

USER MANUAL

Smart TLC-2101



1. OVERVIEW

The ultrasonic level sensor Smart TLC-2101 enables non-contact measurement of liquid levels. It is suitable for all kinds of level measurements with ultrasound and can control and supervise levels in wells and tanks - including aggressive and polluted media. Adapt to strong acid, alkali, salt, high temperature conditions. Can monitor the liquid level real-time. Smart failure protection and diagnostic echo are easy to troubleshoot. Wireless and Cables can choose.

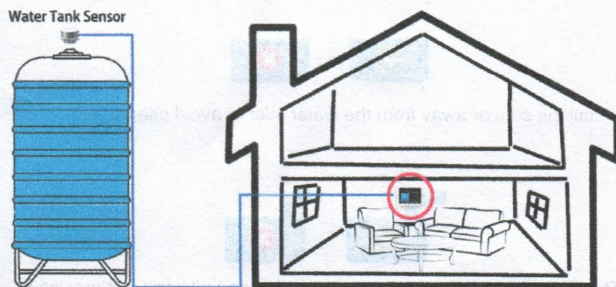
2. FEATURES

- ◆ Non-contact measurement method
- ◆ Compact small size, light weight, easy to carry
- ◆ High performance, and outstanding operation capabilities
- ◆ Sophisticated design
- ◆ Easy and quick to install and put into service
- ◆ The standard data interface is RS485 or UART
- ◆ No mechanical moving parts, high reliability
- ◆ Waterproof grade: IP65
- ◆ Comply with RoHS requirements

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3. APPLICATION FIELD

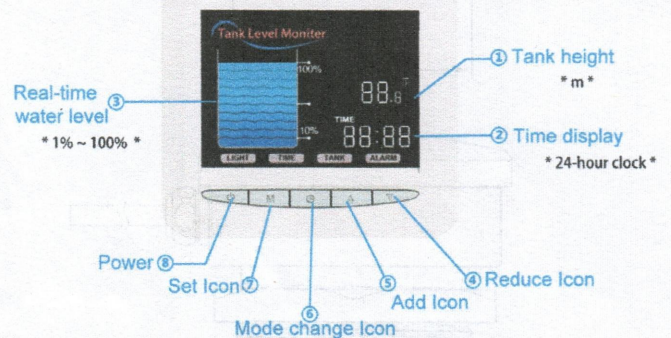
Applied for there are long distance between the tank and the monitor. Like detecting the levels of water tower on the roof and checking the monitor at home or detecting the levels of outdoor water tower/fuel tank and monitoring in the office.



4. LCD DISPLAY

The following illustration shows a normal LCD display for description purposes only

- | | |
|-------------------------|--------------------|
| ① Tank height | ② Time display |
| ③ Real-time water level | ④ Reduce Icon |
| ⑤ Add Icon | ⑥ Mode change Icon |
| ⑦ Set Icon | ⑧ Power |



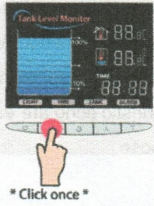
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5. INITIALIZATION

1. Press button ⑦ Set (M) for 3 seconds to start initialization.

It will quit after 10 seconds without operation.

2. Click button ⑦ Set (M) to change setting 1) Time 2) Tank 3) Alarm

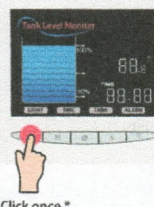


* Click once *

Notice: LCD display will Screen off after 10 seconds.

Click button ⑧ Power (⏻) to light the screen.

Press it for 3 seconds can keep the screen light always



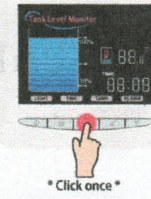
* Click once *

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● Time: Click button ⑥ Mode Change (⌚) to change Hour/minute.

Button ⑤ Add (▲) / Button ④ Reduce (▼).

Click button ⑦ Set (M) to next step.



* Click once *

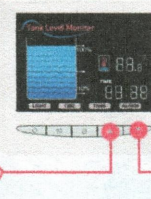
● Tank: Click button ⑥ Mode Change (⌚) to set max/min tank level

Click (▲) to add, click (▼) to reduce;

Click set Icon ⑧ (M) to enter next step;

● Alarm: Click (▼) to add, click (▲) to reduce;

Click set Icon ⑧ (M) to enter next step;



Click once to add 0.1M

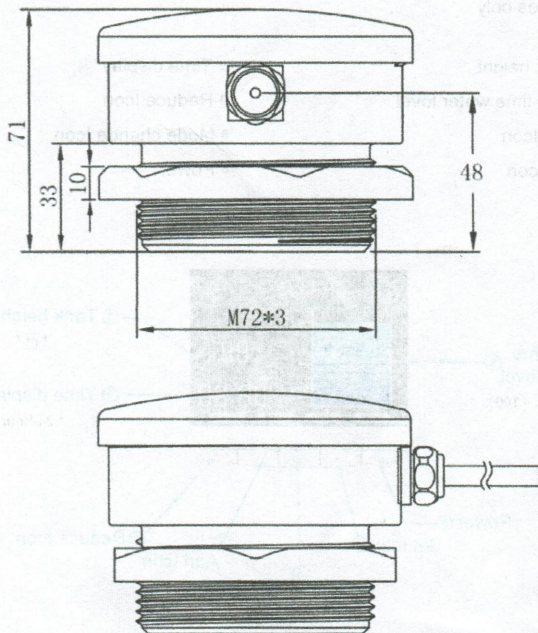
Click once to decrease 0.1M

3. Press button ⑦ Set (M) for 3 seconds to quit initialization.

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7. DIMENSIONS

Sensor size



6. PARAMETER:

Measuring distance: 5cm-250cm

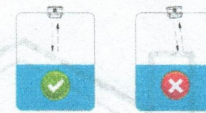
Cable Length: Optional

Power: Power Adapter (Battery is optional)

Alarm: Screen Flashing and Buzzer beep

8. INSTALLATION

1. Hold the sensor perpendicular to the liquid



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



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



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