

[Manuals.plus](#) /

› [GONLEN](#) /

› Tuya Smart Home Water Level Sensor WiFi Controller Leakage Flood Alarm Swimming Pool Pump Tank Flow Detector User Manual

GONLEN KL-W96L-Tuya

GONLEN Tuya Smart Home Water Level Sensor WiFi Controller User Manual

Model: KL-W96L-Tuya

INTRODUCTION

The GONLEN Tuya Smart Home Water Level Sensor WiFi Controller is an intelligent device designed for precise water level monitoring and control. It allows users to manage water levels in various applications such as HVAC systems, hot water processes, municipal drainage, boilers, water towers, storage tanks, and breeding irrigation. Through its dedicated mobile application, users can monitor real-time water levels, set up water addition or drainage operations, and receive high and low water level alarm notifications.

KEY FEATURES

- **Real-Time Supervision:** The mobile application displays current water levels (0%, 25%, 50%, 75%, 100%).
- **Dual Relay Outputs:** Relay output 1 (terminals 7, 8) typically connects to water pumps for on/off control. Relay output 2 (terminals 9, 10) is used for anti-dry heating protection.
- **Two Working Modes:** Preset "Add water" or "Pump water" modes enable automatic activation/deactivation of Relay 1 based on preset water level values.
- **Water Level Alarms:** Configurable upper and lower limit alarms with real-time push notifications to smartphones.
- **Wide Application:** Suitable for diverse water level control scenarios including swimming pools, tanks, and flow detection.

SPECIFICATIONS

Attribute	Value
Voltage	12 Volts
Control Method	App
Mounting Type	Wall Mount
Sensor Technology	Contact Sensor

Attribute	Value
UPC	602914728218
Manufacturer	Shenzhen KONLEN Technology Limited
Part Number	KL-W96L-Tuya
Item Weight	15.8 ounces
Product Dimensions	3.5 x 2.16 x 1.73 inches
Item Package Quantity	1
Included Components	Detector
Batteries Included?	No
Batteries Required?	No
Color	White and Red
Power Source	Corded Electric
Compatible Devices	Smartphone

SETUP AND INSTALLATION

Follow these steps to properly install your water level sensor and controller:

1. Prepare the Sensor Probes

The water level sensor uses multiple probes to detect different water levels. You will need a PVC pipe (not included) to mount these probes at desired height intervals. Mark the pipe for 0%, 25%, 50%, 75%, and 100% water levels, then drill small holes at these marks.

Wiring Connection (Add water as example)

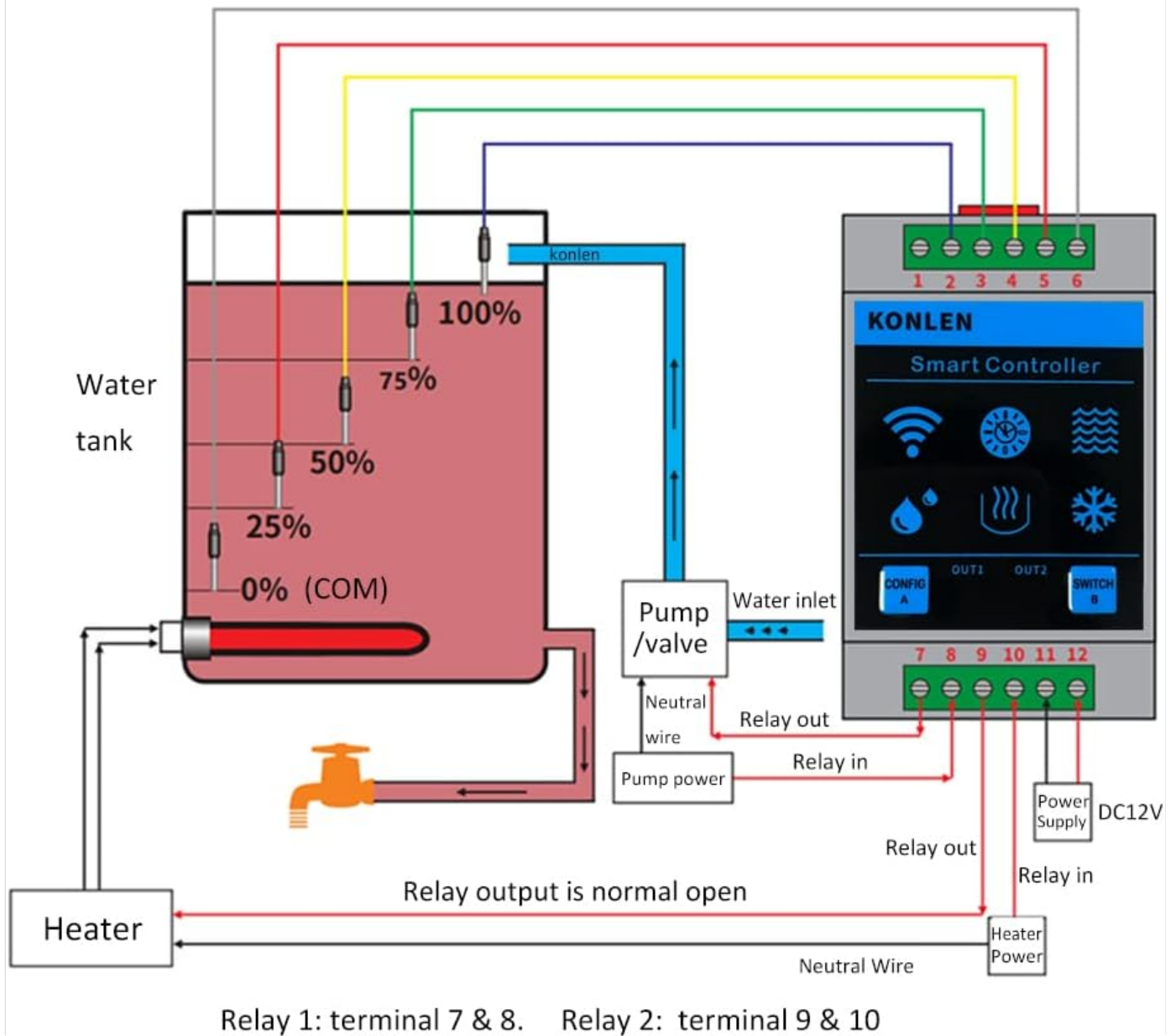
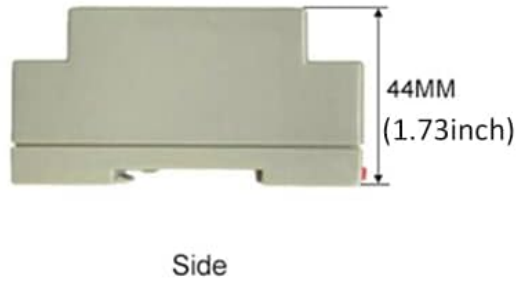
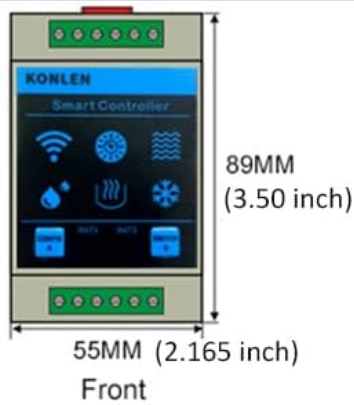


Image: Marking and drilling a PVC pipe for sensor probe installation.

2. Install Sensor Probes into PVC Pipe

Insert the sensor probes into the drilled holes. Ensure the metal part of the sensor does not touch the PVC pipe directly. Connect the wires according to the color code: Blue for 100%, Green for 75%, Yellow for 50%, Red for 25%, and White for COM (common). The cable length can be extended up to 30 meters (approximately 100 ft).



White cable: 3.5 meters (appr 11.48ft)

Red cable: 3.1 meters (appr 10.17ft)

Yellow cable: 2.3 meters (appr 7.54ft)

Green cable: 1.1 meters (appr 3.60ft)

Blue cable: 1 meter (appr 3.28ft)

Cable length: can be extended to be 30 meters (appr 100ft) Max.



Powered by DC12V adapter
US/EU/UK/AU power plug optional

Default: send US plug to US address

Image: Controller dimensions and sensor cable lengths.

For a visual guide on installing the water level probes, please watch the official installation video:

Your browser does not support the video tag.

Video: How to install water level probes. This video demonstrates the process of preparing the PVC pipe, installing the probes, and connecting them to the controller.

3. Connect to the Controller

Connect the sensor wires to the corresponding terminals on the main controller unit. Ensure secure connections. The controller is powered by a DC12V adapter (US/EU/UK/AU power plug options available).



Image: The main controller unit and water level probes.

Application



Pump Water



Breeding irrigation



Storage Tank



Boiler



Water Tank



Water Tower

Image: Detailed view of the controller's physical specifications and power supply options.

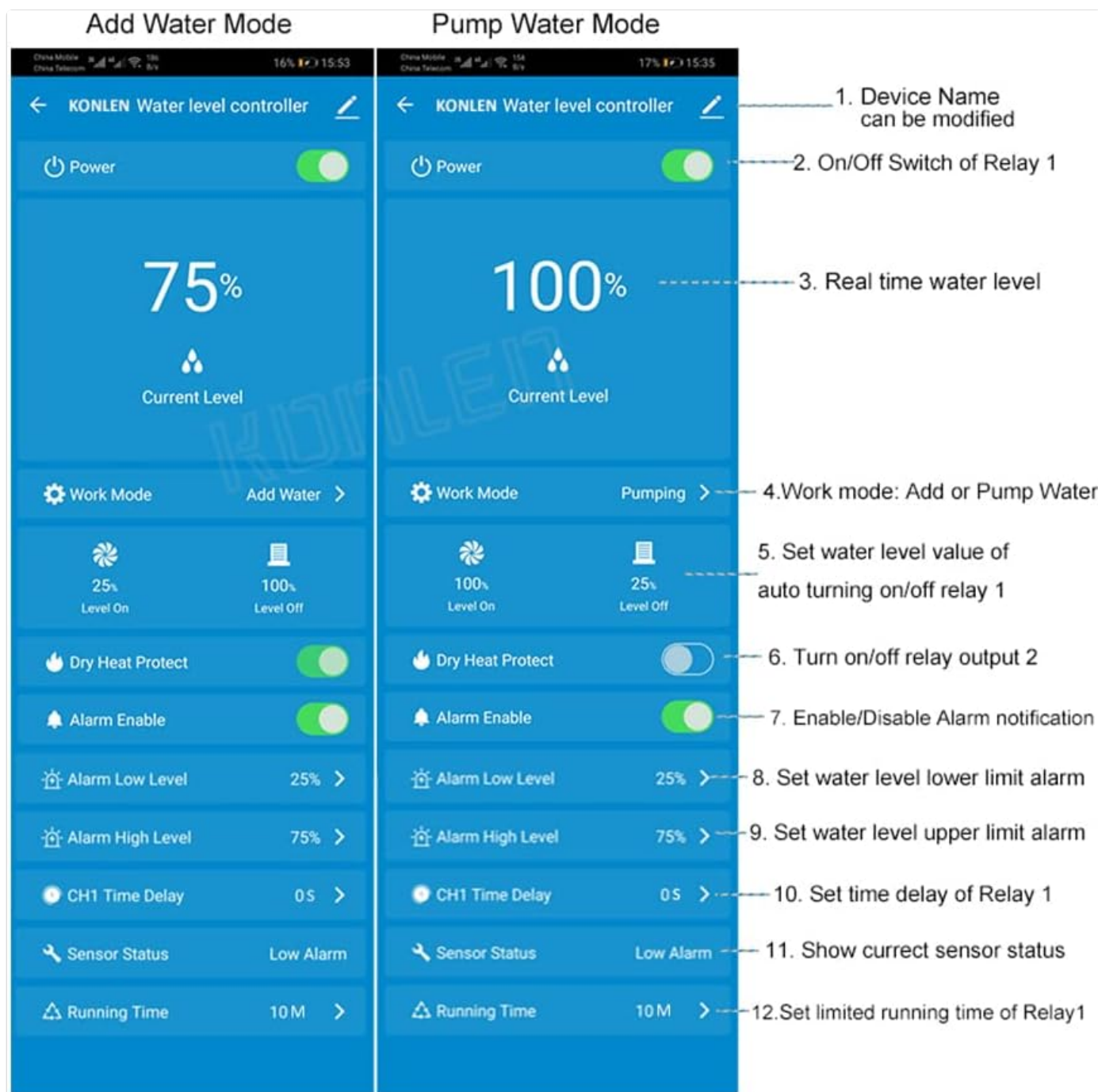


Image: Example wiring connection for adding water, showing relay outputs for pump and heater.

OPERATING INSTRUCTIONS

The controller operates via the Tuya Smart Life mobile application. Ensure your device is connected to your home WiFi network.

1. App Interface Overview

The app provides a clear interface to monitor and control your water levels. You can see the current water level percentage, switch between working modes, and manage alarm settings.

Mode 1: → Add water



Water Level = 100%
Turn off the water pump



Water level < 25%,
Start the water pump to add water

Mode 2: → Pump water



Water Level = 100%
Start to pump water



Water level < 25%,
Stop pumping

Image: Mobile application interface for water level control, displaying current level, work modes, and protection settings.

2. Working Modes

The controller supports two primary working modes:

- **Add Water Mode:** When the water level drops below a preset threshold (e.g., 25%), the pump (connected to Relay 1) will activate to add water until the level reaches another preset threshold (e.g., 100%).
- **Pump Water Mode:** When the water level rises above a preset threshold (e.g., 100%), the pump (connected to Relay 1) will activate to pump out water until the level drops to another preset threshold (e.g., 25%).

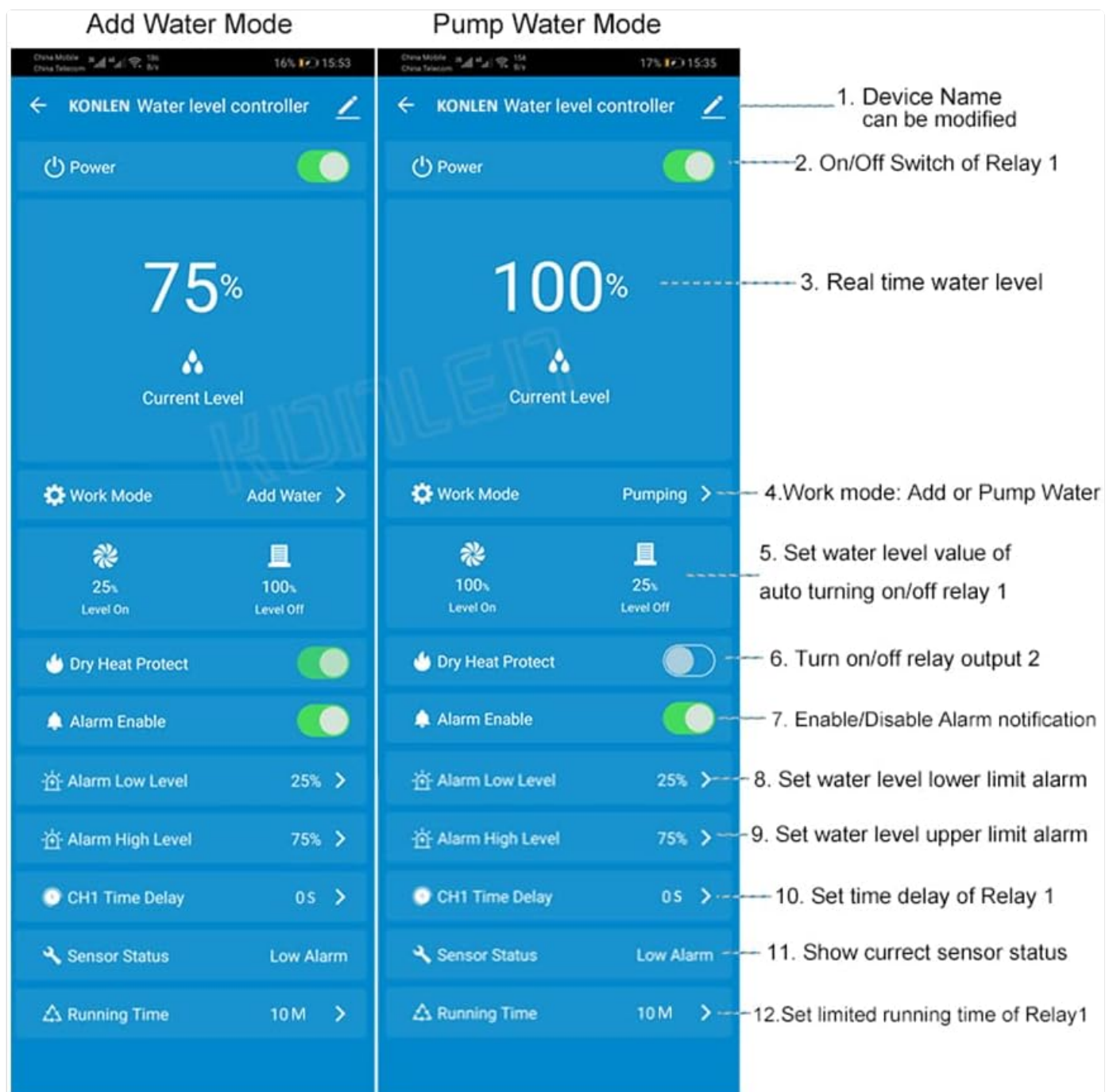
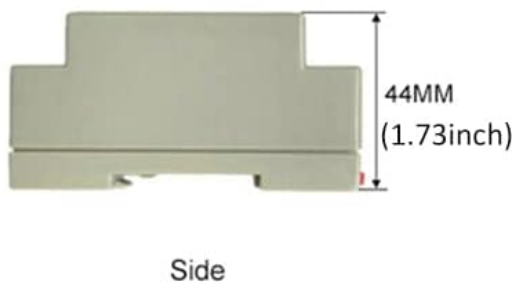
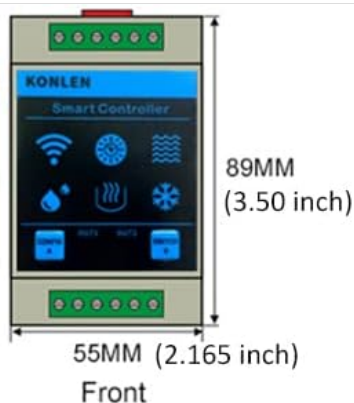


Image: Visual representation of 'Add water' and 'Pump water' modes and their operational logic.

3. Alarm Notifications

You can enable alarm notifications for both upper and lower water level limits. These alerts will be pushed directly to your smartphone, ensuring you are immediately aware of any critical changes in water level.



White cable: 3.5 meters (appr 11.48ft)

Red cable: 3.1 meters (appr 10.17ft)

Yellow cable: 2.3 meters (appr 7.54ft)

Green cable: 1.1 meters (appr 3.60ft)

Blue cable: 1 meter (appr 3.28ft)

Cable length: can be extended to be 30 meters (appr 100ft) Max.



Powered by DC12V adapter
US/EU/UK/AU power plug optional

Default: send US plug to US address

Image: Examples of upper and lower water level alarm notifications within the app.

For a comprehensive demonstration of the Tuya Smart Life WiFi Water Level Controller, including its features and operation, please refer to the official product video:

Your browser does not support the video tag.

Video: Tuya Smart Life WIFI Water Level Controller KONLEN. This video showcases the controller's functionality, app integration, and real-time water level monitoring.

APPLICATIONS

The GONLEN water level controller is versatile and can be applied in various settings:

- **Storage Tanks:** Monitor and control water levels in large storage tanks.
- **Water Towers:** Maintain optimal water levels for consistent supply.
- **Boilers:** Ensure safe and efficient operation by managing water levels.
- **Breeding Irrigation:** Automate water supply for agricultural and aquaculture needs.
- **Swimming Pools:** Prevent overflow or low water levels.
- **Pump Water Systems:** Control pumps for various water transfer applications.

Application



Storage Tank



Pump Water



Breeding irrigation



Water Tank



Boiler



Water Tower

Image: Diverse applications of the water level controller in different environments.

TROUBLESHOOTING

If you encounter issues with your GONLEN Water Level Sensor, consider the following common troubleshooting steps:

- **No Power:** Ensure the DC12V power adapter is securely connected and receiving power. Check the power outlet.
- **WiFi Connection Issues:** Verify your WiFi network is active and the controller is within range. Restart your router and the controller. Ensure the app is updated to the latest version.
- **Inaccurate Water Level Readings:**
 - Check that all sensor probes are correctly installed and securely connected to the controller.
 - Ensure the metal part of the probes is not touching the PVC pipe or any other conductive material that could interfere with readings.
 - Inspect probes for any damage or corrosion that might affect their conductivity. Clean if necessary.

- **Pump/Heater Not Activating:**
 - Verify that the pump or heater is correctly wired to the appropriate relay output (Relay 1 for pump, Relay 2 for heater protection).
 - Check the settings in the mobile app to ensure the correct work mode ("Add water" or "Pump water") is selected and the water level thresholds are set appropriately.
 - Confirm that the pump/heater itself is functional by testing it independently.
- **No Alarm Notifications:** Check app notification settings on your smartphone and within the Tuya Smart Life app. Ensure "Alarm Enable" is toggled on in the app.

If problems persist, consult the manufacturer’s support resources or contact customer service.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your water level controller:

- **Clean Probes:** Periodically inspect and clean the sensor probes to prevent mineral buildup or corrosion, which can affect accuracy. Use a soft cloth and mild detergent if necessary.
- **Check Wiring:** Ensure all wiring connections remain secure and free from damage.
- **Software Updates:** Keep the Tuya Smart Life app updated to the latest version to benefit from new features and bug fixes.
- **Environmental Conditions:** Ensure the controller unit is installed in a dry, protected environment, away from direct sunlight, extreme temperatures, and excessive humidity.

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the documentation included with your product or visit the official GONLEN website. Keep your purchase receipt as proof of purchase for warranty claims.

© 2024 GONLEN. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question