

RAINPOINT ICS018

RAINPOINT Water Meter User Manual

Model: ICS018

INTRODUCTION

The RAINPOINT Water Meter is designed to accurately measure water consumption, helping users avoid overwatering and conserve water. This device is ideal for various applications including garden hoses, hose nozzles, garden irrigation systems, pool filling, and RV tanks. Its precise measurement capabilities ensure efficient water management.



Image: RAINPOINT Water Meter, showing the main unit with brass inlet and outlet, and included connectors.

FOR THE EARTH, EVERY DROP COUNTS



Image: A small green plant emerging from cracked, dry soil, emphasizing water conservation.



Swimming pool



RV travel



Garden irrigation



Diluted hydroponic solution

Image: Examples of the water meter's application, including measuring water for swimming pools, RV tanks, garden irrigation, and diluted hydroponic solutions.

KEY FEATURES

- **180° Rotatable LCD Screen:** The digital LCD screen can be rotated 180° for easy reading of measurements from any angle. The display automatically shuts off after 1 minute of inactivity or no water flow to conserve battery.
- **Professional Water Loss Protection:** Features an improved circulation speed flow impeller to minimize clogging and a built-in rubber ring with multi-layer threaded interface to prevent leaks.
- **4 Water Flow Measurement Modes:** Provides real-time water flow measurement, last water consumption, total water consumption 1, and total water consumption 2. Total consumption modes can be reset by long-pressing the MENU button.
- **High-Precision Hall Sensor:** Equipped with a sensitive Hall sensor for quick and reliable measurements, accurate to $\pm 5\%$.
- **Water Conservation:** Accurately measures water usage to prevent overwatering and reduce water bills.

BUILT-IN HIGH PRECISION HALL SENSOR

Measurement tolerance: +5% Accurate & reliable

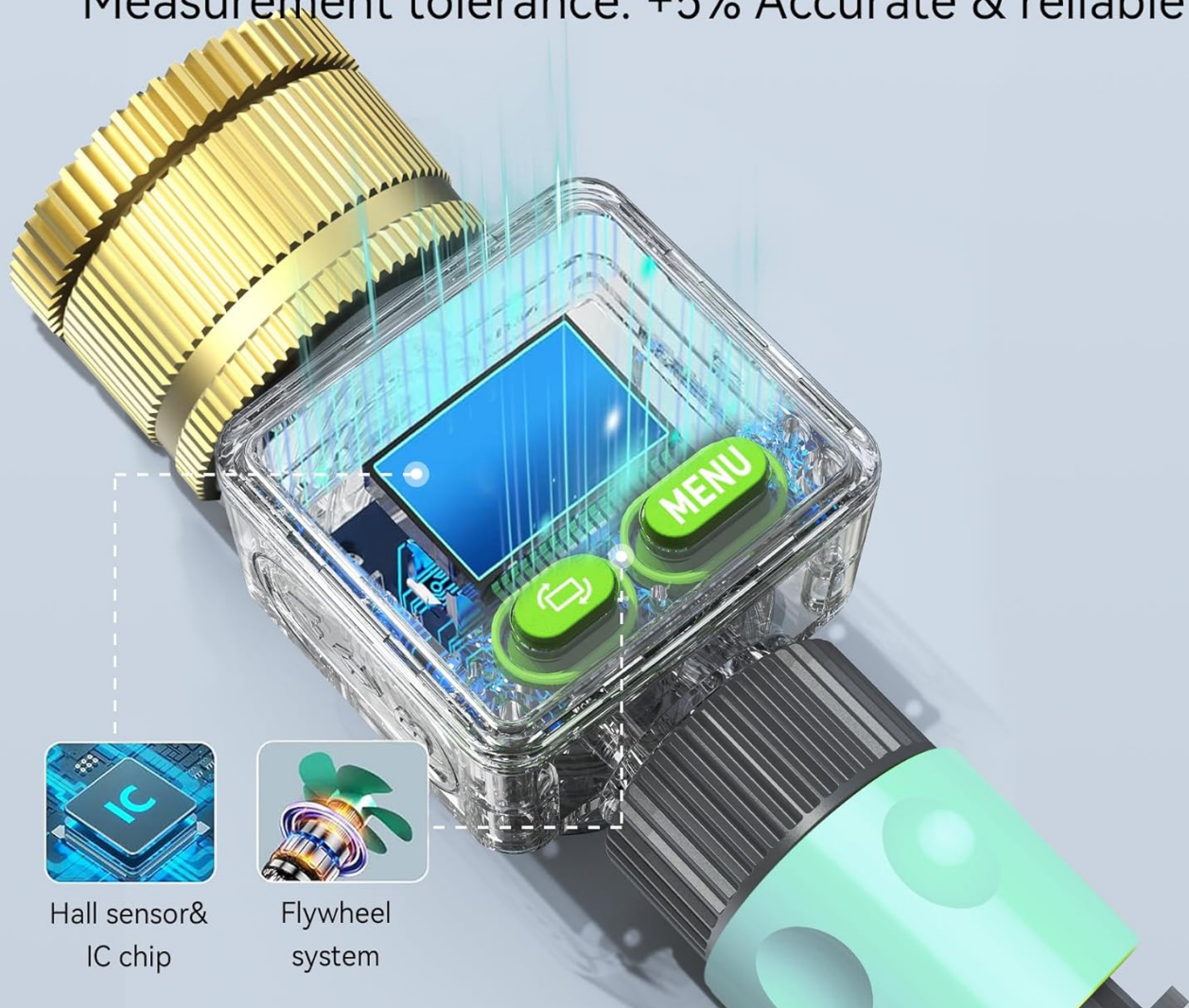


Image: Internal view of the water meter, illustrating the high-precision Hall sensor and flywheel system responsible for accurate measurements.

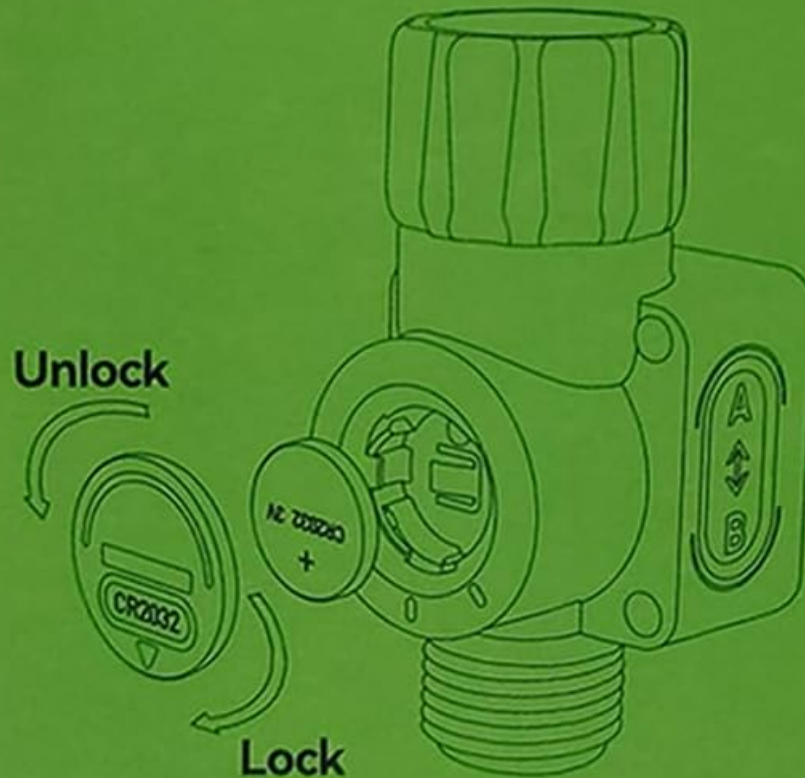
SETUP AND INSTALLATION

Battery Installation

The water meter is powered by one CR2032 button cell battery (included).

1. Locate the battery cover on the back of the device.
2. Insert the battery cover opener (or a coin) into the notch on the back of the device.
3. Rotate the opener counter-clockwise to unlock and open the battery cover.
4. Install the CR2032 battery with the positive (+) side facing up.
5. Replace the battery cover and rotate the opener clockwise to secure it.

Insert the battery cover opener into the notch on the back of the device and rotate counterclockwise to open the battery cover. Install the CR2032 battery in and then rotate the opener clockwise to secure the cover back.



⚠ WARNING

KEEP OUT OF REACH OF CHILDREN.
Swallowing can lead to chemical burns, perforation of soft tissue, and death. Severe burns can occur within 2 hours of ingestion. Seek medical attention immediately.

⚠ AVERTISSEMENT

TENIR HORS DE PORTÉE DES ENFANTS.
L'ingestion peut provoquer des brûlures chimiques, la perforation des tissus mous et la mort. Des brûlures graves peuvent survenir dans les 2 heures suivant l'ingestion. Consulter immédiatement un médecin.

Image: Step-by-step guide for installing the CR2032 battery, showing the unlock and lock positions of the battery cover.

The RAINPOINT Water Meter comes with brass inlet and outlet connections, compatible with standard garden hose fittings. It includes adapters for 1/2" and 3/4" hose connections.

1. Ensure all connections are clean and free of debris.
2. Attach the appropriate adapter (if needed) to your water source (e.g., outdoor faucet) or hose.
3. Connect the water meter's brass inlet to the water source. Ensure a tight, leak-free connection. Teflon tape can be used for extra sealing if necessary.
4. Connect your garden hose or watering accessory to the water meter's brass outlet.
5. Verify that the water flow direction aligns with the arrows on the meter for accurate readings. The meter can measure flow in both directions, and the display orientation can be adjusted.

WATER METER INSTALLATION



Image: Visual guide for installing the water meter, showing connections to a 3/4" thread tap, hose spray gun, and various male/female connectors.

OPERATING INSTRUCTIONS

Display and Buttons

The water meter features a digital LCD screen and two control buttons: a Direction button and a MENU button.

- **Direction Button:** Briefly press to rotate the LCD screen 180° for optimal viewing angle.
- **MENU Button:** Press to cycle through different measurement modes. Long press to reset total consumption records.

Measurement Modes

The device offers four distinct measurement modes:

1. **Flow Mode:** Displays the real-time water flow rate (e.g., GAL/Min or L/Min).
2. **Last Water Consumption:** Shows the volume of water consumed during the previous watering session.
3. **Total Water Consumption 1 (TOTAL 1):** Accumulates the total water consumption. This mode can be reset independently.
4. **Total Water Consumption 2 (TOTAL 2):** Another independent accumulator for total water consumption, useful for tracking different periods or applications.

To switch between modes, briefly press the **MENU** button. To clear the record in TOTAL 1 or TOTAL 2 mode, long press the **MENU** button until the display resets.

4 MEASUREMENT

Easy to Operate, All-in-One Button



FLOW MODE
Real-time water flow rate



LAST MODE
Last water consumption



TOTAL MODE 1
Total water consumption



TOTAL MODE 2
Total water consumption

Image: Overview of the four measurement modes available on the RAINPOINT Water Meter, illustrating their respective displays.

180° ROTATABLE CONTROL SCREEN

Find the best reading Direction



Image: Demonstration of the 180° rotatable control screen, allowing users to find the best reading direction.

DEMAND-ORIENTED WATERING

Precise control to avoid overwatering



Image: The water meter in use during garden irrigation, highlighting its role in demand-oriented watering and preventing overwatering.

MAINTENANCE

- **Cleaning:** Wipe the exterior of the water meter with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use, especially during winter or freezing temperatures, remove the water meter from the hose/tap. Drain any remaining water and store it indoors in a dry, frost-free location to prevent damage.
- **Battery Replacement:** Replace the CR2032 battery when the display becomes dim or unresponsive. Follow the battery installation steps.
- **Gasket and Filter Check:** Periodically inspect the rubber gaskets and the included filter for wear or debris. Replace them if necessary to maintain a leak-free connection and accurate flow.

Important: Keep from freezing. The flow meter should be removed and stored indoors in winter seasons to avoid potential damage.

TROUBLESHOOTING

- **No Display / Dim Display:**

- Check if the CR2032 battery is installed correctly with the positive (+) side up.
- Replace the battery with a new one.
- Ensure the battery cover is securely closed.

- **Inaccurate Readings:**

- Ensure the water meter is installed correctly and the flow direction is consistent.
- Check for any blockages or debris in the meter's inlet or outlet.
- Verify that the water flow rate is within the specified operating range (0.13-12 GAL/Min or 0.5-45.5 L/Min).
Very low flow rates might not be registered accurately.

- **Water Leakage:**

- Ensure all connections are tightened securely.
- Check the rubber gaskets (washers) at the connections for proper seating or damage. Replace if worn.
- Apply Teflon tape to threaded connections if leaks persist.

- **Display Not Rotating:**

- Ensure you are pressing the "Direction" button firmly.

SPECIFICATIONS

SMALL SIZE, FULL FUNCTIONALITY



ITEM	SPECIFICATION
Working Pressure	0.5-10bar(7.25-145psi)
Max Water Consumption	9999L/2641Gal
Water Flow Rate	0.13~12GAL/Min (0.5~45.5L/Min)
Battery	1*CR2032
Waterproof	IP54
Measurement Tolerance	±5%
Working Temperature	37°F-122°F (3°C-50°C)

Image: Detailed view of the water meter with its key components labeled and a table summarizing its technical specifications.

Item	Specification
Brand	RAINPOINT
Model Number	ICS018
Color	Black
Product Dimensions	6.2 x 9.2 x 11.5 cm
Item Weight	310 g
Material	Brass
Display Type	LCD
Working Pressure	0.5-10 bar (7.25-145 psi)

Item	Specification
Max Water Consumption	9999 L (2641 Gal)
Water Flow Rate	0.13-12 GAL/Min (0.5-45.5 L/Min)
Battery	1 x CR2032 Button Cell (included)
Waterproof Level	IP54
Measurement Tolerance	±5%
Operating Temperature	3°C-50°C (37°F-122°F)

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official RAINPOINT website or contact their customer service. Keep your purchase receipt for warranty claims.

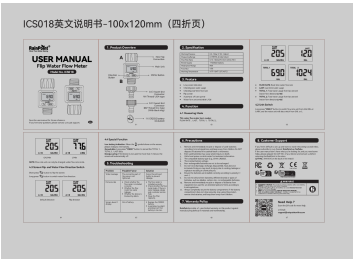
You can find more information and support at:www.rainpointonline.com

For how-to videos, visit the official RAINPOINT YouTube channel:[@RainPoint](https://www.youtube.com/@RainPoint)

Follow RAINPOINT on Facebook for updates:[@Rainpointglobal](https://www.facebook.com/Rainpointglobal)

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Documents - RAINPOINT – ICS018



[RainPoint ICS018 Flip Water Flow Meter User Manual](#)

Comprehensive user manual for the RainPoint ICS018 Flip Water Flow Meter, detailing specifications, features, functions, troubleshooting, and customer support. Learn how to use your water flow meter effectively for water saving.

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