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Fafeicy TS-FT001

Fafeicy Ultrasonic Water Tank Liquid Level Meter with High Low Alarm (Model TS-FT001)

Instruction Manual

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Fafeicy Ultrasonic Water Tank Liquid Level Meter, Model TS-FT001. This device is designed for smart monitoring of liquid levels in tanks, featuring high and low alarm functions and temperature monitoring capabilities. Please read this manual thoroughly before use to ensure proper functionality and safety.

2. Safety Information

- Ensure all power connections are made correctly and safely.
- The pump control box and receiver are **not waterproof**. Install them in a dry environment, away from direct moisture.
- Only the transmitter unit is waterproof and designed for outdoor or tank-top installation.
- Do not attempt to disassemble or repair the device yourself. Contact qualified personnel for service.
- Keep the device away from children.

3. Package Contents

Verify that all the following items are included in your package:

- 1 x Transmitter Unit
- 1 x Receiver Unit
- 1 x Pump Control Box
- 1 x Power Cord (for Receiver)
- 3 x Mounting Screws
- 1 x User Manual (this document)

4. Product Overview

The Fafeicy TS-FT001 system consists of three main components:

4.1. System Components



Figure 4.1: Overview of the Fafeicy TS-FT001 system components. From left to right: the Transmitter unit with solar panel, the Receiver unit with display and control buttons, and the smaller Pump Control Box.

- **Transmitter Unit:** This unit is placed on top of the liquid tank. It uses ultrasonic technology to measure the liquid level and includes a solar panel for automatic charging of its built-in Ni-MH batteries. It transmits data wirelessly to the Receiver.
- **Receiver Unit:** This unit displays the liquid level, temperature, and alarm status. It features control buttons for setting parameters and can be powered by 3 AAA batteries or a DC 5V power cord.
- **Pump Control Box:** This unit connects to the main power supply (AC110-230V) and can be used to control a pump based on the liquid level readings from the system.

4.2. Transmitter Details



Figure 4.2: Detailed view of the Transmitter unit, showing the integrated solar panel on top for continuous power.

The transmitter is designed for outdoor use and is waterproof. Its solar panel ensures that the internal rechargeable batteries remain charged, providing continuous operation without manual battery replacement.

4.3. Receiver Details





Figure 4.3: Close-up of the Receiver unit, highlighting the power button. The receiver features a clear display and intuitive buttons for user interaction.

The receiver unit provides a digital display for real-time liquid level and temperature readings. It has buttons for 'SET', 'AL' (Alarm), '+', '-', and 'TANK' for configuration and navigation. It can be powered by 3 AAA batteries or a DC 5V power adapter.

5. Specifications

Feature	Specification
Model	TS-FT001
Material	ABS
Receiver Power Supply	3 x AAA batteries (single 300mAh built-in) or DC 5V power cord
Transmitter Power Supply	6 x AAA Ni-MH batteries (single 150mAh built-in) with built-in solar panel for automatic charging
Pump Control Box Power Supply	AC110-230V
Transmission Frequency	433Hz
Transmission Distance	100m in open area, 30m effective range
Item Weight	1.65 pounds (approx. 0.75 kg)
Product Dimensions	7.87 x 5.91 x 4.72 inches (approx. 20 x 15 x 12 cm)

6. Setup

6.1. Transmitter Installation

1. **Choose Location:** Select a suitable location on top of your liquid tank where the transmitter can be securely mounted and its solar panel can receive adequate sunlight.
2. **Mounting:** Use the provided screws to securely fasten the transmitter unit to the tank. Ensure the ultrasonic sensor part faces downwards into the tank, and there are no obstructions between the sensor and the liquid surface.
3. **Orientation:** Position the solar panel to maximize exposure to direct sunlight for optimal charging.

6.2. Receiver Setup

1. **Power Supply:** Insert 3 AAA batteries into the receiver's battery compartment, or connect the provided DC 5V power cord to the receiver and a suitable power outlet.
2. **Placement:** Place the receiver in a dry indoor location, within the effective transmission range (up to 30m) of the transmitter. Avoid placing it near large metal objects or other sources of interference.
3. **Power On:** Press the power button on the receiver to turn it on.

6.3. Pump Control Box Connection

1. **Power:** Connect the pump control box to an AC110-230V power source.
2. **Pump Connection:** Connect your pump (not included) to the appropriate terminals on the pump control box. Refer to the wiring diagram on the control box for correct connections.
3. **Placement:** Ensure the pump control box is installed in a dry, protected environment as it is not waterproof.

6.4. Initial Synchronization

Once all units are powered on and placed, the receiver should automatically detect and synchronize with the transmitter. The display will show the current liquid level and temperature. If no data is displayed, ensure the transmitter is powered on and within range, then try restarting the receiver.

7. Operating Instructions

7.1. Reading the Display

The receiver's display shows the current liquid level (often as a percentage or a specific depth) and the temperature. Refer to the on-screen indicators for units and status.

7.2. Setting Alarms (High/Low)

1. Press the **AL** button to enter alarm setting mode.
2. Use the **+** and **-** buttons to adjust the desired high or low liquid level alarm thresholds.
3. Press **SET** to confirm each setting and move to the next alarm parameter (e.g., High Level, Low Level).
4. Once all alarm settings are configured, press **SET** again or wait for the display to return to normal operation.
5. When the liquid level reaches an alarm threshold, the receiver will emit an audible alarm and/or display a visual alert.

7.3. Pump Control

The pump control box can be configured to automatically activate or deactivate a connected pump based on the liquid level readings from the system. This functionality is typically linked to the high and low alarm settings. Consult the specific instructions provided with the pump control box for detailed configuration of pump activation thresholds.

7.4. Temperature Monitoring

The system also monitors the temperature of the liquid. This reading is displayed on the receiver unit alongside the liquid level. No specific user configuration is typically required for temperature monitoring.

8. Maintenance

- **Transmitter:** Periodically clean the solar panel on the transmitter unit to ensure efficient charging. Use a soft, damp cloth. Do not use abrasive cleaners.
- **Receiver:** Keep the receiver unit clean and dry. Wipe with a soft, dry cloth.
- **Battery Replacement (Receiver):** If the receiver is powered by AAA batteries and the display becomes dim or unresponsive, replace the batteries with new ones.
- **Transmitter Batteries:** The transmitter's Ni-MH batteries are rechargeable via the solar panel. Under normal conditions, they should not require replacement. If the transmitter consistently fails to send data, ensure it receives adequate sunlight.

9. Troubleshooting

Problem	Possible Cause	Solution
No display on Receiver	No power; batteries depleted or power cord disconnected.	Check AAA batteries or DC 5V power connection. Replace batteries if necessary.
No liquid level reading	Transmitter not powered; out of range; obstruction; synchronization issue.	Ensure transmitter solar panel receives sunlight. Move receiver closer to transmitter. Check for obstructions in the tank. Restart both units.

Problem	Possible Cause	Solution
Inaccurate readings	Transmitter not properly positioned; sensor dirty; interference.	Verify transmitter is mounted correctly and sensor is clear. Check for sources of interference.
Alarms not working	Alarm thresholds not set correctly.	Review and adjust alarm settings using the **AL** and **SET** buttons.
Pump not activating/deactivating	Pump control box not connected; settings incorrect; pump malfunction.	Check pump control box power and pump connections. Verify pump control settings. Test pump independently.

10. Warranty and Support

For warranty information or technical support, please refer to the documentation provided at the time of purchase or contact Fafeicy customer service through their official channels. Keep your purchase receipt as proof of purchase.

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