



**AquaMutant**

**teffo**

**Aquarium Constant Temperature  
& 4 Channel Controller**

**Quick Installation Guide**

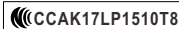
快速安裝手冊

## teffo contains AQM100-WM WiFi Module.



FCC ID:2AM3NAQM100WM01

IC ID:23049-AQM100WM  
CAN ICES-3(B)/NMB-3(B)



減少電磁波影響，請妥適使用

### Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

#### **FCC Caution:**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

#### **FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits

set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

RF Exposure: A distance of 20 cm shall be maintained between the antenna and users, and the transmitter module may not be co-located with any other transmitter or antenna.

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Déclaration d'exposition aux radiations

Cet équipement est conforme Canada limites d'exposition aux radiations dans un environnement non contrôlé.

Cet équipement doit être installé et utilisé à distance minimum de 20cm entre le radiateur et votre corps.

依據中華民國NCC低功率電波輻射性電機管理辦法第12、14條:

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率，加大功率或變更原設計之特性及功能。低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機需忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

## Installation Requirements

- Smart device with iOS 9 or Android 4.3 and later.
- Wi-Fi router with working Internet.

## Warning

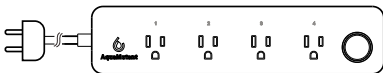
- A teffo can support 4 aquarium devices in total\*. The maximum output in combination with a teffo cannot exceed over 10A/125VAC/1250W\*. Please double check your aquarium devices.

*\*Note: If you have more than 4 devices, you need to have a 2nd or more teffo. The maximum teffo stacking is 4, managing 16 devices simultaneously.*

*\*Note: If overloaded, teffo will shut down automatically. Please reduce the number of devices on the sockets.*

- Connection through extension cable or connection through extension cable from teffo is prohibited.
- teffo must be used in a well ventilated environment with humidity under 90% and temperature under 50°C/122°F. Direct contact with water is prohibited.

## Package Contents



- **teffo Controller x 1**

L\*W\*H: 10.2 x 2.4 x 1.1 inch

Power cable: 5 ft, AWG16



- **Magnetic Temperature Probe x 1**

Length of cable: 4 ft



- **Wall Mount Indicator x 1**

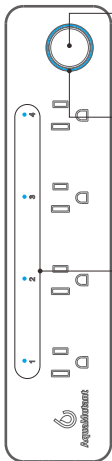
- **Quick Installation Guide x 1**



- **Accessory Pack x1**

- Magnetic holder x1
- Screws x2, KA3\*16mm
- Anchors x2,  $\Phi 6^*30$ mm
- Suction pads x2

# Hardware Overview



- **AUTO Button:** Switching between Auto and Manual mode. Automation rules will be enabled in Auto mode and disabled in Manual mode.

*\*All four sockets will be powered off once switched to Manual Mode.*

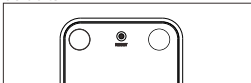
- **AUTO Status :**

- **Solid Green:** AUTO mode.
- **Light off:** Manual mode.
- **Blinking Blue:** No Wi-Fi connection or lose Wi-Fi Connection.
- **Blinking Green:** Connecting to the cloud.
- **Blinking Red:** Firmware is upgrading. Do NOT Unplug teffo.

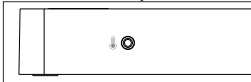
- **1/2/3/4 Status :**

- **Solid Blue :** Device in operation
- **Light off :** Device shutdown

- **RESET :** Press the reset button will reset all settings back to the factory defaults.



- **Connector of Temperature Probe**



## Install FishCare App

- teffo has to be set up with FishCare app. To download the app, please scan the QR code.
- You can also download the FishCare app by searching "FishCare" in either App Store or Google Play.



# Install teffo

- **Launch FishCare App.**
- **User Login** : Please sign up an AquaMutant account in the app. Please check your email to verify your account after the registration.
- **Connection** : Please turn on Wi-Fi on your mobile device and connect to your Wi-Fi network\*. Then follow the instructions in the app to install your teffo.

*\*Note: teffo supports 2.4GHz Wi-Fi. If you are using a dual band Wi-Fi router, please make sure you connect to 2.4GHz band on your mobile device.*

- **Connect your Aquarium Devices with teffo:**  
First make sure teffo is not in AUTO mode (light of AUTO is dim). Plug the power supplies of your aquarium devices into four respective sockets and use the app to set automations. You could name the device and set a schedule. For example,
  - **Socket 1** : Heater, "On" while Temp < 73.4°F;
  - **Socket 2** : Fan, "On" while Temp > 82.4°F
  - **Socket 3** : Light, "On" during 10am~4pm & 8pm~10pm everyday;
  - **Socket 4** : Filter, "On" always;
- **Temperature Probe connection with teffo** :  
Use magnetic holder to secure the temperature probe and suction pads to secure the cable into the tank.



## 安裝需求

- 需搭載iOS 9或Android 4.3以後的智慧型裝置。
- 已連通網路的無線路由器。

## 注意事項

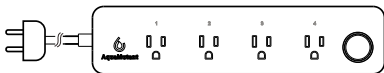
- 一個teffo可以管理四個水族設備\*。四個設備的電量加總不得超過10A/125VAC/1250W\*，使用前請先確認水族設備的耗電量規格。

**\*備註:** 若你的水族設備超過四個，你則需要第二個或更多teffo。teffo stacking最多可以讓四台teffo一起工作，同時管理16台水族裝置。

**\*備註:** 當電量過載時，teffo將會啟動自我保護，自動關閉所有電源，並停止工作。請減少teffo上的水族裝置。

- 不可透過延長線串接；或在teffo控制器上串接延長線。
- 不可讓teffo直接接觸到水；且必須在通風的環境下使用：濕度不可超過90%；溫度不可在超過50°C/122°F的環境下使用。

## 包裝內容



- **teffo控制器 x 1**

長\*寬\*高: 260mm\*60mm\*26mm

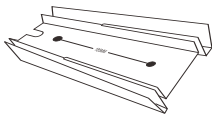
電源線: 1.5 m, AWG16



- **磁吸式溫度感應探頭 x 1**

感應線長: 1.2 m

- **壁掛孔位指示圖 x 1**



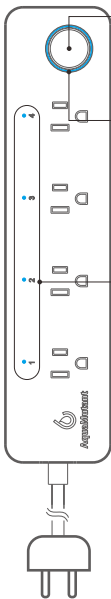
- **產品快速安裝手冊 x 1**



- **配件包 x1**

- 磁鐵固定器 x1
- 螺絲 x2, KA3\*16mm
- 壁虎 x2,  $\Phi 6 \times 30$ mm
- 吸盤 x2

## 硬體概要



● **AUTO按鍵**：切換自動與手動模式。當切換至自動模式，自動化設定將會啟動；當切換至手動模式，自動化設定將停止，並關閉四個插座電源。

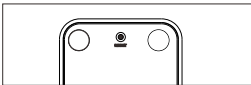
● **AUTO狀態指示燈**：

- 綠燈恆亮：自動模式中。
- 燈號關閉：手動模式中。
- 藍燈閃爍：沒有Wi-Fi連線。
- 綠燈閃爍：連接至雲端。
- 紅燈閃爍：韌體升級中，請勿拔除teffo電源。

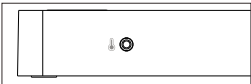
● **1/2/3/4 開關指示燈**：

- 藍燈恆亮：設備運作中。
- 燈號不亮：設備關閉中。

● **RESET按鍵**：按壓一下，可將設定清空並回復出廠預設值。



● **溫度感應探頭插孔**



## 安裝FishCare App

- teffo必須透過app來設定。
- 請利用 QR code的app來掃描以下QR code，以快速下載FishCare app。您也可以到App Store或Google Play商店內搜尋「FishCare」並安裝。



## 安裝teffo智能恆溫四路控制器

- 打開FishCare App
- 會員登入：請先在APP上註冊，並透過註冊的郵件信箱進行會員認證與開通。
- 聯網：請將您的行動裝置Wi-Fi開啟，透過2.4GHz訊號連上路由器\*，並確認路由器在上網狀態中，依照APP指引進行動作。

\*備註：若您使用的是雙頻Wi-Fi路由器，teffo僅支援2.4GHz，配對時請先確認您的移動裝置是用2.4GHz與Wi-Fi路由器連線。

- 水族設備插入teffo與設定：請先確認**AUTO**狀態顯示燈為暗；若無，請按下**AUTO**按鈕進行關閉。將您的水族設備插入**1/2/3/4**電源孔，透過**APP**進行命名與自動化設定，如：
  - 電源孔1：加溫棒，“On” 當溫度 < 23°C；
  - 電源孔2：風扇，“On” 當溫度 > 28°C；
  - 電源孔3：燈具，“On” 每天(10am~4pm)與8pm~10pm)時段；
  - 電源孔4：過濾器，“On” 保持開啟；
- 溫度感應線插入teffo：透過磁鐵固定器將溫度感應探頭安裝入魚缸中，並用吸盤固定線材。
- 按下**AUTO**按鈕：開啟自動化，系統依照所設定規則自動運轉。

## NOTES

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## 備忘錄

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