

USER MANUAL



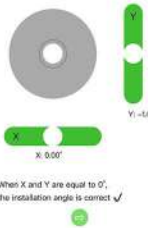
LPG-2412
Tank Level Monitor



c.Choose and click add



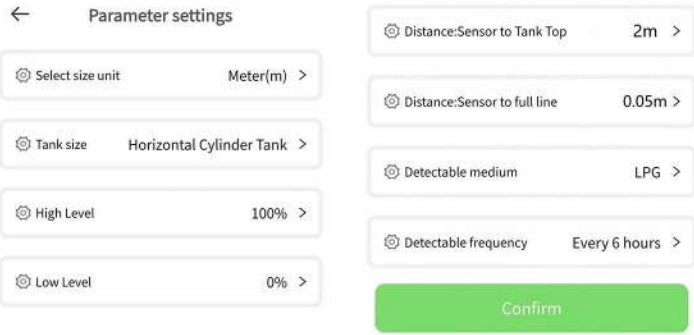
d.Added successfully



e.Check whether the sensor is installed at the correct angle according to the prompts of the level adjuster

4. SETTING

After successful configuration, enter the settings page



1. OVERVIEW

Thank you for choosing the Bottom-Mounted Ultrasonic Level Sensor. This sensor allows non-contact liquid level measurement without the need to open the tank or expose the liquid. It is installed at the bottom of the container and emits ultrasonic pulses upward. These pulses travel through the liquid medium, reflect off the surface, and return to the sensor's receiver. By calculating the time it takes for the echo to return, the sensor accurately determines the liquid level.



- ◆ Can be used for various liquids, since the ultrasonic sensor does not result in direct liquid contact
- ◆ Detection Range: 5cm to 2m
- ◆ High and Low liquid alarm function
- ◆ Ideal for LPG/water/oil tanks
- ◆ Button battery lasts at least 1 year.

1) Select size unit

It comes in four size units, please choose the one you need.



2) Set tank size

It has 7 tank types. Select the type of tank you are using and set the tank size, the system calculates the **real-time volume** based on these values and the depth of the water.



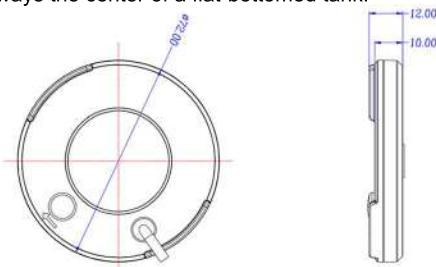
Note 1: The icon will change to a gas tank only if you select **Tank size** as **Vertical Cylinder Tank** and **Detectable medium** as **LPG (Step 7)**.



Note 2: The icon will change to an auminum tank if you select **Tank size** as **Vertical Cylinder Tank** and **Detectable medium** as **Oil or Water (Step 7)**.

2. INSTALLATION TIPS

The sensor has a diameter of 72mm and a built-in magnet that can be attached to the bottom of the water tank. To get the most accurate readings, the best position is always the center of a flat-bottomed tank.



2.1) Make sure the tank can absorb the magnet and the bottom installation position is flat without curvature and the tank is free of suspended matter and sediment.



2.2) Clean the tank bottom to ensure the surface is smooth and flat.



2.3) Take out the glue and apply it on the black sonar rubber circle. (100% coverage)



2.4) Immediately attach the sensor to the tank bottom.

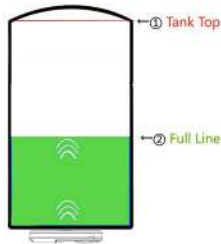


Note 3: The icon will change to a horizontal tank if you select **Tank size** as **the other 6 tank size types**.

- 3) Set Max for full level alarm
- 4) Set Min for low level alarm
- 5) Set the distance from the sensor to the full line(②)
- 6) Set the distance to Tank Top (①)

Detected Level / ② = level ratio

Note: The setting value - ② cannot be greater than ①, and please follow the above steps in the manual to save the setting value.



7) Set detection medium



Note: Different detection medium have different algorithms. Please select the medium type according to the actual detection medium.

3. CONNECTION

3.1) Download and Open the"Tank IoT"App available from Apple and Google Play App stores.



3.2) Turn on the Bluetooth on the mobile phone and open the Tank IOT App

3.3) Bluetooth Connection:

When adding a device, ensure the sensor is close to your phone. After setup, you only need to be within Bluetooth range when you want to view or update data. If your phone cannot find the device or fails to connect, clear the Bluetooth configuration and repeat the steps to add the sensor, or bring the sensor close to your phone and try again.



a.Go to the home page and click "+" to add device



b.Click "Bluetooth Devices" to search for devices

8) Set detection frequency



After configuration, the level data in the app will update at the selected detection frequency. Note:This setting determines the battery life.

9) Confirm

After setting the data, click confirm, It won't save data if not confirmed.



10) Alarm Notification Settings



a.Go back to the homepage and click on the icon in the upper right corner

b.Click Setting Email

c. Enter your notification email address