YoLink YS5018

YoLink FlowSmart All-in-One Smart Water Meter & Shutoff (YS5018 0.5" with Hub)

Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your YoLink FlowSmart All-in-One Smart Water Meter & Shutoff. Please read this manual thoroughly before installation and use to ensure proper function and safety. The YoLink FlowSmart system offers comprehensive water usage monitoring, advanced leak detection with auto-shutoff, and intelligent valve automation to protect your home and manage water resources efficiently.

2. SAFETY INFORMATION

Always follow basic safety precautions when installing and operating this product to reduce the risk of fire, electric shock, and injury. Professional plumbing installation is recommended. Ensure the main water supply is turned off before any installation work. Do not attempt to repair the device yourself; refer to qualified service personnel.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- YoLink FlowSmart All-in-One Smart Water Meter & Shutoff (YS5018)
- YoLink Hub (YS1603)
- Power Adapter for Hub
- Ethernet Cable for Hub
- Installation Hardware (e.g., mounting brackets, screws, hex key for manual override)
- User Manual

Image 3.1: YoLink FlowSmart All-in-One device, YoLink Hub, and the mobile application interface.

4. PRODUCT OVERVIEW

4.1 Components

- **FlowSmart All-in-One Device:** Integrates a water meter and an automatic shutoff valve.
- **YoLink Hub:** Connects your FlowSmart device to the internet and the YoLink cloud, enabling app control and notifications.
- **Manual Override:** Allows for physical opening or closing of the valve using a hex key.
- **LCD Display:** Provides local readings and status indicators.

4.2 Key Features

- **Comprehensive Water Usage Monitoring:** Real-time meter readings and detailed logs (daily, monthly, last use statistics).
- **Advanced Leak Detection & Auto-Shutoff:** Customizable water usage and duration limits, instant alerts, and

automatic valve closure.

- **Seamless Offline Protection:** Automatic valve closure during power or internet outages if a leak is detected or limits are exceeded.
- **Intelligent Valve Automation and Scheduling:** Programmable schedules and timers for auto-shutoff.
- **Built-In Valve Maintenance Function:** Regular self-maintenance to ensure reliable operation.
- **Manual Valve Control:** Direct physical control of the valve.
- **Advanced Data Analysis and Export Options:** Detailed consumption charts and data export for analysis.
- **Enhanced Safety Alerts and Temperature Monitoring:** High/low temperature alerts and continuous alarm notifications for leaks.
- **Extended Battery Life:** Up to 10 years with a non-rechargeable lithium battery.
- **LoRa Technology:** Long-range wireless connectivity up to 1320 feet (400 meters).

5. SETUP

5.1 YoLink Hub Installation

1. Connect the YoLink Hub to power using the provided power adapter.
2. Connect the Hub to your internet router using the provided Ethernet cable.
3. Wait for the Hub's indicator lights to show a stable connection (refer to Hub's specific manual for light status).
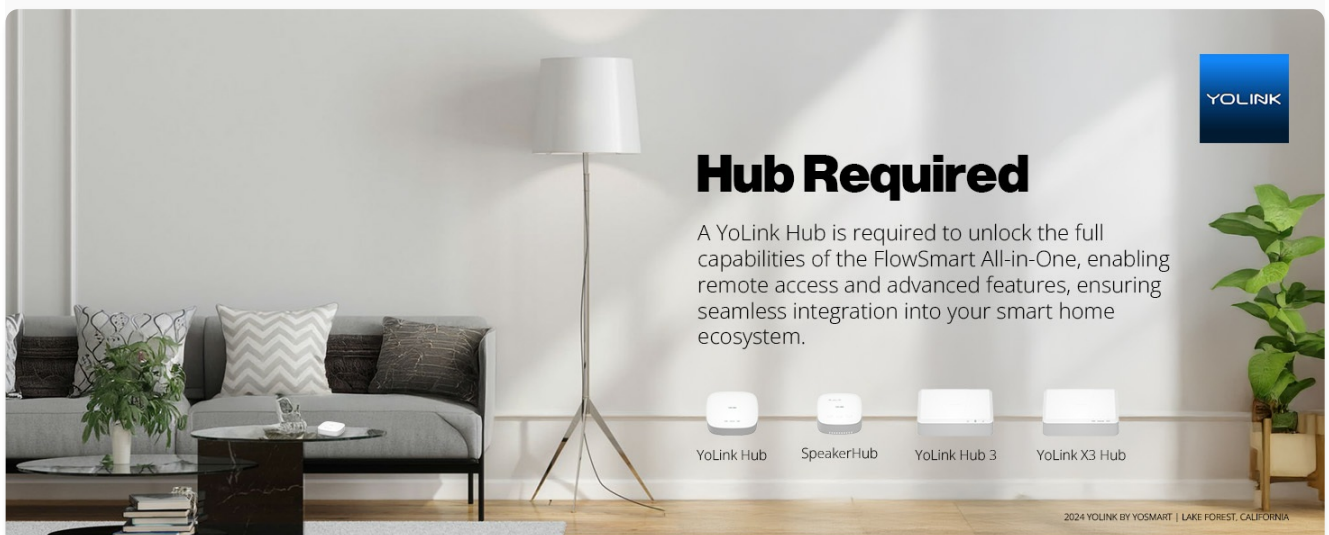

Image 5.1: A YoLink Hub is required to enable remote access and advanced features of the FlowSmart All-in-One.

5.2 FlowSmart Device Installation (Plumbing)

Important: Professional plumbing installation is highly recommended. Ensure the main water supply is turned off before proceeding.

1. Choose an appropriate location on your main water line (0.5-inch pipes).
2. Cut the pipe and install the FlowSmart device according to the flow direction indicated on the unit.
3. Ensure all connections are watertight.
4. Restore the main water supply and check for leaks.

5.3 App Setup and Device Pairing

1. Download the YoLink app from your smartphone's app store.
2. Create an account or log in.

3. Follow the in-app instructions to add your YoLink Hub.

4. Once the Hub is added, follow the instructions to add the FlowSmart All-in-One device. This typically involves scanning a QR code on the device or entering its Device ID.

5. Confirm successful pairing within the app.

6. OPERATING INSTRUCTIONS

6.1 Water Usage Monitoring

The YoLink app provides real-time water meter readings and historical data.

- Open the YoLink app and select your FlowSmart device.
- View current water usage, daily, monthly, and last use statistics.
- Access detailed water consumption charts to analyze usage patterns.

Comprehensive Water Usage Monitoring

The YoLink FlowSmart All-in-One enables advanced tracking of water usage, offering real-time meter readings and detailed logs. Monitor water consumption with daily, monthly, and last use statistics, helping you manage water resources more efficiently and reduce wastage.

Image 6.1: Comprehensive water usage monitoring through the YoLink app.
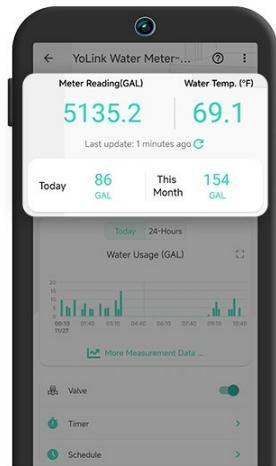
Real-Time Water Monitoring

Monitor your water usage with precision using advanced ultrasonic water meter technology. Receive immediate, accurate readings and updates directly to your smartphone, ensuring you stay informed at all times.

Image 6.2: Real-time water monitoring provides immediate, accurate readings to your smartphone.

6.2 Leak Detection & Auto-Shutoff

Configure leak detection settings within the YoLink app:

- Set personalized water usage and duration limits.
- Customize detection thresholds for leaks.
- Receive instant alerts on your smartphone when limits are exceeded.
- The system automatically shuts off the valve to prevent damage from unexpected leaks or excessive water use.

Image 6.3: Advanced leak detection and auto-shutoff settings in the YoLink app.
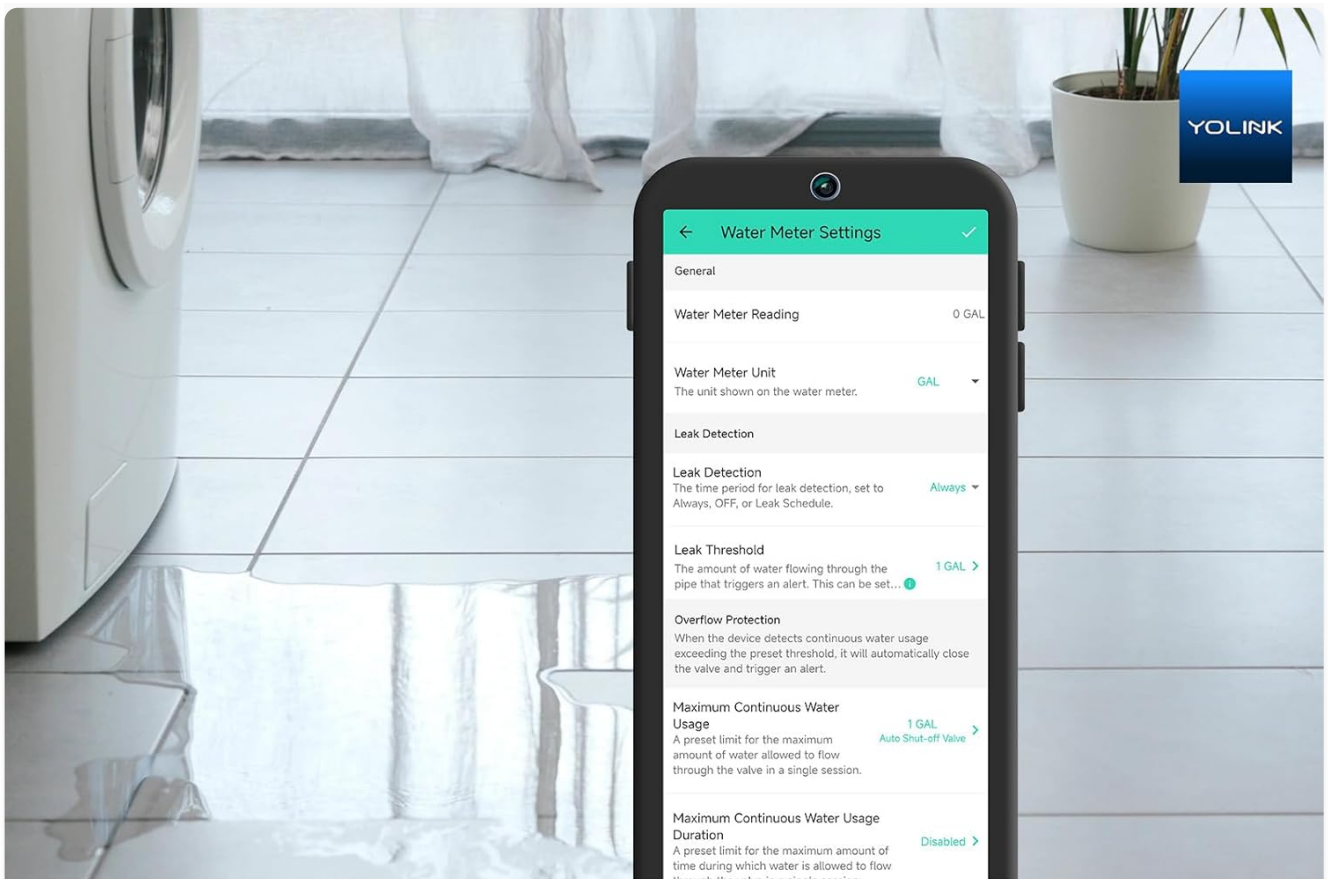
Advanced Leak Detection & Auto-Shutoff

Safeguard your home with cutting-edge leak detection and overflow prevention features. Set personalized water usage and duration limits, customize detection thresholds, and receive instant alerts on your smartphone when limits are exceeded. For added security, the system automatically shuts off the valve to prevent damage from unexpected leaks or excessive water use, ensuring your property remains protected.

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Intelligent Leak Response

Automatically shut off the water supply when a leak is detected, reducing potential damage and conserving water. Set custom detection criteria in the app to ensure immediate action when leaks occur.

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Image 6.4: Intelligent leak response automatically shuts off water when a leak is detected.

6.3 Offline Protection

The FlowSmart All-in-One can automatically close the valve even during power or internet outages if a leak is detected or limits for water usage/duration are exceeded. This feature is enabled by default and can be customized in the app.

Seamless Offline Protection

No power or internet? No problem. If a leak is detected or limits for water usage or duration are exceeded, the FlowSmart All-in-One can automatically close the valve—even during power or internet outages—keeping your home protected. This auto-shutoff feature is enabled by default but can be customized as needed.

Image 6.5: Seamless offline protection ensures your home remains protected even without power or internet.
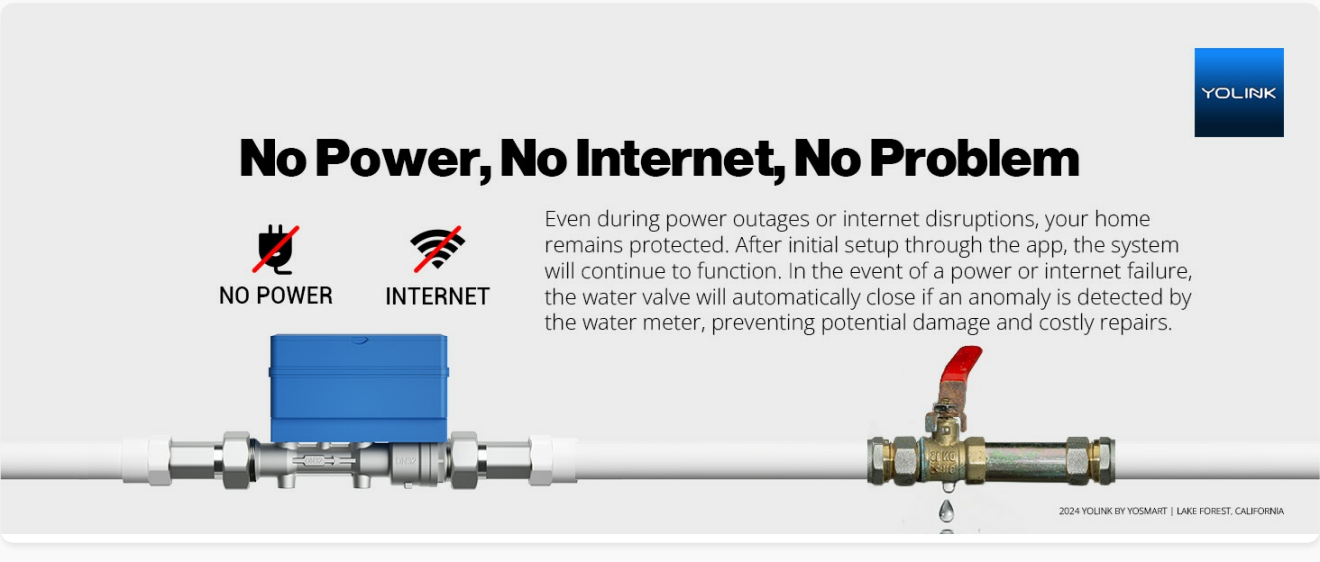
No Power, No Internet, No Problem

NO POWER   **INTERNET**

Even during power outages or internet disruptions, your home remains protected. After initial setup through the app, the system will continue to function. In the event of a power or internet failure, the water valve will automatically close if an anomaly is detected by the water meter, preventing potential damage and costly repairs.

6.4 Valve Automation and Scheduling

Program valve settings for efficient water management:

- Set schedules or timers for automatic valve opening and closing.
- Use timers for specific tasks like irrigation or pool filling.

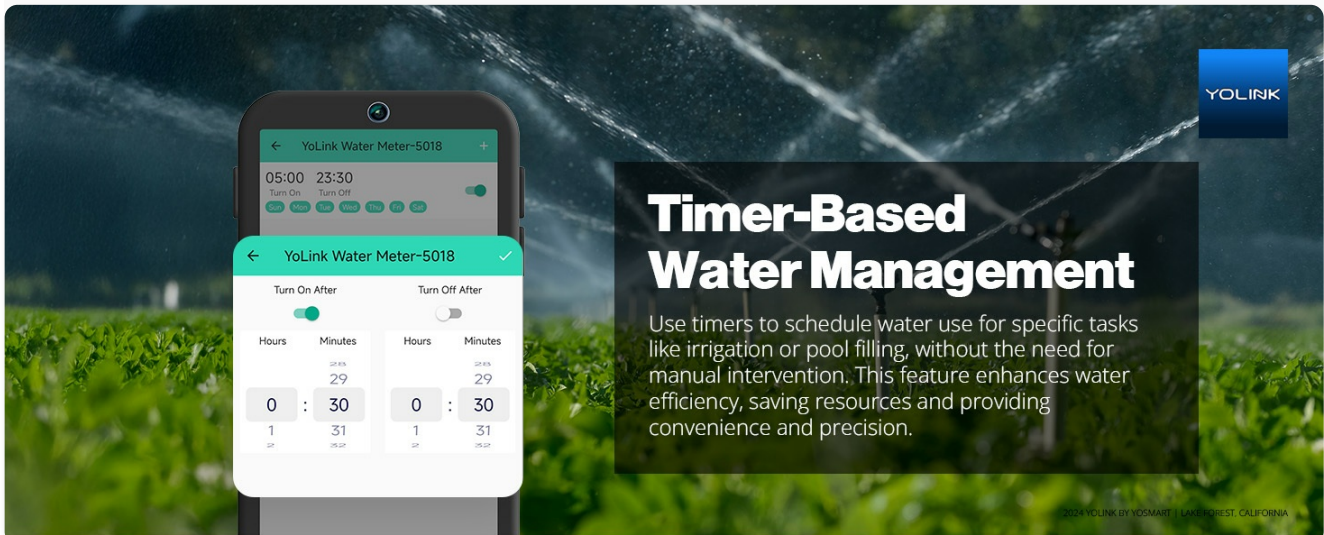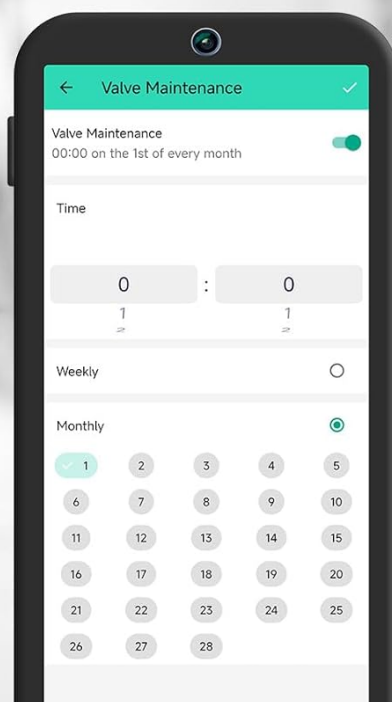Image 6.7: Intelligent valve automation and scheduling through the YoLink app.

Image 6.8: Timer-based water management for scheduled water use.

6.5 Built-In Valve Maintenance

The FlowSmart All-in-One performs regular valve maintenance to ensure reliable operation. You can view or adjust the maintenance schedule within the YoLink app.

Built-In Valve Maintenance Function

The FlowSmart All-in-One performs regular valve maintenance, helping to ensure its reliable operation over time. With minimal intervention, your FlowSmart All-in-One remains in optimal condition for daily usage and emergency response.

Image 6.9: Built-in valve maintenance function ensures optimal condition.

6.6 Manual Valve Control

In situations where smart control is not suitable or available, you can manually operate the valve using the provided hex key.

- Locate the manual override port on the FlowSmart device.
- Insert the hex key and turn to open or close the valve.
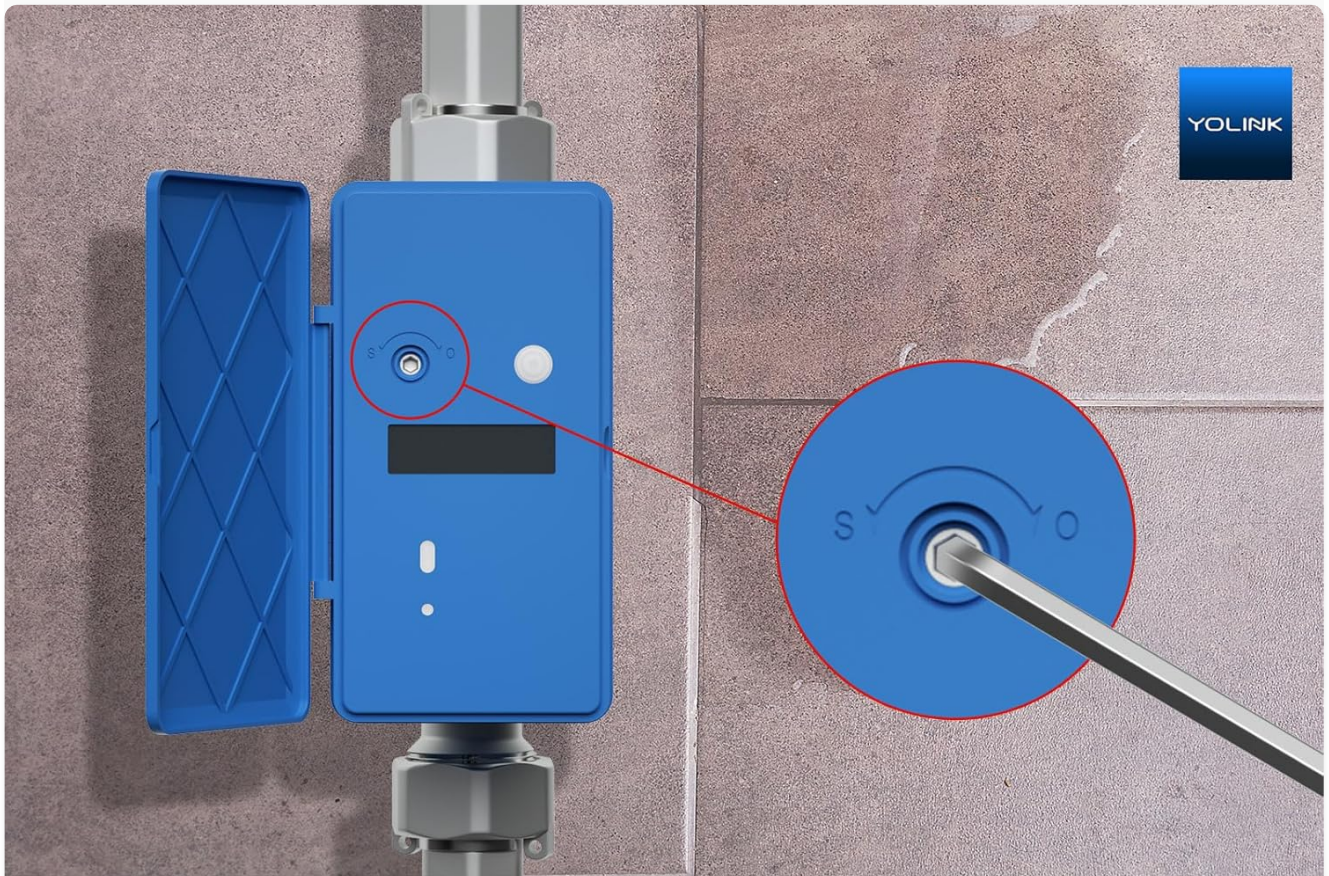
Manual Valve Control

Enjoy peace of mind with a reliable backup option for your water management system. The manual open and close feature allows you to operate the valve directly, ensuring full control and flexibility, even in situations where smart control may not be suitable or available.
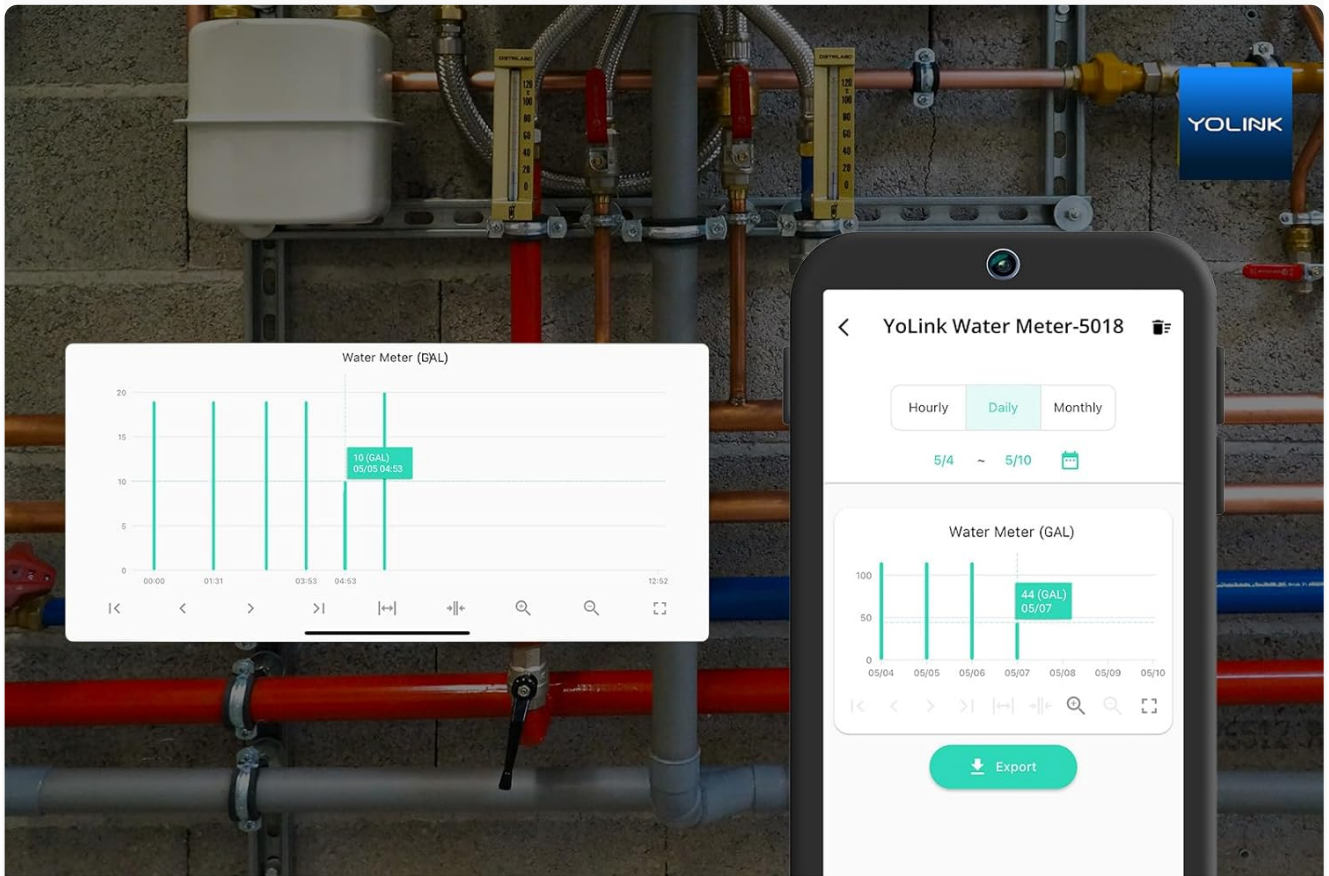
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Image 6.10: Manual valve control provides a reliable backup option.

7. ADVANCED FEATURES

7.1 Data Analysis and Export

The YoLink app allows for in-depth analysis of your water consumption data.

- View detailed charts of hourly, daily, and monthly water consumption.
- Export data for further analysis or budgeting purposes.

Advanced Data Analysis and Export Options

Utilize detailed water consumption charts to analyze usage patterns and identify potential savings. The FlowSmart All-in-One allows for easy export of data for further analysis, offering insights into your water usage that can help in making informed decisions about water management.

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Image 7.1: Advanced data analysis and export options within the YoLink app.
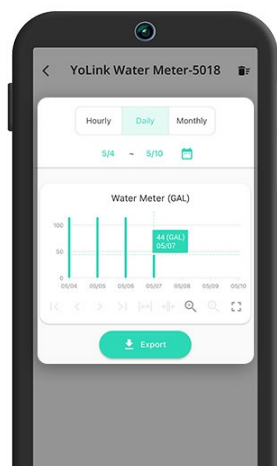
In-Depth Consumption Analytics

Dive into detailed data on your daily, monthly, and yearly water consumption. Use these insights to make informed decisions on water conservation and optimize usage based on your patterns.

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Image 7.2: In-depth consumption analytics help identify usage patterns.
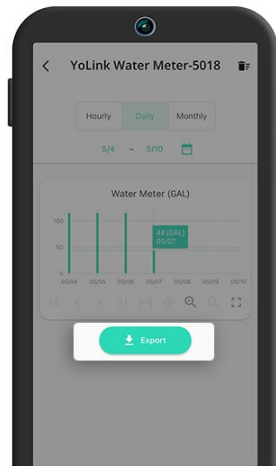
Exportable Data Reports

Effortlessly export comprehensive reports and historical data for deeper analysis or to help with household budgeting and long-term maintenance planning.

Image 7.3: Exportable data reports for comprehensive analysis.

Visual Usage Trends

View your water consumption trends through easy-to-read graphs. These visual insights help you identify patterns, optimize resource usage, and troubleshoot unusual water consumption scenarios quickly.

Image 7.4: Visual usage trends help identify patterns and troubleshoot anomalies.

7.2 Customizable Notifications

Stay informed with various alert options:

- **Phone Push Notification:** Standard notifications to your smartphone.
- **Critical Alert Push Notification:** Works even if your phone is in silent or focus mode (iOS settings may vary).
- **Email:** Receive email alerts, including custom messages.
- **SMS Text Message:** Limited number of free SMS messages each month; subscription plans available for more.
- **Device Action:** Automatically trigger other YoLink devices (e.g., siren, light) upon an alert.
- **Automated Phone Call:** Optional subscription service for automated calls with text-to-speech alerts.

Image 7.5: Customizable notifications for efficient water management.

7.3 Temperature Monitoring

The FlowSmart All-in-One provides high and low temperature alerts to protect your system from extreme conditions, helping to prevent pipe freezing or other temperature-related issues.
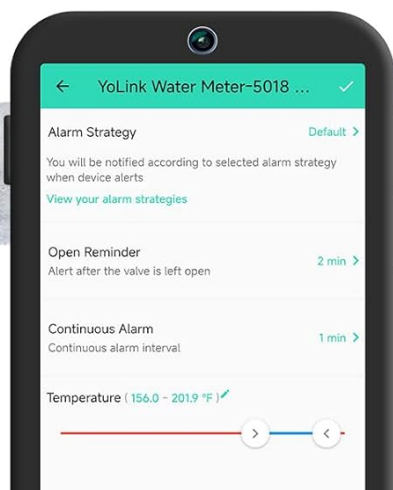
Enhanced Safety Alerts and Temperature Monitoring

Stay informed with high and low temperature alerts, ensuring your system remains protected from extreme conditions. Receive continuous alarm notifications for persistent leaks or overflow issues, allowing for a quick response to safeguard your home.
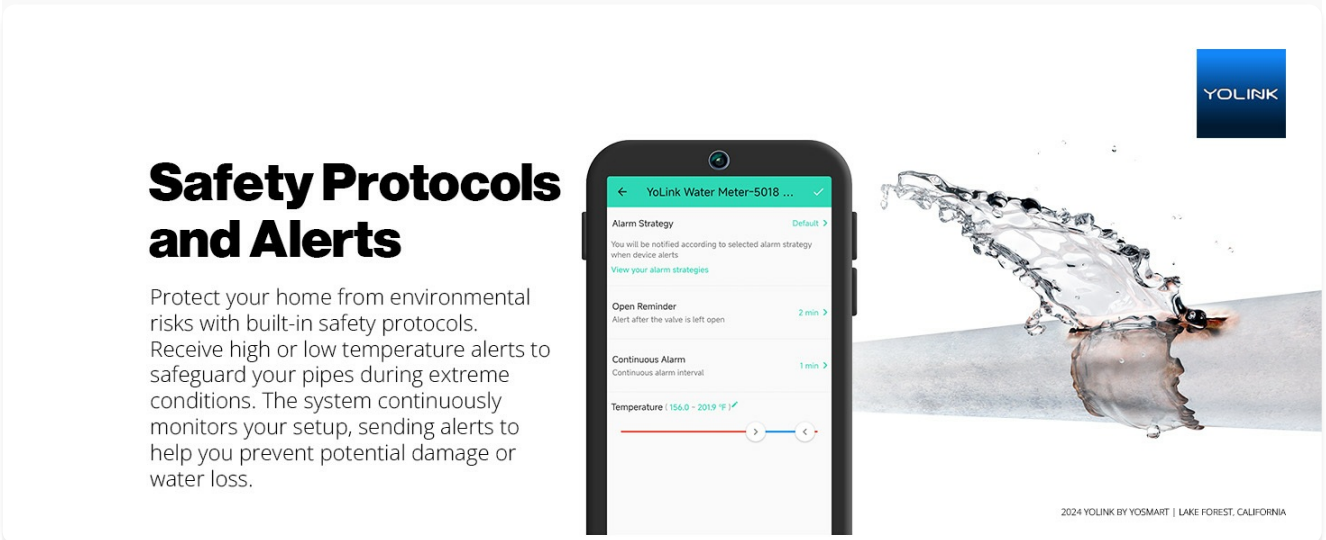
Image 7.7: Safety protocols and alerts protect your home from environmental risks.

8. MAINTENANCE

The FlowSmart All-in-One is designed for minimal maintenance. The built-in valve maintenance function helps ensure its reliable operation. Regularly check the battery status in the YoLink app. The device uses a non-rechargeable lithium battery with an expected life of up to 10 years.

Image 8.1: Extended battery life provides long-lasting, maintenance-free operation.

9. TROUBLESHOOTING

If you encounter issues with your YoLink FlowSmart device, consider the following:

- **Device Not Responding:** Check the battery level in the app. Ensure the YoLink Hub is powered on and connected to the internet.
- **No Water Flow/Valve Not Opening:** Verify the valve status in the app. Check for manual override engagement. Ensure there are no active leak alerts triggering an auto-shutoff.
- **Inaccurate Readings:** Ensure the device is installed correctly according to the flow direction.
- **No Notifications:** Check app notification settings on your phone and within the YoLink app. Ensure the Hub has a stable internet connection.

- **Hub Offline:** Check power and Ethernet cable connections to the Hub and router. Restart the Hub and router if necessary.

For further assistance, refer to the online resources or contact support.

10. SPECIFICATIONS

Feature	Specification
Model Number	YS5018-15
Pipe Size	0.5 inches
Control Method	App
Mounting Type	Tabletop Mount (for Hub), In-line (for FlowSmart device)
Sensor Technology	Flow Sensor, Pressure Sensor
UPC	810121542606
Item Weight	3.8 pounds
Product Dimensions	3.5"L x 4.7"W x 8"H
Batteries	1 Lithium Metal battery required (included)
Battery Cell Type	Lithium Metal
Voltage	3.7 Volts (DC)
Power Source	Battery Powered
Wireless Technology	LoRa (Long Range)
Wireless Range	Up to 1320 feet / 400 meters

11. WARRANTY AND SUPPORT

11.1 Expert Support

For immediate assistance with setup or operational questions, reach out to our knowledgeable support team via phone or email.
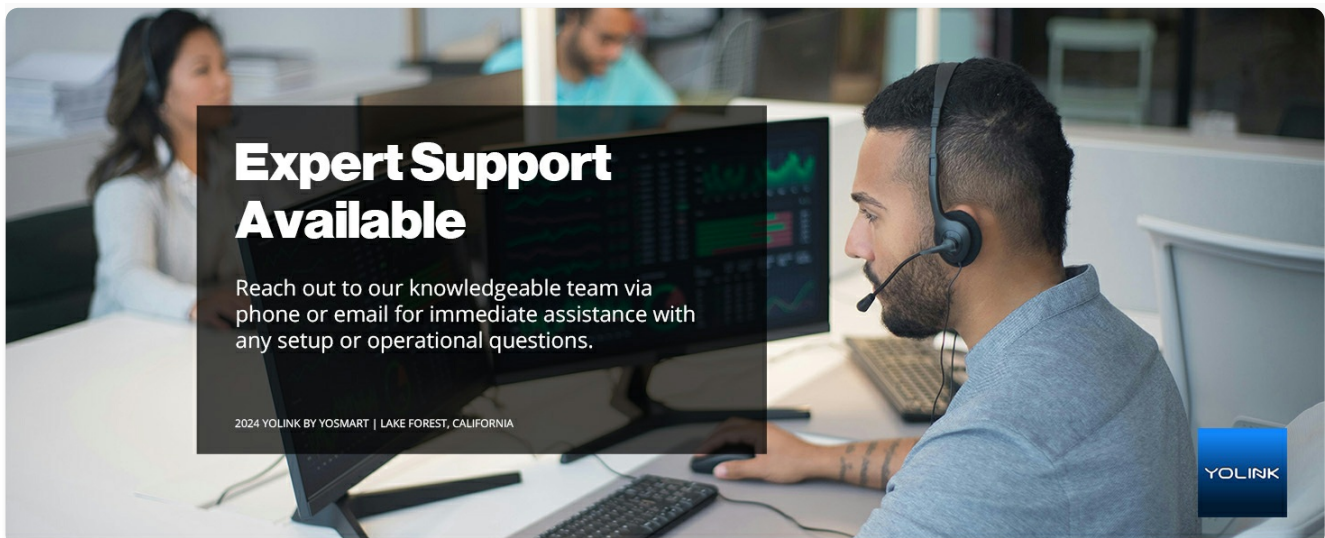
Image 11.1: Expert support is available to assist you.

11.2 Online Resources

Access detailed FAQs, troubleshooting guides, and user manuals anytime on our support site:
www.yosmart.com/support-and-service

Image 11.2: Comprehensive online resources for support.

11.3 Commercial Platform

Commercial users can utilize the tailored Raedius platform for advanced management tools and analytics. More information is available on the dedicated web console.
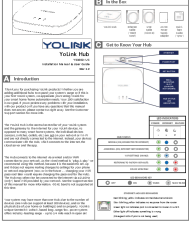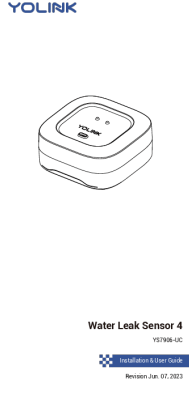
Image 11.3: Customized Raedius platform for commercial users.

Related Documents - YS5018

	[YoLink Hub YS1603-UC Quick Start Guide](#) A quick start guide for setting up the YoLink Hub (model YS1603-UC). It provides instructions for downloading the YoLink app, adding the hub, powering it on, and configuring network connections via wired Ethernet or WiFi.
	[YoLink Water Level Monitoring Sensor Quick Start Guide](#) Quick start guide for the YoLink Water Level Monitoring Sensor (YS7904-UC). Learn how to install, set up, and connect the sensor to your YoLink hub and app.
	[YoLink FlowSmart All-in-One YS5008-UC Installation and User Guide](#) Comprehensive installation and user guide for the YoLink FlowSmart All-in-One YS5008-UC, detailing setup, app integration, features, and troubleshooting.

[YoLink Hub YS1603-UC Installation Manual & User Guide](#)

This document provides a comprehensive guide for installing, setting up, and using the YoLink Hub (Model YS1603-UC). It covers connecting the hub via wired or Wi-Fi, integrating it with the YoLink app, managing firmware updates, understanding specifications, and important warnings and warranty information.

[YoLink Water Leak Sensor 4 (YS7906-UC) Installation and User Guide](#)

This comprehensive installation and user guide provides detailed instructions for setting up and using the YoLink Water Leak Sensor 4 (Model YS7906-UC). Learn about device features, app integration, control options, troubleshooting, specifications, and warranty information.

[YoLink Valve Controller 2 & Motorized Valve Quick Start Guide](#)

Quick start guide for installing and setting up the YoLink Valve Controller 2 with EVO Motorized Valve, Motorized Valve, EVO Valve Operator, and Bulldog Valve Robot for smart home automation.