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› [Walfront SEAFRONT Ultrasonic Water Tank Depth Sensor with LED Temperature Display - Instruction Manual](#)

Walfront SEAFRONT

Walfront SEAFRONT Ultrasonic Water Tank Depth Sensor with LED Temperature Display

Model: SEAFRONT | Brand: Walfront

1. PRODUCT OVERVIEW

The Walfront SEAFRONT Ultrasonic Water Tank Depth Sensor is designed to monitor the liquid depth level in a tank and display it on a 10-element LCD bar graph. This device also records minimum and maximum liquid levels, supports high/low liquid level alarms, and provides an empty tank alert. It simultaneously displays both indoor and tank temperatures. The receiver unit is versatile, suitable for desktop placement or wall mounting.

Key Features:

- Monitors liquid depth level in tanks.
- Displays tank liquid level on a 10-element LCD bar graph.
- Records minimum and maximum tank liquid levels.
- Supports high/low liquid level alarms and liquid empty alerts.
- Displays indoor temperature and tank temperature simultaneously.
- Receiver can be placed on a desk or mounted on a wall.

2. PACKAGE CONTENTS

Before proceeding with installation, please ensure all components are present:

- 1 x Water Level Transmitter
- 1 x Indoor Receiver
- 2 x Screws

Note: Batteries are not included and must be purchased separately. The receiver requires 2 x 1.5V AA LR3 alkaline batteries, and the transmitter requires 6 x 1.5V AAA LR6 alkaline or lithium batteries.



Figure 2.1: Components of the Walfront Water Tank Depth Sensor, including the transmitter, receiver, and mounting screws.

3. SETUP AND INSTALLATION

3.1 Battery Installation

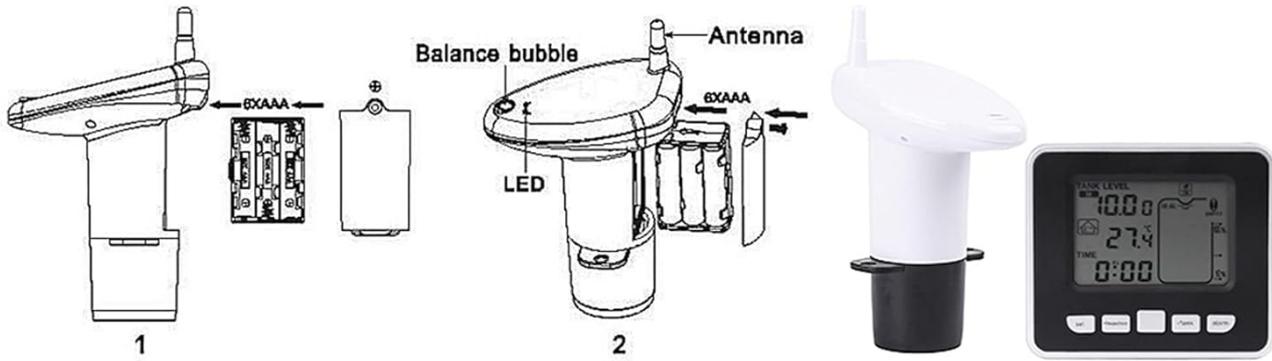
Install batteries into both the transmitter and receiver units. Ensure correct polarity.

Your browser does not support the video tag.

Video 3.1: This video demonstrates the process of installing batteries into both the transmitter and receiver units of the Walfront Water Tank Depth Sensor. It shows how to open the battery compartments and insert the batteries correctly.

3.2 Transmitter Installation

The transmitter should be installed at the top of your water tank. Ensure the sensor is positioned correctly to accurately measure the liquid level. Refer to the diagram for optimal placement and to avoid common installation errors.

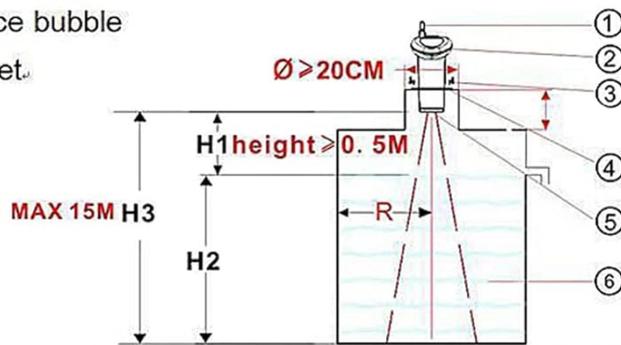


Set Up Sketch.

The following picture illustrates transmitter installation:

1. Antenna
2. Balance bubble
3. Screw
4. Bracket
5. Sensor
6. Tank

NO.	R(m)	H3(m)
1.	0.1.	$\leq 1.$
2.	0.2.	$\leq 3.$
3.	0.3.	$\leq 5.$
4.	0.5.	$\leq 10.$
5.	0.8.	$\leq 15.$



Examples of Wrong Installation.

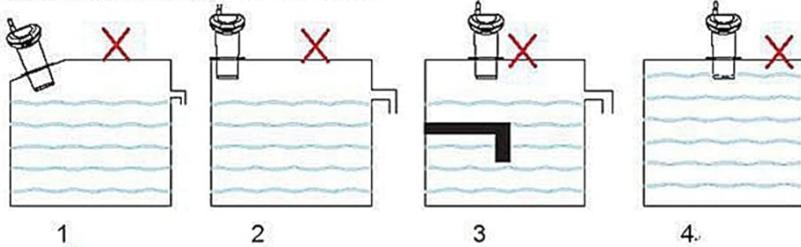


Figure 3.1: Detailed setup sketch illustrating the correct installation of the transmitter, including antenna, balance bubble, screws, sensor, and bracket. It also shows examples of incorrect installations to avoid.

3.3 Receiver Placement

Place the receiver unit in a convenient indoor location. It can stand freely on a desk or be mounted on a wall using the provided screws. Ensure it is within the transmission range of 100 meters (300 feet) in an open field from the transmitter.



Figure 3.2: The receiver unit displayed in an indoor setting, showing its compact design suitable for desktop placement or wall mounting.

4. OPERATING INSTRUCTIONS

4.1 Understanding the LCD Display

The receiver's LCD provides comprehensive information about your tank's liquid level and temperature. Familiarize yourself with the display areas and icons:



1. Value display area

2. Tank temperature and water level icon

3. Water level unit

4. Tank temperature unit (°C/°F)

5. Outdoor low battery indicator

6. Alarm activation icon

7. Min. and max. indicator icon

8. Empty alert icon

9. RF signal indicator

10. Tank level high and low alarm indicator

11. Water tank depth icon

12. Time alarm indicator

13. Time and alarm value area

14. Indoor temperature value display area

15. Indoor temperature unit

Figure 4.1: An annotated diagram of the LCD display, highlighting various indicators such as tank level, temperature, time, and alarm status.

- **Value Display Area:** Shows current tank level and temperatures.
- **Tank Temperature and Water Level Icon:** Indicates the displayed tank temperature and water level.
- **Water Level Unit:** Displays the unit for water level (e.g., meters).
- **Tank Temperature Unit (°C/°F):** Indicates the unit for tank temperature.
- **Outdoor Low Battery Indicator:** Alerts when the transmitter's batteries are low.
- **Alarm Activation Icon:** Shows if an alarm is active.
- **Min. and Max. Indicator Icon:** Displays when viewing minimum or maximum records.
- **Empty Alert Icon:** Indicates an empty tank condition.
- **RF Signal Indicator:** Shows the strength of the wireless connection.
- **Tank Level High and Low Alarm Indicator:** Alerts for high or low liquid levels.
- **Water Tank Depth Icon:** Represents the water tank and its depth.
- **Time Alarm Indicator:** Shows if a time alarm is set.
- **Time and Alarm Value Area:** Displays current time and alarm settings.

- **Indoor Temperature Value Display Area:** Shows the current indoor temperature.
- **Indoor Temperature Unit:** Indicates the unit for indoor temperature.

4.2 Setting Alarms and Units

Use the buttons on the receiver to set high/low liquid level alarms, switch temperature units (°C/°F), and view min/max records. Consult the detailed instructions in the full manual for specific button functions and programming steps.

LCD Display for Description

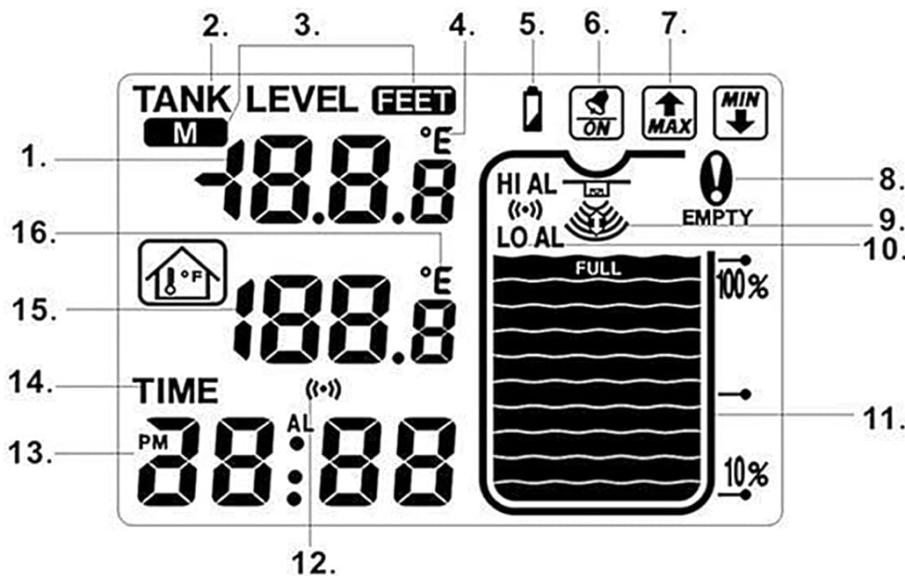


Figure 4.2: Close-up of the LCD display and control buttons, including 'set', '+/max/min', '-/tank', and 'alarm' buttons for various functions.

5. MAINTENANCE

To ensure optimal performance and longevity of your Walfront SEAFRONT sensor, follow these maintenance guidelines:

- **Battery Replacement:** Replace batteries in both the transmitter and receiver when the low battery indicator appears. The estimated battery life is a minimum of 12 months for both units.
- **Cleaning:** Periodically clean the exterior of both units with a soft, dry cloth. Do not use abrasive cleaners or immerse the units in water.

- **Transmitter Inspection:** Annually inspect the transmitter for any signs of wear or damage, especially if exposed to harsh weather conditions. Ensure the sensor area is free from debris or buildup that could obstruct readings.
- **Liquid Compatibility:** This device is designed for use with non-corrosive liquids only. Using it with corrosive liquids may damage the sensor and void the warranty.

6. TROUBLESHOOTING

If you encounter issues with your Walfront SEAFRONT sensor, refer to the following common problems and solutions:

- **No Display on Receiver:**
 - Check if batteries are correctly installed and not depleted. Replace if necessary.
 - Ensure the receiver is powered on.
- **No Liquid Level Reading:**
 - Verify that the transmitter has fresh batteries and is powered on.
 - Check the wireless connection (RF signal indicator on receiver). Move receiver closer to transmitter if signal is weak.
 - Ensure the transmitter is installed correctly and the sensor is not obstructed.
 - Confirm the liquid in the tank is non-corrosive and within the measurement range (0-15m).
- **Inaccurate Readings:**
 - Re-check transmitter installation according to the diagram in Section 3.2. Incorrect placement can lead to inaccurate measurements.
 - Ensure the tank liquid is calm and free from excessive turbulence.
 - Verify the sensor is clean and free from any buildup.
- **Alarms Not Functioning:**
 - Check alarm settings on the receiver to ensure they are correctly configured.
 - Verify that the alarm volume is not set to mute or a very low level.

If the problem persists after attempting these troubleshooting steps, please contact customer support.

7. SPECIFICATIONS

Manufacturer	SEAFRONT
Brand	Walfront
Item Model Number	SEAFRONT
Material	Metal Plastic
Power Type	Battery Powered
Voltage	1 Volts
Indoor Temperature Range	0 ~ 50°C
Outdoor Temperature Range	-40 ~ 60°C
Temperature Accuracy	± 1°C
Water Level Measurement Range	0 ~ 15m
Resolution	0.01m
Transmission Frequency	433MHZ
Transmission Range	100 meters (300 feet) in open field

Receiver Battery	2 x 1.5V AA LR3 alkaline batteries (not included)
Transmitter Battery	6 x 1.5V AAA LR6 alkaline or lithium batteries (not included)
Receiver Size	108 * 94 * 27mm
Transmitter Size	97 * 68 * 152mm
LCD Screen Size	66 * 45mm (3.3 inch)
Suitable Liquid Type	Any non-corrosive liquid
UPC	724942384270

8. WARRANTY AND SUPPORT

This product comes with a standard manufacturer's warranty. For specific warranty details, duration, and terms, please refer to the documentation provided with your purchase or contact the retailer. For technical support, troubleshooting assistance beyond this manual, or inquiries about spare parts, please contact Walfront customer service through their official website or your point of purchase.