

微電腦自動加液器

CS072A-4

MICOM LIQUID FEEDER

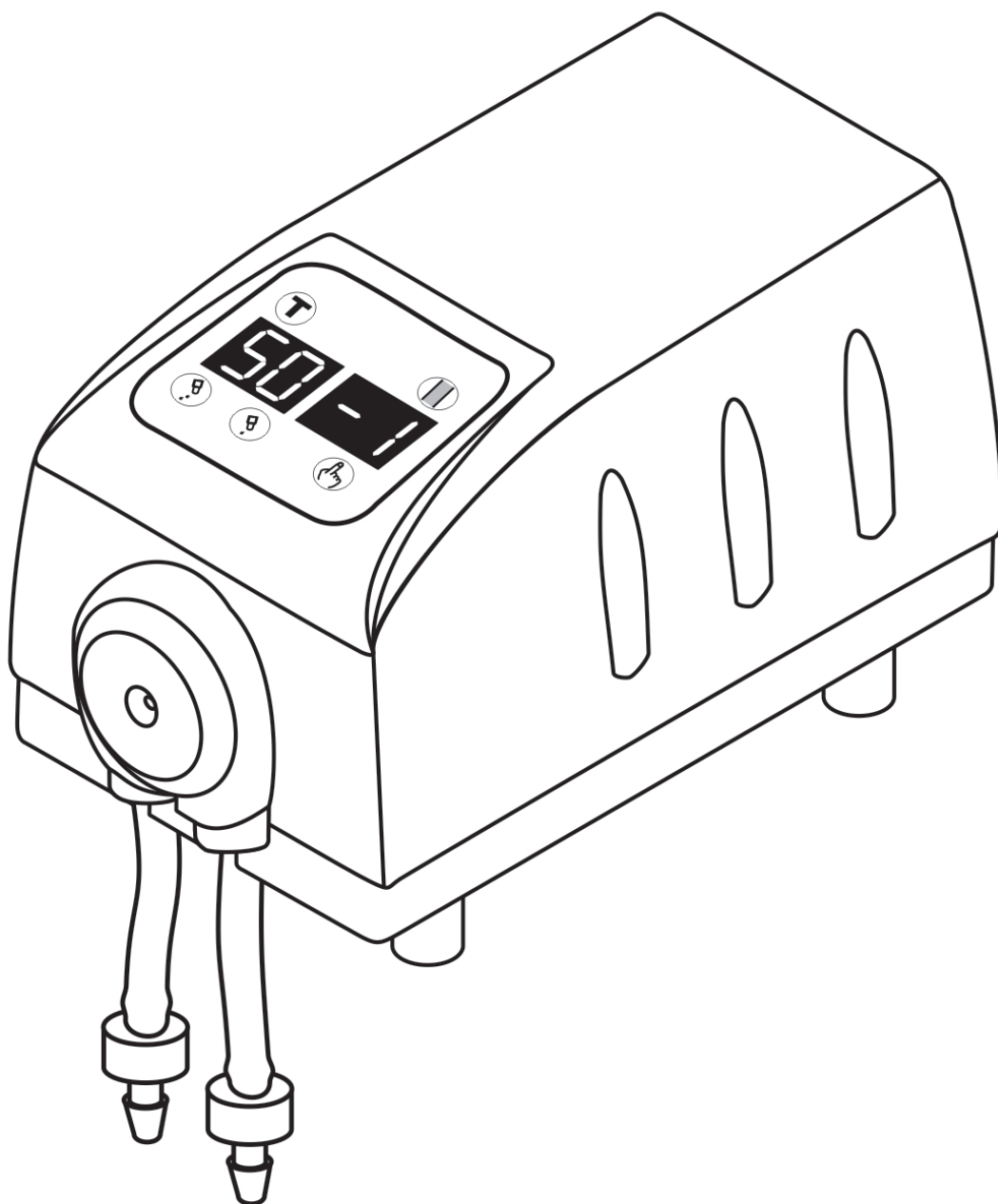
說明書/保證書
DIRECTIONS/GUARANTEED

特點

- 1.微電腦控制，操作最簡便。
- 2.連續滴落給料。
- 3.液量 1 ml/分 ~ 50ml/分。
- 4.LED字幕，顯而易見。

Features

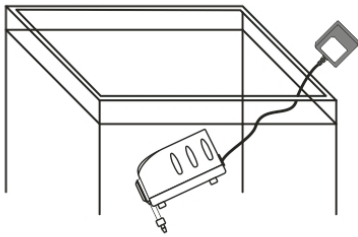
1. Micro-computer single-chip controlled ,simply operate.
2. Dose dosage continuously
3. 1 ml/minute to 50 ml/minute dosage as set.
4. Bright LED display, easily visible.



親愛的客戶：
感謝您購買本產品，為安全使用和取得最佳性能，請詳細閱讀下列說明：

Dear customer:
We appreciate you purchase this product, in order to ensure your safety and gain the perfect functions, please read the following illustration.

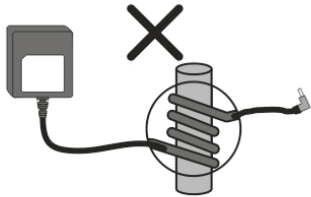
注意事項



- 勿使本體落入水中，以免電子零件受損以致短路。

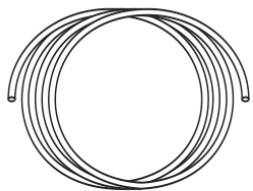


- 避免電源供應器的電線受到刮傷凹折，尤其是電線尾端針頭處。

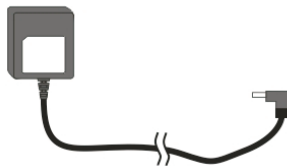


- 請勿將電源供應器的電線纏繞在其他物體上。

附件



- 橡膠管 - 3米。
內徑：2.6毫米，
外徑：4.9毫米。



- 電源供應器 - 1組。
輸入：詳見標示貼紙，
輸出：dc 12V 1000mA。



- 信號線 - 1組。

CAUTION

- Avoid the main-body falling into the water, don't risk the electronic components causing a short circuit.
- Avoid switching power supply being scraped and concaved, especially the pinpoint on the end of wire.
- Don't tie switching power supply on other articles.

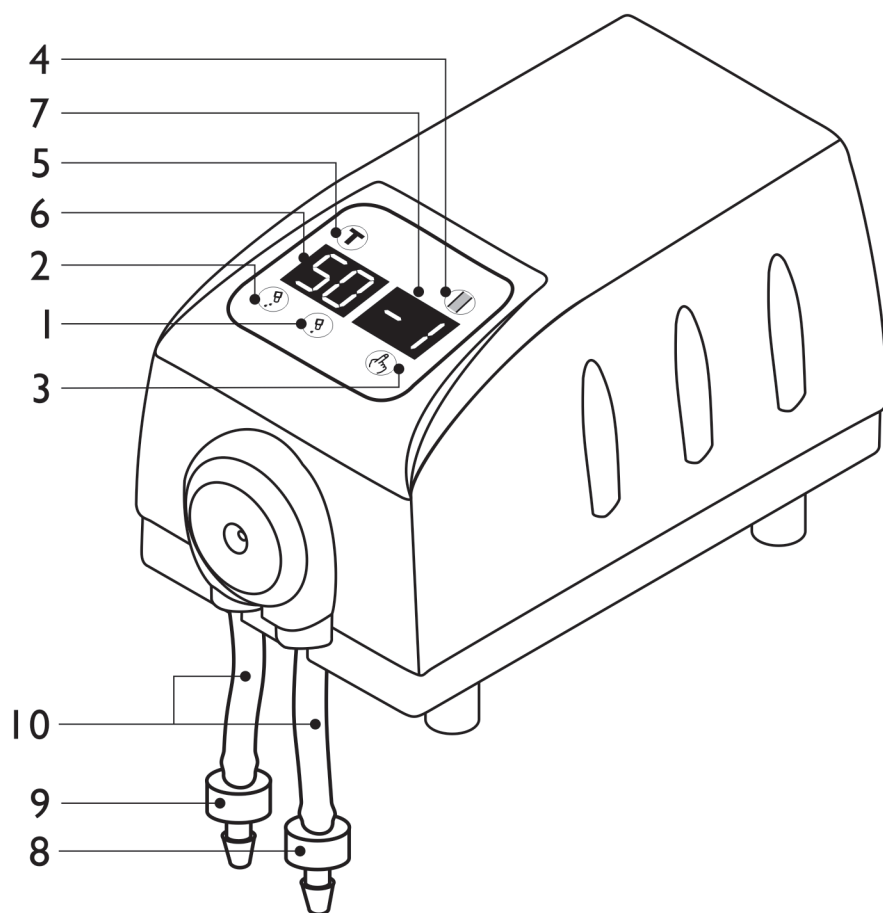
ACCESSORIES

- Rubber hose - 3m.
Inside diameter: 2.6mm,
outside diameter: 4.9mm.
- Switching power supply - 1 set.
Input: Look at a mark label,
Output: dc 12V 1000mA.
- A signal wire - 1 set.



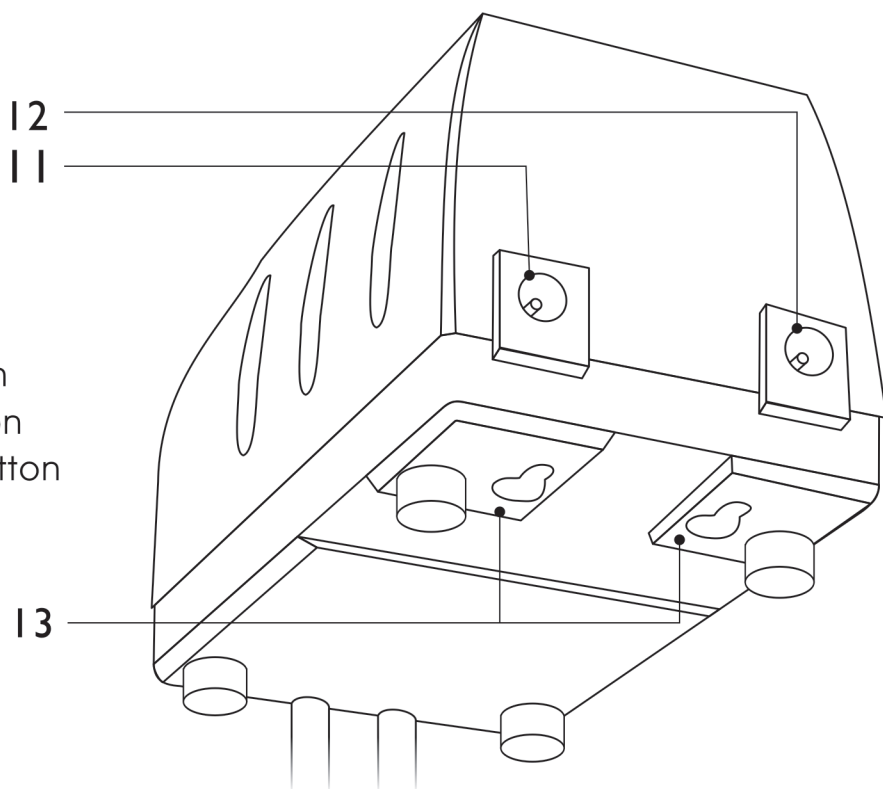
各部名稱簡介

- 1.流速慢設定鍵
- 2.流速快設定鍵
- 3.模擬信號感應鍵
- 4.橡膠管強迫佈滿流體與排氣鍵
- 5.運作模式選擇鍵
- 6.流速顯示器
- 7.運作模式顯示器
- 8.液體進料塑膠接頭
- 9.液體出料塑膠接頭
- 10.橡膠管
- 11.dc 12V電源插座
- 12.信號線插座
- 13.懸吊口 X 2



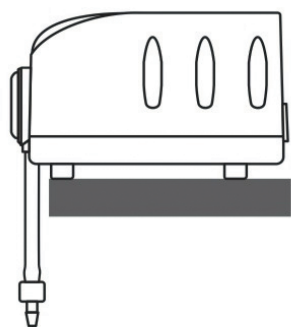
PARTS NAMES

- 1.Flow rate slow setting button
- 2.Flow rate fast setting button
- 3.Imitate a signal sensing button
- 4.Full of liquid & put air out button
- 5.Operation mode selecting button
- 6.Flow rate display
- 7.Operation mode display
- 8.Liquid entrance connector
- 9.Liquid exit connector
- 10.Rubber hose
- 11.dc 12V jack
- 12.A signal wire jack
- 13.Suspensible hole X 2



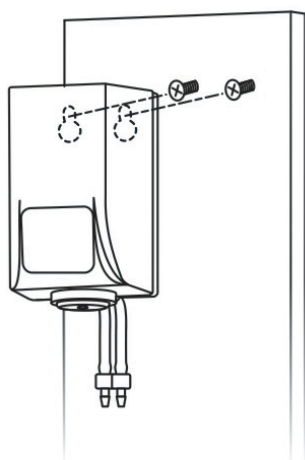
安裝方式

INSTALLATION



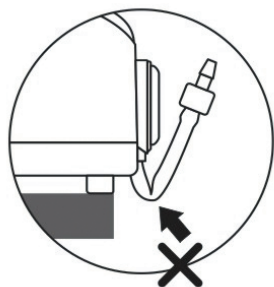
- 平放於桌面上。

- Put on the table.



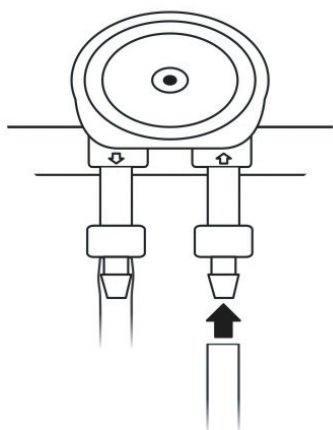
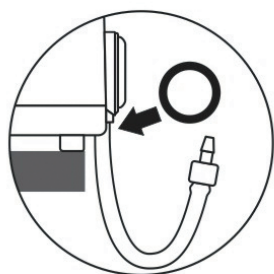
- 懸掛於牆上。
將本體背部的懸吊口
掛在釘子上。

- Suspend on the wall.
Hang suspensible hole at the
rear of main body on the nail.



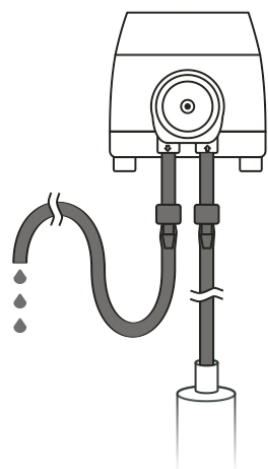
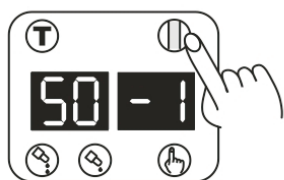
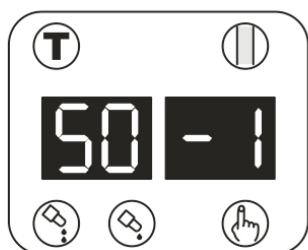
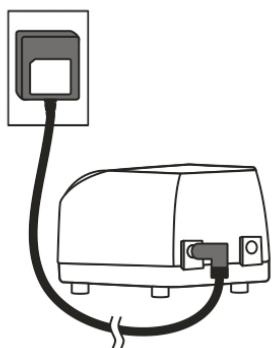
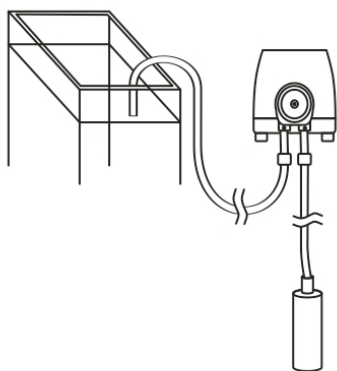
- 橡膠管避免凹折，否
則會阻塞液體流動。

- Avoid rubber hose being bent
as a concave, otherwise it will
block up the flowing liquid.



- 將橡膠管套入塑膠接
頭。
注意：右進左出。

- Put the rubber hose onto
connector.
Attention: the right-in,
the left-out.



- 將右側橡膠管插入液體容器內(揚程約1.5米)，左邊橡膠管放入缸中(揚程約1.5米)。

電源操作

- 電源供應器插入ac電壓插座，輸出端插入dc 12V插座。

- 數值 **50 - 1** 代表微電腦記憶前次的設定數值。表示運作模式選擇 **- 1** 且流速設定為 **50**。

設定鍵操作

- 欲管內強迫佈滿流體與排氣，請持續按 **1** 鍵。

- 將管內氣體排出，使左右兩邊橡膠管佈滿液體後才離開按鍵。

注意：補充新液換新瓶時，此道程序必做。

- Insert the right side hose into the vessel (Head around 1.5 meter), and put the left side hose onto the tank (Head around 1.5 meter).

POWER OPERATION

- Plug the ac adapter into the outlet, plug the output into dc 12V jack.

- Numerical value **50 - 1** is representative of the previous memory value set by microcomputer, it means that operation mode be selected **- 1** and flow rate be set **50**.


SETTING BUTTON OPERATION


- Intend forcing the inside of hose being full of liquid and putting air out, please continually press **1** button.

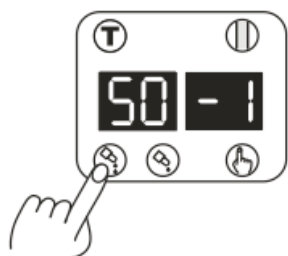
- Put the air which in side of hose out, when both side of hose be full of liquid and then left the button.


Attention: Exchange a new vessel for a liquid supplement, this procedure must do.




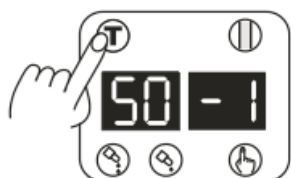
- 流速慢請按  鍵，
從50→49→48→47→
...→25 (最慢)。


- Flow rate runs slow, please press 
button, from 50→49→48→47→...
→25 (slowest).




- 流速快請按  鍵，
從50→51→52→53→
...→99 (最快)。

- Flow rate runs fast, please press 
Button, from 50→51→52→53→...
→99 (fastest).



- 每按一下  鍵LED將
-1→-2→-3→-0 循環
指示。

- The LED would cyclically indicate
-1→-2→-3→-0 at every one
touching  button.

責任保證

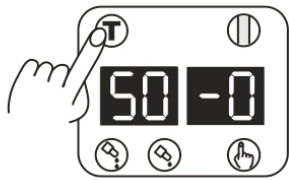
在正常用途及服務下，從購買日算起12個月，對產品零件或製造所產生瑕疵做保證。此保證僅限於本機體，機體外的損失非在保障權限之內，請退回您當地的經銷商修理或替換。

購買日期 Date Purchased ____/____/____

經銷店章 Sealed By Store

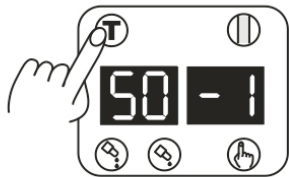
Limited Warranty

Under normal use and service, all appliances carry 12 months warranty from the date of purchase on parts and labor against manufacturing defects. Please return the unit if deemed defective to your local dealer for repair or replacement. The warranty is limited to this appliance only, Not responsible for consequential loss or damage.



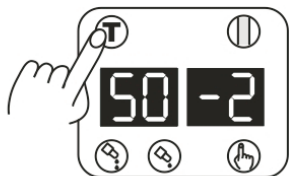
LED顯示 **-0** :
表示本機蠕動幫浦不會
滴落給料。

The LED indicates **-0** :
it means that the dosing pump would
not dose dosage.



LED顯示 **-1** :
表示本機蠕動幫浦進入
連續滴落給料功能。

The LED indicates **-1** :
it means that the dosing pump enter
the function of continuous dosing
dosage.



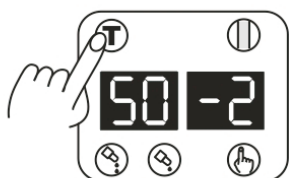
LED顯示 **-2** :
表示本機蠕動幫浦進入
信號感應時會連續滴落
給料功能。

The LED indicates **-2** :
It means that the dosing pump enter
the fuction of continuous dosing
dosage by a signal sensing.



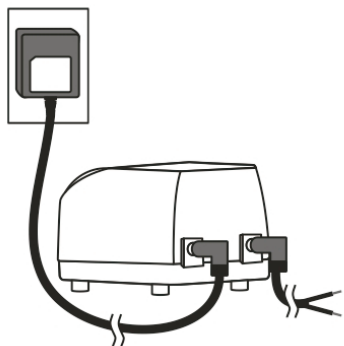
LED顯示 **-3** :
表示本機蠕動幫浦進入
信號感應系統時會延遲
一段時間後才會開始連
續滴落給料功能。

The LED indicates **-3** :
it means that the control system
detect a signal sensing and then
delay a period time before the
dosing pump start the function of
continuous dosing dosage.



●欲信號感應連續滴落給
料，請先執行圖示範例
1、2動作再將運作模式
選為 **-2**。

●Intend to dose dosage continuously
by a signal sensing, please do the
actions of figure example 1,2 first
and then select the operation
mode as **-2** .



- 請將信號線的插頭插入信號線插座，並將線尾二端接到繼電器的開關接點(常開接點與共同接點)。

- Please plug the signal-wire pin into jack ,and connect two ends to the contacts of Relay (NO and C).

信號 Signal

範例 1 Example 1

時間 Timer
溫度 Temperature
流量 Flow rate
壓力 Pressure
酸鹼 ph
位移 Displacement
光電 Photoelectric
等 etc

感測器
Sensors

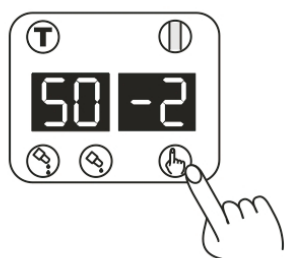
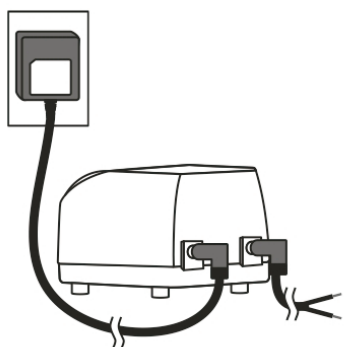
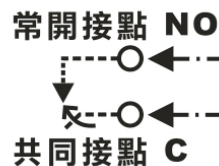
控制後的
輸出電源
Output supply
by control

繼電器之線路圖 Wiring diagram of Relay



範例 2 Example 2

感測器內建繼電器
Sensors with Relay equipped inside



- 信號感應中斷時會停止連續滴落給料，按此手動鍵就會模擬有信號感應加入，也就會執行連續滴落給料動作，離開此手動鍵就會中斷信號感應同時停止連續滴落給料。

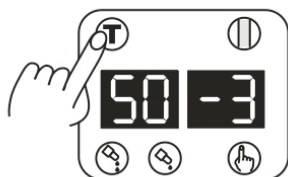
- Stop the action of continuous dosing dosage when the signal sensing be interrupting ,press this manual button will be Imitating a signal sensing to join ,it also do the action of continuous dosing dosage ,leave this manual button will interrupt the signal sensing and stop the continuous dosing dosage at the same time.

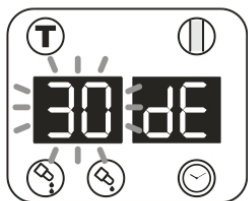
延遲模式操作

DELAY MODE OPERATION

- 欲信號感應且延遲一段時間後才會開始連續滴落給料，請先執行圖示范例1、2動作再將運作模式選為 **-3**。

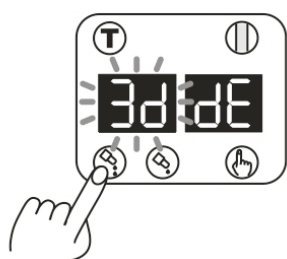
- Intend to dose dosage continuously after detected a signal sensing and delayed a period time, please do the actions of figure example 1,2 first and then select the operation mode as **-3**.





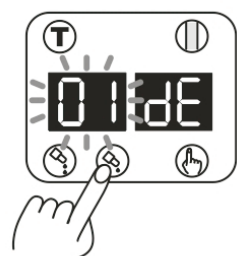
- 運作模式選為 **-3** 後經過1秒，LED將顯示 **30 dE**，**dE** 代表進入延遲模式，閃爍 **30** 代表延遲30分才會開始連續滴落給料。

- One second after the operation mode be selected as **-3**, the LED indicate **30 dE**, **dE** means entering delay mode, flashing **30** means delaying 30 minutes before starting the continuous dosing dosage.



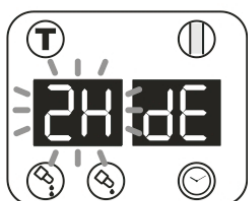
- 按 鍵則增加延遲時間(最多3天)，從30→31→...→60(每間隔1分鐘)→2H→3H→...→9H(每間隔1小時)→Hd(半天)→1d→2d→3d(每間隔1天)。

- Press button to increase the delay time(maximum 3 days), from 30→31→...→60(every 1 min intervals)→2H→3H→...→9H(every 1 hour intervals)→Hd (half day)→1d→2d→3d(every 1 day intervals).



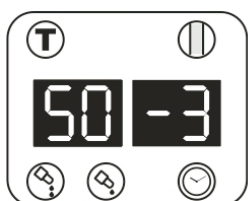
- 按 鍵則減少延遲時間(最少1分鐘)，從30→29→28→...→01(每間隔1分鐘)。

- Press button to decrease the delay time(minimum 1 min), from 30→29→28→...→01(every 1 min intervals).



- 延遲時間設定(如設定 **2H**)完成時，設定的數字(**2H**)閃爍8次之後 **dE** 會跳回 **-3**。

- When complete the delay time setting (eg **2H** setting), **dE** will turn to **-3** after the number (**2H**) setting flashes 8 times.



- LED顯示設定值 **50 -3**。

- LED indicates the data setting **50 -3** .

保養

- 橡膠管與馬達是消耗品，必須定期更換。

橡膠管：運轉2000小時後必須更換，如果有重度運轉時，則視情況縮短更換時間。

馬達：運轉2000小時後必須更換，如果有重度運轉時，則視情況縮短更換時間。

步驟如下：

1. 下蓋4支螺絲拆掉，打開上下蓋。
2. 拔開馬達接線上的連接器，取出蠕動幫浦組件。

3. 反向操作換上新的蠕動幫浦組件。

註：橡膠管或馬達損壞需更換整組蠕動幫浦。

MAINTENANCE

- The rubber hose and the motor are consumable parts and need to be maintained and replaced regularly.

Hose: The rubber hose has a running time of around 2000 hours needs replacement. If the rubber hose under heavy use conditions, the rubber hose should be shortened the regular time.

Motor: after a running time of around 2000 hours, the motor needs replacement. If the motor under heavy use conditions, the motor should be shortened the regular time.

Replacing the motor as follows.

1. Unfasten the 4 screws in the back cover, open upper and back cover.
2. Pull the power cable connection out from the connector block and remove the dosing pump assembly.
3. To fit the new dosing pump assembly in reverse order.

Note: the rubber hose and motor are damaged that should replace the entire of dosing pump.

技術規格

- 型號：CS072A-4

輸入：詳見標示貼紙

輸出：dc 12V 1000mA



幫浦運轉時全部消耗功率：2.2W

連續滴落給料或信號感應連續滴落給料或信號感應且延遲一段時間後才會開始連續滴落給料

液量：1ml/分～50ml/分

尺寸(寬x高x深)：67x71x113毫米

重量(含包裝盒)：440g

- 注意：

上列數據皆為近似參考值，規格若有變化，恕不另行通知。

TECHNICAL SPECIFICATIONS

- Model: CS072A-4

Input: Look at a mark label

Output: dc 12V 1000mA



Full Power consumption while pump running: 2.2W

Dose dosage continuously or dose dosage continuously by a signal sensing, or dose dosage continuously after detected a signal sensing and delayed a period time

Dosage: 1 ml/minute to 50 ml/minute

Measurement (WxHxD): 67x71x113mm

Weight (packaged): 440g

- ATTENTION:

Above data are approximate reference value, it wouldn't be advised if the specification being changed.