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› HIRALIY HN03-Timer Irrigation Timer User Manual

## HIRALIY HN03-timer

# HIRALIY HN03-Timer Irrigation Timer User Manual

Model: HN03-timer

## 1. INTRODUCTION

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Thank you for choosing the HIRALIY HN03-Timer Irrigation Timer. This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your new device. Please read this manual carefully before use to ensure proper function and longevity of the product.

# 2-IN-1 WATER EQUIPMENT

1 Water Flow Timer = 1 Hose Timer + 1 Water Meter



The HIRALIY HN03-Timer Irrigation Timer, showing its main display and control buttons, connected to a standard garden faucet and hose.

## 2. SAFETY INFORMATION

- This device is designed for outdoor garden watering applications. Do not use it for industrial or other non-specified purposes.
- Do not immerse the entire unit in water, despite its IP65 rating. The IP65 rating protects against water jets, not continuous submersion.
- Ensure all connections are tight to prevent leaks.
- Only use 4\*AA (1.5V) Alkaline batteries. Do not mix old and new batteries or different battery types.

- Remove batteries if the unit will not be used for an extended period or during freezing temperatures.
- Keep out of reach of children.

### 3. PRODUCT OVERVIEW

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The HIRALIY HN03-Timer is a 2-in-1 irrigation timer featuring both timed watering and a built-in flow meter. It allows for precise, volume-based watering and offers multiple scheduling options.

#### Key Features:

- Volume-Based Watering (0-99,999 gallons)
- 2 Watering Cycle Modes (Every X Days / Weekday Mode)
- Up to 3 Individual Watering Schedules per day
- 4 Flow Measurement Modes (FLOW, CONSUMPTION, AVERAGE, TOTAL)
- Automatic Error Check (ERR display)
- IP65 Waterproof Rating
- Durable Brass Swivel Inlet (US 3/4" NHT)

### 4. SETUP

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#### 4.1 Battery Installation

1. Locate the battery compartment on the back of the timer.
2. Open the compartment cover.
3. Insert 4\*AA (1.5V) Alkaline batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely to maintain the waterproof seal.

#### 4.2 Connecting the Timer

1. Ensure your outdoor faucet is turned off.
2. Screw the timer's brass swivel inlet onto your US 3/4" NHT garden faucet. Hand-tighten only.
3. Connect your garden hose to the outlet of the timer. Hand-tighten only.
4. Slowly turn on your faucet. Check for any leaks.

# HIGH WATER RESISTANCE

Glue Filling Process Fully Protects Internal Circuit



IP 65



A cutaway view of the timer's internal components, demonstrating its IP65 water resistance and glue-filling process for circuit protection, ensuring durability during installation.

## 4.3 Setting the Clock

Upon initial battery installation or after a reset, you will need to set the current time.

1. Press the **SET CLOCK** button.
2. Use the **+** and **-** buttons to adjust the hour and minute.
3. Press **OK** to confirm each setting.

## 5. OPERATING INSTRUCTIONS

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## 5.1 Programming Watering Schedules (P1, P2, P3)

The timer allows for up to three independent watering plans per day (P1, P2, P3).

1. Press the **PLAN** button to cycle through P1, P2, P3.
2. For each plan, set the following:
  - **Start Time:** Use **+** and **-** to set the desired start time. Press **OK**.
  - **Watering Frequency (HOW OFTEN):** Choose between 'Every X Days' or 'Weekday Mode'.
    - **Every X Days:** Set the interval from 2 to 6 days. Press **OK**.
    - **Weekday Mode:** Select specific days (Sun-Sat) for watering. Press **OK** after selecting each day.
  - **Watering Volume (HOW MUCH):** Set the desired water volume from 0 to 99,999 gallons. Press **OK**.
- Repeat for P2 and P3 if needed.

# UP TO 3 PLANS PER DAY

Personalize Your Watering Schedule

The image displays three panels, each showing a different watering plan (P1, P2, P3) on the HIRALIY irrigation controller. Each panel includes a photo of the controller's LCD screen and a corresponding summary box with the plan's details.

Plan	Start Time	How Often	How Much
P1	6:00	SU WE FR	70gal
P2	12:00	SU WE FR	36gal
P3	19:00	SU WE FR	15gal

An example of setting up to three individual watering plans per day, each with customizable start times and watering durations/volumes.

# AUTO WATERING BY **VOLUME**

Save Trouble Calculating Watering Time



The timer's display indicating the 'HOW MUCH' setting, allowing users to program watering based on a specific volume of water in gallons.

# 2 AUTO CYCLE MODES



An illustration of the two watering cycle modes: 'Weekday Mode' for specific days of the week and 'Every X Days Mode' for interval-based watering.

## 5.2 Manual Watering

To initiate watering manually:

1. Press the **MANUAL** button.
2. Use **+** and **-** to set the desired watering duration or volume.
3. Press **OK** to start manual watering.
4. To stop manual watering, press **MANUAL** again or wait for the set duration/volume to complete.

## 5.3 Flow Measurement Modes

The built-in flow meter provides four measurement modes:

1. Press the **VIEW** button to cycle through the modes.
  - **FLOW**: Displays real-time water flow rate (e.g., GAL/min).
  - **CONSUMPTION**: Shows the water volume used during the last watering cycle.
  - **AVERAGE**: Displays the average water consumption over the last seven days.
  - **TOTAL**: Shows the total accumulated water usage since the last reset.

# WATERING FLOW METER

## Measure Flow Rate & Water Usage

**FLOW MODE**  
Real-time Water Flow Rate.

**CONSUMPTION MODE**  
Last Watering Amount.

**AVG MODE**  
Last 7 days Watering Amount.

**TOTAL MODE**  
Total Watering Amount.

The timer's screen displaying the four built-in flow measurement modes: real-time flow rate, last watering consumption, average 7-day consumption, and total water usage.

## 6. MAINTENANCE

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## 6.1 Battery Replacement

When the battery indicator on the display shows low power, replace all four AA batteries promptly to avoid interruption of watering schedules.

## 6.2 Cleaning

Wipe the exterior of the timer with a damp cloth. Do not use abrasive cleaners or solvents. Ensure the screen and buttons are free from dirt and debris for optimal visibility and function.

## 6.3 Winterization

Before the first frost, disconnect the timer from the faucet and hose. Remove the batteries. Store the timer indoors in a dry, frost-free location to prevent damage from freezing water.

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## 7. TROUBLESHOOTING

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If you encounter issues with your HIRALIY HN03-Timer, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
<b>'Err' message on display</b>	Abnormal operating condition, e.g., low water pressure, blockage, or sensor issue.	Check water pressure at the faucet. Ensure there are no kinks in the hose or blockages in the timer's inlet/outlet. Restart the timer by removing and reinserting batteries.
<b>No water flow during scheduled watering</b>	Faucet off, low battery, incorrect schedule, or blockage.	Ensure faucet is fully open. Check battery level and replace if low. Verify watering schedule settings. Check for blockages in the hose or timer.
<b>Blank or unresponsive screen</b>	Dead or low batteries, loose battery connection, or internal malfunction.	Replace batteries with fresh ones. Ensure batteries are inserted correctly. If the problem persists, contact customer support.
<b>Timer not watering for the set volume/duration</b>	Low water pressure, flow sensor issue, or incorrect setting.	Ensure adequate water pressure. <b>Note:</b> Do not use with misting cooling systems as low water pressure might cause malfunction. Verify the 'HOW MUCH' or duration setting.
<b>Leaks from connections</b>	Loose connections, missing/damaged washer.	Ensure all connections are hand-tight. Check if rubber washers are properly seated and not damaged. Replace washers if necessary.

# AUTOMATIC CHECK

Report ERR When Abnormal, Avoid Plant Wilting Or Drowning.



The timer displaying an 'Err' message, which signals an abnormal operating condition, such as low water pressure or a blockage, to prevent plant damage.

## 8. SPECIFICATIONS

- **Model:** HN03-timer
- **Power Source:** 4\*AA (1.5V) Alkaline batteries (not included)
- **Water Connection:** US 3/4" NHT Brass Swivel Inlet
- **Watering Volume Range:** 0 to 99,999 gallons
- **Water Flow Measurement Modes:** FLOW, CONSUMPTION, AVERAGE, TOTAL
- **Water Resistance:** IP65

- **Material:** Acrylonitrile Butadiene Styrene
- **Product Dimensions:** 6.1 x 7.87 x 12.95 cm
- **Measurement Tolerance:** Less than 5%
- **Human Interface Input:** Buttons

## 9. WARRANTY INFORMATION

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For warranty details, please refer to the documentation included with your purchase or visit the official HIRALIY website. Keep your proof of purchase for warranty claims.

## 10. CUSTOMER SUPPORT

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If you have any questions or require further assistance, please contact HIRALIY customer support through the contact information provided on the official website or your purchase platform.