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## CHBMSS FT-0024

# CHBMSS FT-0024 Solar Water Tank Level Meter

## USER MANUAL

### Introduction

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This manual provides essential information for the proper installation, operation, and maintenance of your CHBMSS FT-0024 Solar Water Tank Level Meter. This device offers non-contact measurement of liquid depth, temperature, and current time, featuring an LCD display with high/low indicator and alarm functions. Please read this manual thoroughly before using the product to ensure safe and efficient operation.

### Safety Information

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- Ensure the device is installed in a stable location, away from direct impact or excessive vibration.
- Do not attempt to open or repair the device yourself. Refer all servicing to qualified personnel.
- Keep the device away from extreme temperatures and corrosive environments.
- This device is designed for non-contact liquid level measurement. Do not immerse the sensor in liquid.

### Product Overview

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The CHBMSS FT-0024 Solar Water Tank Level Meter consists of a main display unit and a non-contact ultrasonic sensor. The display unit shows liquid depth, temperature, and current time, along with high/low level indicators and alarm status. The sensor transmits ultrasonic waves to measure the liquid level without direct contact.



Figure 1: CHBMSS FT-0024 Solar Water Tank Level Meter. This image shows the main display unit with an LCD screen and the separate ultrasonic sensor, highlighting the components for non-contact liquid level measurement.

## Setup

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- Sensor Placement:** Install the ultrasonic sensor on the peak of the container or tank where liquid level is to be measured. Ensure there are no obstructions between the sensor and the liquid surface. The non-contact design allows for installation without modifying existing equipment.
- Display Unit Placement:** Position the main display unit in a convenient location where the LCD screen is easily visible. Ensure it is protected from direct weather exposure if installed outdoors.
- Power Connection:** The device is solar-powered. Ensure the solar panel (if integrated or external) receives adequate sunlight for continuous operation. No external batteries are required for the main unit's operation.
- Initial Calibration (if applicable):** Refer to specific on-screen prompts or a dedicated calibration section (if available in a more detailed manual) for initial setup of tank dimensions or reference points.

## Operating Instructions

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The FT-0024 provides real-time data on its LCD display.

- **Liquid Depth Display:** The primary reading shows the current liquid level in the tank. Units may be configurable (e.g., cm, inches).
- **Temperature Display:** The ambient or liquid temperature (depending on sensor placement) is shown.
- **Time Display:** The current time is displayed. Set the time using the control buttons (refer to specific button functions on the device).
- **High/Low Level Indicator:** Visual indicators on the display will alert you when the liquid level reaches pre-set high or low thresholds.
- **Alarm Function:** The device features an audible or visual alarm that activates when liquid levels exceed or fall below user-defined limits.
  - **Setting Alarms:** Use the control buttons (e.g., "SET", "UP", "DOWN") to navigate to the alarm settings menu. Adjust the high and low alarm points as required for your application.
  - **Disabling Alarms:** Alarms can typically be silenced or disabled through the settings menu.

## Maintenance

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- **Cleaning:** Periodically wipe the display unit and sensor with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Sensor Inspection:** Ensure the sensor's surface is free from dirt, dust, or debris that could obstruct ultrasonic wave transmission.
- **Environmental Protection:** The device's sturdy housing is designed to withstand dust and humidity. However, avoid exposing it to extreme weather conditions beyond its operational limits.
- **Solar Panel:** If applicable, keep the solar panel clean to ensure efficient charging.

## Troubleshooting

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Problem	Possible Cause	Solution
No display/Device not powering on	Insufficient solar charging; internal power issue.	Ensure solar panel is clean and receiving adequate sunlight. Allow time for charging. If problem persists, contact support.
Inaccurate liquid level readings	Sensor obstruction; incorrect calibration; sensor not properly aimed.	Check sensor for debris. Verify sensor is correctly positioned and aimed at the liquid surface. Re-calibrate if necessary.
Alarm not activating	Alarm settings incorrect; alarm disabled.	Review alarm settings in the menu. Ensure high/low thresholds are set appropriately and the alarm function is enabled.

## Specifications

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Feature	Detail
Model	FT-0024
Measurement Type	Non-contact ultrasonic liquid level

Feature	Detail
Display	LCD (Liquid Depth, Temperature, Time, High/Low Indicator, Alarm)
Power Source	Solar powered (No batteries required for main unit)
Item Weight	900 g
Product Dimensions	1 x 1 x 1 cm (Note: These dimensions seem generic, refer to product packaging for precise measurements)
Application	Water treatment, wastewater treatment, power generation, mining, general tank monitoring
Durability	Sturdy housing, resistant to dust and humidity

## Warranty and Support

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Warranty information for the CHBMSS FT-0024 Solar Water Tank Level Meter is typically provided with the product packaging or can be obtained from your point of purchase. For technical support, troubleshooting assistance beyond this manual, or warranty claims, please contact the manufacturer or your authorized dealer directly.

Manufacturer: CHBMSS