REEF FACTORY

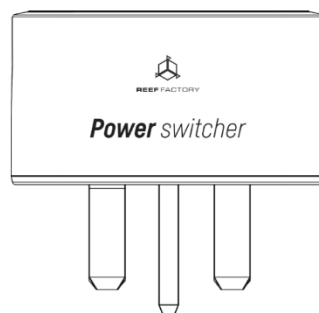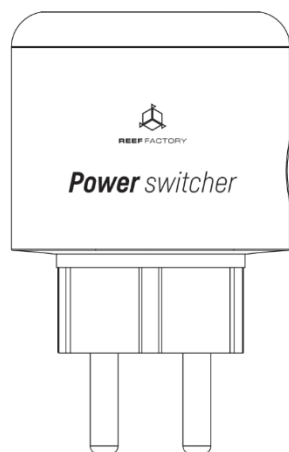# User manual

ver. 1.3

Power switcher

Dear Customer, thank you for your purchase

ENGLISH

www.reeffactory.com

Table of contents

> **!** ATTENTION: Thermo control is not waterproof. Avoid submerging the device in water. Submerging the device in water may cause permanent damage to the device. There is a risk of electric shock.

> **!** ATTENTION: Read the manual carefully before use. There might be slight differences between this manual and what is presented on the screen.
> For safety reasons the Power switcher can only be configured and used if you are Smart reef system user and your account is active.

? Do you need our help? Write to support@reeffactory.com

ATTENTION: UNPACKING

During transportation, protective packaging was used to protect the appliance against any damage. After unpacking, please dispose of all elements of packaging in a way that will not cause damage to the environment. All materials used for packaging the appliance are environmentally friendly; they are 100% recyclable and are marked with the appropriate symbol. Caution! During unpacking, the packaging materials (polythene bags, polystyrene pieces, etc.) should be kept out of reach of children.
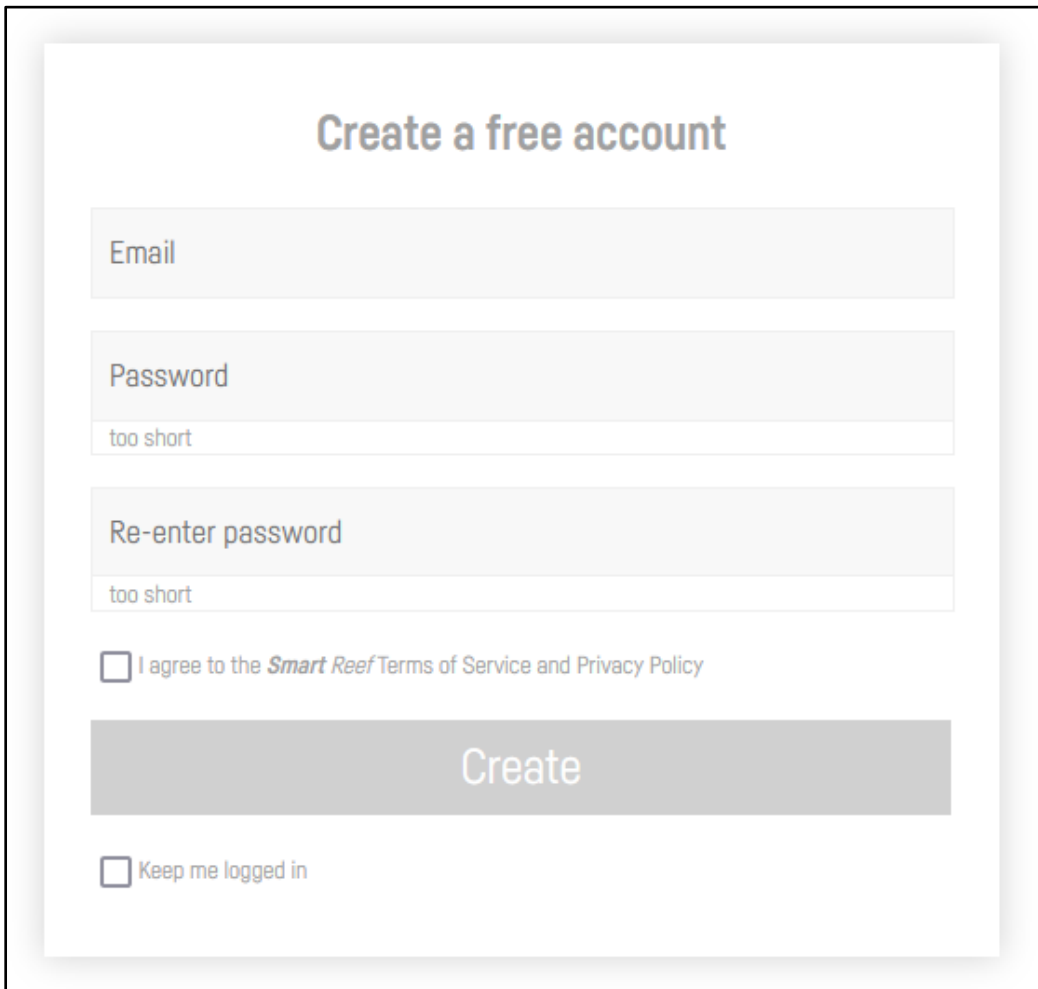
ATTENTION: DISPOSAL OF THE APPLIANCE

Old appliances should not simply be disposed of with normal household waste, but should be delivered to a collection and recycling centre for electric and electronic equipment. A symbol shown on the product, the instruction manual or the packaging shows that it is suitable for recycling. Materials used inside the appliance are recyclable and are labelled with information concerning this. By recycling materials or other parts from used devices you are making a significant contribution to the protection of our environment. Information on appropriate disposal centres for used devices can be provided by your local authority

I.   Initial configuration

To configure the device properly, please follow the instructions below.

1. For safety reasons the Power switcher can only be configured and used if you are Smart reef system user and your account is active. If you don't have account yet, go to www.reeffactory.com and create one.

2. To do this select the icon ⊗ in the upper right corner, and then tap "Create". Enter your email address, password and tab "Create" button. The password should be sufficiently complicated and hard to crack. If you would like to stay logged in, please check the box.

⊗ **The password should be sufficiently complicated and hard to crack.**

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3. When your account is ready you can proceed with configuration of your Power switcher.

4. Connect the device to power.

5. The device can be configured using a browser on your computer, laptop, tablet or smartphone. To do this, open the list of available Wi-Fi networks and find the network that name corresponds with serial number of the device, for example: **RFPSXXXXXXXXXXX.** Our device works with 2,4 GHz bandwidth. To log in use password: **reeffactory**

6. When you are connected to the device's network open your browser and go to www.thermocontrol.io If you see the message below after you've entered the correct address in the address bar it means that you may be still connected to your home network (wired or wireless)

This domain is used to configure **Smart Reef** device.
If you see this text it means that you are not logged properly into device Wi-Fi.

Please connect to the Wi-Fi device only (Wi-Fi password is *reeffactory*) and refresh this page.
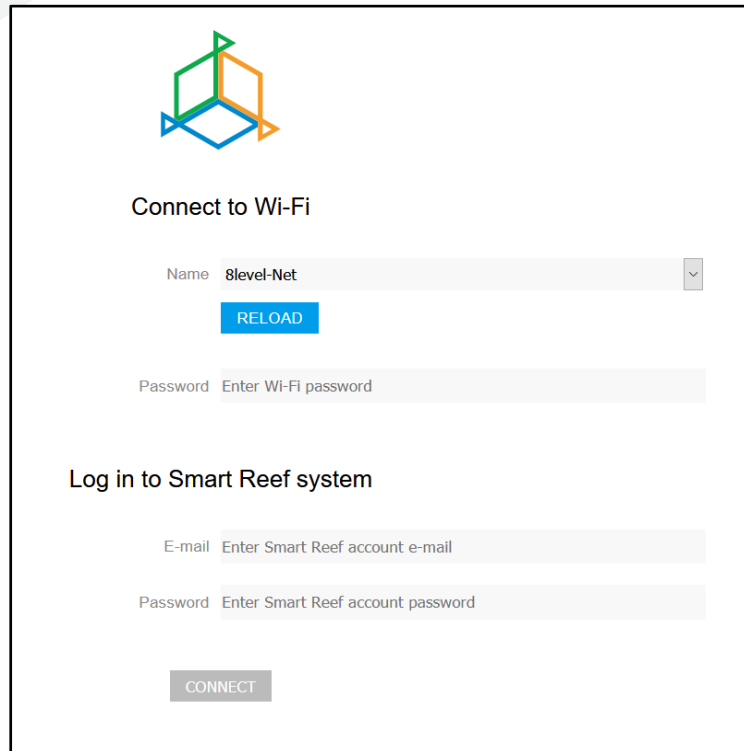
REEF FACTORY

Try to connect with the device one more and repeat the procedure

7. When the Power switcher configuration screen appears please follow the steps below

II.   Operation mode configuration

Configure the device in three simple steps

Step one – connect the device to your home Wi-Fi network. If the network is protected from unathorized access please type in the password.
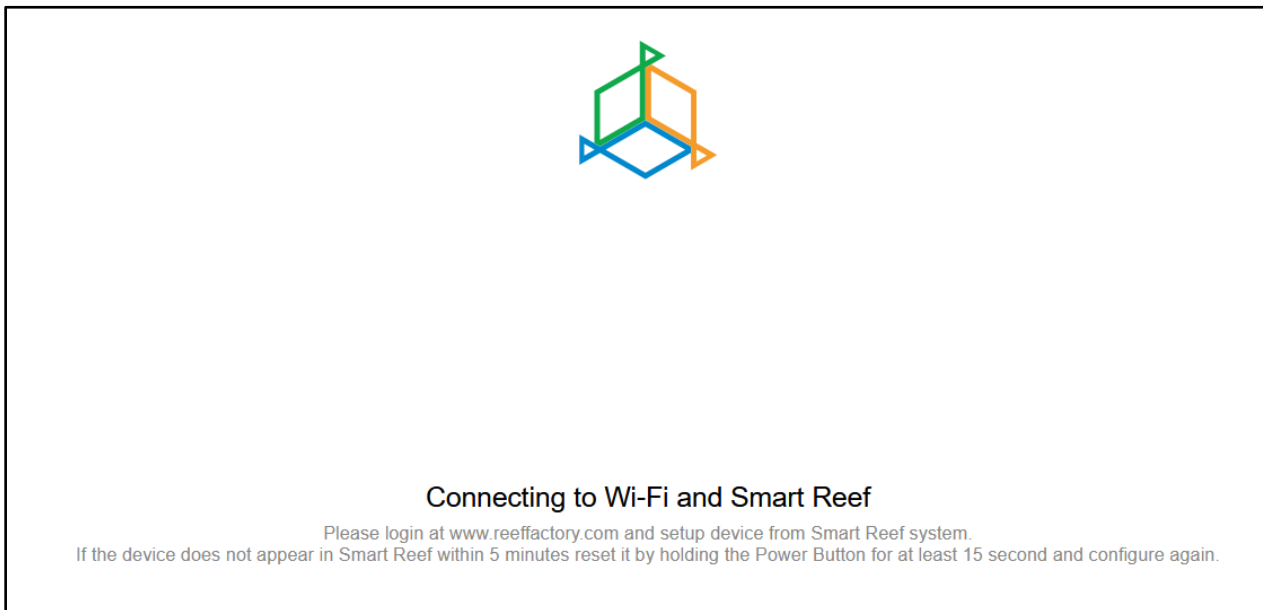

If you can't see your home network on the list of available Wi-Fi networks tap the [RELOAD] button the device will start to search for networks again. Select you home network from the list and put the password in the box below.

Step two – log your device into the **Smart reef** system. Provide the login (e-mail address) and password, you used to set up your account. Tap the CONNECT button. You should see that the device is trying to connect with your network and your **Smart reef** account.

Connecting to Wi-Fi and Smart Reef
Please login at www.reeffactory.com and setup device from Smart Reef system.
If the device does not appear in Smart Reef within 5 minutes reset it by holding the Power Button for at least 15 second and configure again.

You will receive a message at your e-mail address if the device connects successfully to the **Smart reef** system.

> **!** **ATTENTION: If the device doesn't show up in the Smart reef in 5 minutes after logging in, reset it by holding the power button for at least 15 seconds.**

Step three – connect to your home network and finish the configuration of the device. After logging in to the **Smart reef** system you should see your Power switcher on the list of your available **Smart reef** devices.

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III.   Operation modes

After logging the Power switcher into the **Smart reef** system it is necessary to configure the device. The operation modes of the Power switcher are described below.

> **!** The device with the UK version of the plug due to plugging design requires more force to be properly fitted into the socket. This action does not cause the risk of damaging the device and it reduces the risk of the ejecting the plug from the socket. Maximum power draw of the connected devices is 3000W.

1.   automatic mode – this mode allows you to set the automatic operation of the device.

Green bars on the timeline indicate the periods in which the Power switcher is in the ON state (connected device is powered) and the breaks between them show when the device is in the OFF state (connected device is not powered).
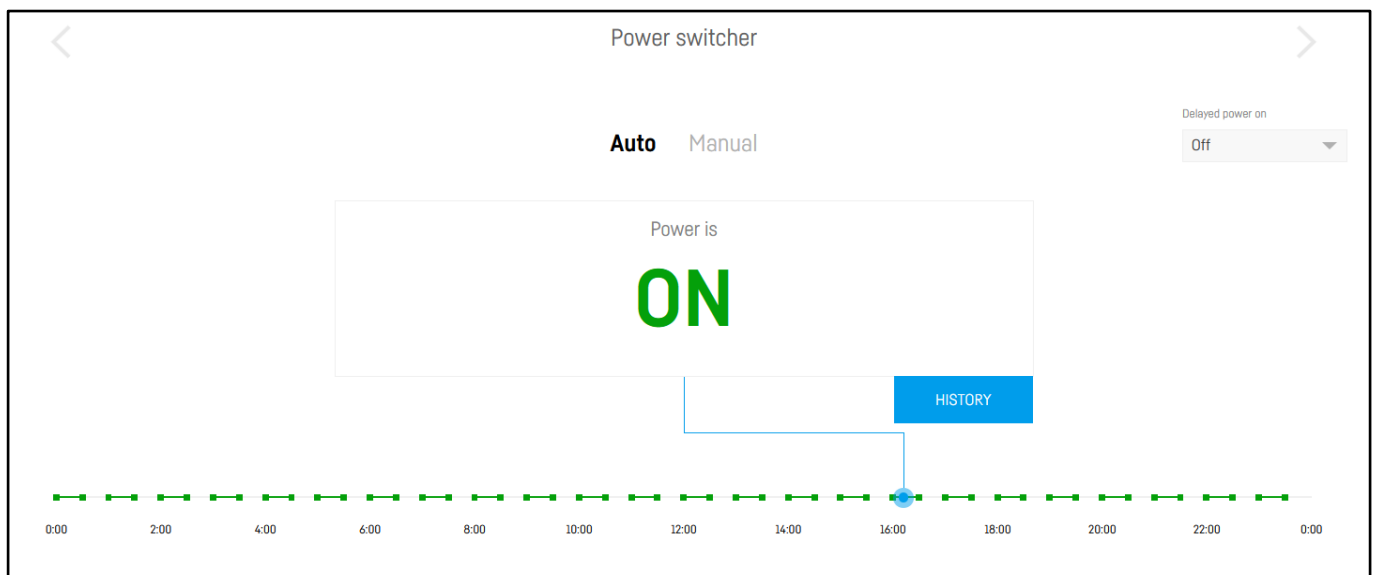
In the bottom right corner of the screen there is the SETUP button. After you click on the button you will be presented with two configuration modes: period and sequential. Period Mode allows to set the ON/OFF time for every day of the week.
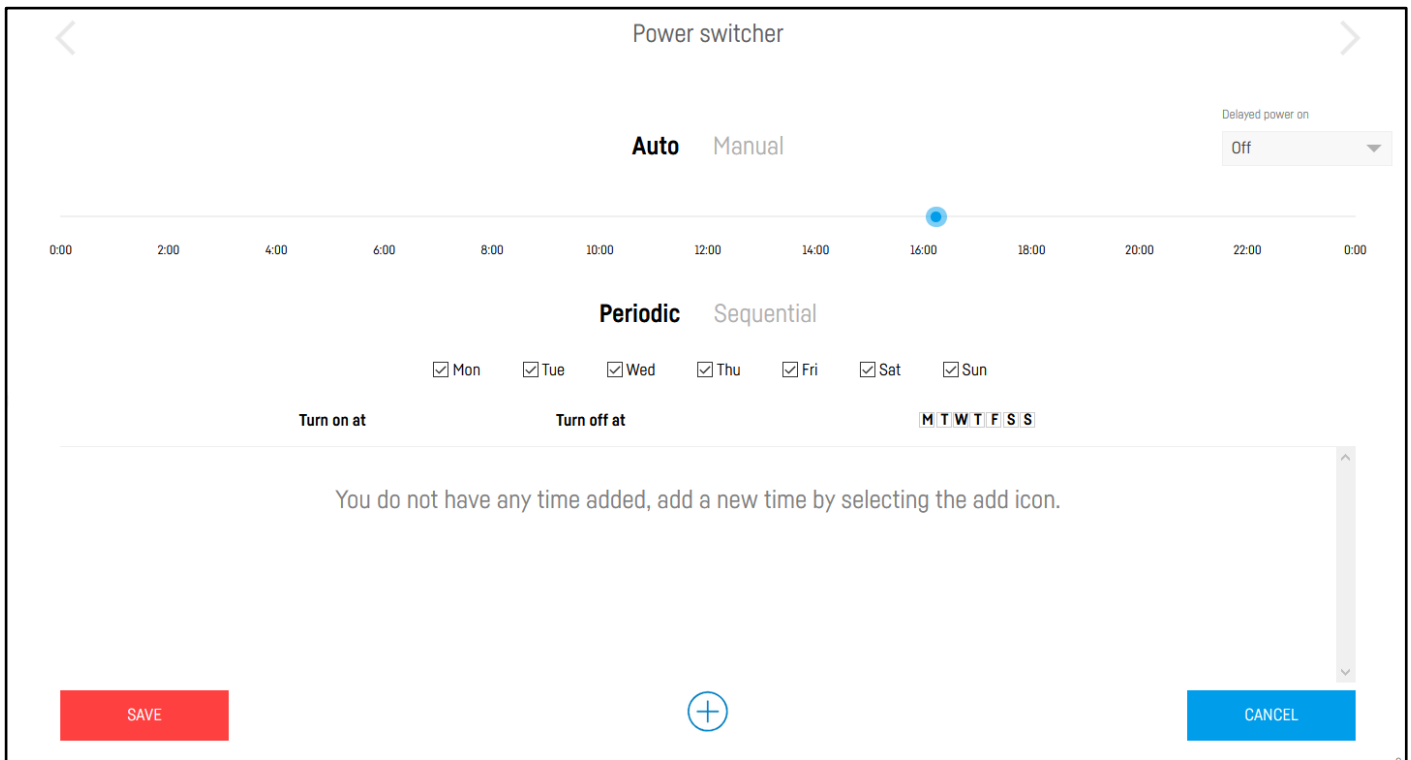
Adding a new time range and the days of the week is done with ⊕ button, which you can find on the bottom part of the screen. When you click it, you should be presented with the screen below.
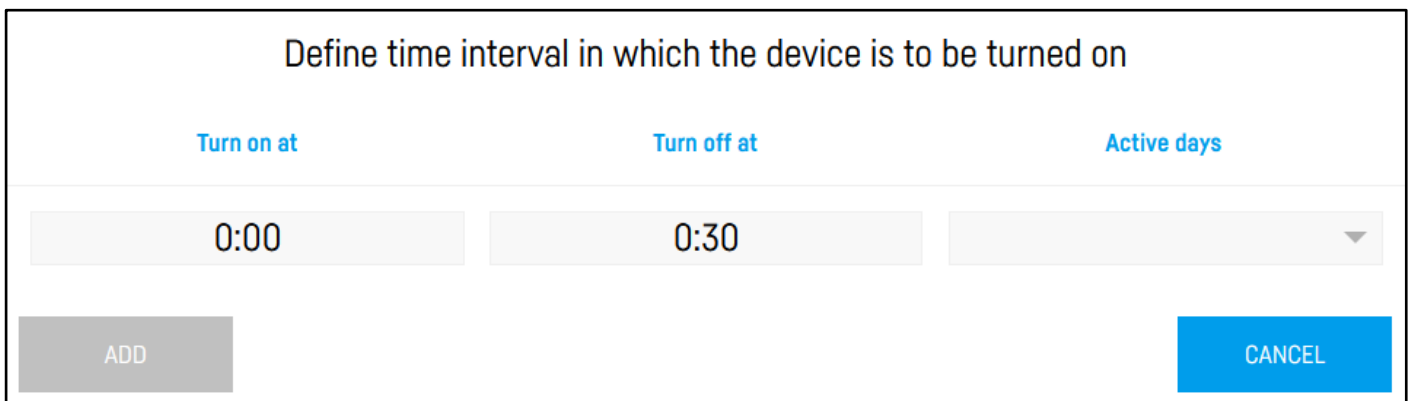
Remember that the set hour "Turn ON at" has to be set before the "Turn OFF at" hour. You have to select at least one day for the device to operate in the Period Mode.

You can see four examples of the configuration set above. Description of the operation for each configuration:

Example 1. The device will be turning ON at 12:00 am and turning OFF at 12:30 am, Monday to Friday.

Example 2. The device will be turning ON at 3:00 am and turning OFF at 7:30 am on Tuesday, Thursday and Saturday.

Example 3. The device will be turning ON at 12:00 pm and turning OFF at 1:00 pm on Tuesday, Saturday and Sunday.

Example 4. The device will be turning ON at 1:38 pm and turning OFF at 2:30 pm on Wednesday, Saturday and Sunday.

In the sequential mode, you select for how long the powered device should be working and how long the breaks should be. In the example below you can see the configuration that would allow the connected device to work for two hours with one hour break.
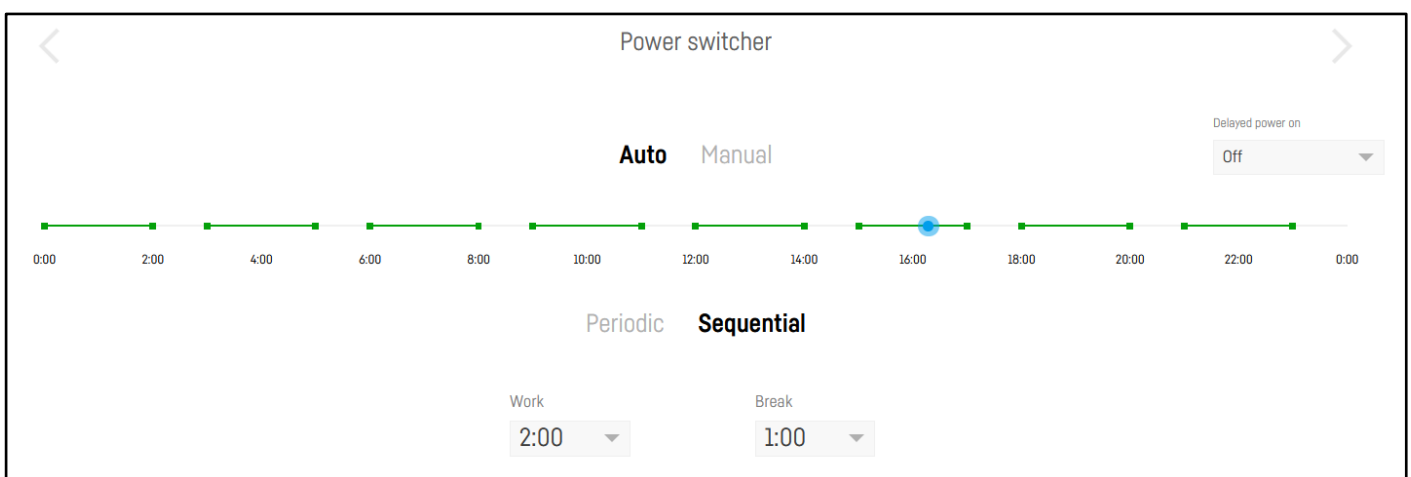
manual mode – it allows for manual turning ON or OFF of the device remotely or setting the timer for how long the Power switcher should work in the manual mode.

"Active for" is used to set the timer for how long the Power switcher should operate in manual mode. When the "Active for" time finishes the Power switcher will switch to automatic mode.

You can set the timer for up to 60 minutes. If you set the "Active for" to "Always" the Power switcher will stay in the manual mode until you change it manually.

Example 1: Set the power to ON and the timer for 15 minutes. Power switcher will turn to ON state and after 15 minutes it will go back to automatic mode. If the automatic mode was not configured before the device will switch to OFF.

Example 2: Set the power to OFF and the timer for 60 minutes. Power switcher will turn to ON state and after 60 minutes it will go back to automatic mode. If the automatic mode was not configured before the device will switch to OFF.

Example 3: Set the power to ON and the timer to "Always". Power switcher will stay in the ON state.
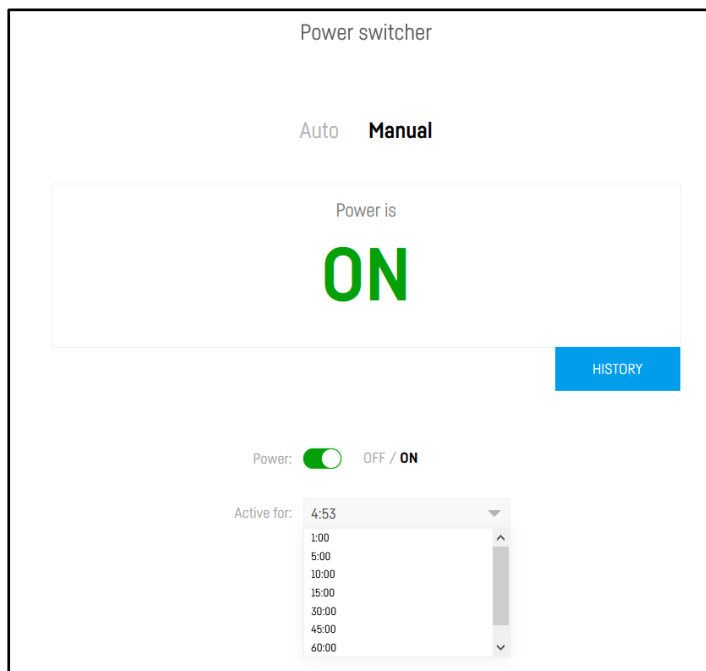
By clicking the button you can check the history of the state of the Power switcher.

2. Power switcher delay function

In the top right corner, you can find the Delay function box. It allows the Power switcher to delay powering on the socket for a set amount of time. It is especially useful if there was a power outage and some of the devices, like for example skimmer, shouldn't be powered right away.
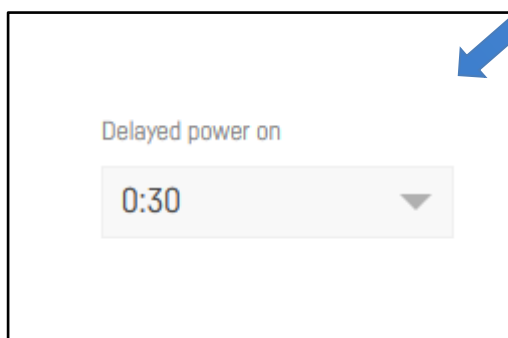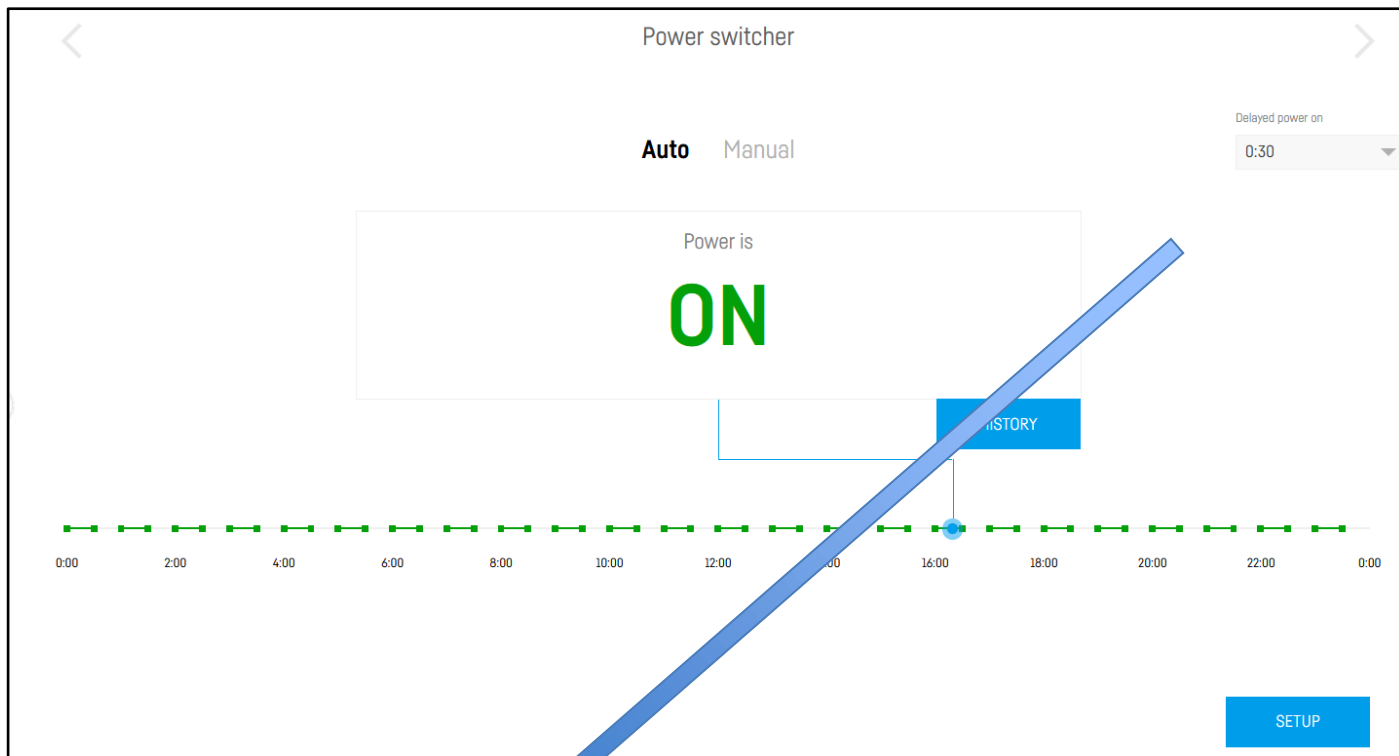
3. Manual control and Power switcher mode indication

The manual control is carried out as follows:

- by pressing the button for not longer than 5 seconds you can turn the Power Switcher to manual mode for 5 minutes (either ON or OFF state). After that period the device will go back to automatic mode,

- by pressing the button for 5-15 seconds you can turn the Power switcher to manual mode until you chose otherwise (either ON or OFF state). The device won't change mode until you press the button again for less than

5 seconds. If you press the button, the Power switcher will stay in manual mode for 5 more minutes and then go back to automatic,

- by pressing the button for at least 15 seconds you can bring the device to the factory settings.

4. Operation mode indication:

- LED is off – the connected device is not powered,

- LED is red – the connected device is powered,

- LED flashes blue – Power switcher requires configuration.

IV. Resetting the device

If your device is not working properly, you would like to configure it once again or you can't connect to the device despite trying multiple times you can bring it back to the factory settings by holding the power button for at least 15 seconds.

V.   SMART Reef system

Connect to your home network with your computer or mobile device. Now go to www.reeffactory.com and log onto your Smart reef account. Check if the device was properly added to your device's list.

You can change the device's name and add it the aquarium system of your choice. In the lower right corner you can find your device's serial number and its firmware version.

Our devices are SMART and we are constantly developing and improving on them. Once in a while you will receive the information about the new update available for your device. This allows your device to work even better.
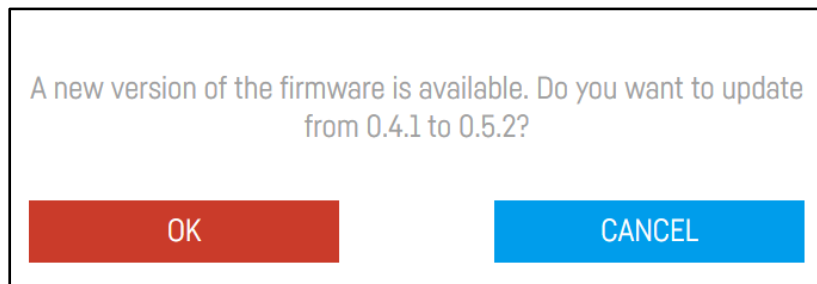
By pressing OK button you will start the automatic update process.
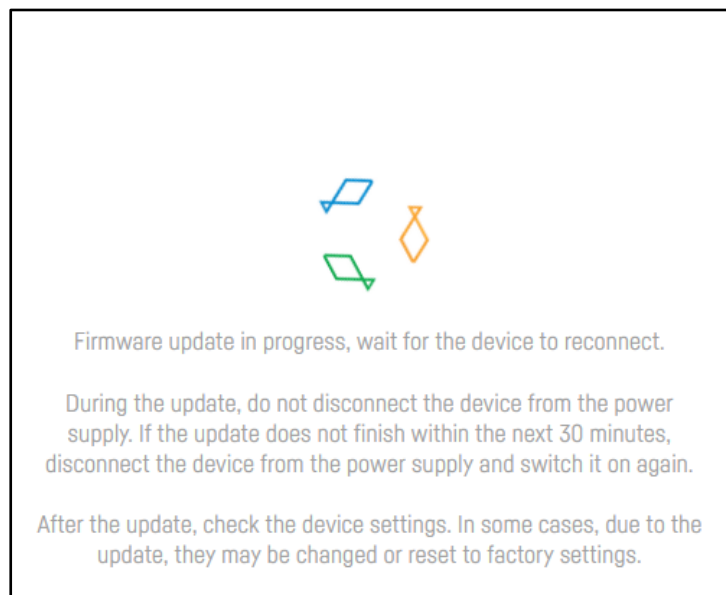
You will always find additional and most up to date information about the device its use and configuration on our webpage www.reeffactory.com.

VI.   Technical problems and possible causes

The table below presents the typical problems that you can encounter when using the device and solution to these problems.

? Problem	! Cause	Solution
The device does not power on and does not broadcast Wi-Fi signal	No power	Check if the device is properly connected to the socket. Then, hold the power button for at least 15 seconds to bring the device to the factory settings. Check if the problem has been resolved.
Can't log in to the device	No direct connection between the device and your phone/computer	Check if your computer or phone is connected to the device's network. Sometimes it automatically connects back to your home network. Check if the problem has been resolved.
The device is not visible in the Smart Reef	The device has not been properly connected to your home network or is not logged in to the Smart Reef	Log in to the device and check if the Smart Reef and Internet status icons are displaying that the device is properly connected. If they are not, please log in to your account or connect the device to your home network.
The device loses the connection to the Smart Reef	The range of your home network is not sufficient	Remember, that your home network can have different signal strength in different rooms. It could be too low in the vicinity of the device. Try to move the device closer to your router or use a repeater to extend your home network range in the area. Check if the problem has been resloved.
The device does not broadcast Wi-Fi or you can't log into the device.	The device may require a reset	Bring the device to the factory settings by holding the power button for at least 15 seconds. Check if the problem has been resolved.
The device cooling/heating output is constantly powered	Internal circuitry problem	The device has to be returned for a check-up to the Authorized Service Centre

! If the above methods have not worked, please contact us and describe your problem by writing to support@reeffactory.com. Additional and up-to-date information about the device, its operation and setup can be found at our website www.reeffactory.com, in the relevant product tab.

REMEMBER: Never repair the device yourself unless you have the right expertise and experience. The device is powered by voltage ranging from 110 to 230 V, and working with live devices may cause electric shock, loss of health or even life.