

Walfront Walfrontcu43bsg27q

Walfront Water Level Alarm Sensor Instruction Manual

Model: Walfrontcu43bsg27q

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Walfront Water Level Alarm Sensor. This device is designed to monitor liquid levels and alert users to potential water shortages or overflows with an adjustable alarm. Please read this manual thoroughly before use to ensure proper function and safety.

2. SAFETY INFORMATION

- Ensure the power supply matches the device's requirements (AC 220V).
- Do not expose the main unit to water or excessive moisture. The probe is designed for water contact, but the control unit is not waterproof.
- Installation should be performed by individuals familiar with electrical wiring and safety procedures.
- Keep out of reach of children.
- Disconnect power before performing any maintenance or installation.

3. PRODUCT FEATURES

- **Durable Probe:** The sensor probe is constructed from stainless steel, offering corrosion resistance and a long operational lifespan.
- **Wide Application:** Suitable for monitoring various liquid types including tap water, well water, river water, seawater, sewage, high-sensitivity pure water, air conditioning water, and distilled water.
- **Adjustable Alarm Volume:** The alarm sound level can be adjusted between 90 and 105 decibels to suit environmental needs.
- **Mute Function:** After an alarm is triggered, simply press the mute button to silence the alarm without needing to power off the unit.
- **Easy Installation:** Equipped with mounting ears for secure screw-based installation.
- **Extended Detection Range:** Capable of detecting liquid levels up to approximately 15 meters (49.2 feet).

4. PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged.

- 1 x Walfront Water Level Alarm Sensor Unit

- 1 x Water Level Probe (with connecting wires)
- 1 x Power Cable (EU Plug)
- Mounting Screws (may be included, refer to packaging)



Figure 1: Complete Walfront Water Level Alarm Sensor package contents, including the main control unit with a red alarm light, the power cable with an EU plug, and the water level probe with its connecting wires.

5. SPECIFICATIONS

Parameter	Value
Model	Walfrontcu43bsg27q
Control Method	Touch
Alarm Volume	90-105 Decibels (Adjustable)
Mounting Type	Wall Mount
Max Detection Range	15 Meters (49.2 Feet)
Sensor Technology	Level Sensor
Manufacturer	Walfront
Power Supply Voltage	AC 220V
Operating Temperature	-15°C to 60°C
Max Load	250V, 5A, 1000W
Probe Output Voltage	8V

Parameter	Value
Main Unit Material	ABS
Probe Material	Stainless Steel
Item Weight	1.48 Kilograms
Batteries Required	No

6. SETUP AND INSTALLATION

Follow these steps for proper installation of the water level alarm sensor.

- 1. Choose a Location:** Select a suitable wall-mount location for the main control unit, ensuring it is protected from direct water exposure and within reach of a power outlet.
- 2. Mount the Unit:** Use appropriate screws to securely fasten the main control unit to the wall via its integrated mounting ears.
- 3. Connect the Probe:** Connect the water level probe wires to the designated terminals on the control unit. Ensure correct polarity if specified (refer to internal wiring diagram if available, or follow color coding).
- 4. Position the Probe:** Place the stainless steel probe at the desired water level detection point within the tank or reservoir. The probe should be submerged to the level where you want the alarm to trigger. Ensure the probe is securely fixed and will not move.
- 5. Connect Power:** Plug the power cable into the main control unit and then into a standard AC 220V power outlet.
- 6. Initial Test:** Perform an initial test by manually raising or lowering the water level (or simulating it) to verify the alarm triggers correctly.



Figure 2: A close-up view of the Walfront Water Level Alarm Sensor control unit, showing the red alarm light, green button, and red power switch. The "FLOATLESS LEVEL SWITCH" labels indicate the sensor inputs.



Figure 3: Detailed view of the control panel on the Walfront Water Level Alarm Sensor, highlighting the input terminals for the floatless level switches and the main power switch.

7. OPERATING INSTRUCTIONS

1. **Power On:** Flip the red power switch to the 'ON' position. The unit will power up.
2. **Monitoring:** The sensor will continuously monitor the water level at the probe's position.
3. **Alarm Trigger:** If the water level reaches the set threshold (either too low or too high, depending on probe configuration), the red alarm light will activate, and an audible alarm will sound.
4. **Adjusting Alarm Volume:** The alarm volume can be adjusted between 90-105 dB. Refer to the device's internal settings or a dedicated knob/switch if present (not explicitly detailed in provided data, assume internal adjustment or fixed range).
5. **Mute Alarm:** To silence the audible alarm after it has been triggered, press the green mute button on the control unit. The alarm light may remain active until the water level returns to a safe range.
6. **Power Off:** To turn off the unit, flip the red power switch to the 'OFF' position.



Figure 4: The Walfront Water Level Alarm Sensor shown in an operational context, monitoring water levels in a large tank or aquaculture system.

8. MAINTENANCE

- **Regular Cleaning:** Periodically inspect and clean the stainless steel probe to prevent buildup of debris or mineral deposits, which could affect its accuracy. Use a soft cloth and mild detergent if necessary.
- **Probe Inspection:** Check the probe and its wiring for any signs of damage, corrosion, or wear. Replace if necessary.
- **Unit Inspection:** Ensure the main control unit is free from dust and moisture. Keep ventilation openings clear.
- **Power Disconnection:** Always disconnect the power supply before performing any cleaning or maintenance tasks.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	No power supply; power switch off; faulty power cable.	Check power outlet; ensure power switch is ON; inspect power cable for damage.
Alarm does not trigger at expected level.	Probe incorrectly positioned; probe dirty; faulty probe connection.	Adjust probe position; clean probe; check probe wiring connections.
Alarm triggers continuously or falsely.	Probe short-circuited or damaged; electrical interference.	Inspect probe and wiring for damage; ensure proper grounding; relocate away from strong electrical fields.
Alarm sound is too quiet or too loud.	Alarm volume setting needs adjustment.	Adjust the alarm volume (if adjustable via external control, otherwise it's within the specified range).

10. IMPORTANT NOTE ON PRODUCT VARIATIONS

Please be aware that due to ongoing product improvements or manufacturing variations, you may receive either a "New Type" or "Old Type" model of the Walfront Water Level Alarm Sensor. Both versions offer the same core functionality and performance.

NEW AND OLD MODELS ARE SHIPPED RANDOMLY



New Type



Old Type

Figure 5: Comparison image showing two versions of the Walfront Water Level Alarm Sensor, labeled "New Type" and "Old Type". Both models are functionally equivalent.

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For further assistance, please contact Walfront customer support.