SmarLevel 200-URF

Manual V1.0

1.Defination

WiFi: Between Gateway and router(max 50m no obstacle)

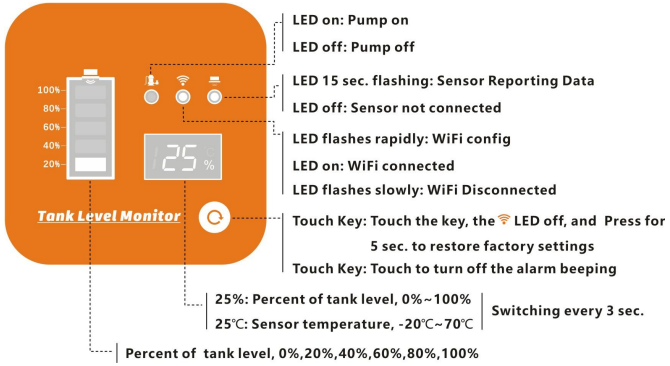
RF433MHz: Between sensor and Gateway (max 300m no obstacle)

Gateway:

Network Mode: 2.4G WiFi + RF433 MHz

Gateway Power Input: DC 5V @ 1A

Power Interface: Type-C (0.8m Cable)



Sensor:

Adaptor: AC 110V~240V

Sensor Power Input: ≤100mA @ 5V DC

Network Mode: RF433MHz

Level Range: 0.1m～4m

Accuracy: ± 0.02m

Operation Temperature: -20℃ ~ 70℃

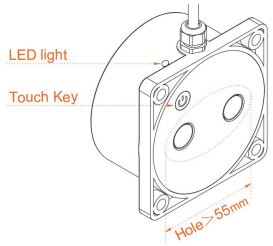
Protection: IP65

Touch Key ( ): Invalid key

LED light: RF status

Led 15 sec. flashing: Sensor Reporting Data

Led off: Sensor Not Reporting



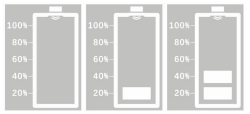
2.Display Instructions

☑ Sensor is not connected to Gateway

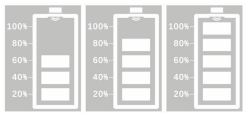
☑ Sensor temperature -20℃(≤-10℃)

☑ Sensor temperature -8℃ (-9℃...70℃)

☑ Percent of tank level, 0%~100%



☑ Percent of tank level: 0%, 20%, 40%



☑ Percent of tank level: 60%, 80%, 100%

3.Connection

1. Power on the AC/DC ADAPTOR first, and then power on the sensor.
2. Power on the gateway with a 5V/1A adapter.
3. Scan code to download “Smarwish APP" on mobile device.

4.Network Reset

Press and hold the gateway touch key ( ) for 5s, the led light ( ) flashes rapidly, then release the button, the network reset, the device connect to the network automatically.

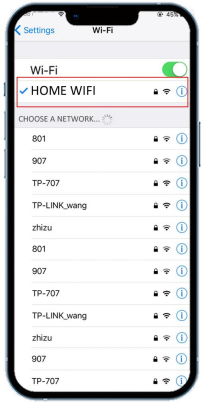
5.Connecting gateway to APP

Turn on the WiFi and Bluetooth of your phone, enter the app and add device.

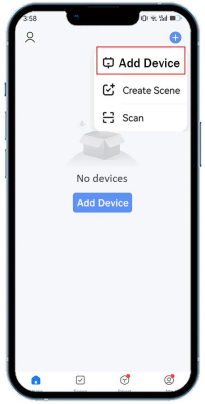
***Note:**

1. WiFi frequency can only be 2.4GHz, not 5GHz;

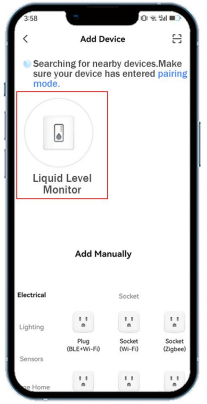
2.When adding a device, make sure that the gateway and the phone are connected to the same WiFi. After the setting is complete, the indicator must work under steady light. If the phone cannot find the device or fails to connect to the device, hold down the button for 5s until the indicator flashes to add the device again.



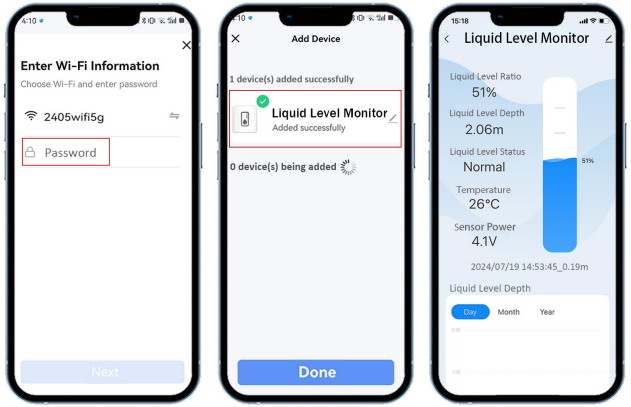
01-Turn on mobile WiFi & Bluetooth



02-Add device



03-Connect Level Monitor



04-Enter WiFi password

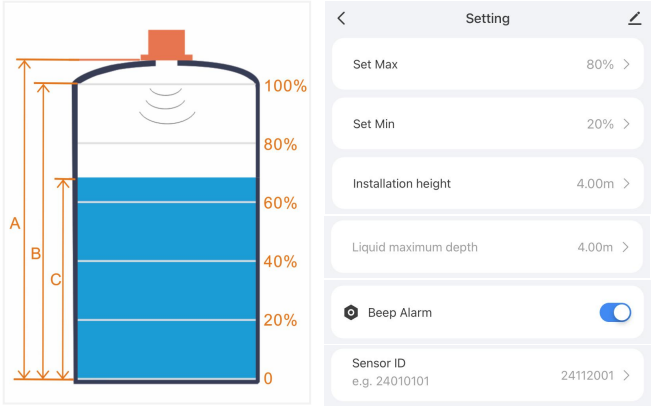
05-Click on the Level Monitor

06-Enter the Level interface

4.Setting

1. **Installation height:** Set the distance from sensor to tank bottom **(A);**
2. **Liquid maximum depth:** Maximum height of liquid in tank **(B)**;
3. **Set Max:** Set Max for high level alarm **(Actual liquid level value C)**;
4. **Set Min:** Set Min for low level alarm;
5. **Sensor ID:** Gateway link sensor's ID, default is linked;

   To re-link another sensor, write the ID of the new sensor;
6. **Beep Alarm:** Turn on/off the device alarm sound.



e.g.

Installation height, A=4m; Liquid maximum depth, B=3m;

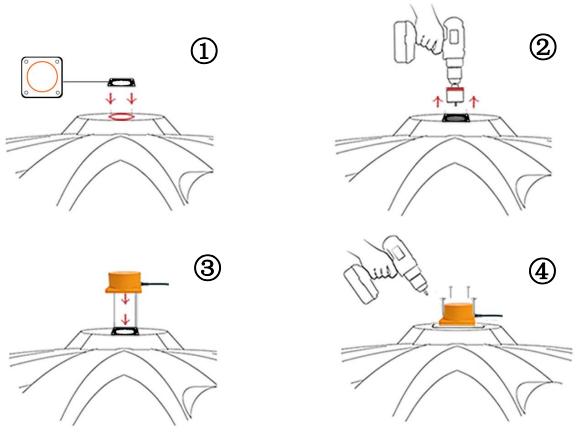
Actual liquid level value, C=2m; Set Max=60%, Set Min=20%,

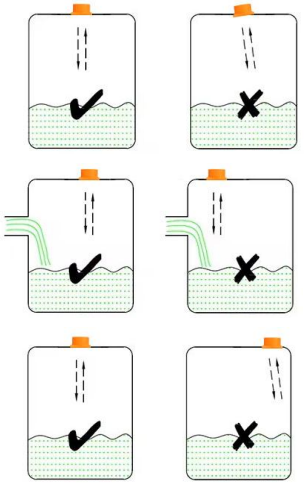
Level Status: **Full alarm** (C/B*100%=2/3*100%=67%）

5.Installation

1. Remove the release paper from the gasket, and attach the gasket to the center of the tank where the hole will be drilled.
2. Drill a hole right in the middle of the tank with a diameter of >55mm;
3. Place the sensor over the gasket, Keeping it aligned with the screw holes. unobstructed;
4. Fasten the sensor with a self-tapping screw.

***Note:** If the mounting surface is curved, it is sufficient to fix the sensor with screws just, prevent the sensor from being stressed; when the data is abnormal, the screws must be loosened.



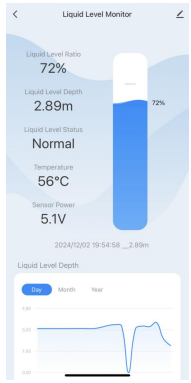


☑ Hold the sensor perpendicular to the liquid

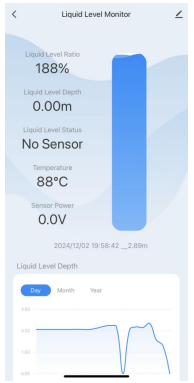
☑ Install the sensor away from the water inlet to avoid pseudo-echo

☑ The sensor installation cannot be close to the bulkhead, otherwise it will cause a strong pseudo-echo

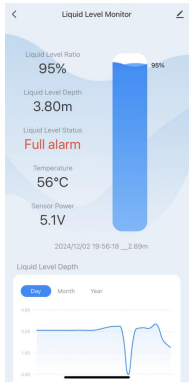
6.APP Interface



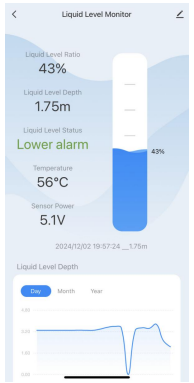
Normal



No Sensor



Full Alarm



Low Alarm

The ultimate smart level monitoring solution from Smarwish, combining advanced ultrasonic and RF technology. With Wi-Fi connectivity, it ensures precise, real-time data for seamless control and automation in your smart systems. For more info, please contact us: info@smarwish.com