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› **BN-LINK** /

› BN-LINK Digital Water Timer, Automatic Irrigation Timer with 6 Separate Irrigation Programs, IP65 Waterproof Garden Lawn Sprinkler Timer with Rain Sensor, Child Lock, Auto & Manual Mode

## BN-LINK B097PC1X1R

# BN-LINK Digital Water Timer Instruction Manual

Model: B097PC1X1R

## 1. INTRODUCTION

Thank you for choosing the BN-LINK Digital Water Timer. This device is designed to automate your garden watering, providing convenience and water efficiency. Featuring 6 independent irrigation programs, an intelligent rain sensor, and a child lock function, this timer ensures your plants receive optimal hydration while preventing over-watering and accidental operation. Please read this manual carefully before use to ensure proper installation and operation.

## 2. PRODUCT OVERVIEW

### 2.1 Key Features

- **6 Individual Irrigation Programs:** Set customized watering schedules with specific frequencies and durations.
- **Intelligent Rain Sensor:** Automatically pauses watering during rain to conserve water and prevent over-watering.
- **Waterproof & Durable Construction:** IP65 rated with robust materials for outdoor use.
- **Low Power Consumption:** Operates for over 6 months on 2 AA alkaline batteries (not included).
- **Child Lock Mode:** Prevents unintended changes to settings.
- **Manual Mode:** Allows immediate watering without interrupting programmed schedules.
- **Clear LCD Display:** Shows current time, program details, battery level, and operation information.

### 2.2 Components and Controls

# Function Decomposition



**Figure 2.2.1: Function Decomposition and Controls**

This diagram illustrates the various components and control buttons of the water timer, including the hose tap connection, rain sensor area, LCD display, manual watering button, control buttons (Return/Pause, OK, Plus, Minus), and watering outlet.



**Figure 2.2.2: Product Overview with Accessories**

A comprehensive view of the BN-LINK Digital Water Timer, showcasing its main body, LCD screen, control panel, and the included connection accessories for versatile installation.



Figure 2.2.3: Product Dimensions

This image provides the physical dimensions of the water timer, indicating its height (17.9cm), width (14.1cm), and depth (6.8cm) for installation planning.

## 3. SETUP

### 3.1 Battery Installation

1. Locate the battery compartment on the back of the timer.
2. Slide the battery cover downwards to open.
3. Insert two 1.5V AA alkaline batteries (not included), ensuring correct polarity (+/-).
4. Close the battery cover securely until it clicks into place.



**Figure 3.1.1: Battery Compartment Location**

The rear view of the timer clearly shows the battery compartment, indicating where to insert the two AA alkaline batteries.



**Figure 3.1.2: Battery Insertion**

A detailed view of the battery compartment with batteries ready to be inserted, demonstrating the proper orientation.

## 3.2 Connecting the Timer

1. Ensure the timer is off or in standby mode.
2. Screw the timer onto your outdoor faucet (tap) securely. Hand-tighten only.
3. Connect your garden hose to the outlet at the bottom of the timer. Ensure a tight connection to prevent leaks.
4. Turn on your faucet fully. The timer will control the water flow.

## 4. OPERATING INSTRUCTIONS

### 4.1 Setting Current Time

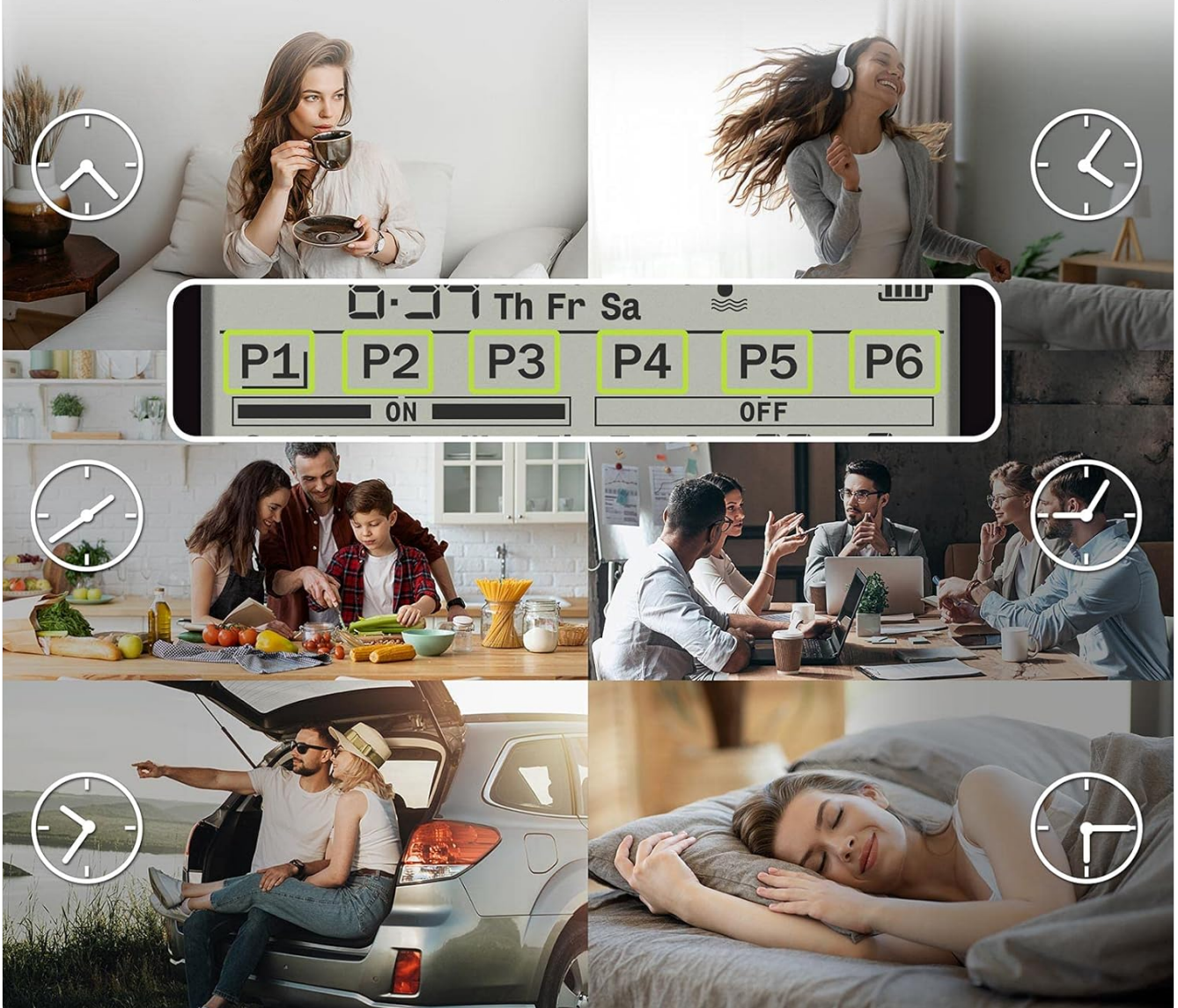
1. Press the **OK** button to enter the time setting mode. The hour digit will flash.
2. Use the **+** and **-** buttons to adjust the hour.
3. Press **OK** to confirm the hour and move to minutes.
4. Adjust minutes using **+** and **-**.
5. Press **OK** to confirm minutes and move to the day of the week.
6. Adjust the day of the week (Su, Mo, Tu, We, Th, Fr, Sa) using **+** and **-**.
7. Press **OK** to save the current time and exit setting mode.

### 4.2 Programming Irrigation Schedules (P1-P6)

The timer supports 6 independent programs (P1 to P6), allowing for flexible watering schedules.

# 6 Individual Auto Watering Programs

Simply set up 6 different programs individually, enjoy free life!



**Figure 4.2.1: 6 Individual Auto Watering Programs**

This image highlights the timer's capability to manage up to six distinct watering schedules, offering great flexibility for different plant needs or garden zones.

# Various Irrigation Modes

Different customized cycle meet all needs

## MANUAL MODE

### HOW LONG

0s 99m59s

## WEEKDAYS MODE

Su/Mo/Tu/We/Th/Fr/Sa

### HOW LONG

0s 99m59s

## SINGLE CYCLE MODE

### HOW OFTEN

1h / 2h / 3h / 4h / ... / 23hours

1d / 2d / 3d / 4d / ... / 9days

### HOW LONG

0s 99m59s



Figure 4.2.2: Various Irrigation Modes

This graphic details the different programming options available, including manual watering, weekday-specific schedules, and single-cycle modes with adjustable frequency and duration.

1. Press the **P|** button repeatedly to cycle through programs P1 to P6.
2. Once the desired program (e.g., P1) is selected, press **OK** to enter its settings.
3. **Set Start Time:** The 'START TIME' will flash. Use **+** and **-** to set the desired start time (in 24-hour format). Press **OK** to confirm.
4. **Set Watering Duration:** The 'HOW LONG' (minutes/seconds) will flash. Use **+** and **-** to set the duration (from 1 second to 99 minutes 59 seconds). Press **OK** to confirm.
5. **Set Watering Frequency:** The day/interval setting will flash. Choose between:
  - **Week Cycle Mode:** Select specific days of the week (Su, Mo, Tu, We, Th, Fr, Sa) for watering. Use **+** and **-** to toggle days ON/OFF.
  - **Day Cycle Mode:** Set intervals from every 1 hour to every 15 days. Use **+** and **-** to adjust the interval.

Press **OK** to confirm.

6. Repeat for other programs (P2-P6) as needed.

## 4.3 Manual Watering Mode

To water immediately without affecting your programmed schedules:

1. Press the **Manual Watering** button (faucet icon).
2. The 'HOW LONG' duration will flash. Use **+** and **-** to set the desired manual watering duration (from 1 second to 99 minutes 59 seconds).
3. Press **OK** to start manual watering. The timer will begin watering immediately for the set duration.
4. To stop manual watering prematurely, press the **Return/Pause** button.



**Figure 4.3.1: Manual Watering Button**

This image shows the dedicated button for initiating manual watering, allowing for immediate water flow outside of programmed schedules.

## 4.4 Rain Sensor Function

The built-in rain sensor automatically detects rainfall and pauses programmed watering to prevent over-watering and save water. Once the sensor dries, the timer will resume its schedule.

# Upgraded Rain Sensor Technology

Avoid overwatering by automatically canceling irrigation schedule during rain



Figure 4.4.1: Upgraded Rain Sensor Technology

This image highlights the location of the rain sensor on the top of the timer, which intelligently detects rainfall to automatically adjust watering schedules.



Figure 4.4.2: Rain Sensor in Action (Sunny vs. Rainy)

This comparison illustrates how the rain sensor automatically turns off the timer during rain, preventing unnecessary watering and

conserving water.

## 4.5 Child Lock Feature

The child lock prevents accidental changes to settings or unintended activation by children or pets.

1. To activate Child Lock: Hold the **P|⊗** and **-** buttons simultaneously for 3 seconds. A lock icon will appear on the display.
2. To deactivate Child Lock: Hold the **P|⊗** and **-** buttons simultaneously for 3 seconds. The lock icon will disappear.



Figure 4.5.1: Safe Child Lock

This image points out the child lock icon on the timer's screen and the specific button combination required to engage or disengage this safety feature.

## 5. MAINTENANCE

### 5.1 Cleaning

- Regularly check the filter washer inside the inlet connection for debris. Clean if necessary.
- Wipe the exterior of the timer with a soft, damp cloth. Do not use abrasive cleaners or solvents.

## 5.2 Winter Storage

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

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Timer not turning on/display blank	Low or dead batteries; Incorrect battery installation.	Replace with new 1.5V AA alkaline batteries; Ensure correct polarity.
No water flow at scheduled time	Faucet is off; Low water pressure; Program not set correctly; Rain sensor active; Child lock active.	Ensure faucet is fully open; Check water supply; Verify program settings (start time, duration, frequency); Check rain sensor for moisture; Deactivate child lock.
Water leaking from connections	Loose connections; Missing or damaged washer; Damaged hose/faucet threads.	Tighten connections; Ensure rubber washer is properly seated in the inlet; Replace washer if damaged; Check hose/faucet for damage.
Timer continuously watering	Valve stuck open; Manual mode activated and not turned off.	Try pressing the Return/Pause button; If issue persists, contact customer support.
Rain sensor not working	Sensor dirty or obstructed; Extreme cold affecting sensor.	Clean the sensor area; Ensure timer is not exposed to freezing temperatures.

## 7. SPECIFICATIONS

Attribute	Value
Brand	BN-LINK
Model	B097PC1X1R
Colour	Black
Material	Plastic
Product Dimensions	6.8 x 14.1 x 17.9 cm
Item Weight	510 g
Power Source	2 x 1.5V AA Alkaline Batteries (Not Included)
Waterproof Rating	IP65
Max Water Pressure	10 kg

## 8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact BN-LINK customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.