

User Manual



1. OVERVIEW

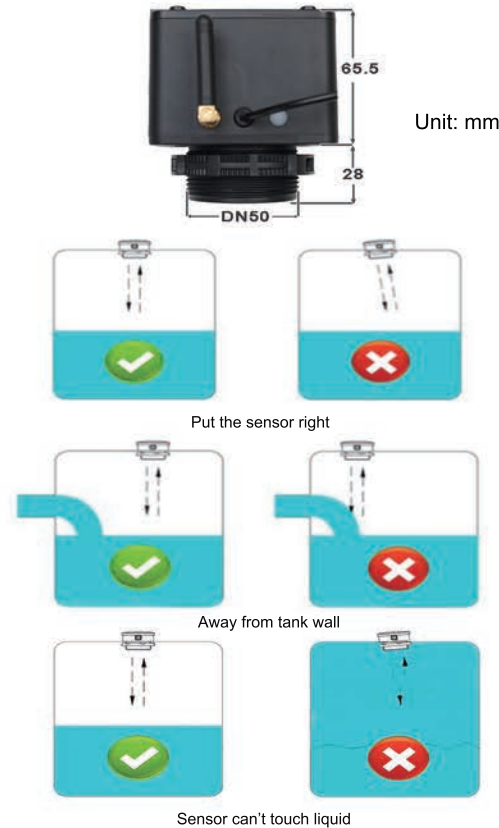
Thank you for purchasing the Solar-Powered Wireless Ultrasonic Liquid Level Sensor with Tuya App Display. This sensor features an integrated solar panel and built-in rechargeable battery, enabling continuous operation without external power supply. Its compact battery design ensures stable power management while keeping the overall device size small and easy to install.



- ◆ Solar-powered design with integrated rechargeable battery.
- ◆ Sleep mode, ensuring long-term outdoor use under limited sunlight.
- ◆ Suitable for various liquids, since the sensor does not touch the liquid.
- ◆ Detection range: 10 cm to 300 cm, suitable for tall tanks.
- ◆ High and low level alarm function.
- ◆ Ideal for water, oil, and similar liquid tanks.
- ◆ One App can monitor multiple sensors simultaneously.
- ◆ Each sensor monitors one tank.

2. MOUNT THE SENSOR ON THE TANK

Install the sensor at the center of the tank top. Do not install the sensor above a liquid inlet, as turbulence may affect measurement accuracy. Refer to the illustrations below for the recommended installation position. The required mounting hole diameter is DN50 (60.3 mm).



3. CONNECTION

1) Download the "Tuya Smart" or "Smart Life" App.

Scan the QR code below or search in the App Store / Google Play.



2) LED Indicator & Button Function Description

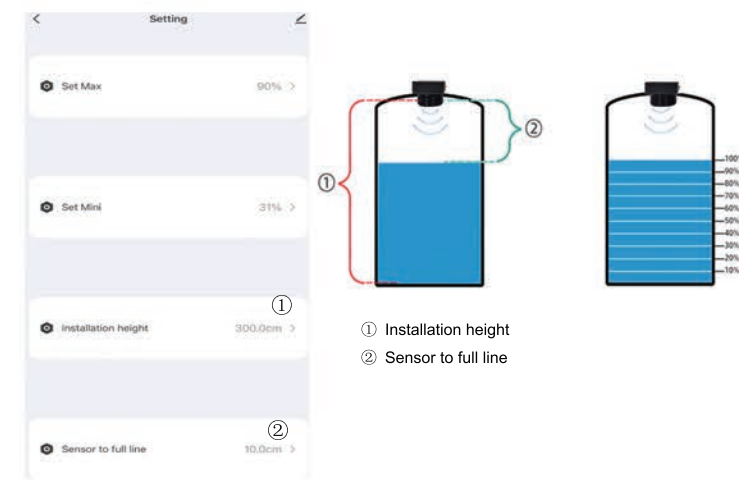
LED Indicator Status		
Indicator	Status	Meaning
Red	On	Device awake / working
Green	Flashing	Sensor data collected
Blue	Flashing	Pairing mode
Blue	On	WiFi connected
Blue	Off	Pairing failed
Button Operations		
Operation	Action	Result
Short press	Wake up device	Red LED on
Long press 3s	Enter pairing mode	Blue LED flashing + beep
Long press 10s	Power off	Device shutdown

3) Add device



When adding the device, ensure that the sensor and your mobile phone are connected to the same Wi-Fi network. After configuration, the sensor must operate under Wi-Fi. If the mobile phone cannot find the device or pairing fails, double-press the device button to enter pairing mode again, or place the sensor closer to the router and try again.

4. SETTING



1) Set Installation height ①

It is distance from sensor to tank bottom.

Note: The installation height may differ from the actual tank height, as the sensor can be mounted above the tank top. The maximum installation height is 3 meters. If the installation height exceeds 3 meters, this sensor is not suitable.

2) Set sensor to liquid full line ②

It is the distance from the sensor to the maximum liquid level.

Note: The ultrasonic blind zone is 10cm. It should not be smaller than 10cm.

3) Set Max for full level alarm

4) Set Min for low level alarm

5) Sleep Mode Description

The device enters sleep mode automatically to save power. After first-time setup, the device operates for 1 minute before entering sleep mode.

Short press the button to wake the device.

Wake up device → Works 20s when Wifi is connected / Sleeps in 2min if not connected

The device wakes automatically every 10 minutes to check liquid level changes.

If level change is >50 mm, the device returns to sleep after 20 seconds.

If level change is ≤50 mm, no data is uploaded and device returns to sleep mode.

6) Solar Panel & Battery

Battery capacity: 15,600 mAh (6 lithium cells)

Solar charging time: Depends on sunlight intensity and installation environment

DC 5V full charging time: Approx. 35 hours

Operating time after full charge: 1 year

Battery level can be viewed on the App.

7) Share to other device.

Click ③ to enter edit and choose Share Device

8) Set Alarm

Go back to the home page, click "Scenes".

