BUUBO 261250773

BUUBO Ultrasonic Water Flow Meter DN65 Instruction Manual

Model: 261250773

1. PRODUCT OVERVIEW

The BUUBO T3-1-2-K Sandwich-type Ultrasonic Water Meter is designed for accurate water flow measurement. This device utilizes ultrasound transit-time technology, adhering to standards such as GB/T778.1-2007 and ISO4064-1:2005. Its compact design, with a thickness of only 2 inches (50.8mm), facilitates installation in various settings. The IP68 rating ensures durability in harsh environments. This meter is particularly suited for agricultural irrigation, garden management, and water resource monitoring, offering high measurement accuracy, low power consumption, and reliable operation.

Figure 1: Front view of the BUUBO Ultrasonic Water Flow Meter.

2. KEY FEATURES

- **Integrated Design:** Highly integrated T3-1-2-K sandwich-type ultrasonic water meter.
- **Measurement Technology:** Based on ultrasound transit-time measurement for precision.
- **Application:** Specifically designed for agricultural irrigation, garden management, and water resources monitoring.
- **Performance:** Offers low cost, high measurement accuracy, low power consumption, and stable, reliable operation.
- **Durability:** IP68 rated for all parts, suitable for various harsh environments.
- **Compact Size:** Thickness of only 2 inches (50.8mm) for space-saving installation.

3. SETUP AND INSTALLATION

Proper installation is crucial for accurate measurement and long-term performance. This ultrasonic water meter is designed as a sandwich-type unit, meaning it is installed between two flanges in the pipeline.

3.1 Unpacking and Inspection

1. Carefully remove the water meter from its packaging.
2. Inspect the unit for any visible damage that may have occurred during transit.
3. Verify that all components, including the meter body and any connecting cables, are present.

Figure 2: Water flow meter alongside its quick installation guide.

3.2 Site Preparation

- Ensure the installation location provides sufficient space for the meter and any necessary pipework.
- The meter should be installed in a straight section of pipe, free from immediate bends or obstructions, to ensure accurate flow measurement.
- The IP68 rating allows for installation in harsh environments, but protection from direct mechanical impact is still recommended.

3.3 Mechanical Installation

1. Turn off the water supply to the pipeline where the meter will be installed.
2. Drain the pipeline to remove any residual water.

3. Insert the ultrasonic water meter between the existing pipe flanges. Ensure the flow direction arrow on the meter body aligns with the actual water flow direction.

4. Secure the meter using appropriate bolts and gaskets to prevent leaks.

5. Gradually restore the water supply, checking for any leaks around the meter connections.

Figure 3: Side view indicating DN65 size and flow direction.

3.4 Electrical Connections (RS485 Wireless Remote)

The meter supports RS485 wireless remote communication. Refer to the wiring diagram provided with your specific unit for detailed connection instructions.

- Connect the RS485 communication wires to the designated terminals on the meter.
- Ensure proper polarity for data transmission.
- If using external power, connect the power supply according to the voltage requirements specified in the manual or on the device label.

4. OPERATING INSTRUCTIONS

The ultrasonic water meter features an LCD display and touch keys for operation and data viewing.

4.1 LCD Display Overview

Figure 4: Detailed view of the LCD display and touch keys.

The LCD displays various parameters, including:

- **Total Flow:** Cumulative water volume measured (e.g., m³).
- **Instantaneous Flow Rate:** Current water flow rate (e.g., m³/h).
- **Battery Level:** Indication of remaining battery power.
- **Error Codes:** Displays specific codes if an issue is detected.
- **Communication Status:** Indicates RS485 or wireless connection status.

4.2 Using the Touch Keys

The meter typically features a few touch-sensitive buttons for navigation and setting adjustments.

- **Up/Down Arrows:** Used to scroll through different display screens or adjust settings.

- **Enter/Confirm Button:** To select an option or confirm a setting.
- **Menu Button:** To access the main menu for advanced settings (if applicable).

Note: Specific button functions and menu structures may vary. Refer to the detailed quick installation and operation guide included with your product for precise instructions.

5. MAINTENANCE

Regular maintenance helps ensure the longevity and accuracy of your ultrasonic water flow meter.

- **Cleaning:** Periodically clean the exterior of the meter with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Connection Check:** Annually inspect all mechanical and electrical connections for tightness and signs of corrosion.
- **Battery Monitoring:** Monitor the battery level displayed on the LCD. Replace batteries as needed, following the manufacturer's guidelines.
- **Environmental Protection:** While IP68 rated, avoid exposing the meter to unnecessary extreme temperatures or direct mechanical stress.

6. TROUBLESHOOTING

If you encounter issues with your water flow meter, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
No display or meter not powering on	Low or dead battery; power connection issue.	Check battery level and replace if necessary. Verify external power connections.
Inaccurate flow readings	Incorrect installation direction; air bubbles in pipe; sensor obstruction; calibration needed.	Ensure flow arrow matches pipe direction. Purge air from the system. Inspect for internal obstructions. Contact support if calibration is suspected.
No data via RS485/Wireless	Incorrect wiring; communication settings mismatch; signal interference.	Verify RS485 wiring polarity. Check communication parameters (baud rate, address). Ensure no strong interference sources are nearby.
Leakage at connections	Improperly tightened bolts; damaged gasket.	Tighten flange bolts evenly. Replace damaged gaskets.

If the problem persists after attempting these solutions, please contact BUUBO customer support or your local distributor for further assistance.

7. SPECIFICATIONS

Parameter	Value
Model Number	261250773
ASIN	B0DXDS8VX7
Brand	BUUBO

Parameter	Value
Product Dimensions	25 x 18 x 10 inches (63.5 x 45.7 x 25.4 cm)
Item Weight	2.65 pounds (1200 Grams)
Color/Size Variant	DN65
First Available Date	February 17, 2025
Manufacturer	BUUBO
Protection Rating	IP68 (Inferred from description)
Communication	RS485 Wireless Remote (Inferred from title)

8. WARRANTY AND SUPPORT

For specific warranty terms and conditions, please refer to the documentation provided at the time of purchase or contact the seller directly.

If you require technical support, assistance with installation, or have questions regarding the operation of your BUUBO Ultrasonic Water Flow Meter, please reach out to the manufacturer or your authorized distributor. Contact information is typically available on the product packaging or the seller's website.