

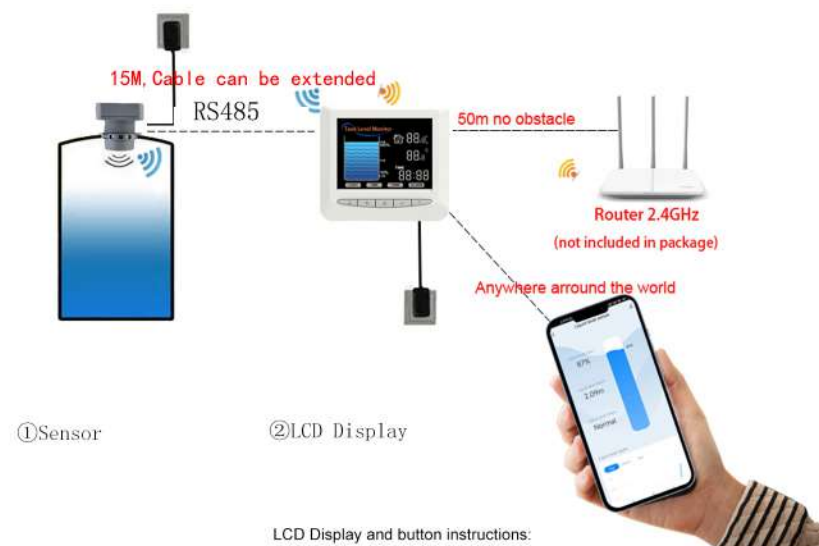
# USER MANUEL



TLC2404LS

Tank Level Monitor

## 1. DEFINITION



①Sensor

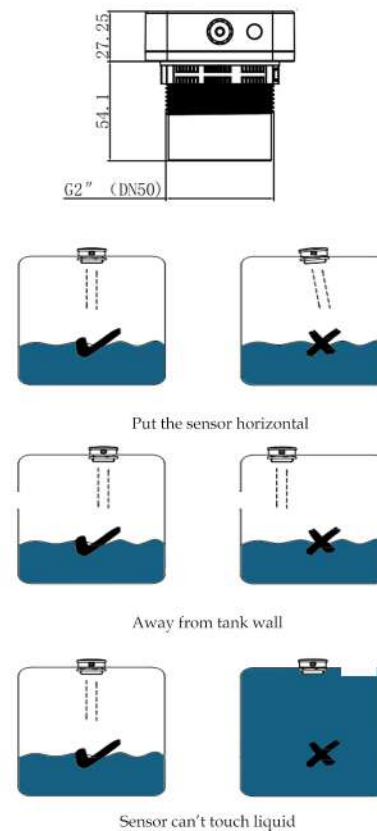
②LCD Display

LCD Display and button instructions:



## 2. MOUNT THE SENSOR ON THE TANK

The sensor should be in the middle of the tank and not on a liquid inlet. This can falsify the measurement result. Please refer to the following pictures for the best installation positions. The hole should be about 60 mm.



## 3. CONNECTION

3.1) Download "TUYA Smart APP" or "Smart Life APP" directly in the app store of mobile. Or scan the below code to download app. IOS and Android device are ok.



3.2) Turn on the Bluetooth & WIFI on the mobile phone and open the APP TUYA Smart or Smart Life.

Note: WIFI frequency can only be 2.4GHz, not 5GHz;

3.3) Press LCD key ⑤ for 2s, when LCD display shows "88 88" then search device on Tuya/Smart life APP and connect Wi- Fi to pair.

LCD display shows "88 88"

Other in sequence status as below:

00 00: Wi-Fi Quick connect distribution network configuration status

22 22: Wi-Fi Configured but not connected to the router

33 33: Wi-Fi Configured and connected to router

44 44: Wi-Fi connected to the cloud server

77 77: Unknown state

88 88: Pair mode

Search device on Tuya/Smart life APP



## 4.SETTING (PHONE APP SETTING/ LCD DISPLAY SETTING)

### 4.1 Phone APP setting

4.1.1) Set Max for high level alarm

4.1.2) Set Min for low level alarm

4.1.3) Set Installation height ①

It is distance from sensor to tank bottom.

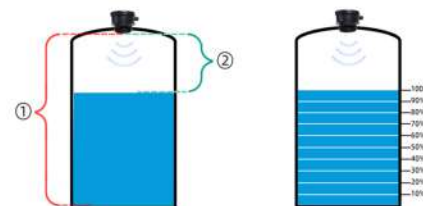
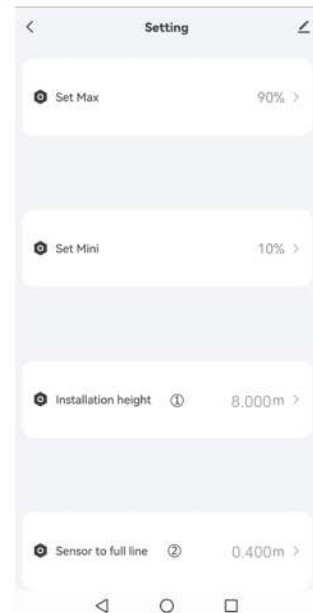
Note:The installation height is different with tank height because the sensor may be installed over the tank height.

The max installation height is 10 meters.If more than 10 meters,it is not suitable for this sensor.

4.1.4) Set sensor to liquid full line ②

It is distance from sensor to full line.

Note:The blind zone is 0.4meter.It can't be smaller than 0.4meter.



① Installation height  
② Sensor to full line

### 4.2) LCD dslpay setting:

Note:

Long press key ② for 2s to enter setting mode: Time/ Installation height/ Level alarm;

Long press key ② for 2s or no operation, it'll save current setting and automatically exits after 10s.

#### 4.2.1) Set time:

When the "TIME" letter appears below, the device enters the time setting:

press key ③ to switch the hour/minute setting

press key ④ to plus +

press key ⑤ to minus -

Note: After successfully connecting to the network the device will automatically calibrate local time

Then press key ② to go to the next step.

#### 4.2.2) Set installation height:

When the "TANK" letter appears below and the number flashing, the device enters "H" installation height setting.

press key ④ to plus +

press key ⑤ to minus -

Note: Max can set 10m

Then press key ③ to go to set "L" sensor to full line

When the "TANK" letter appears below and the number flashing, the device enters "L" sensor to full line setting

press key ④ to plus +

press key ⑤ to minus -

Note: Min can set 0.4m

Then press key ② to go to next step

#### 4.2.3) Set level alarm:

When the "ALARM" letter appears below and the number flashing, the device enters the alarm level setting: 'H' high level alarm percentage,

press key ④ to plus +

press key ⑤ to minus -

( Each grid is 10% )

Note: Max can set 90 on LCD display

Then press key ③ to go to set low level alarm.

When the "ALARM" letter appears below and the number flashing, the device enters the alarm level setting: 'L' low level alarm percentage

press key ④ to plus +

press key ⑤ to minus -

( Each grid is 10% )

Note: Min can set 10 on LCD display

\* If need set other numbers, please go set on APP. 58 (Pic 1) was set on APP

\* If need set >90% high level alarm/ <10% low level alarm, it need set on APP (>90% high level alarm will show "FU" on LCD display (Pic 2))



Pic 1

Pic2

## 5. KEY OPERATION

5.1) Buzzer alarm: When the actual water level height percentage is greater than the maximum setting value/less than the minimum setting value, the buzzer will "beep" alarm. When the water level returns to within the threshold value, the alarm will stop. Press any button to cancel the current alarm prompt, or press key ③ for 2 seconds to cancel/ enable the alarm.

5.2) When the LCD display "0.9m" flashes, it indicates that RS485 is not communicating

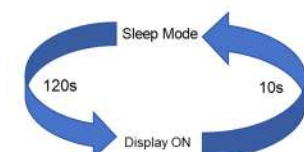
Note: "0.9m" can also be other values

5.3) Long press key ① to change display state switching: Always on/ Sleep mode

Shows "LIGHT"---Sleep mode

No "LIGHT"-- Always on

Note: In Sleep Mode, press key ① to restore the display, or the display will automatically light up after 120s, then it will enter sleep mode again after 10 seconds.



Note: 1.APP setting can only set above 4 kinds, more settings please operate on LCD display

2.Set on LCD display or APP will auto synchronous to the other side