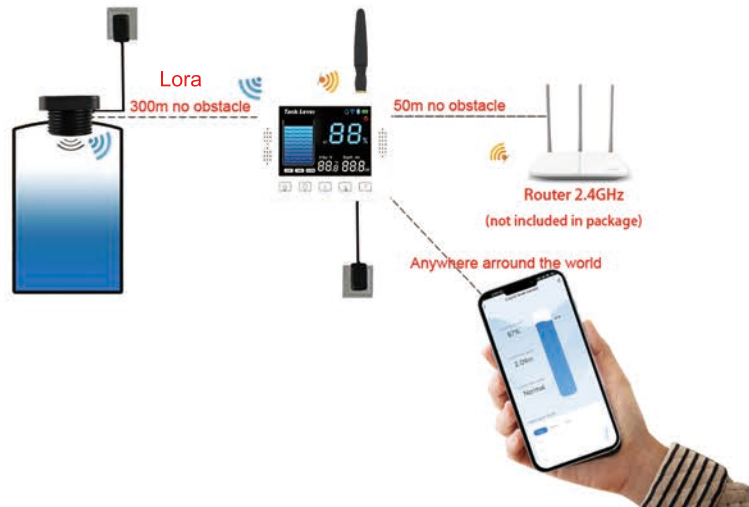


sisco USER MANUAL

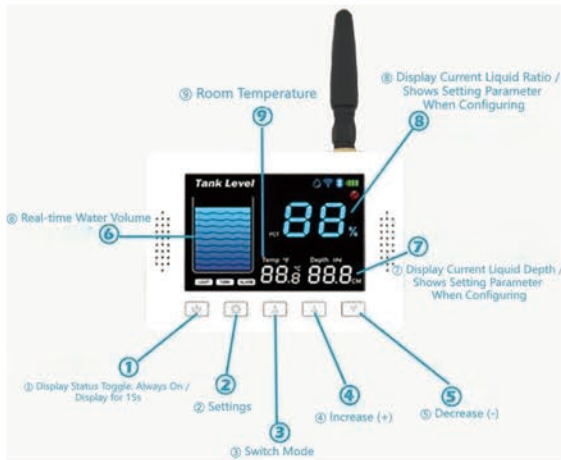


TLC2502 LS-WL-Lora Tank Level Monitor

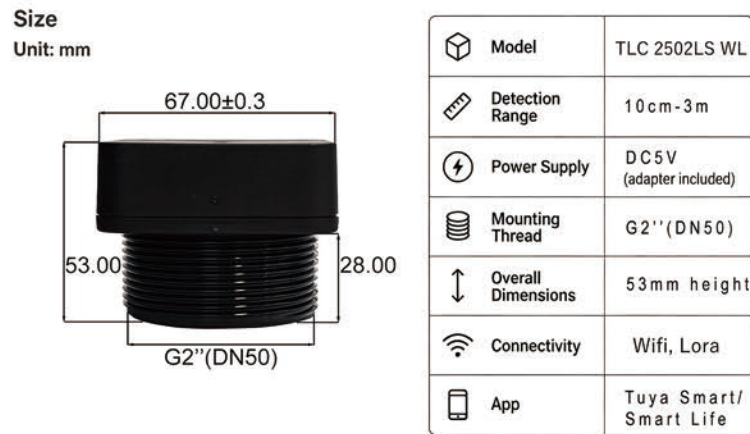
1. DEFINITION



LLCD Display and button instructions:



2. MOUNT THE SENSOR ON THE TANK



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) Enter Setup Mode

Press and hold ② Settings for 3 seconds to enter setup mode. The screen will display the tank icon, indicating the beginning of parameter configuration.



Search device on Tuya/Smart life APP



a. Click "Add Device" on the home page
b. Device Founded & Click "Add"
c. Enter your Wifi Information

4.SETTING (MOBILE PHONE APP SETTING & LCD DISPLAY SETTING)

4.1 Mobile 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.

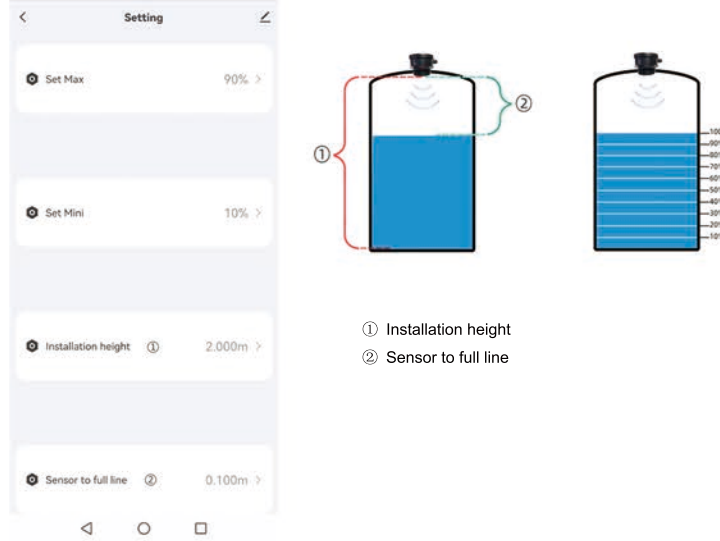
Note:The installation height is different with tank height because the sensor may be installed over the tank height.

The max installation height is 3 meters.If more than 3meters, it is not suitable for this sensor.

4.1.4) Set sensor to liquid full line ②

It is distance from sensor to full liquid level.

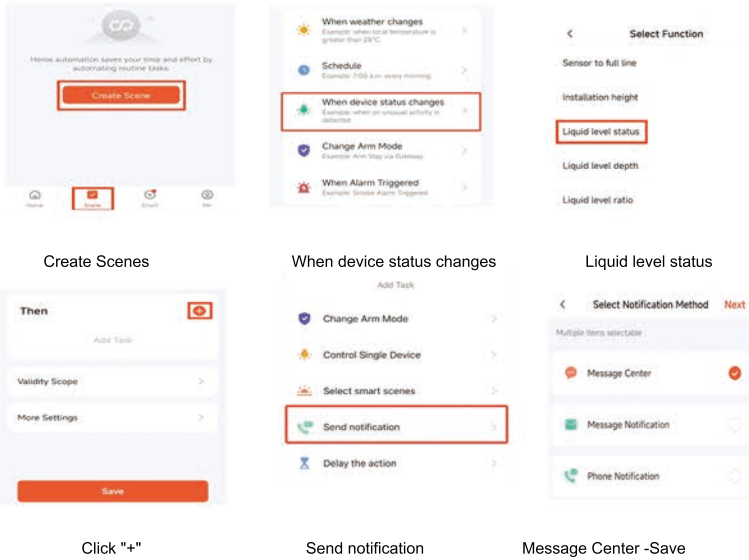
Note:The blind zone is 0.1meter. It can't be smaller than 0.1meter.



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

4.1.5) Set Alarm

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



- ◆Can be used for various liquids, since the ultrasonic sensor does not result in direct liquid contact
- ◆Detection Range: 10 cm to 3 m
- ◆High and Low Level alarm function
- ◆Multiple sensors monitor mutiple tanks at once from Tuya/Smart Life APP

4.2 LCD display setting:

4.2.1) Tank Height Setting

When the bottom tank icon appears, set the distance from the sensor to the tank bottom. Press ④ "+" or ⑤ "-" to adjust the value, and press ③ Switch Mode to confirm each digit.



4.2.2) Full Level Setting

When the top tank icon appears, set the distance from the sensor to the full liquid (or solid) level (Step 4.1.4). Press ④ "+" or ⑤ "-" to adjust the value, and press ② Settings to confirm each digit.



4.2.3) Water Level Settings

When the display shows "TANK":

Bottom icon → Set the distance from the sensor to the tank bottom (installation height).

Top icon → Set the distance from the sensor to the full level (safe distance).

Press ④ "+" or ⑤ "-" to adjust the value, and press ③ Switch Mode to confirm each digit.



Press ② to enter the next setting

4.2.4) Alarm Threshold Settings

When the display shows "ALARM":

Bottom icon → Set the low-level alarm percentage (e.g., 10%).

Top icon → Set the high-level alarm percentage (e.g., 90%).

Press ④ "+" or ⑤ "-" to adjust the value, and press ③ Switch Mode to confirm each digit.



Tip: Press ④ "+" or ⑤ "-" to set the threshold. Long press ④ "+" or ⑤ "-" for fast increase or decrease.
Press ③ Switch Mode to confirm each digit.
If the actual level exceeds the high threshold, "FU" will be displayed.

4.2.5) Save and Exit

After completing steps 4.2.1 - 4.2.4, long-press Button ② for 3 seconds, or wait for 10 seconds with no operation — the system will automatically save and exit setup mode.

5. KEY OPERATION

5.1) LoRa icon (blue water drop): LoRa communication

is successful; the sensor's blue LED starts flashing.



5.2) Wi-Fi Connection (if applicable)

Enter pairing mode: Long-press Button ⑤ for 3 seconds while powered on.

The Wi-Fi icon appears on the screen.

Icon indications:
Flashing: Device is searching for a network or in pairing mode.
Solid: Network connected successfully.
Off: Pairing failed or the connection was lost.
Exit pairing: Short-press ⑤ or wait for timeout; settings will be retained.



Tip: Each button press gives a short beep. For a long-press function, hold for 3 seconds until a second beep confirms the action.

5.3) Display Settings

Brightness / Screen Mode:

When "LIGHT" appears on the display, press and hold Button ① for 3 seconds to switch between two screen modes:

Always On Mode – display stays on continuously.
Auto-Off Mode – display turns off automatically after 15 seconds.
Adjusting brightness: Press ④ "+" or ⑤ "-" to change the brightness level.
Auto-save: If no key is pressed for 10 seconds, the system saves automatically and exits setup.



5.4) Buzzer Alarm

Trigger condition: The buzzer sounds when the measured level exceeds the high-level threshold or drops below the low-level threshold.

Auto-stop: The alarm stops automatically once the level returns within the preset range.

Silence current alarm: Press any key once to mute the current alarm.

Enable / disable buzzer: Long-press Button ③ for 3 seconds to toggle the buzzer on or off. A confirmation beep will sound each time the setting changes.

5.5) Battery-powered Mode

◆Install the battery before use. The battery level is displayed only when the battery is installed.

◆When the DC power adapter is disconnected, the device automatically switches to Low Power Mode.

◆The device operates for approx. 20 seconds before entering low power mode.

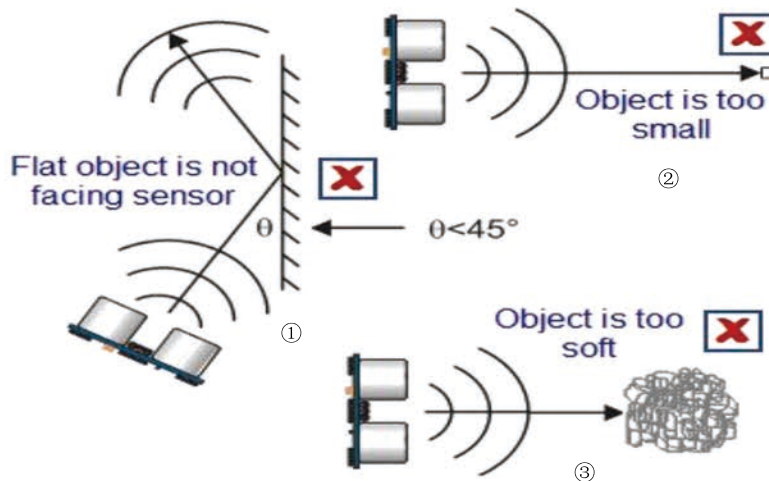
◆Press the button to wake up the device.

◆The Wi-Fi module is disabled in Battery-powered Mode.

6. ATTENTION IN INSTALLATION

There will be test error in the following 3 cases:

- * Avoid flat object is not facing sensor ①
- * Avoid object is too small ②
- * Avoid object is too soft ③



4.1.6) Multi-tank monitoring For Water, Oil & Fuel Tanks

