fluid level and settings.



Recommended Settings

The screenshot shows a mobile application interface for 'LEVEL CONTROL'. At the top, there is a back arrow, the title 'LEVEL CONTROL...', and a 'Can Be Renamed' option. Below the title is a water tank icon with a 100% scale and a 'Current Level' indicator showing 80%. The interface is divided into two columns of settings, each with a 'Do Not Change' instruction. The settings are numbered 1 through 17, with lines pointing to specific UI elements. A box on the right side of the interface contains the text: '2. Pump Switch', '3. Relay Status Record', 'Alarm Record', 'Water Level Bar Chart'.

Number	Setting Name	Value / Status
1.	Alarm Switch	Switch 1 (On)
2.	Pump Switch	Switch 2 (On)
3.	Relay Status Record	Log (On)
4.	Glycol Level Controller Working Mode	Work Mode: Add
5.	Pump Operation Function	Ch2 Function: L_Off_H_On
6.	1st Stage Alarm Minimum Water Level Setting	Level On1: 20%
7.	1st Stage Alarm Maximum Water Level Setting	Level Off1: 100%
8.	2nd Stage Alarm Maximum Water Level Setting	Level On2: 100%
9.	2nd Stage Alarm Minimum Water Level Setting	Level Off2: 40%
10.	Low Water Level Alarm	Low Level: 0%
11.	High Water Level Alarm	High Level: 100%
12.	Alarm Push Notification	Remote Alarm: High&Low
13.	Built-In Buzzer	Buzzer Alarm: High & Low
14.	Alarm Limited Time	Limited Time: 0Min
15.	Alarm Delay	Ch1 Delay: 0Sec
16.	The Status of the Water Probe	Sensor Status: OK
17.	Alarm & Pump ON/OFF	Main Switch: On

1. Alarm Relay The alarm relay can be manually turned off once the liquid level rises above the minimum set limit. To silence the alarm, add liquid to the tank until the threshold is met, then press the alarm button to turn it off.

2. Pump Relay The pump relay can be turned on or off at any time manually or through the app. Note the following automatic shutoff conditions:

- If the liquid level reaches 0%, the pump will automatically turn off and the fluid must be readded to the tank prior to manually restarting by using the on/off switch or through the app.
- If power is interrupted for longer than 30 minutes, the pump will need to be manually restarted using the on/off switch or through the app.

Before restarting the pump after an automatic shutoff, inspect the system to confirm there are no leaks.

3. Log (History Record) The Log function allows you to review past activity. Tap the Log button to access the following records:

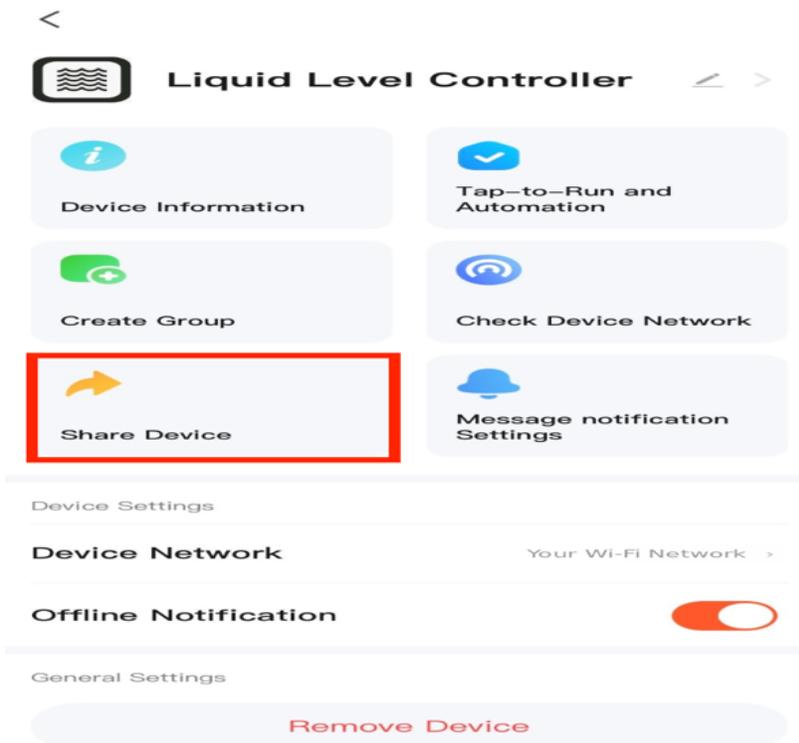
- Relay status history
- Alarm message history
- Historical water level bar chart

To share or export any of this information, follow the steps below:

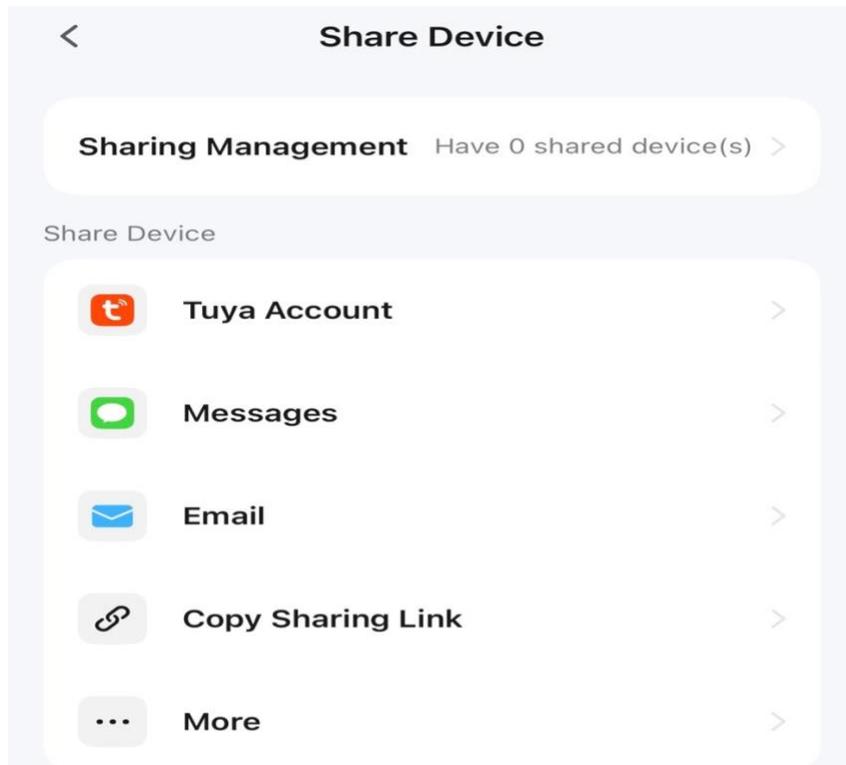
- ❖ From the device page, tap the **Edit** icon in the top right corner.



❖ Tap the **Share Device** icon.



❖ Select your preferred export method from the available options.



4. Alarm Relay – Work Mode The available Work Mode options are: Add Water, Drain Water, Add Water Time Limited, and Drain Water Time Limited. This system is configured to use **Add** mode only. Do not change this setting.

5. Pump Relay – Function The available Function options are: Manual, Alarm, L_On/H_Off, and L_Off/H_On. This system is configured to use **L_Off, H_On** mode only. Do not change this setting.

10. Low Water Level Alarm This setting defines the liquid level at which the low water alarm will trigger. A level of 0% or 20% is recommended. Adjust this value based on your preferred minimum threshold.

11. High Water Level Alarm This setting defines the liquid level at which the high water alarm will trigger. A level of 100% is recommended.

12. Alarm Push Notification Settings This setting controls which conditions will trigger a push notification to your device. Enabling notifications for both High and Low levels is recommended to ensure timely alerts for either condition.

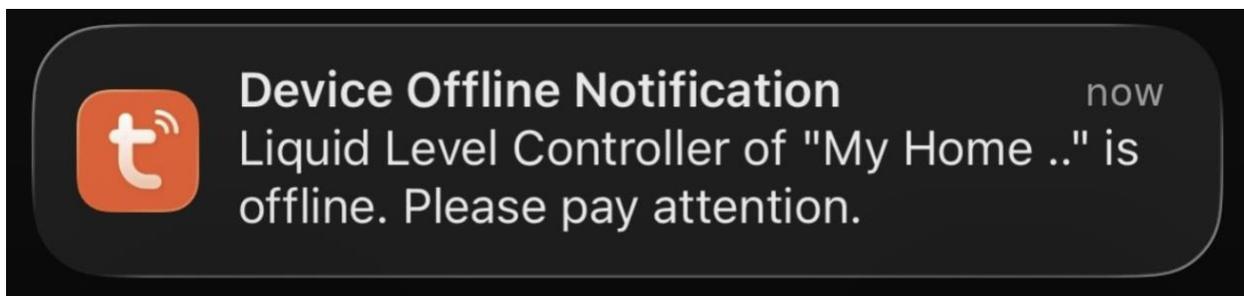
13. Device Buzzer Alarm Settings This setting controls which conditions will activate the built-in buzzer on the device. Enabling the buzzer for both High and Low levels is recommended to provide an audible alert on-site for either condition.

16. Water Probe Status Displays the current status of the water probe sensor. Use this indicator to confirm the probe is connected and functioning correctly.

17. Main Switch Enables or disables both the pump relay and the alarm relay simultaneously. Use this switch to turn the entire system on or off.

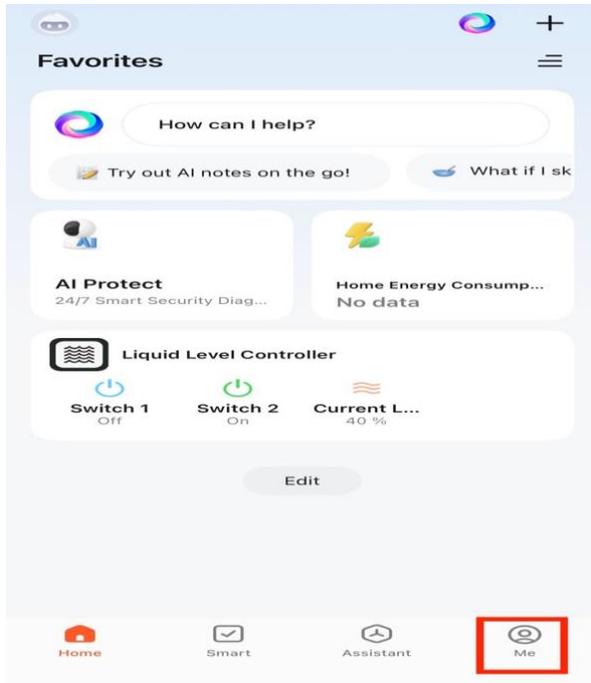
Additional App Notes

Device Connection Alerts: If the power or Wi-Fi is interrupted for more than one hour, the app will automatically send a push notification indicating a device connection failure.

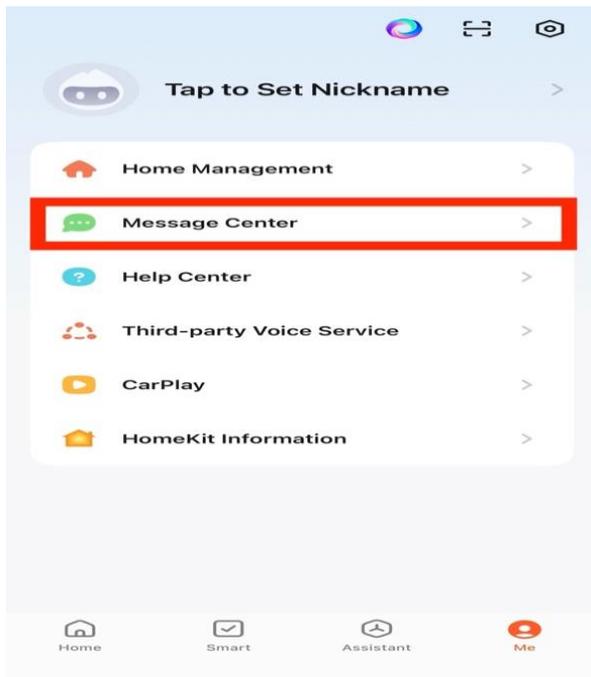


These notifications are provided at no cost through the app. To enable them, follow the steps below:

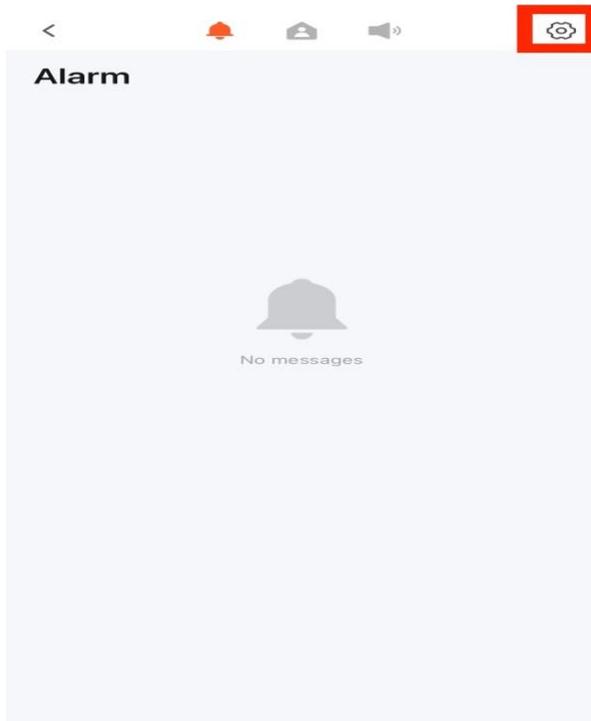
1. Tap the **Me** icon in the bottom right corner of the app.



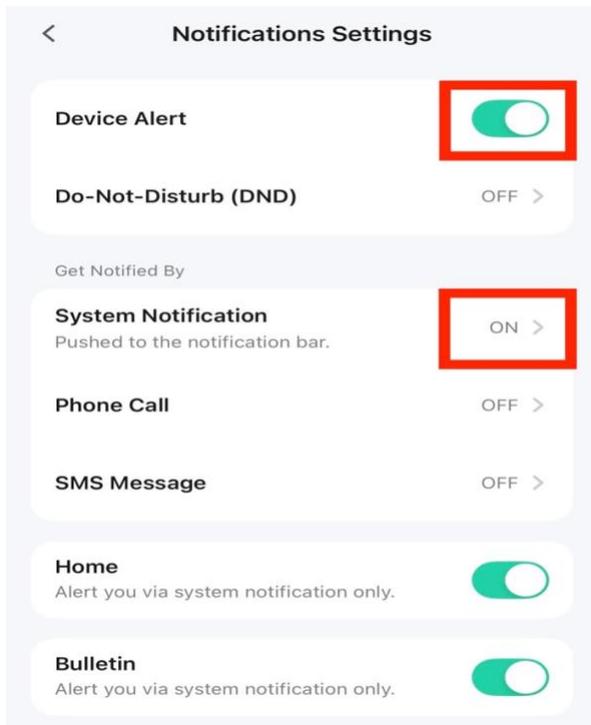
2. Select **Message Center**.



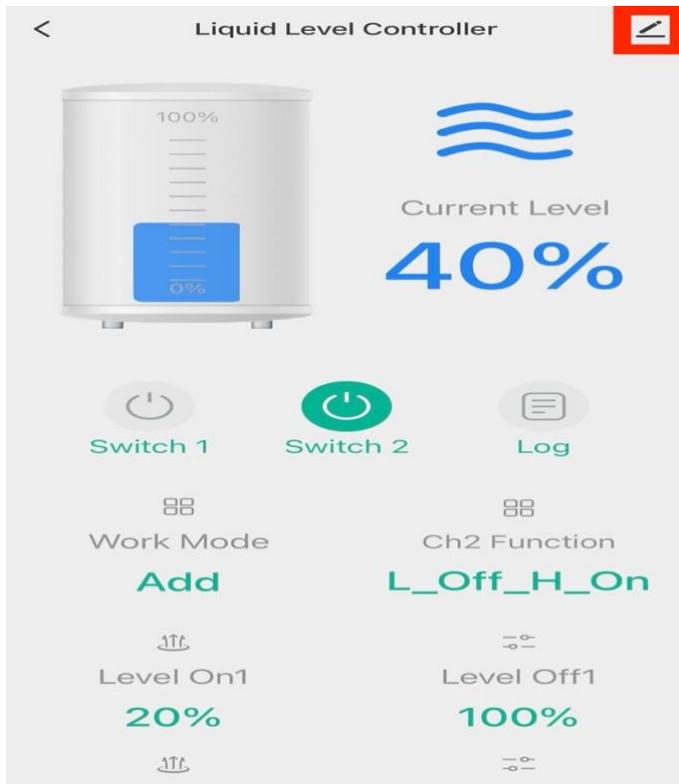
3. Tap the **Settings** icon in the top right corner.



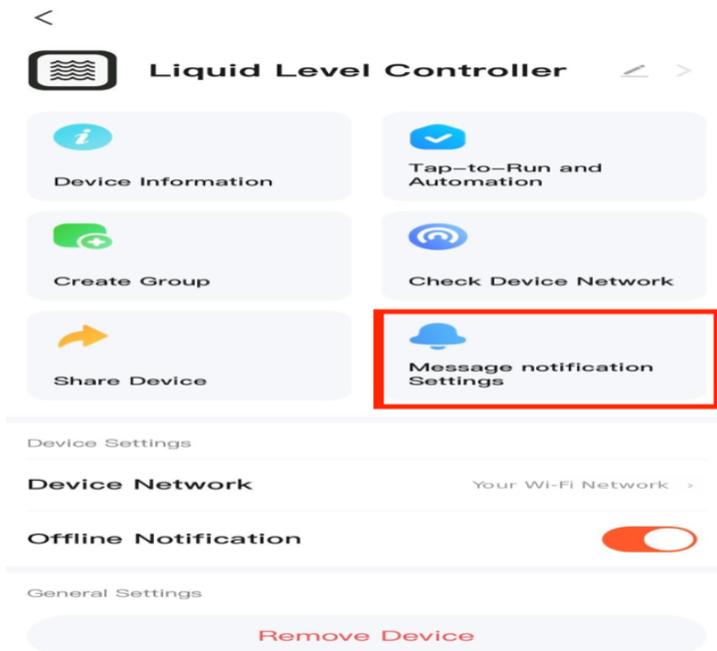
4. Ensure that **Device Alerts** and **System Notifications** are both turned on.



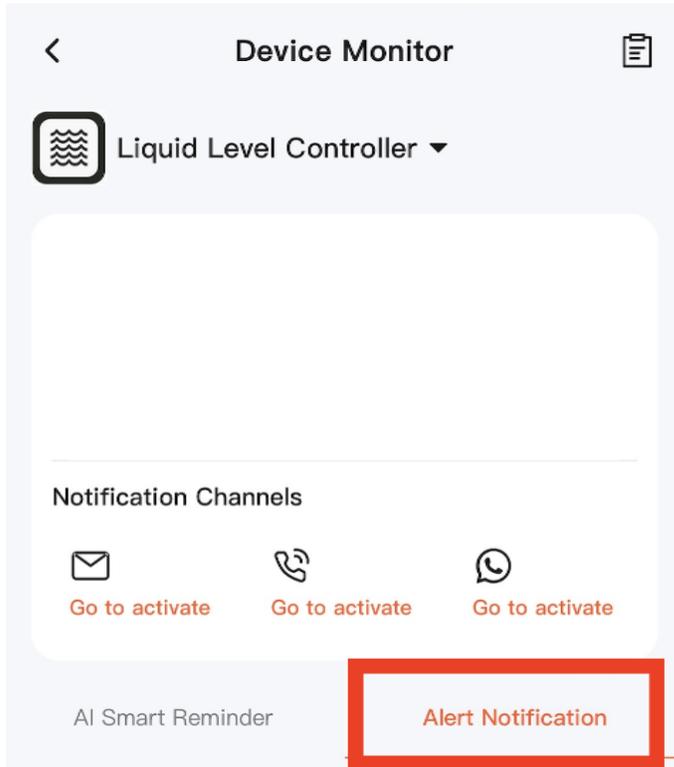
5. Then go to the Device page and tap the **Edit** icon in the top right corner.



6. Tap the **Message Notification Settings** icon.



7. Select the **Alert Notification** tab.



8. Under both **Application Message Hub** and **Mobile Notification Bar**, ensure that **Over Water Alarm** and **Low Water Alarm** are both selected.



Device Monitor



Liquid Level Controller ▾

Notification Channels



Go to activate



Go to activate



Go to activate

AI Smart Reminder

Alert Notification

Phone More Reliable

Remind me in 30 minutes if offline, Over water alarm! and others can be opened



SMS More timely

Remind me in 30 minutes if offline, Over water alarm! and others can be opened



Application Message Hub

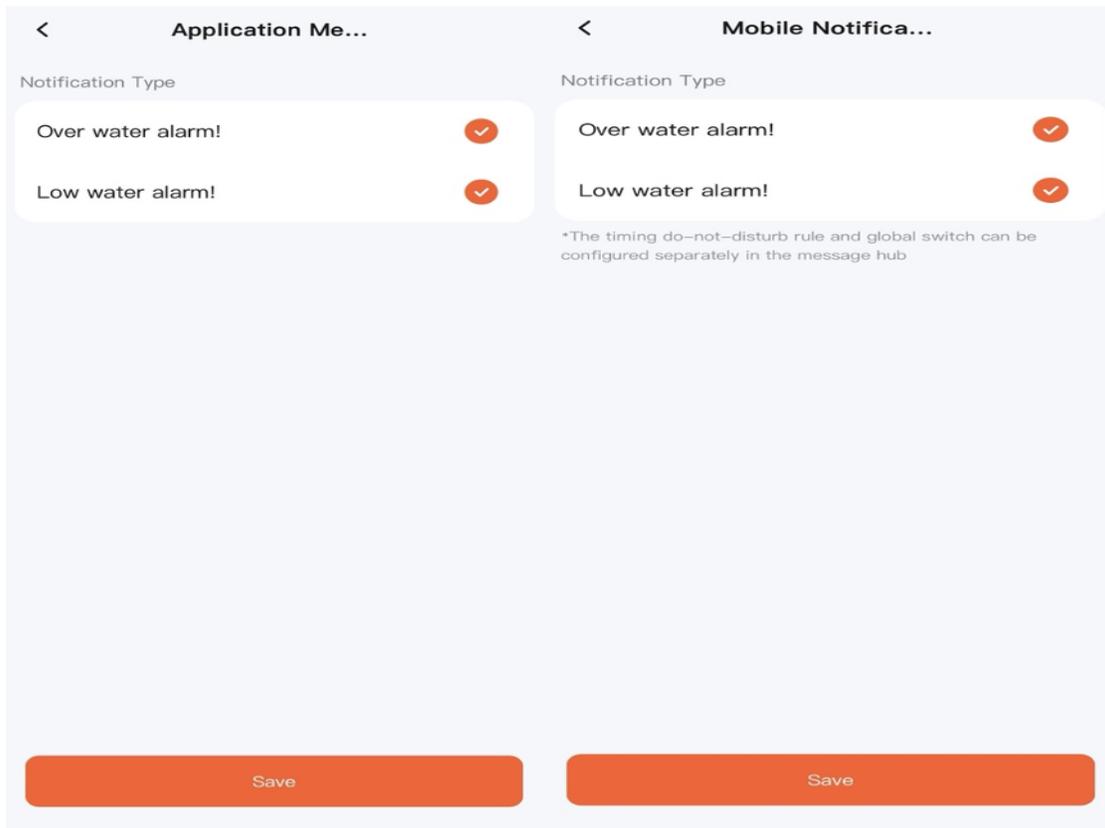
✓ Over water alarm!,Low water alarm!



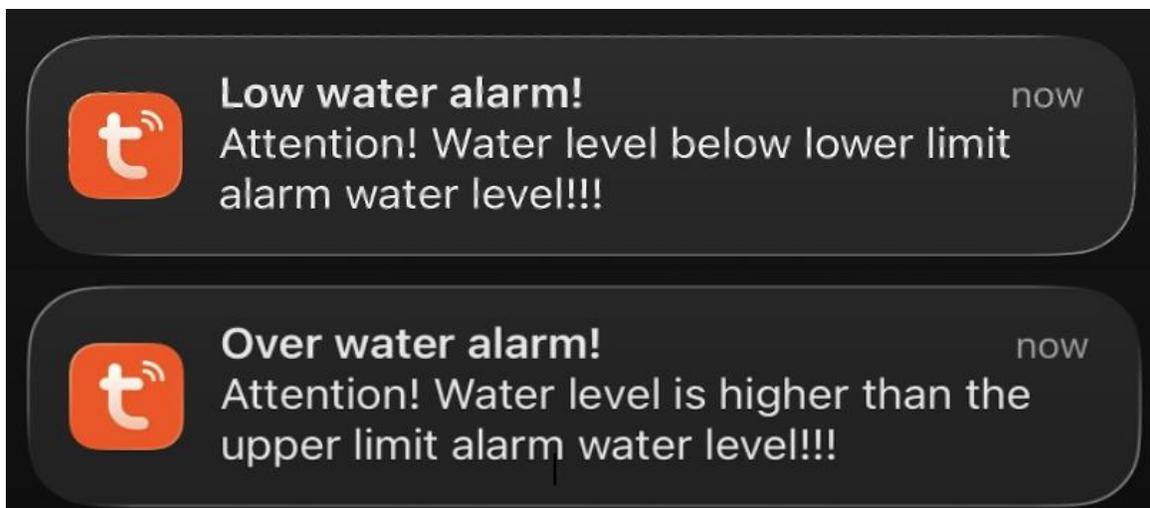
Mobile Notification Bar

✓ Over water alarm!,Low water alarm!





Once all settings are configured, you will receive push notifications whenever the high or low water alarm conditions are met.



- **Phone & Email Notifications (Optional):** Phone and email notifications are available through Tuya's paid service.



Device Monitor



Liquid Level Controller ▾

Notification Channels



Go to activate



Go to activate



Go to activate

AI Smart Reminder

Alert Notification

Phone More Reliable

Remind me in 30 minutes if offline, Over water alarm! and others can be opened



SMS More timely

Remind me in 30 minutes if offline, Over water alarm! and others can be opened



Application Message Hub



Over water alarm!,Low water alarm!

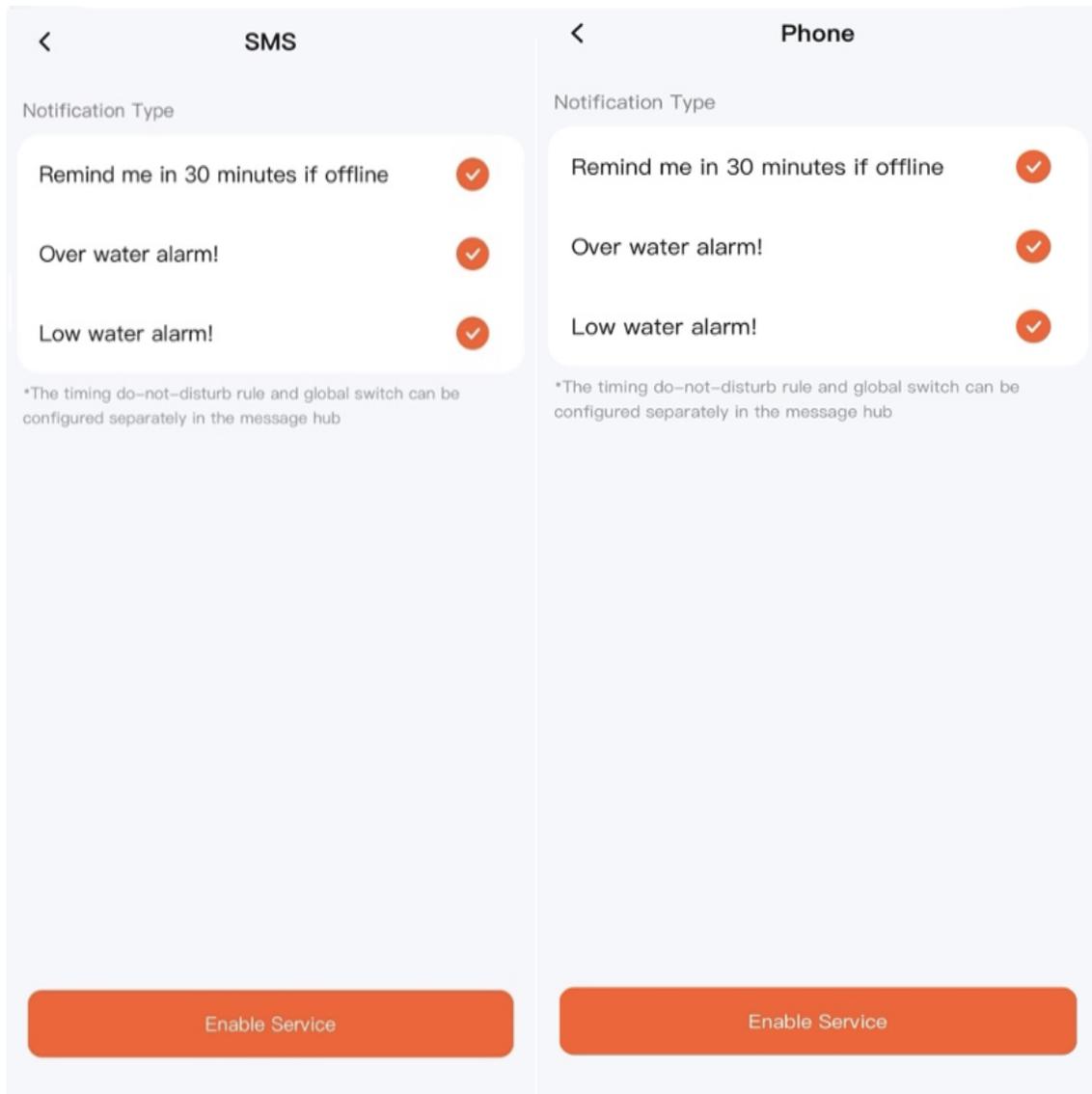


Mobile Notification Bar



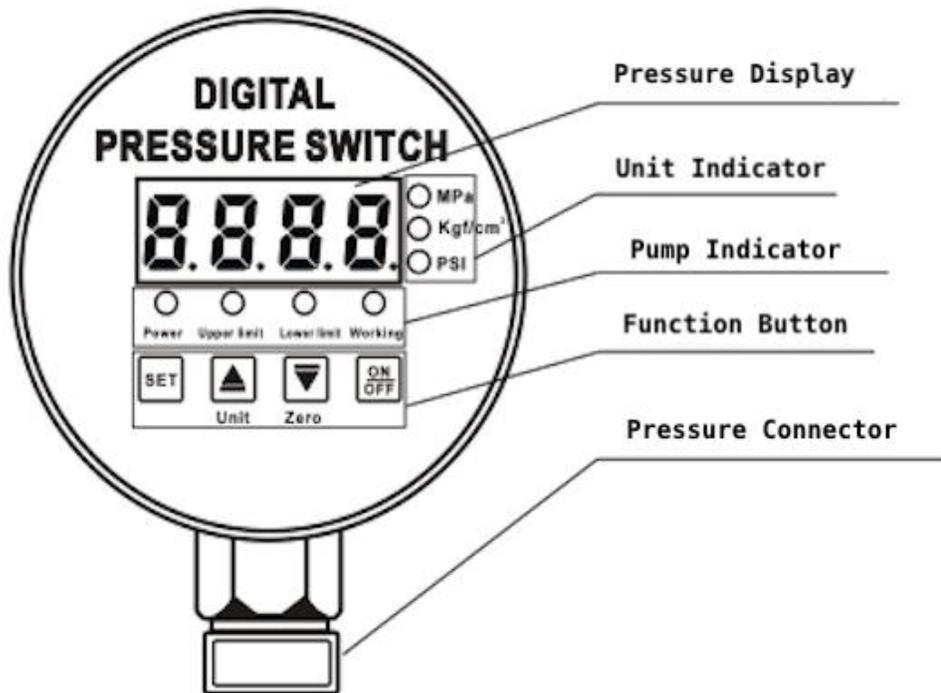
Over water alarm!,Low water alarm!





- To enable this feature, connect your WhatsApp account to the Tuya service, then complete the payment setup through the app and select your desired notification package.

Digital Pressure Switch Setup Guide



- All settings must be configured while the device is fully depressurized. (Ensure the mixing valve is open and the shutoff valve between the device and the system is closed before proceeding).
- Turn on the power by confirming the power supply is connected and the switch is in the ON position.
- Press the **ON/OFF** button once until the display clears and no values are shown.
- Press the **Unit** button to select the desired unit of pressure measurement (PSI, MPa, or kgf/cm²).
- Press the **Set** button to enter the limit configuration menu. Use the **Unit or Zero** arrow buttons to increase or decrease the lower pressure limit first, then press **Set** again to confirm.
- Set the upper pressure limit and press **Set** to confirm. The display should return to a blank screen once both limits have been saved.

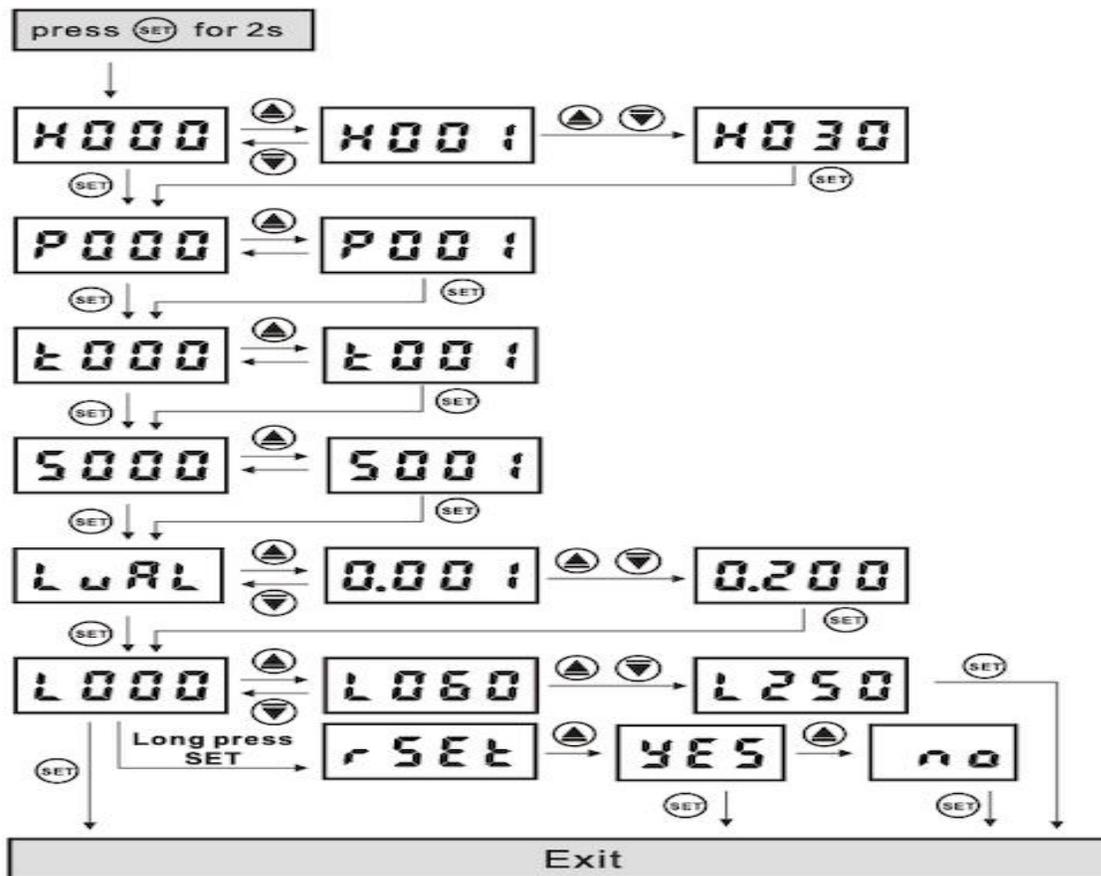
- **Note:** The upper pressure limit must be set at least 4% higher than the lower pressure limit.
- Press the **ON/OFF** button. The display will now show the system's current operating pressure.
- To enter settings mode, press the **ON/OFF** button once until the display goes blank, then press and hold the **Set** button for 2 seconds to access the parameter settings menu.
- **H001** will appear on the display. Use the **Unit or Zero** arrow buttons to increase or decrease the value, then press **Set** to advance to the next parameter, **P001**.
- To exit the parameter menu, continue pressing **Set** to step through each remaining parameter. Once the display goes blank, press the **ON/OFF** button to save your settings and exit.

Parameter Settings Reference

Display	Description	Setting Range	Manufacturer's Preset Settings
	Monitor delay time. The controller will stop after a set delay if the pressure exceeds the upper limit or falls below the lower limit.	1-30s. 0 for Disable, Disabled by Default	1
	Protection mode. If enabled, the lower and upper limits will be locked. To adjust the limits, this function must first be disabled.	0 for Disable, 1 for Enable, Disabled by Default	1
	Reversed control mode. Do not change.	0 for Disable, 1 for Enable, Disabled by Default	0
	Pressure leak protection. The controller stops and the display shows "E--1" if the pressure does not change for more than 3 minutes.	0 for Disable, 1 for Enable, Disabled by Default	0

Display	Description	Setting Range	Manufacturer's Preset Settings
	Pressure loss threshold. The controller stops and the display shows "E---F" if the pressure falls below the set threshold for the loss delay time specified below.	0 to the Lower Pressure Limit Disabled by Default	0
	Pressure loss delay time. The controller stops and the display shows "E---F" if the pressure remains below the loss threshold for the duration of this setting.	60-250s. 0 for Disable, Disabled by Default	0

Parameter Settings Visual Guide



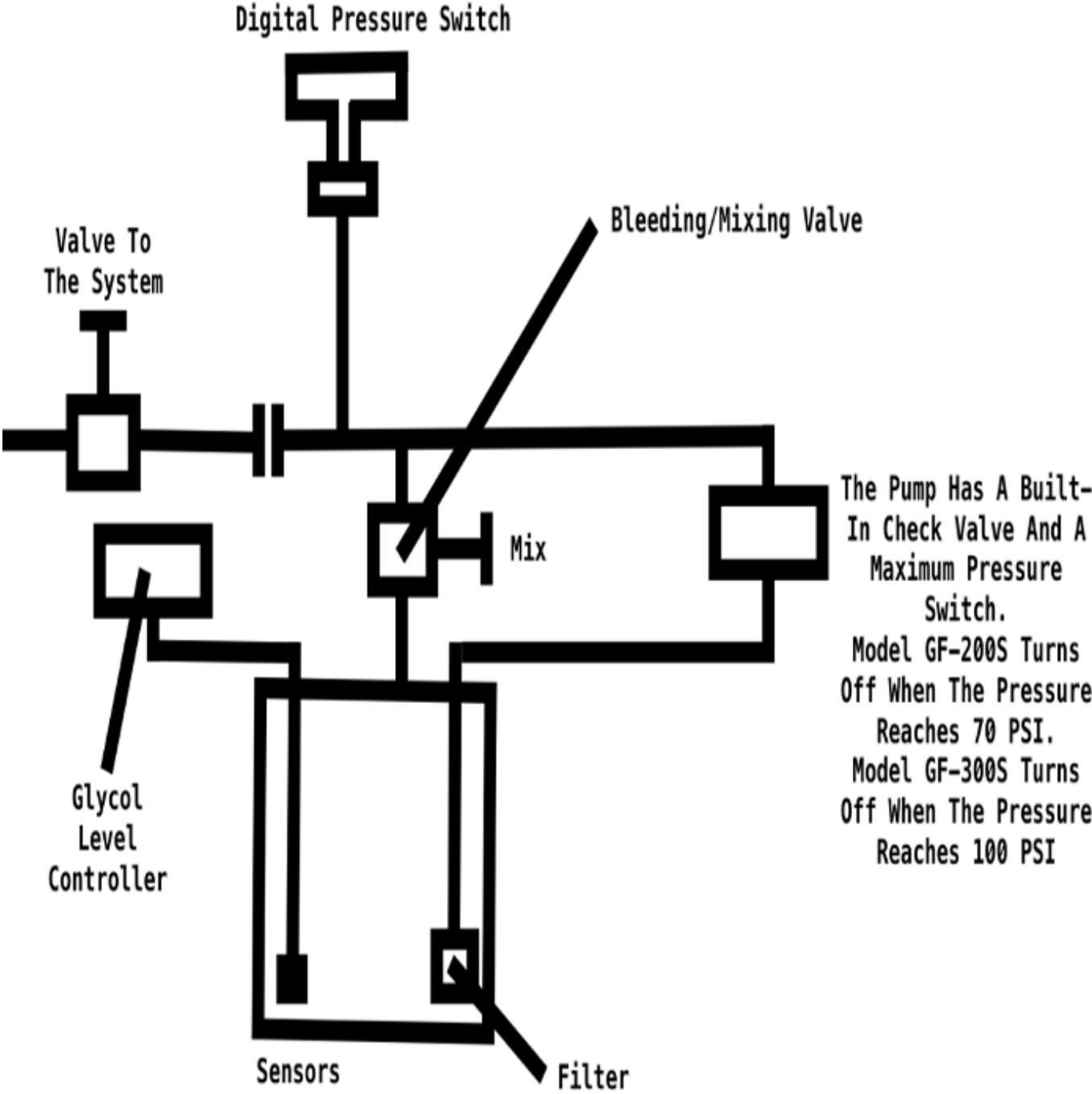
Important Notes: Advanced Pressure Switch Functions

- Before enabling the final three settings, it is important to understand how they affect the system.
- These three settings are designed to work together and should be enabled as a group or not at all. When active, they unlock the LuRL and L000 parameters and give the digital pressure switch direct authority over the pump. This is useful during HVAC system startup and testing because the pressure switch will detect a potential leak faster than either the glycol level controller and the app.
- However, there are limitations to be aware of. While these settings are active, the pump cannot be controlled through the app and the glycol level controller. Make sure that the pump is turned on the glycol level controller display. If the pressure switch shuts the pump down, the controller and app will not reflect this as they will continue to show the pump as running. To restore pump operation after a shutdown, the reset must be done manually at the pressure switch itself by pressing the ON/OFF button twice, followed by one additional press to turn it back on.
- For this reason, these settings are not intended for long-term use. Once the system has been started up and is operating as expected, all three settings should be disabled. At that point, full monitoring and alert capabilities are returned to the glycol level controller and app, which will notify you if the fluid level fall below the lower pressure limit or a potential leak is detected.

System Startup Procedure

- Close the valve between the glycol feeder and the system.
- Open the mixing valve.
- Bleed the pump.
- Mix the polypropylene glycol fluid and water and pour the mixture into the tank.
- Open the valve between the glycol feeder and the system.
- Close the mixing valve.
- The glycol feeder will now operate automatically, adding fluid to the system as needed.
- **Note:** Make sure that the mixing valve is completely closed during normal operation. Otherwise, the fluid from the system will return to the tank and may overflow.

Hydraulics Diagram For LynxHeat Glycol Feeder Model GF-200S & GF-300S



Troubleshooting Guide

The Device Does Not Start (Pump, Pressure Switch, or Glycol Level Controller)

- Turn the switch off and wait 1–5 minutes, then turn it back on.

The Pump Is Running But The Pressure Does Not Increase

- Inspect the system for any leaks.
- Confirm that the mixing valve is closed.
- Check whether the filter inside the device is clogged.



Power Outage

- If the display does not light up, there may be a power issue. Check the following:
 - Power Cable
 - Power Adapter
 - GFI Outlet
- If the power is restored within **30 minutes**, the system will resume normal operation automatically.
- If the power is not restored within **1 hour**, the app will send a notification to restart the system. To restart, ensure that there are no leaks in the system. Then, turn on the pump

manually using the pump button on the glycol level controller displayer or by pressing **Switch 2** in the app.

Further Assistance

If the issue persists or is not listed above, please contact our support team by:

- Filling out the **Contact Us** form on our website, or
- Emailing customer support directly: customerservice@lynxheat.com

Limited Commercial Warranty

WARRANTY COVERAGE This Limited Commercial Warranty ("Warranty") covers defects in materials and workmanship under normal use and service conditions. This Warranty is valid for a period of **18 months from the original date of purchase** and applies solely to the original purchaser. This Warranty is non-transferable.

PROOF OF PURCHASE A valid proof of purchase (original receipt or invoice) is required to make any warranty claim. Claims submitted without proof of purchase will not be processed. Please retain your receipt for the duration of the warranty period.

WHAT IS COVERED This Warranty covers manufacturing defects and failures in materials or workmanship that occur during normal use of the product. If a covered defect is identified during the warranty period, we will, at our discretion, repair or replace the defective product or component at no charge.

WHAT IS NOT COVERED This Warranty does not cover the following:

- Damage caused by accident, misuse, abuse, neglect, or unauthorized modification
- Damage caused by improper installation or operation outside of the guidelines specified in the product manual
- Damage caused by power surges, flooding, or other external causes
- Cosmetic damage, including scratches and cracks
- Products with a removed or altered serial number
- Normal wear and tear

HOW TO OBTAIN WARRANTY SERVICE To submit a warranty claim, please contact us directly using the information provided below. Do not return the product to the place of purchase. When reaching out, please have the following information ready:

1. Your full name and contact information
2. Original proof of purchase (receipt or invoice)
3. A description of the defect or issue being reported

LIMITATION OF LIABILITY To the maximum extent permitted by applicable law, this Warranty is the sole and exclusive warranty provided for this product. We are not liable for any incidental, special, or consequential damages arising from the use or inability to use this product. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

DISCLAIMER This Warranty gives you specific legal rights. You may also have other rights that vary by jurisdiction. This Warranty does not affect any statutory rights you may have under applicable consumer protection laws.

This warranty is valid only when accompanied by a valid proof of purchase. For all warranty inquiries, please contact us directly.