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### Jebao DP-4

# Jebao DP-4 Programmable Auto Dosing Pump Instruction Manual

Model: **DP-4** | Brand: **Jebao**

## 1. INTRODUCTION

The Jebao DP-4 is a programmable auto dosing pump designed for precise and consistent liquid dispensing in aquatic environments. This unit features four independent dosing heads, allowing users to maintain stable tank parameters by automating the addition of various solutions. The controller offers advanced programming capabilities for individual pumps, making it suitable for a wide range of dosing requirements.



Figure 1: Top view of the Jebao DP-4 Auto Dosing Pump, showing the display and control buttons.

## 2. PACKAGE CONTENTS

Upon opening the package, ensure all components are present:

- Jebao DP-4 Auto Dosing Pump Unit
- Power Supply (110V to 240V 50/60Hz)
- Soft Tubing (4 tubes fixture)
- User Manual

Note: A 100ml graduated cylinder or measuring cup is required for calibration and is not included.



Figure 2: The Jebao DP-4 Dosing Pump, power adapter, and a diagram of the pump mechanism.

## 3. SETUP INSTRUCTIONS

1. **Placement:** Position the dosing pump in a dry, stable location near your aquarium or sump. Ensure adequate ventilation and avoid areas prone to splashes.
2. **Connect Tubing:** Connect the provided soft tubing to each of the four dosing heads on the front of the unit. Ensure secure connections to prevent leaks. The other ends of the tubing should be placed into your solution containers and directed to your aquarium or sump.
3. **Connect Power:** Plug the power supply into the dosing pump unit and then into a suitable electrical outlet (110V to 240V 50/60Hz). The unit's display should illuminate.
4. **Initial Calibration:** Before programming, calibrate each pump for accurate dosing. This typically involves dispensing a known volume (e.g., 100ml) into a graduated cylinder and adjusting the pump's settings until the dispensed volume matches the target. Refer to the 'Operating Instructions' section for detailed calibration steps.



Figure 3: Front view of the Jebao DP-4 Auto Dosing Pump, highlighting the four dosing heads and indicator lights.

## 4. OPERATING INSTRUCTIONS

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The DP-4 controller is designed for straightforward programming. Each of the four pumps can be programmed individually.

1. **Set Date and Time:** Access the system settings to set the current date and time. Accurate timekeeping is crucial for precise dosing schedules.
2. **Select Pump:** Use the navigation buttons on the controller to select the desired pump (P1, P2, P3, or P4) for programming.
3. **Set Dosing Volume:** For each selected pump, specify the total volume of solution to be dispensed per day. The unit allows for volumes from 1ml to 9999ml.
4. **Set Dosing Frequency:** Program how many times per day the solution should be dispensed. The pump can be set to dose up to 24 times daily.
5. **Set Dosing Intervals:** Define the specific times or intervals at which the daily volume will be distributed. This allows for stable parameter maintenance throughout the day.
6. **Save Settings:** After configuring each pump, ensure you save the settings to activate the dosing schedule.

## 5. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your Jebao DP-4 Dosing Pump.

- **Tubing Inspection:** Periodically inspect all tubing for kinks, blockages, or signs of wear. Replace tubing as necessary to prevent dosing inaccuracies or leaks.
- **Pump Head Cleaning:** If dosing solutions that may leave residue, periodically clean the pump heads according to manufacturer recommendations to ensure smooth operation.
- **Power Connection:** Ensure the power connection remains secure. A loose connection can lead to power interruptions and reset the unit's schedule.

## 6. TROUBLESHOOTING

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Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Pump does not dispense liquid.	Incorrect programming, clogged tubing, air in line, or pump head malfunction.	Verify programming settings. Check tubing for blockages or air. Ensure solution containers are not empty. Manually prime the pump if necessary.
Pump loses time/schedule after power off.	Internal memory battery issue or poor battery contact.	Check the internal memory battery and its contacts. If accessible and comfortable, ensure contacts are not bent out of shape. Replacement of the battery may be required.
Liquid flows back down the tubing.	Pump head not sealing properly or tubing not securely connected.	Inspect pump heads for wear or damage. Ensure tubing is firmly seated in the pump heads and connections.
Inaccurate dosing volume.	Improper calibration or tubing issues.	Recalibrate the pump using a 100ml graduated cylinder. Ensure tubing length and diameter are consistent with calibration setup.

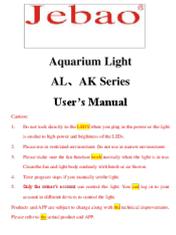
## 7. SPECIFICATIONS

Feature	Detail
Model	DP-4
Channels	4 Dosing Heads
Dosing Volume per Channel	1 to 9999 ml per day
Dosing Frequency	Up to 24 times per day
Power Input	110V to 240V, 50/60Hz
Maximum Flow Rate	70 Liters Per Minute (Q max)
Product Dimensions (L x W x H)	5.11" x 2.55" x 9.25"
Item Weight	2 Pounds
Material	Metal
Color	Black

## 8. WARRANTY AND SUPPORT

The Jebao DP-4 Dosing Pump comes with a **6-month warranty** that covers replacement of any parts that fail due to manufacturing errors. For technical support or warranty claims, please contact your retailer or the manufacturer directly. Keep your proof of purchase for warranty validation.

**Related Documents - DP-4**

 <p><b>Jebao</b> Smart Wave Maker USER'S MANUAL</p> <p><b>WARNING</b></p> <ol style="list-style-type: none"> <li>1. Please refer to the manual for the pump model.</li> <li>2. Please refer to the manual for the pump model.</li> <li>3. Please refer to the manual for the pump model.</li> <li>4. Please refer to the manual for the pump model.</li> <li>5. Please refer to the manual for the pump model.</li> </ol> <p>MCP, MLW, MOW SERIES</p>	<p><a href="#">Jebao Smart Wave Maker User Manual - Setup, Operation, and Troubleshooting</a></p> <p>Comprehensive user manual for the Jebao Smart Wave Maker (MCP, MLW, MOW SERIES), covering installation, features, app control via Jebao Aqua, various wave modes, troubleshooting, and maintenance. Learn how to set up and operate your Jebao wave maker for optimal aquarium conditions.</p>
 <p><b>Jebao</b> Cross-Flow Wave Pump USER'S MANUAL</p>	<p><a href="#">Jebao Cross-Flow Wave Pump User Manual: CP-90, CP-120, CP-150</a></p> <p>User manual for Jebao Cross-Flow Wave pumps, models CP-90, CP-120, and CP-150. Includes safety instructions, assembly guidance, controller operation, maintenance, and technical specifications.</p>
 <p><b>Jebao</b> Aquarium Light AL, AK Series User's Manual</p> <p><b>Caution</b></p> <ol style="list-style-type: none"> <li>1. Do not look directly at the LED light when you plug in the power or the light is on. It may cause eye damage.</li> <li>2. Please do not touch the light when it is on. It may cause electric shock.</li> <li>3. Please do not touch the light when it is on. It may cause electric shock.</li> <li>4. Please do not touch the light when it is on. It may cause electric shock.</li> <li>5. Please do not touch the light when it is on. It may cause electric shock.</li> </ol> <p>Product and APP are subject to change without notice. Please refer to the manual for the latest information.</p>	<p><a href="#">Jebao AL &amp; AK Series Aquarium Light User Manual - Setup, Features, and App Control</a></p> <p>Comprehensive user manual for Jebao AL and AK Series aquarium lights. Covers product introduction, specifications, installation, Wi-Fi setup, app download and control, modes, and troubleshooting.</p>
 <p><b>Jebao</b> UV Fountain Pump User Manual</p>	<p><a href="#">Jebao UV Fountain Pump User Manual</a></p> <p>User manual for Jebao UFP-1000 and UFP-2000 UV fountain pumps, detailing installation, maintenance, troubleshooting, and safety instructions.</p>
 <p><b>Jebao</b> MDC Pumpen Bedienungsanleitung</p> <p>MCD-2000, MDC-3500, MDC-5000, MDC-6000, MDC-8000, MDC-10000</p> 	<p><a href="#">Jebao MDC Series Aquarium Pumps User Manual</a></p> <p>User manual for Jebao MDC series aquarium pumps, detailing features, safety instructions, installation, operation, and technical specifications. Includes models MDC-2000 to MDC-10000.</p>
 <p><b>Jebao</b> DC Pump User Manual</p>	<p><a href="#">Jebao DC Pump User Manual - DCP Series</a></p> <p>Comprehensive user manual for Jebao DC Pumps (DCP-2500 to DCP-20000), covering features, operation, maintenance, and troubleshooting.</p>