



## Dosing Pump Manual (Translate by Fish-Street.com)

Model: BM—T01

Transformer: I/P: AC 100-240V 50-60Hz 0.36A O/P: DC 12V 1A

Accuracy : Better than  $\pm 5\%$

Size: 235x160x70mm (Not Include Power Supply)

BM-T01 Dosing pump control box contains three Dosing pump head, the flow of each pump head, add the number can be noted in the user needs to be adjusted within the specified range. (Each pump head Flow range day 1-1999ml, can be divided into 24 times a day) In addition, BM-T01 are two sets of extensions, extensions from the BM-T02 expansion unit (sold separately) to achieve, Each expansion unit each of four Dosing pump head, the whole product can be controlled up to 11 pump head to operate independently.

Thank you for your BUBBLE-MAGUS product support, please carefully read the instructions before use

BM-T01 Packing List

No	Name	Quantity	Remark
1	Dosing Pump Control Box	1PCS	3 Head 3 Hose Tube
2	Power Supply	1PCS	
3	User Manual	1PCS	
4	PVC Pipe	3M	
5	Hose Connector	6PCS	
6	BM Control Box Bracket	1PCS	
7	Hose Dosing Tube (Only Free in Fish-street.com)	1PCS	

### Install

1. Put the Dosing Pump control box placed in the right position, demands placed on a smooth, not placed in the hot and humid environment,

Short-circuit on the control box to avoid moisture damage.

2. In the pump head were connected to the hose on both sides of the hose connectors, hose connectors draw a line on the PVC transparent pipe, according to the direction of liquid flow in the left (the face of pump head) to add a liquid placed in the right one set to be added fluids.

3. Connected to the power supply

Bubble-Magus  
00:00:00

After power up the screen at right will show the initial state, the clock to 00:00:00

### Clock Set:

In the initial state, press ESC key, then press the UP or DOWN button until the screen display SETUP CLOCK, press the ENTER key to enter the clock setting mode. Press the UP or DOWN keys on the flashing of the clock numbers

To adjust, press the ENTER key to confirm and proceed to the next one digital set.

To complete the final fine tuning a number of press ENTER exit the clock adjustment status.

SetClock  
10:00

Manual control mode:

MANUAL  
CONTORL

In the initial state, press ESC key, the screen will show MANUAL CONTORL

And then press ENTER. Can enter the pump flow of quantitative status of manual adjustment.

The screen will show PUMP01, press the UP or DOWN button, the screen

will show

PUMP01-PUMP11, this product can be up to 11 pumps for manual adjustment.

Users select the right pump head require adjustment press the ENTER key, the liquid will flow

Release the button to stop the water pump head, press ESC key to exit the manual control mode.

(BM-T01 dosing pumps with a BM-T02, without expanding the case of quantitative pump can only PUMP01, PUMP02, PUMP03

For manual adjustment)

Program control mode:

In the initial state, press ESC key, then press the UP or DOWN key, Until the screen display SETUP PROGRAM

ml/DAY  
P 1:0000

Press the ENTER key will display SETUP P 1-3, this time the system entered the The first group of three pump head to set the state.

1. Set to add the total:

Press the ENTER key, the screen will show SETUP PUMP 1, (press UP or DOWN key to select Set PUMP2 or PUMP3)

And then click the ENTER key,

Screen display, such as at right, the user can set up PUMP1 daily amount of liquid added (Which can set the range of 1 ~ 1999ml).

At this point:

P 1:0000's first 0 starts flashing, press the UP or DOWN keys can be used for 0-1 adjustment, press ENTER key to enter the next one digital regulator

P 1:0000 for the second 0 starts flashing, press the UP or DOWN keys can be used for 0-9 adjustment, press ENTER, and then proceed to the next a number of adjustments.

The third and fourth adjustment method Ibid.

Is set after PUMP1 per day (24 hours), add the liquid volume is confirmed. (If set to P 1:0888 says that in the next 24 hours PUMP1 will add 888ml of the solution to the cylinder.)

c2. Add a number of settings:

CYCL/DAY  
P 1 8

Press the ENTER key, the screen will show CYCL / DAY P1 8 shows values that the user is located

A good flow to the day (24 hours) within 8 minutes to add.

Press the UP or DOWN key to change the number to add. Within the framework of the system allows users noted in the need for setting.

(The system provides a solution for larger flow of up to 24 points can be set to add, less traffic is set to 1 to add, the specific flow and allows you to add the number of the attached tables)

With the above Icon Description: The user has set a day to add 888ml, added 8 points. Shall be added once every 3 hours, every time you add 111ml specify the solution

START:  
00:00

### 3. Set Start Time:

Press the ENTER key, the screen will show START: 00:00

The first two digits start flashing, press the UP or DOWN key to adjust the first two digits until the

Screen display for the user and add the required time (setting range 00 ~ 23). After determining a good

Press the ENTER key, the screen will show Saving ... said the operation had been stored for more than good, the settings take effect.

(Add a solution in order to avoid dosing pumps interfere with each other, the system provides for the start time can only be set when the clock can not set the minutes, the system will automatically turn the pump settings for each 5-minute intervals, for example, all three pumps can be set to 01:00 start, PUMP1 the actual start time of 01:00; PUMP2 actual start time of 01:05; PUMP3 on the 1:10)

Above method can PUMP2, PUMP3 set accordingly and finally to press the ENTER key, when the screen appeared Saving ...

Your set will only take effect automatically added to program

Everything is set up after the last press the ESC key to exit setting status display bubble-magus logo and the current clock to complete the set.

This product has a data protection feature, when encountered in a long power outage recovery after power-up again, even if the initial state of the clock reply, but the traffic prior to the setting will be retained, only the controller's clock back the current time can be according to the last set to work.

In the set-up process To modify the settings, press ESC to return to the previous menu level.

### Expansion unit configuration: (BM-T02)

If users BM-T02 extended pump, please use the paper cutter to BM-T01 on the panel behind the hole GROUP B interface position by dotted lines removed, exposing expansion interface socket, using BM-T02 comes with the wiring socket and BM-T02 of the INPUT socket connection. At this point program control mode is set to the menu will be displayed "SETUP P 4-7", increasing the quantitative expansion of four pump head of the control functions. If the other group BM-T02 Access GROUP C interface, the menu will show "SETUP P 8-11", the system of quantitative expansion of four additional pump head control, extended pump control setting method and BM-T01 set set the same way.

### BM-T01 Dosing Pump

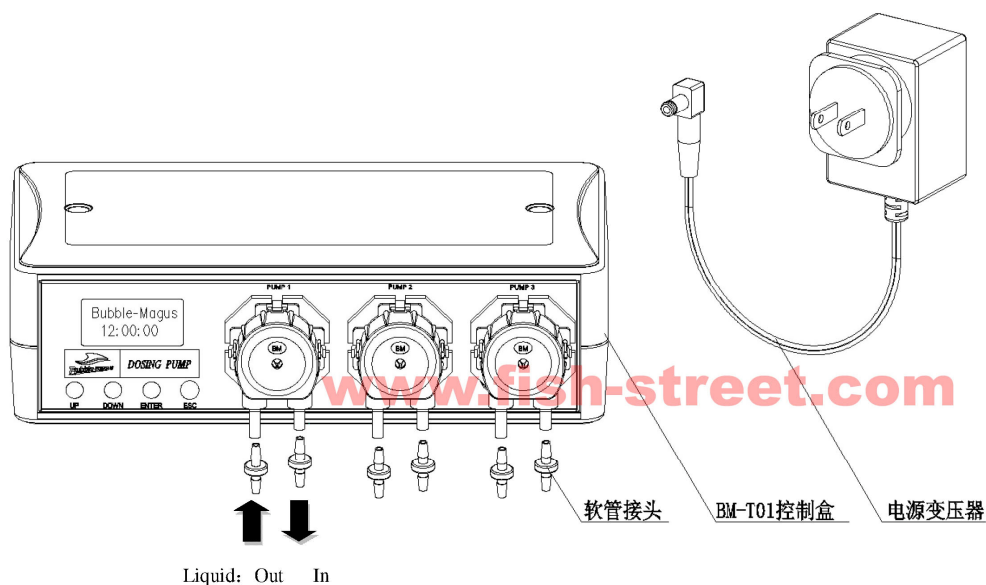


Table: Quantitative pump flow and allows you to add the number of

Dosing Rate (ml)	Dosing per day / ml
1	1, 2
2	1, 2, 3, 4
3	1, 2, 3, 4, 6
4, 5	1, 2, 3, 4, 6, 8
6-11	1, 2, 3, 4, 6, 8, 12
12-160	1, 2, 3, 4, 6, 8, 12, 24
161-319	2, 3, 4, 6, 8, 12, 24
320-479	3, 4, 6, 8, 12, 24
480-639	4, 6, 8, 12, 24
640-959	6, 8, 12, 24
960-1279	8, 12, 24
1280-1919	12, 24
1920-1999	24

**Note:**

The product as to the quantity to add aquarium additives within the aquarium products to use, not to be used for other purposes, not for adding strong acid or alkali volatile solvents.

Do not place this product moist environment.

Temperature changes or mechanical wear and tear, may cause increased titration error. The continuous improvement of products, technologies subject to change without prior notice.