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SLMLSGB SG505

SLMLSGB SG505 Digital Water Usage Flow Meter (BSP) Instruction Manual

Model: SG505
Brand: SLMLSGB

1. Introduction

This manual provides detailed instructions for the proper installation, operation, and maintenance of your SLMLSGB SG505 Digital Water Usage Flow Meter. Please read this manual thoroughly before using the device to ensure optimal performance and longevity. Keep this manual for future reference.

2. Product Features

- Accurate digital measurement of water flow rate and total water usage.
- Clear LCD display for easy reading of measurements.
- Battery-powered design for portability and convenient use without external power.
- IPX6 waterproof rating, providing protection against strong water jets for outdoor applications.
- Specifically designed for integration with hose and irrigation systems.
- Equipped with BSP (British Standard Pipe) thread type for specific connection requirements.



Image 1: Main view of the SLMLSGB SG505 Digital Water Usage Flow Meter, showing its compact design and LCD screen.

3. Package Contents

Please verify that all items are present in your package:

- 1 x SLMLSGB SG505 Digital Water Usage Flow Meter (BSP)
- 1 x User Manual (this document)

Note: Batteries are typically not included and must be purchased separately.

4. Setup

4.1 Battery Installation

1. Locate the battery compartment on the back or side of the flow meter.
2. Carefully open the battery compartment cover.

3. Insert the required batteries (e.g., 2 x AAA, verify type on compartment) according to the polarity indicators (+/-).
4. Close the battery compartment cover securely to ensure the waterproof seal is maintained.

4.2 Connecting the Flow Meter

1. Ensure the water supply is completely turned off before installation.
2. Connect the inlet side of the flow meter (usually marked with an arrow indicating flow direction) to your water source, such as a faucet or garden hose. Ensure the BSP threads align correctly and tighten securely by hand, then with a wrench if necessary, but do not overtighten.
3. Connect your garden hose or irrigation system to the outlet side of the flow meter. Ensure a tight, leak-free connection.
4. Slowly turn on the water supply and carefully check all connections for any leaks.



Image 2: Illustration of the SG505 flow meter highlighting the G3/4-14 (BSP) thread type for proper connection identification.

5. Operating Instructions

5.1 Power On/Off

The SG505 flow meter typically powers on automatically when water begins to flow through it or when a button is pressed. It features an automatic power-off function to conserve battery life after a period of inactivity.

5.2 Display Modes

The LCD displays two primary measurements:

- **Current Flow Rate:** Shows the instantaneous rate of water passing through the meter (e.g., GAL/MIN or L/MIN).
- **Total Water Usage:** Accumulates the total volume of water that has passed through the meter since the last reset (e.g., GAL or L).

Press the main button (if present) briefly to cycle between these display modes.

5.3 Unit Selection (GAL/L)

To switch the measurement units between Gallons (GAL) and Liters (L):

1. Ensure the device is powered on.
2. Press and hold the main button for approximately 3-5 seconds.
3. The displayed unit (GAL or L) will change. Release the button once your desired unit is shown.

5.4 Resetting Data

To reset the accumulated total water usage data:

1. Ensure the device is powered on and displaying the total water usage.
2. Press and hold the main button for approximately 5-7 seconds until the display flashes and resets to zero.
3. Release the button. The total usage is now reset.



Image 3: The SG505 flow meter's LCD display showing current flow rate and unit, alongside key operational specifications.

6. Maintenance

6.1 Cleaning

Wipe the exterior of the flow meter with a soft, damp cloth. Do not use abrasive cleaners, solvents, or harsh chemicals, as these may damage the display or casing.

6.2 Battery Replacement

When the battery indicator on the LCD shows low power, replace the batteries promptly to ensure continuous and accurate readings. Follow the battery installation steps outlined in Section 4.1.

6.3 Storage

When the flow meter is not in use for an extended period, especially during freezing temperatures, disconnect it from the water source, drain any remaining water, and store it in a dry, cool place to prevent damage.

7. Troubleshooting

If you encounter issues with your SG505 Digital Water Usage Flow Meter, please refer to the following common

problems and solutions:

- **No Display:**
  - Check battery installation and ensure batteries are fresh and correctly oriented.
  - Verify the battery compartment cover is closed securely.
- **Inaccurate Readings:**
  - Ensure the flow meter is installed correctly with the arrow indicating the direction of water flow.
  - Check for any leaks in the connections, which can affect accuracy.
  - Confirm that the water flow rate is within the specified operating range of the device.
- **Leaks at Connections:**
  - Tighten all connections securely, but do not overtighten.
  - Inspect rubber washers or gaskets for damage or improper seating and replace if necessary.
- **Water Not Flowing Through Meter:**
  - Ensure the water supply valve is fully open.
  - Check for any blockages in the hose or irrigation system upstream or downstream of the meter.

8. Specifications

Feature	Specification
Model	SG505
Thread Type	G3/4-14 (BSP)
Flow Rate Range	1 - 45.5 L/min (0.26 - 12.0 GAL/min)
Working Pressure	0.5 - 8 Bar (7.25 - 116 PSI)
Working Temperature	4.5 - 45°C (40.1 - 113°F)
Waterproof Rating	IPX6
Power Source	Battery Powered (e.g., 2 x AAA, user to verify)
Display	LCD

9. Warranty and Support

For warranty information or technical support regarding your SLMLSGB SG505 Digital Water Usage Flow Meter, please refer to the product packaging or contact the manufacturer directly using the contact details provided at the point of purchase or on the official SLMLSGB website.

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